

Collaboration.subject____Tool.support...CLIENT

Collaboration.subject

M3

M2

M1

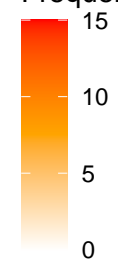
INS

NO

RTU

Tool.support...CLIENT

Frequency



0

0

1

3

1

5

8

6

15

Collaboration.subject____Client.type

Collaboration.subject

M3

M2

M1

BROWSER

DESKTOP

MOBILE

Client.type

Frequency

15

10

5

0

1

0

0

6

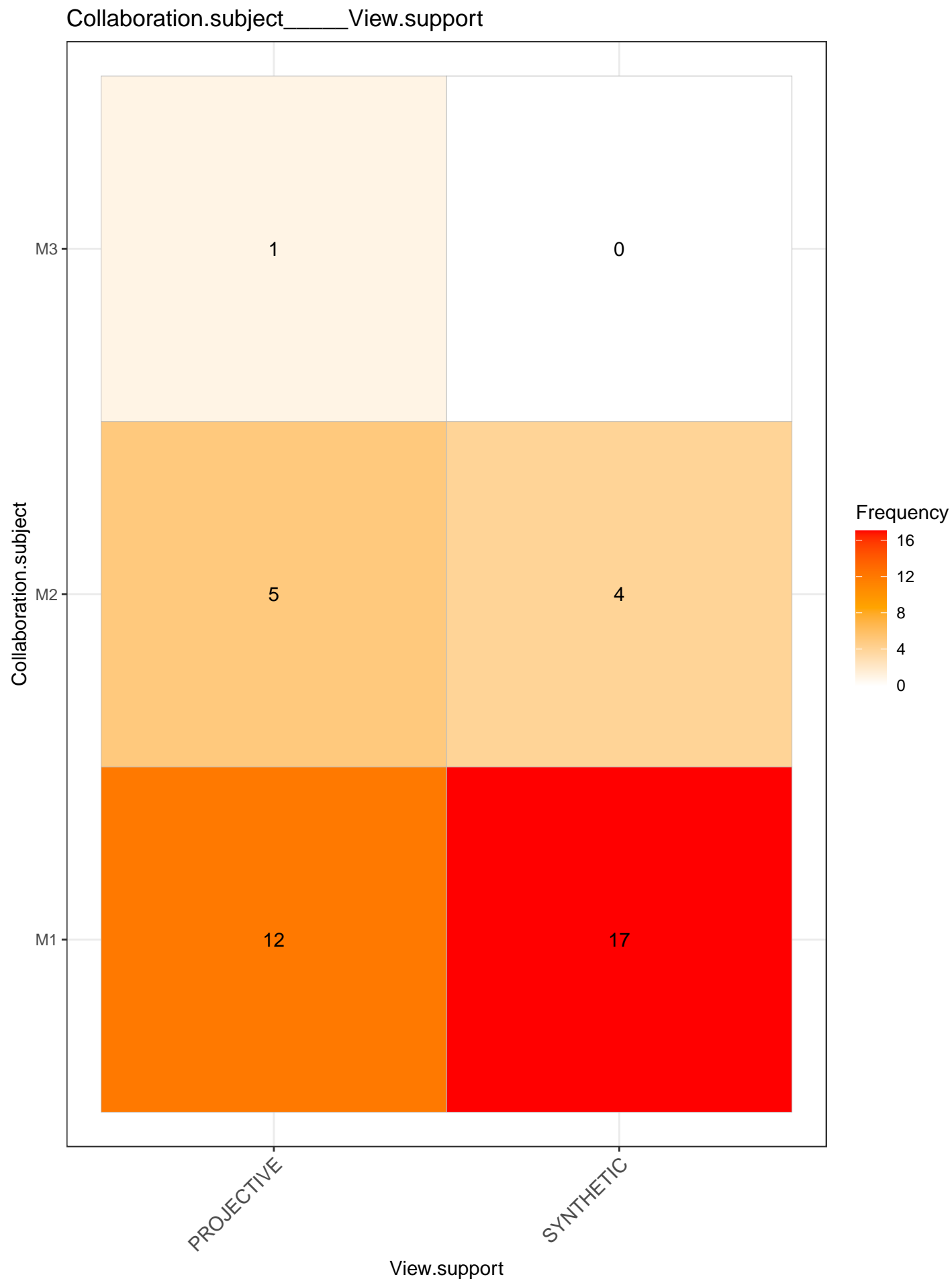
4

1

14

15

4



Collaboration.subject_____Multi.views

Collaboration.subject

M3

M2

M1

Frequency

15
10
5
0

1

0

1

0

4

3

3

0

19

5

5

1

MULTI-USER SINGLE-VIEW

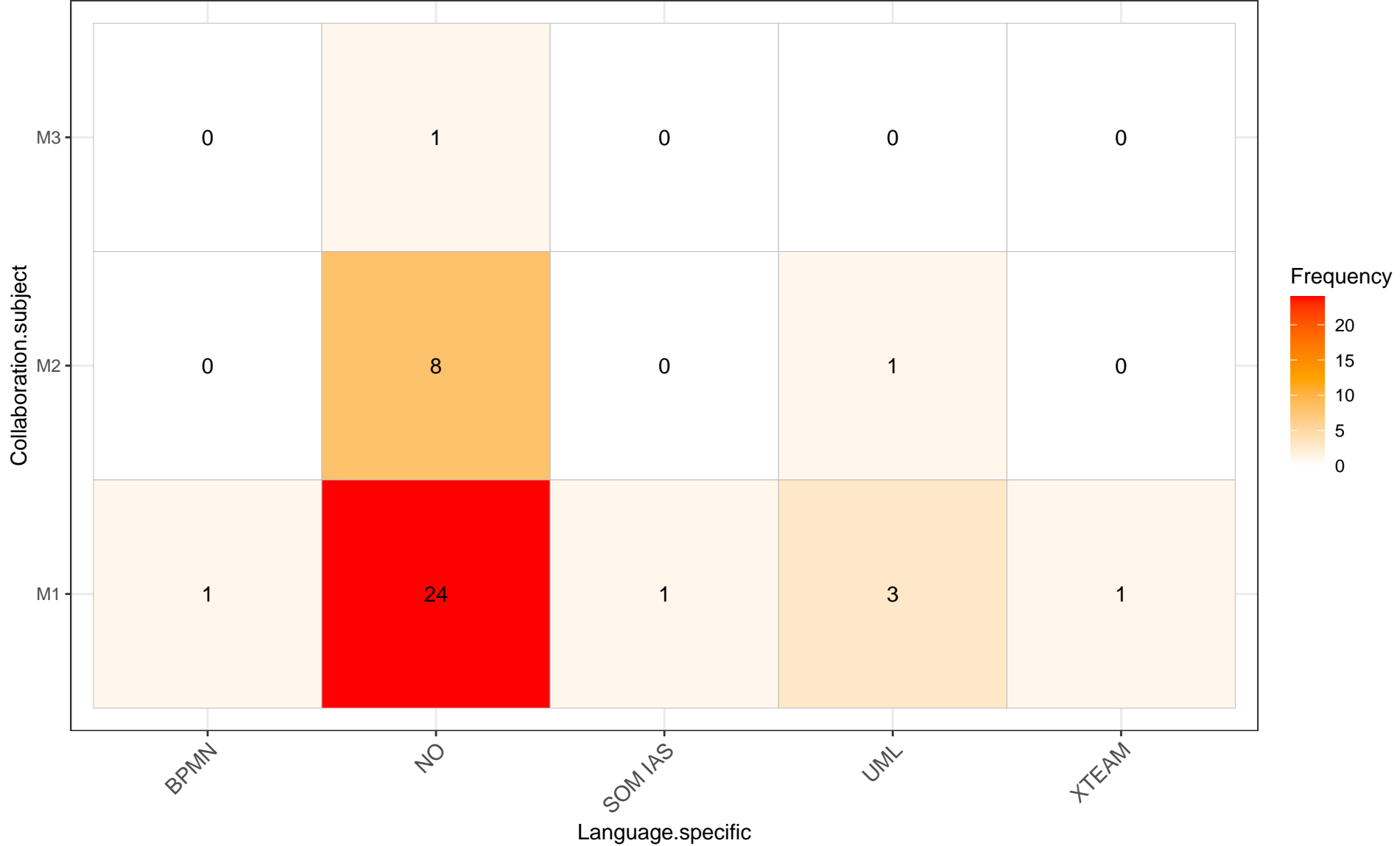
MULTI-VIEW MULTI-MODEL

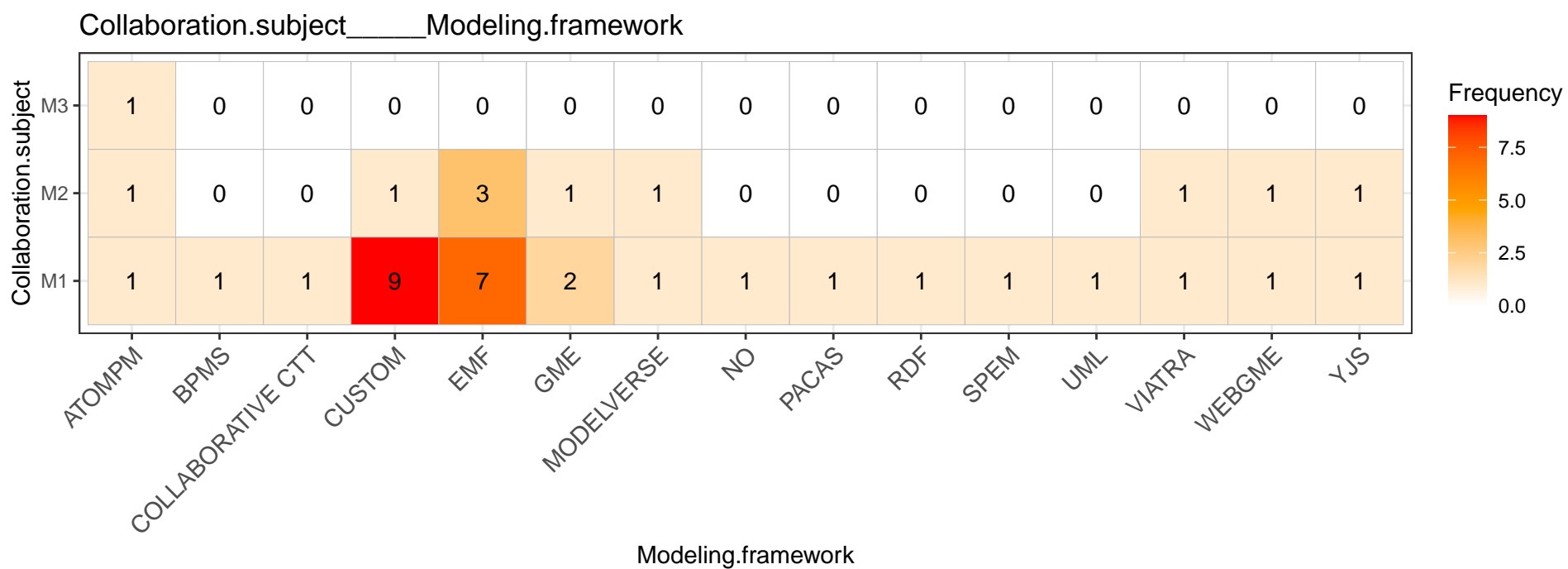
MULTI-VIEW SINGLE-MODEL

SINGLE-VIEW MULTI-MODEL

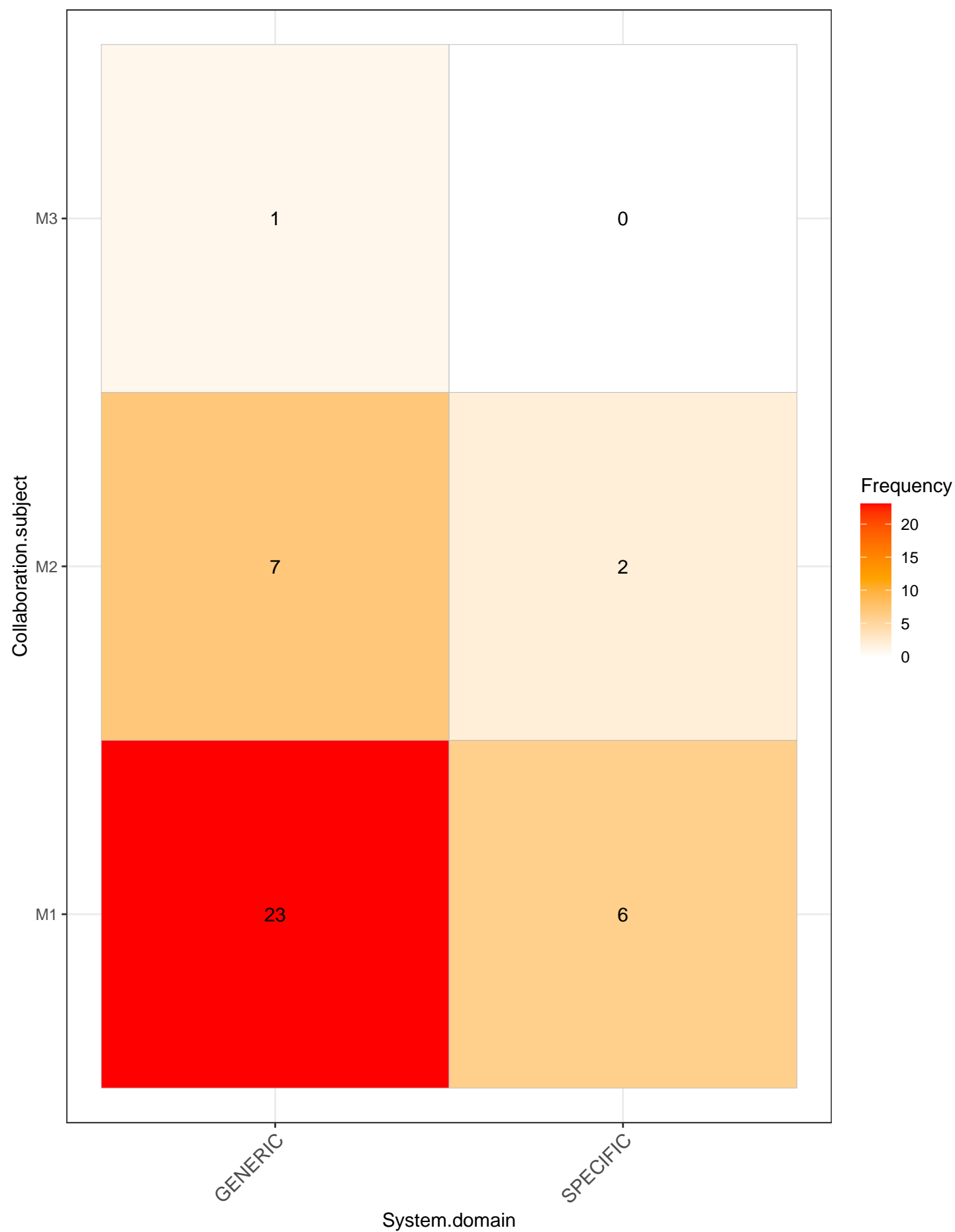
Multi.views

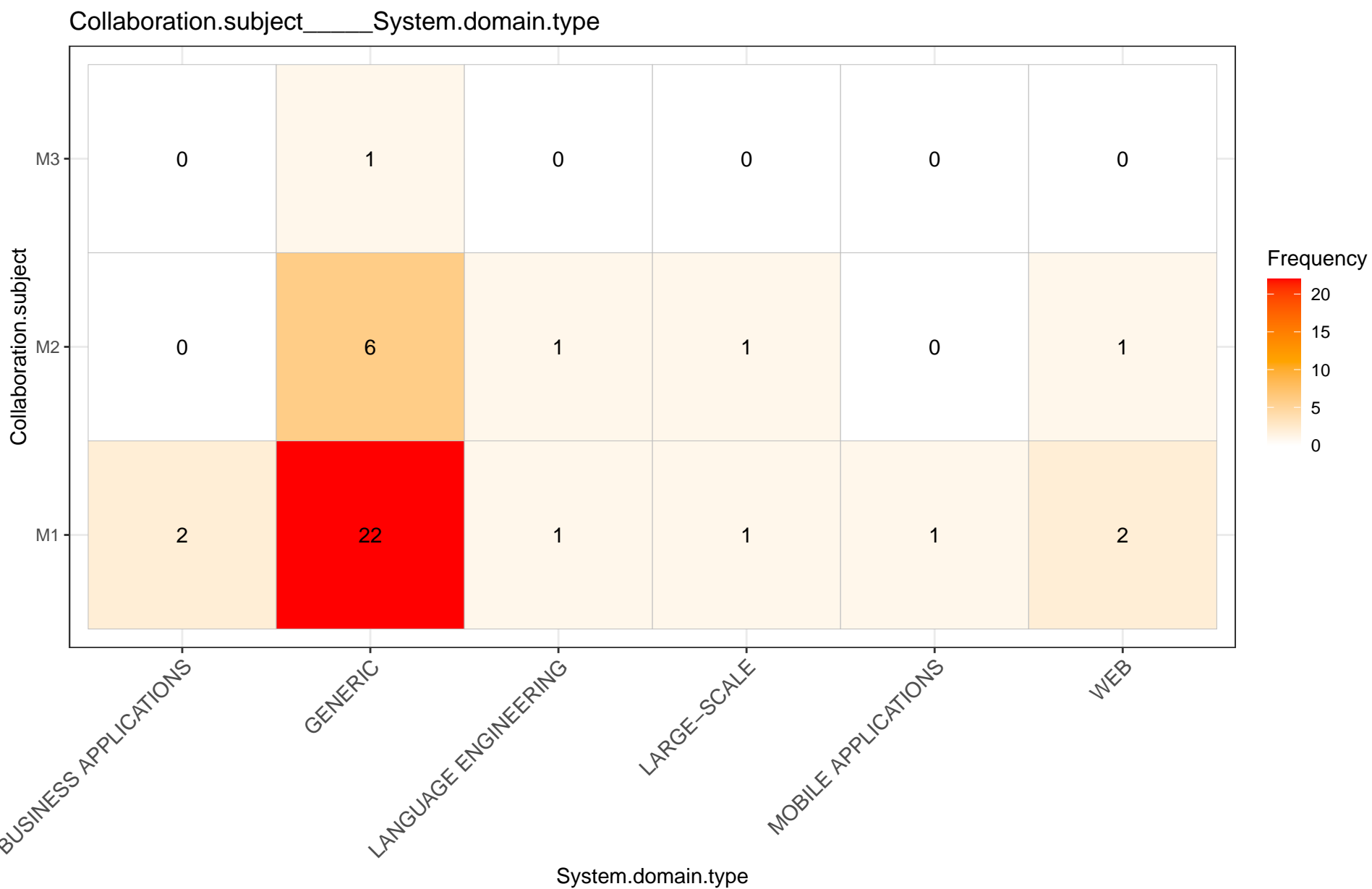
Collaboration.subject____Language.specific

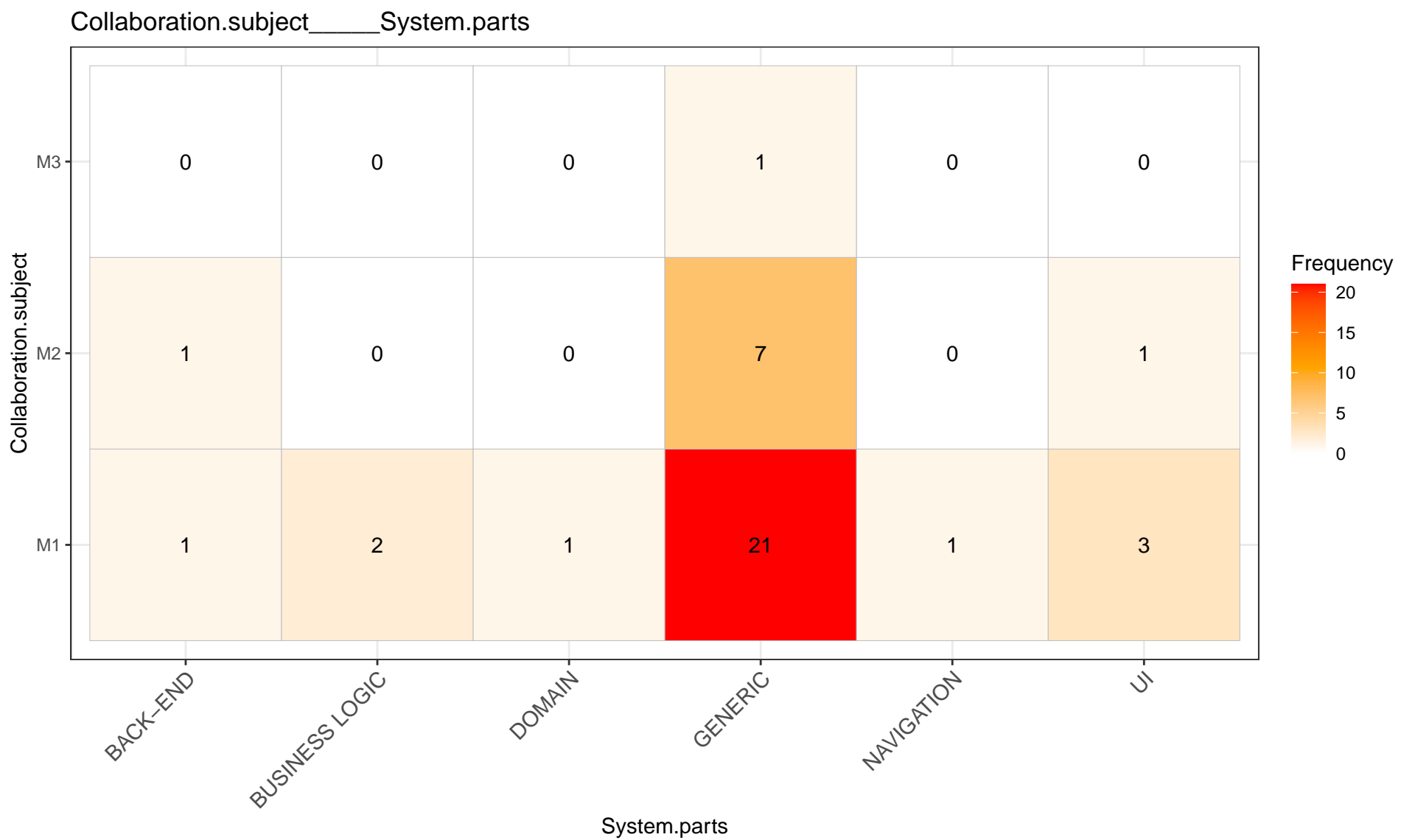




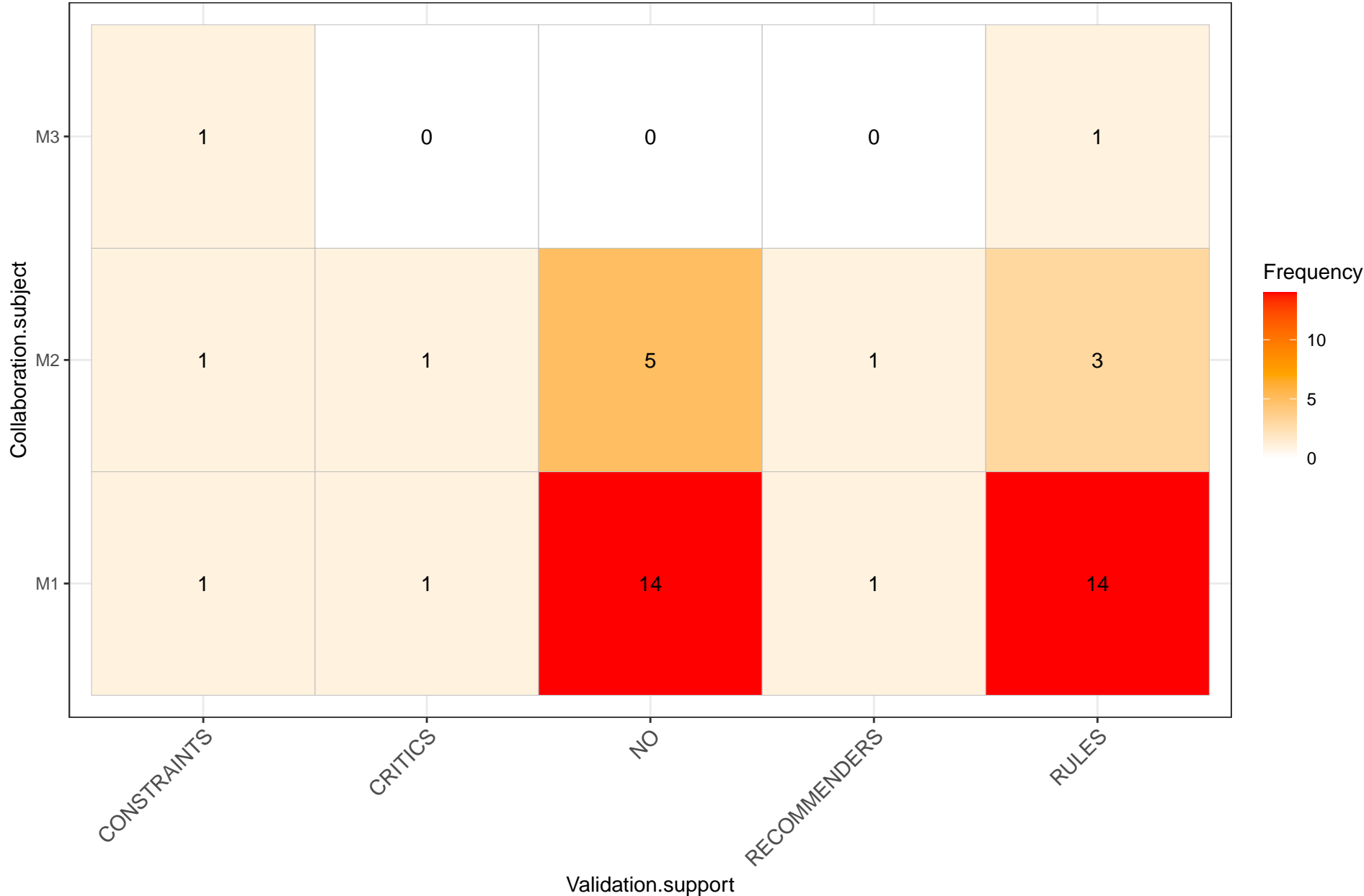
Collaboration.subject_____System.domain



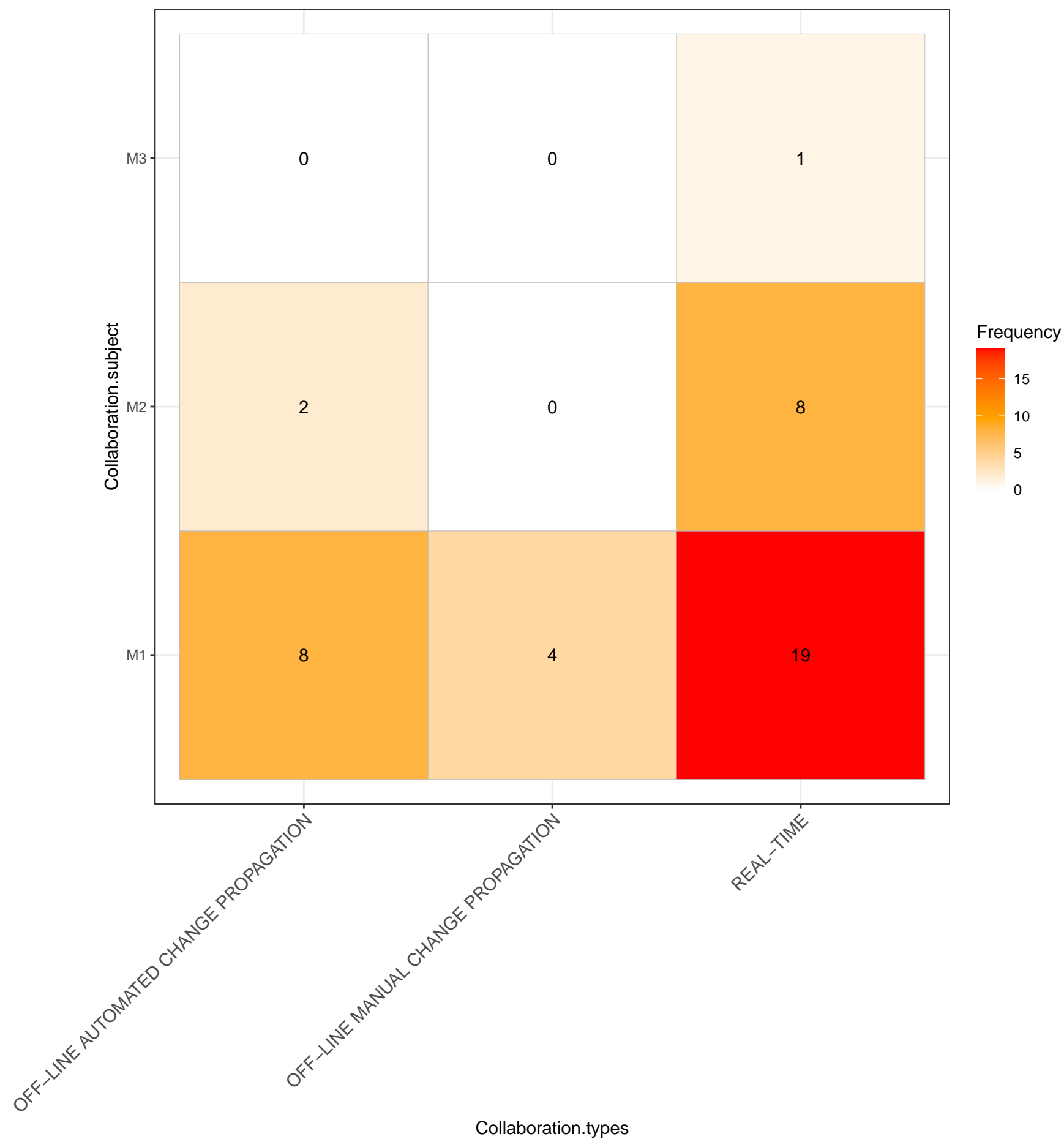




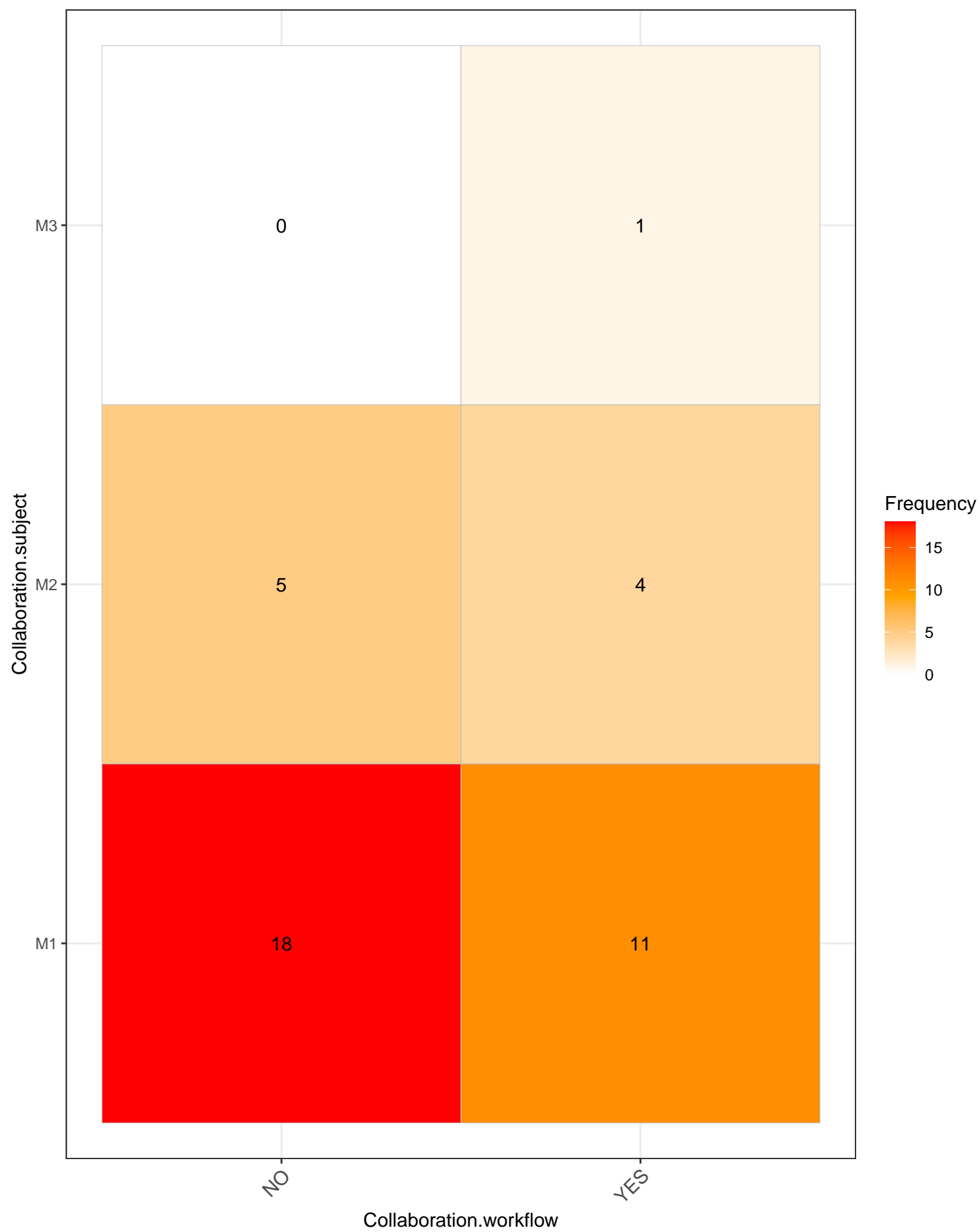
Collaboration.subject_____Validation.support



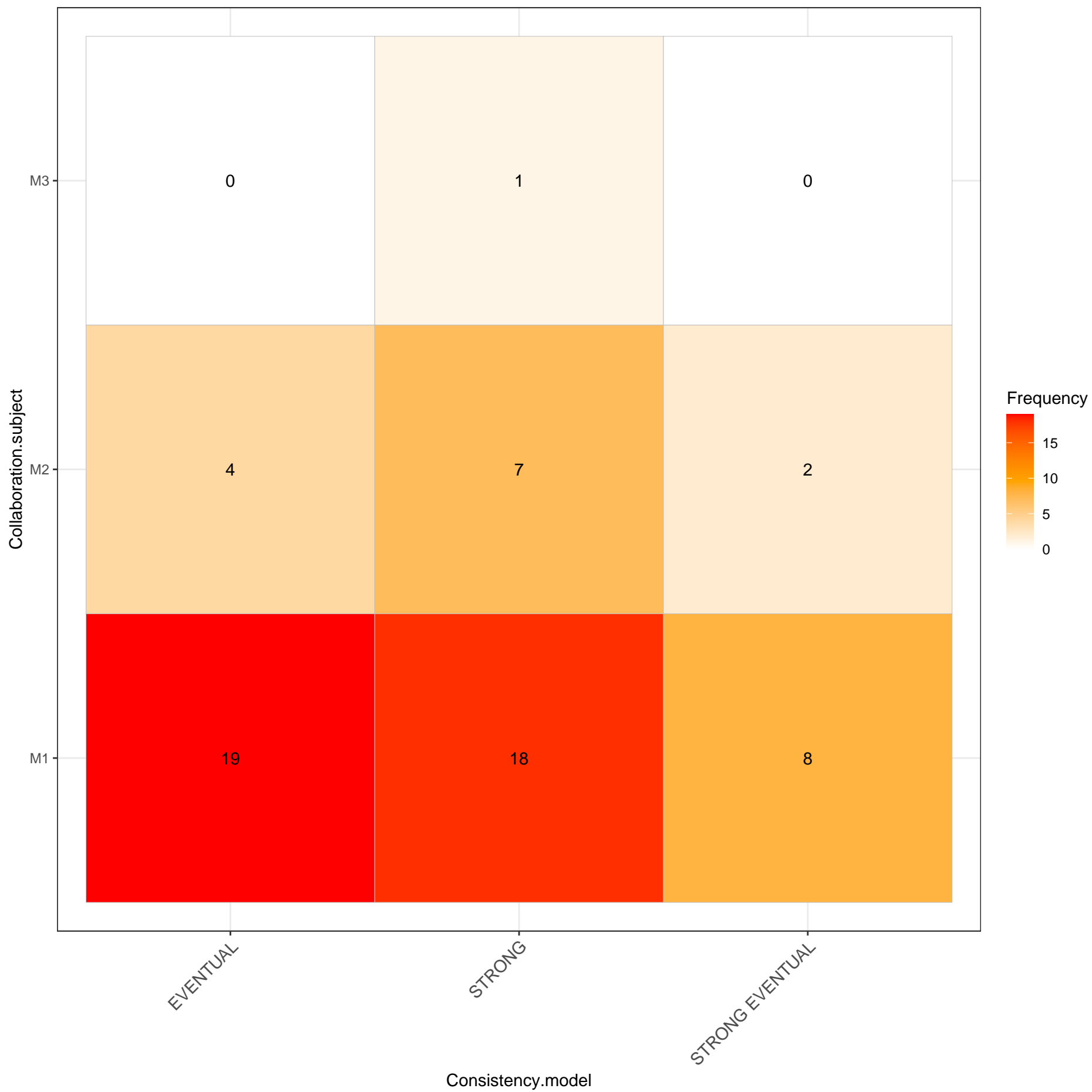
Collaboration.subject_____Collaboration.types

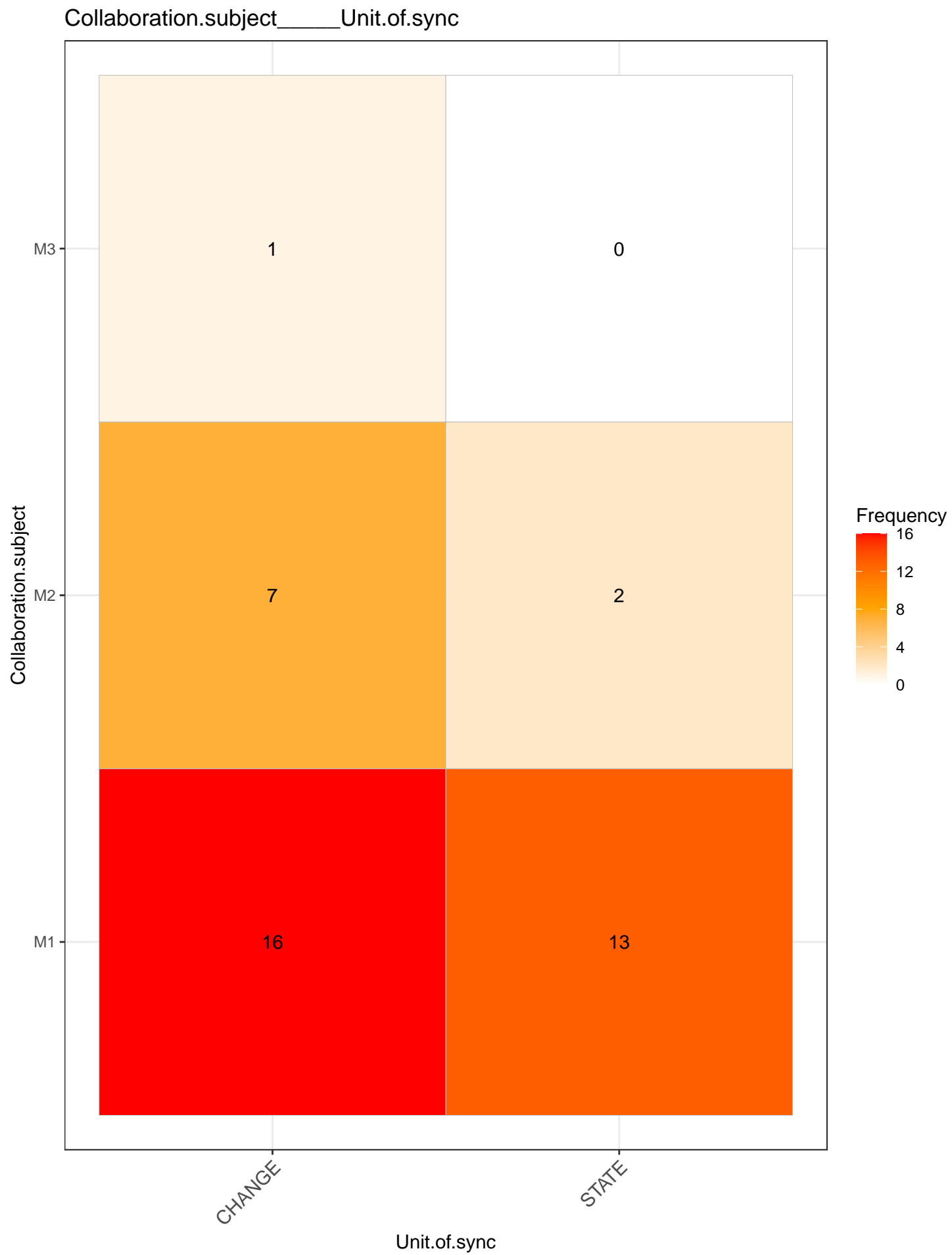


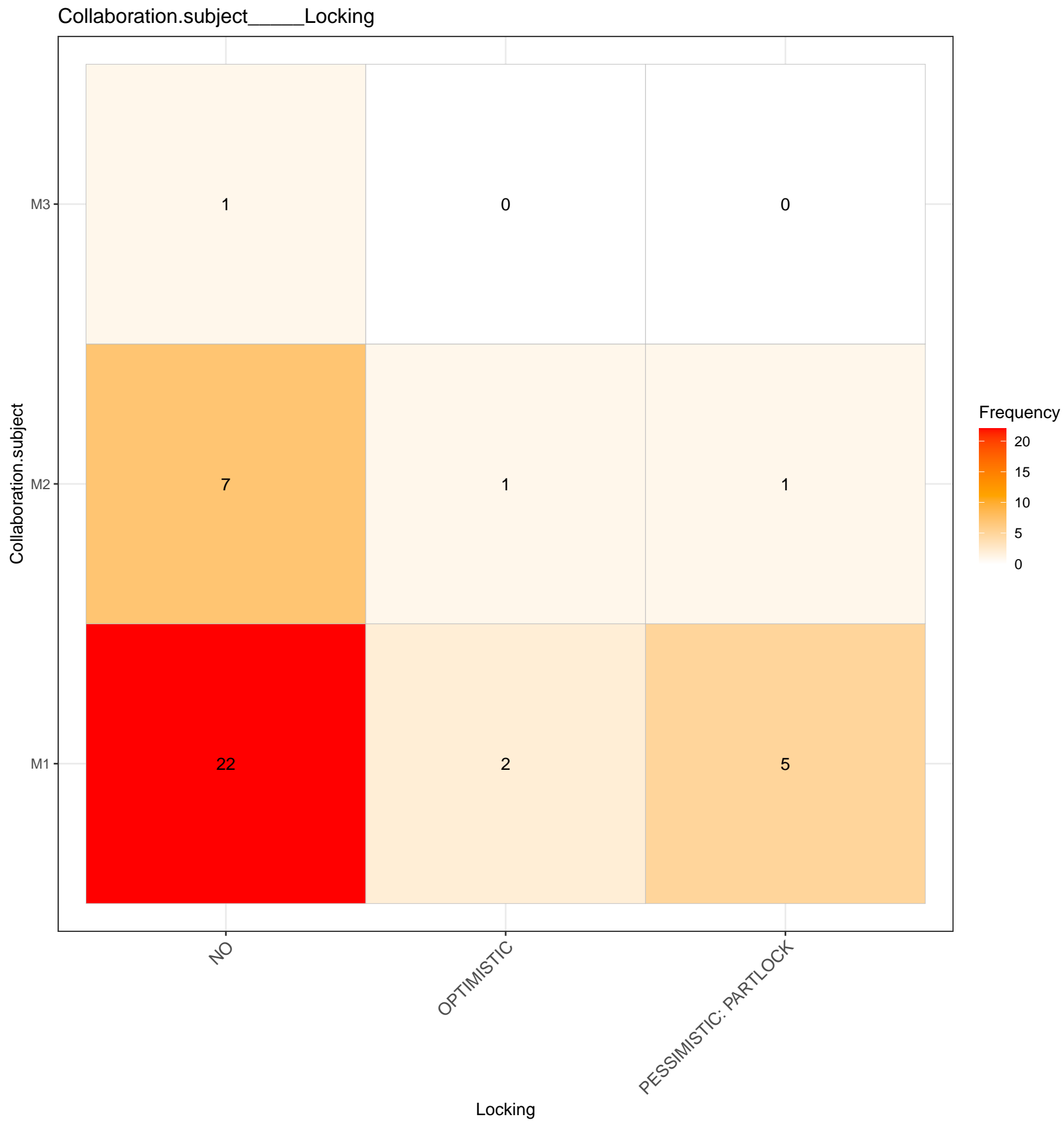
Collaboration.subject_____Collaboration.workflow



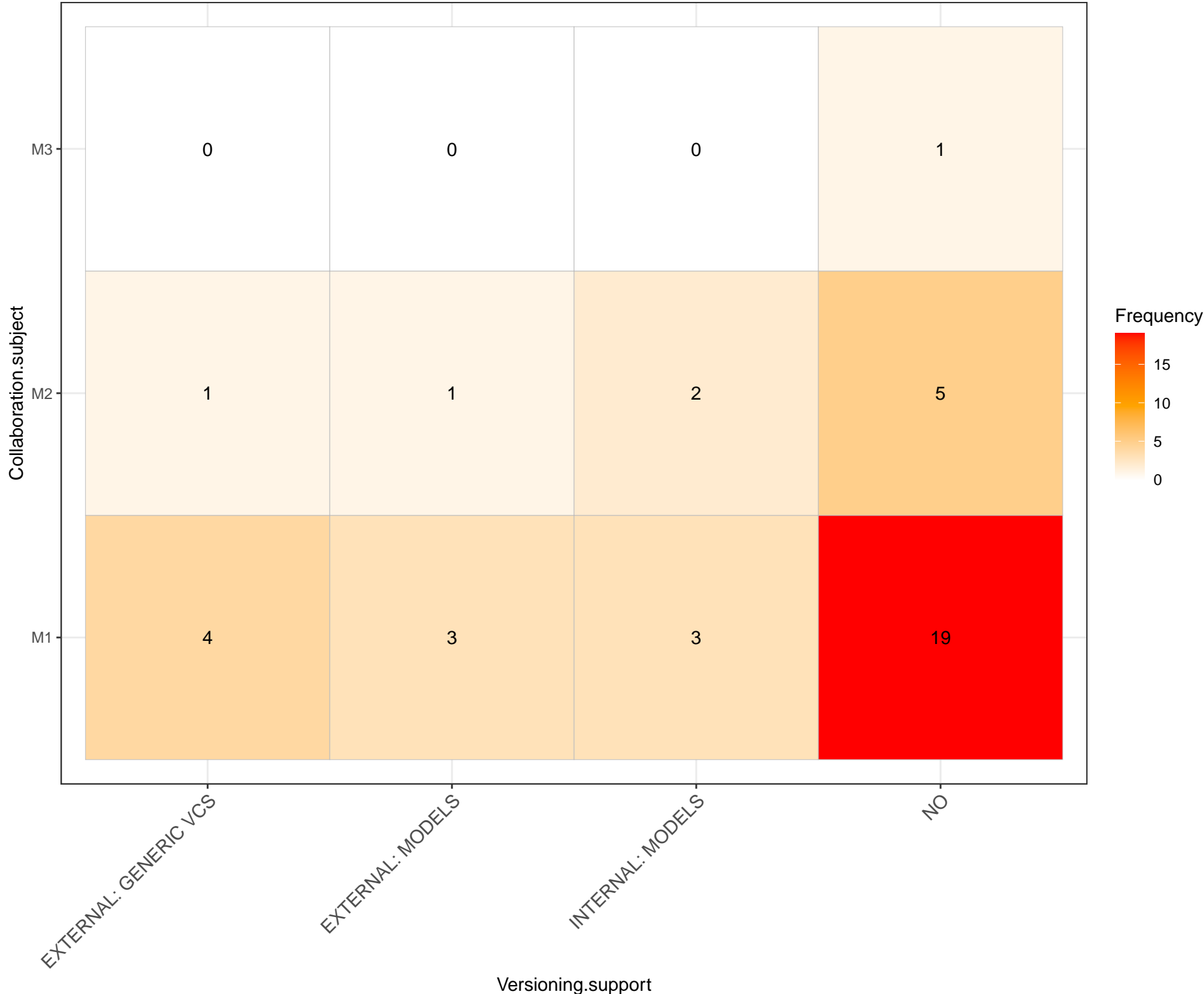
Collaboration.subject_____Consistency.model



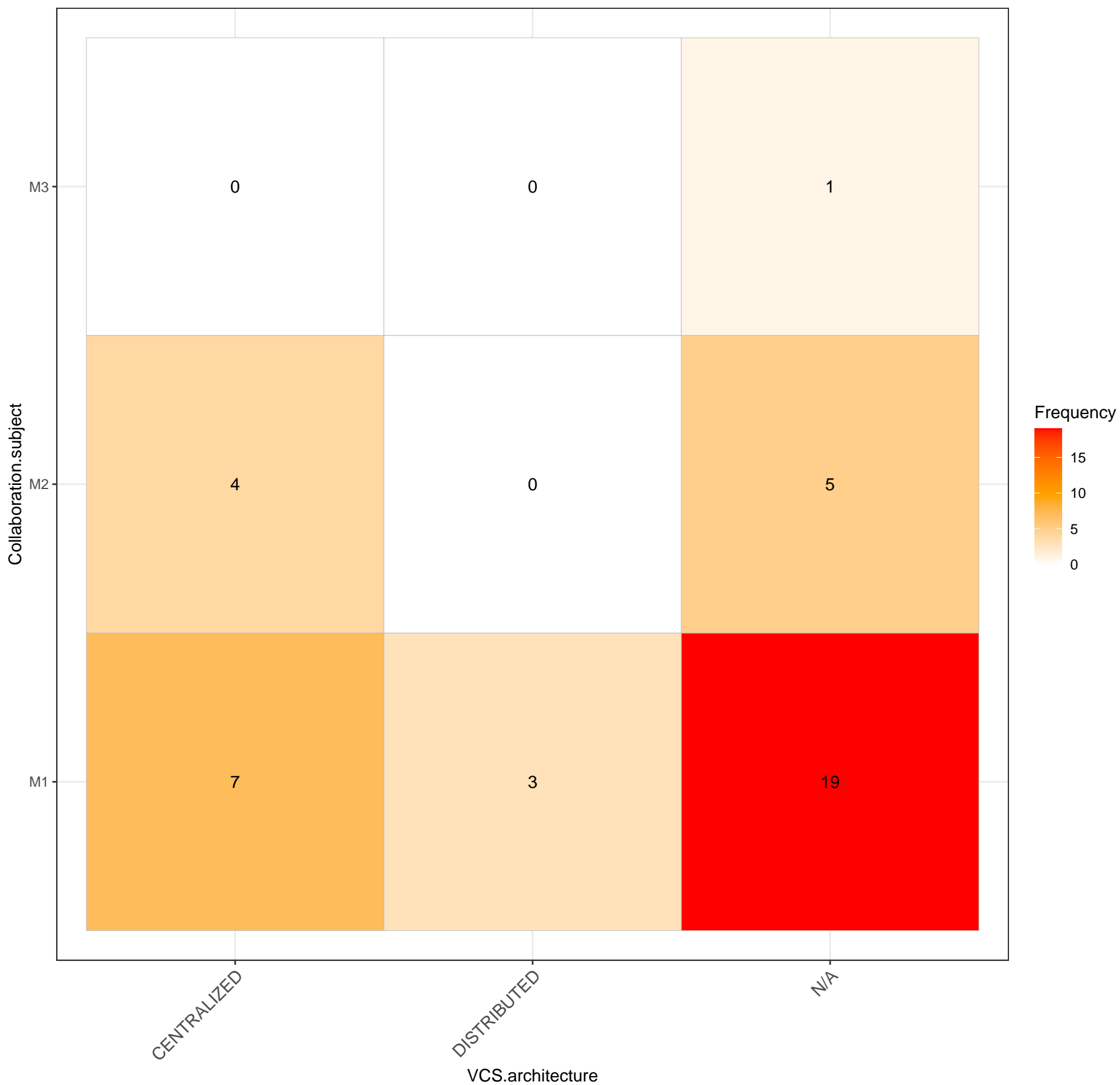




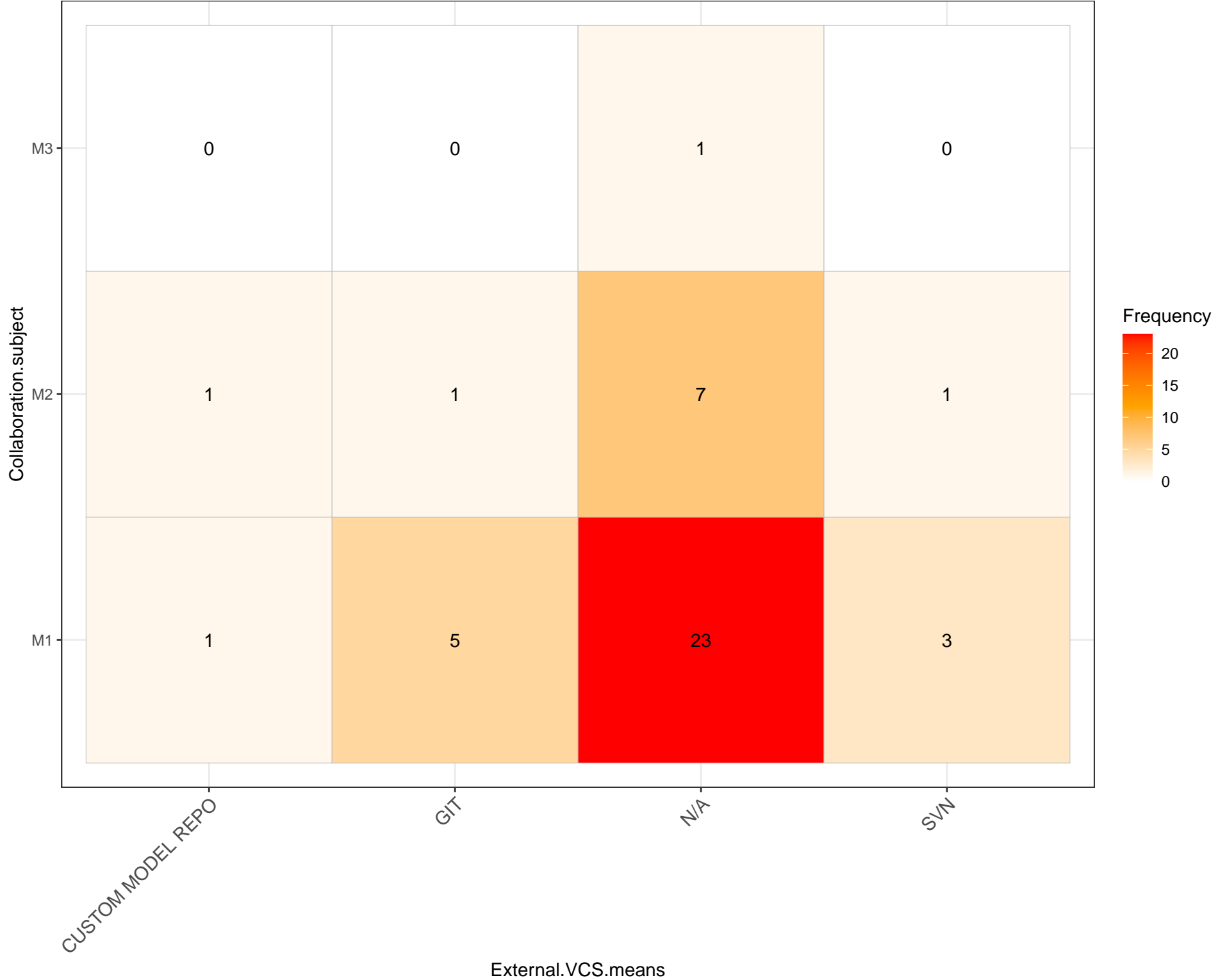
Collaboration.subject_____Versioning.support



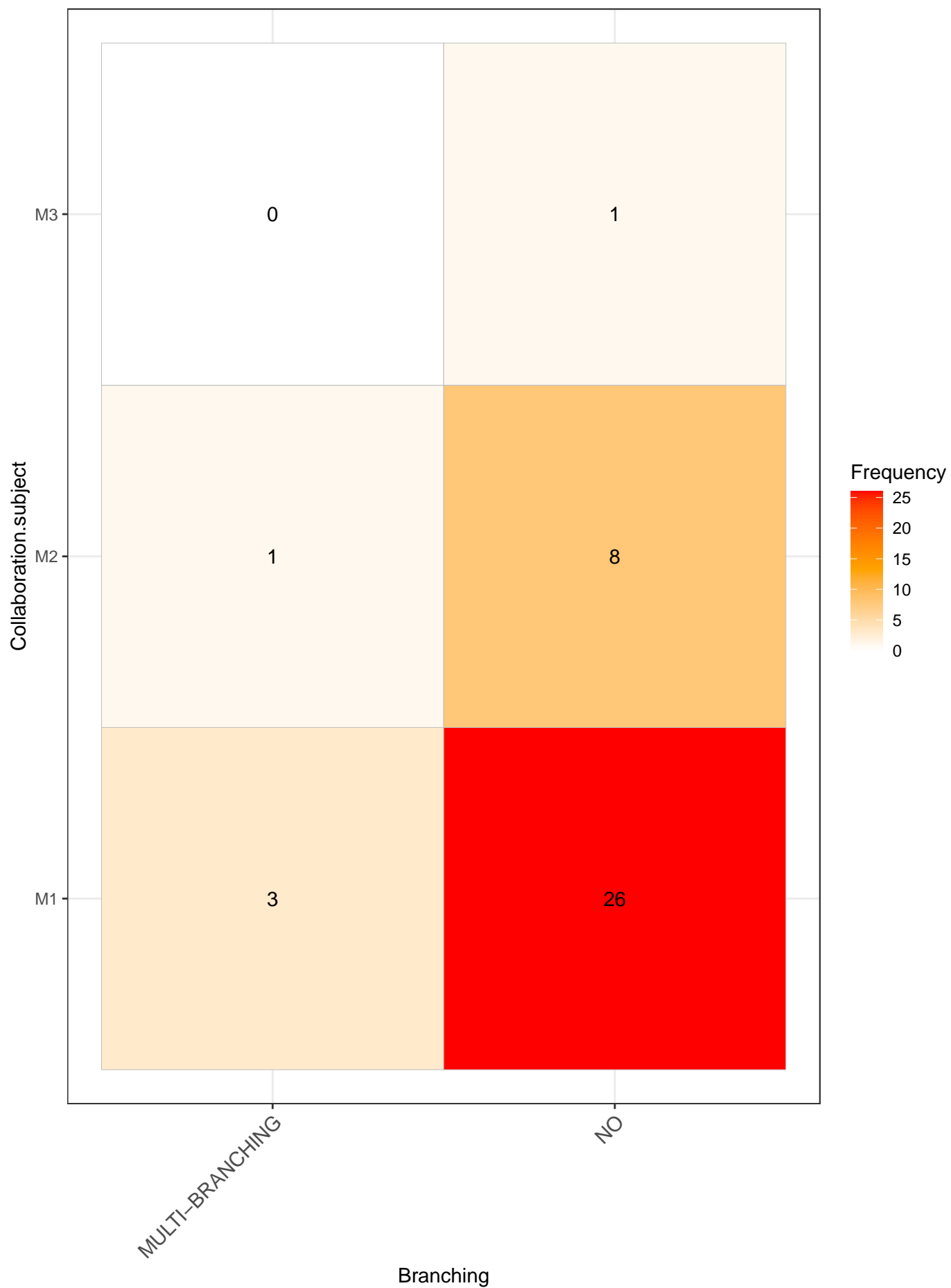
Collaboration.subject____VCS.architecture



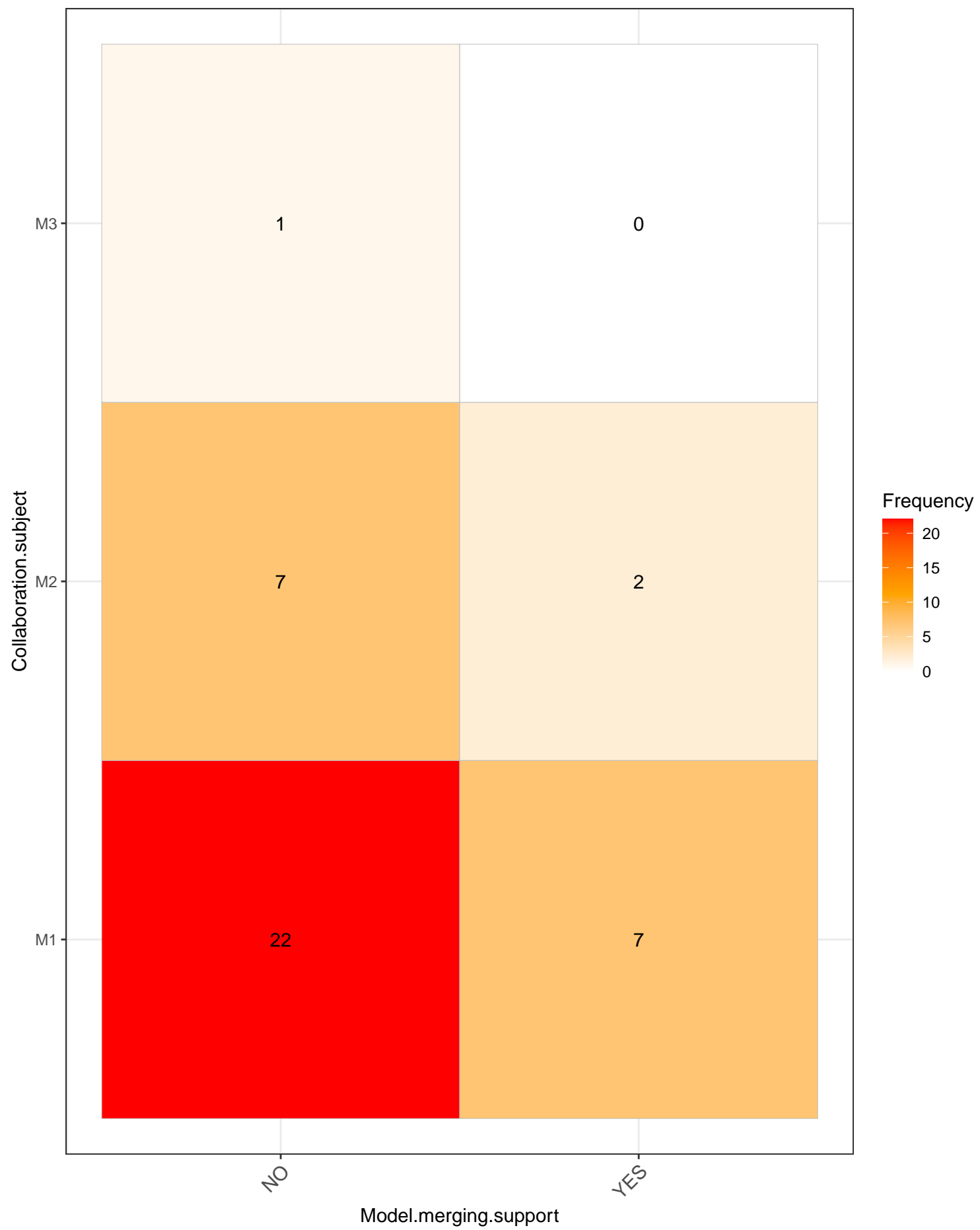
Collaboration.subject_____External.VCS.means



Collaboration.subject_____Branching



Collaboration.subject_____Model.merging.support



Collaboration.subject_____Diff.merge.domain

Collaboration.subject

M3

M2

M1

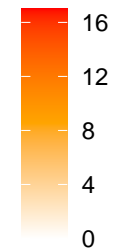
N/A

SEMANTIC

SYNTACTIC

Diff.merge.domain

Frequency



0

0

1

0

1

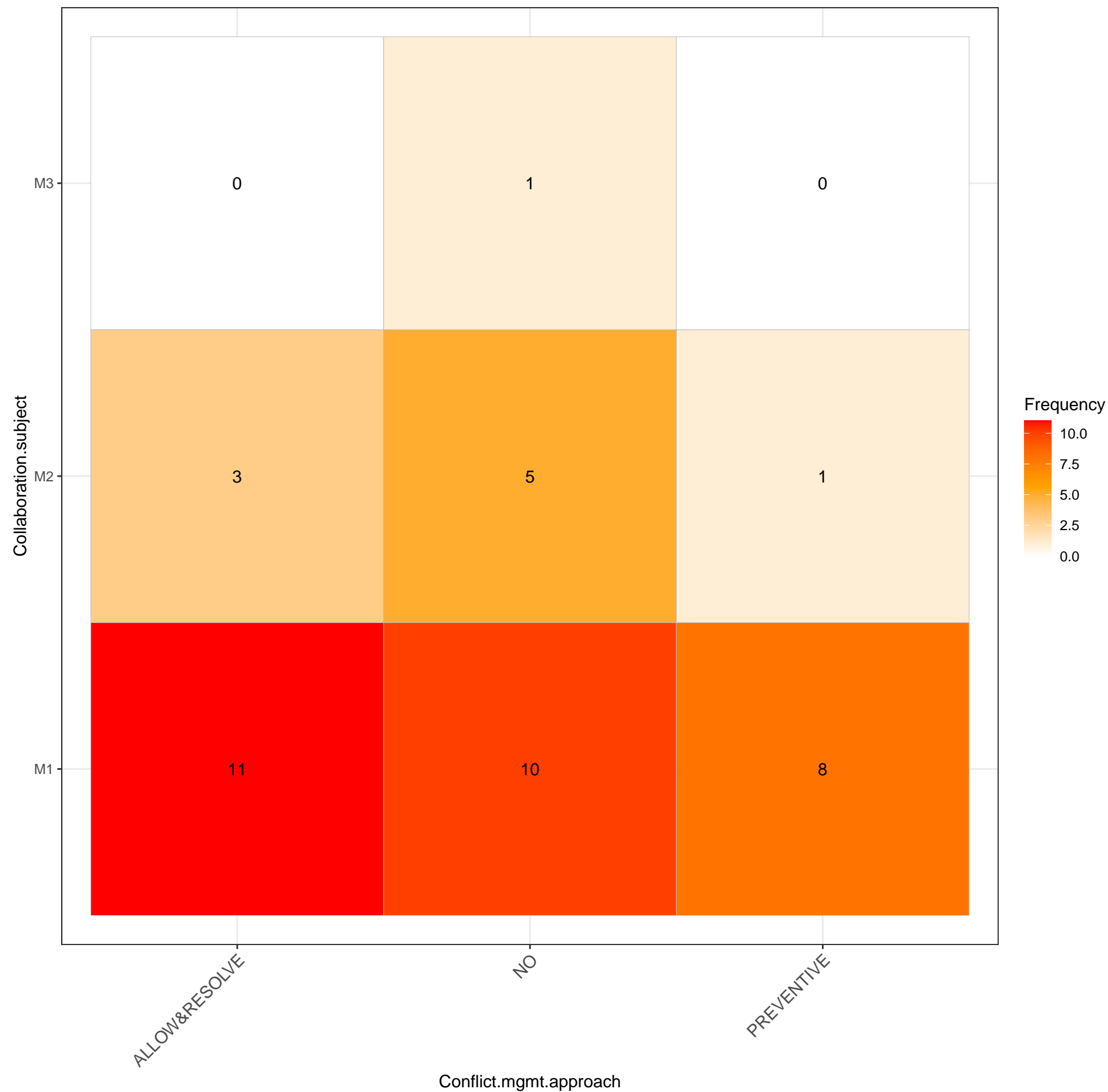
8

7

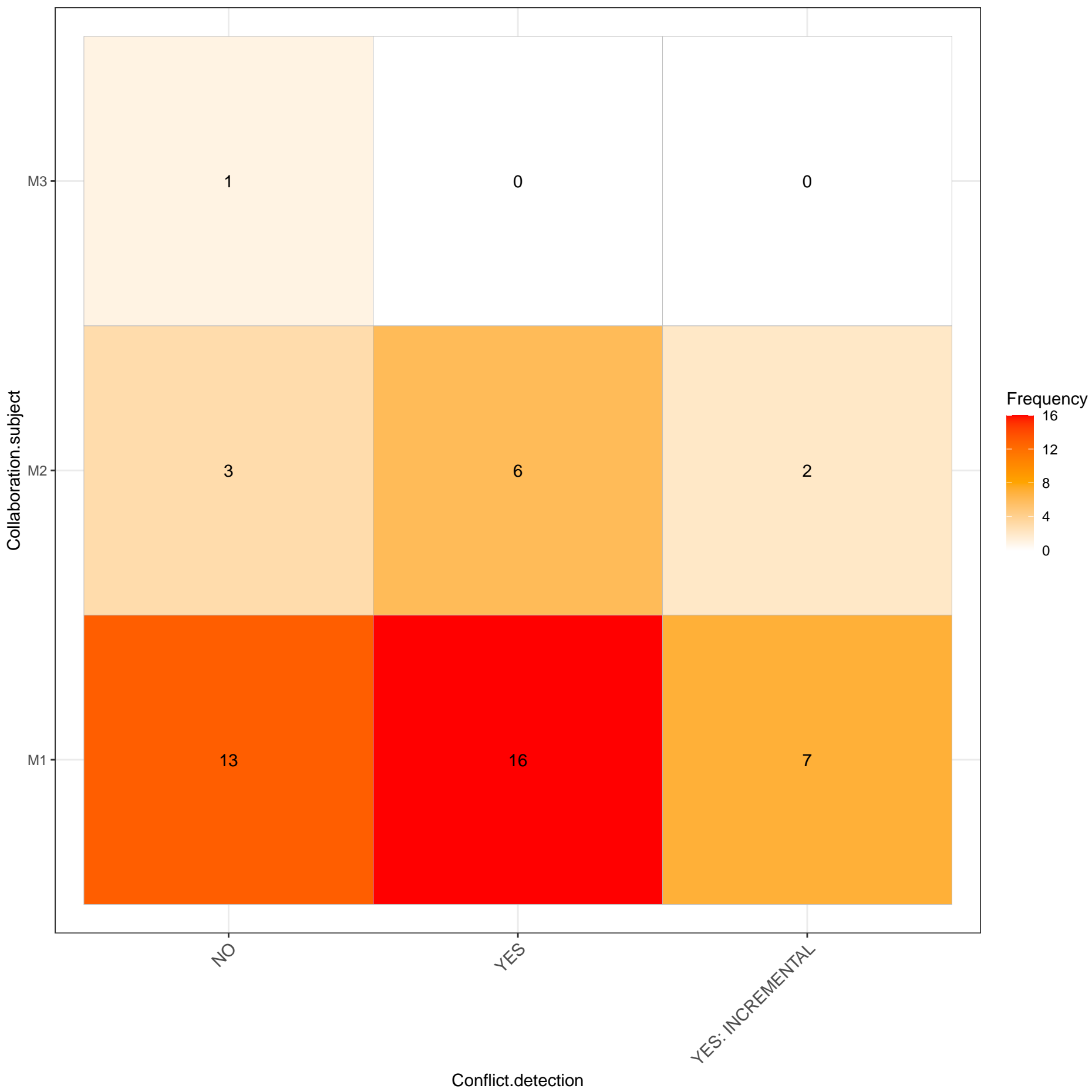
5

17

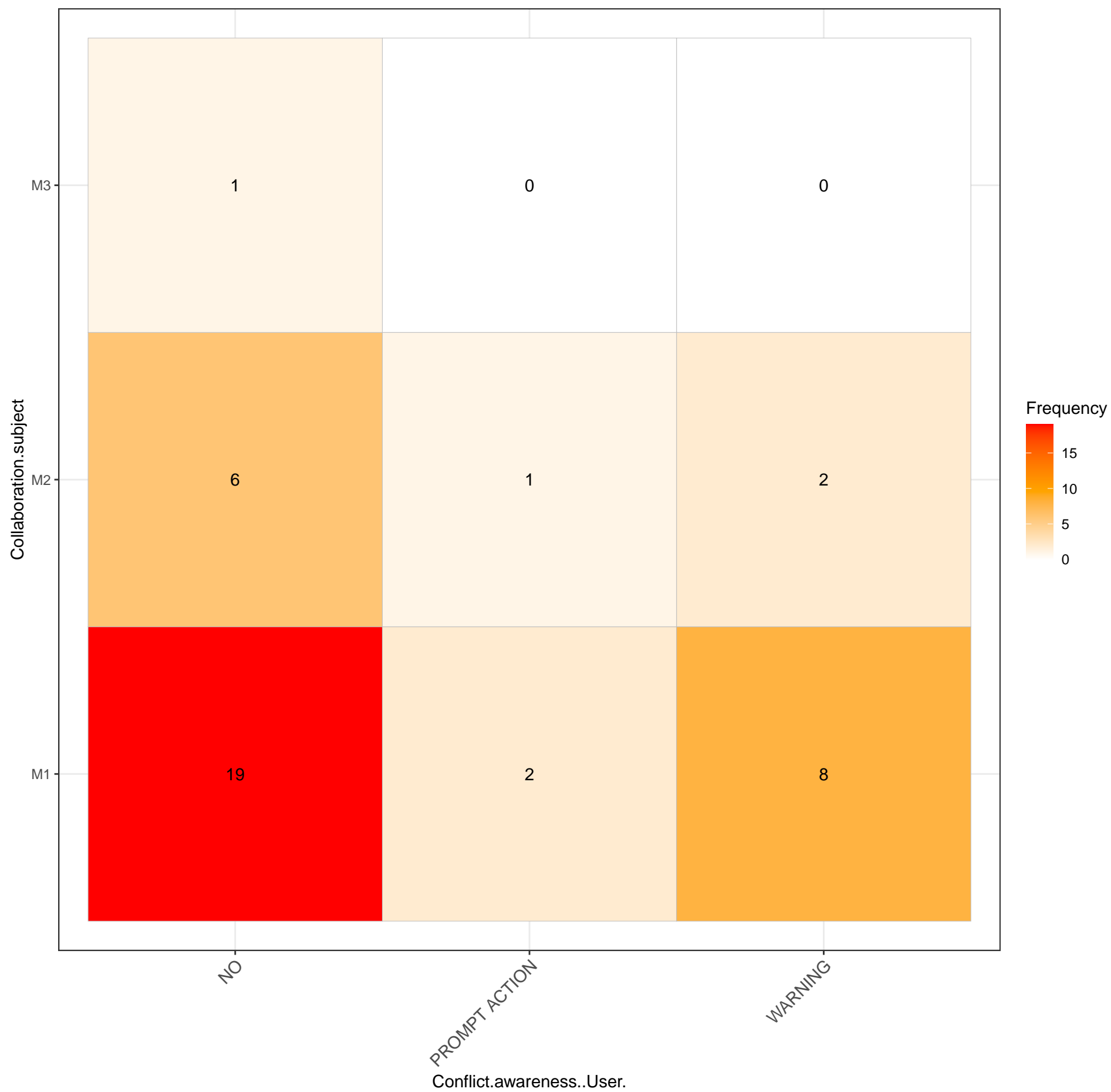
Collaboration.subject_____Conflict.mgmt.approach



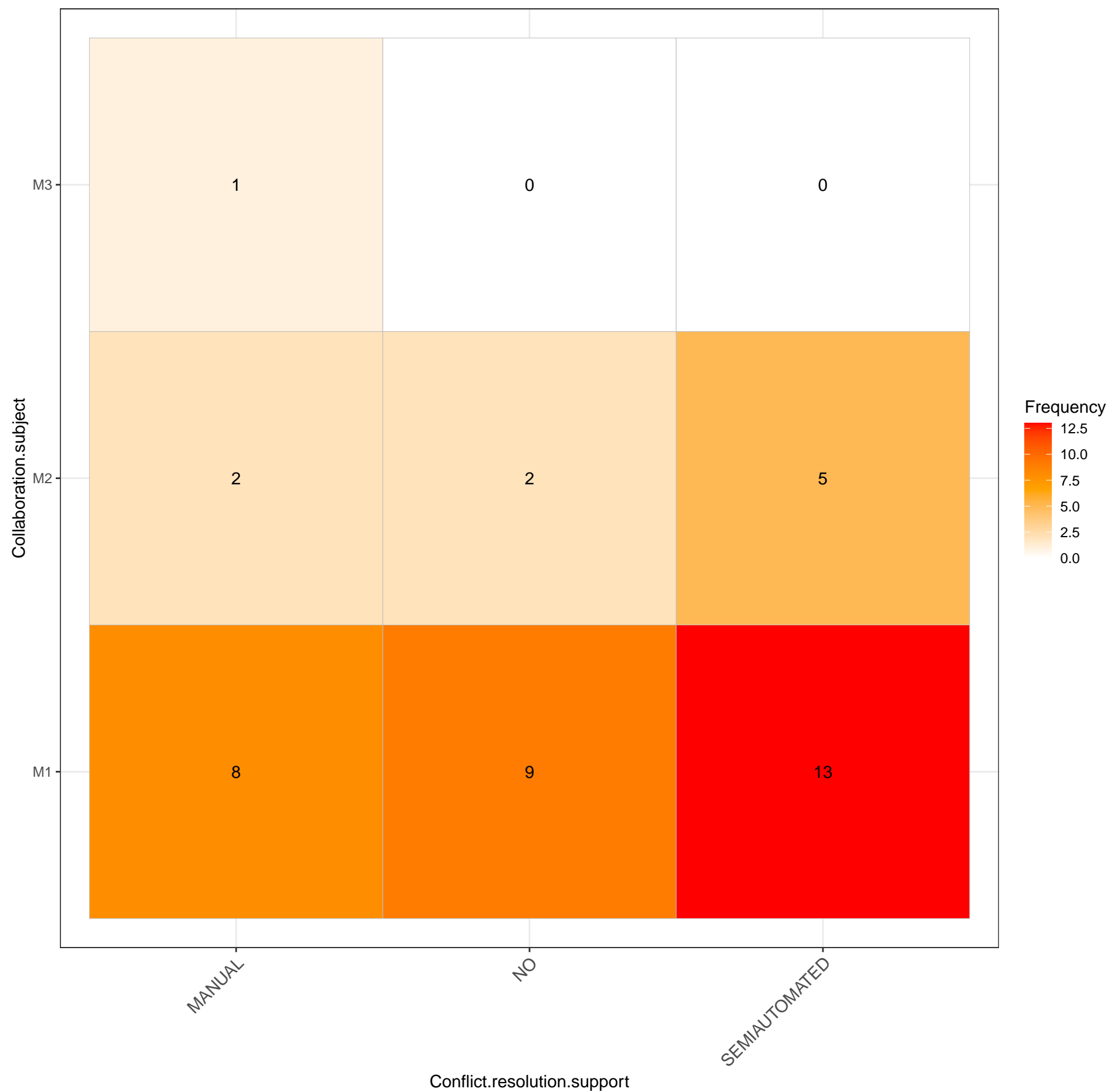
Collaboration.subject_____Conflict.detection

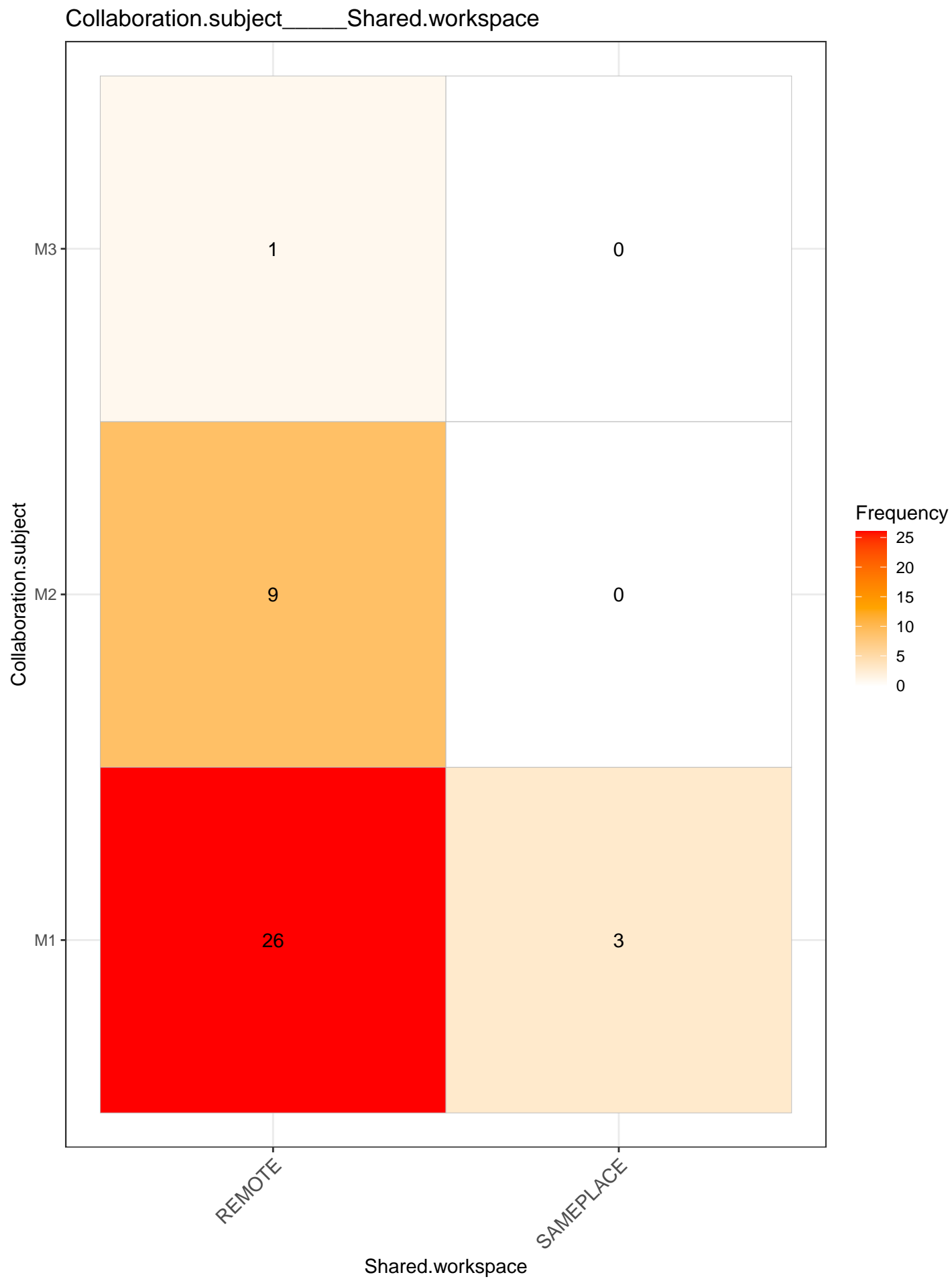


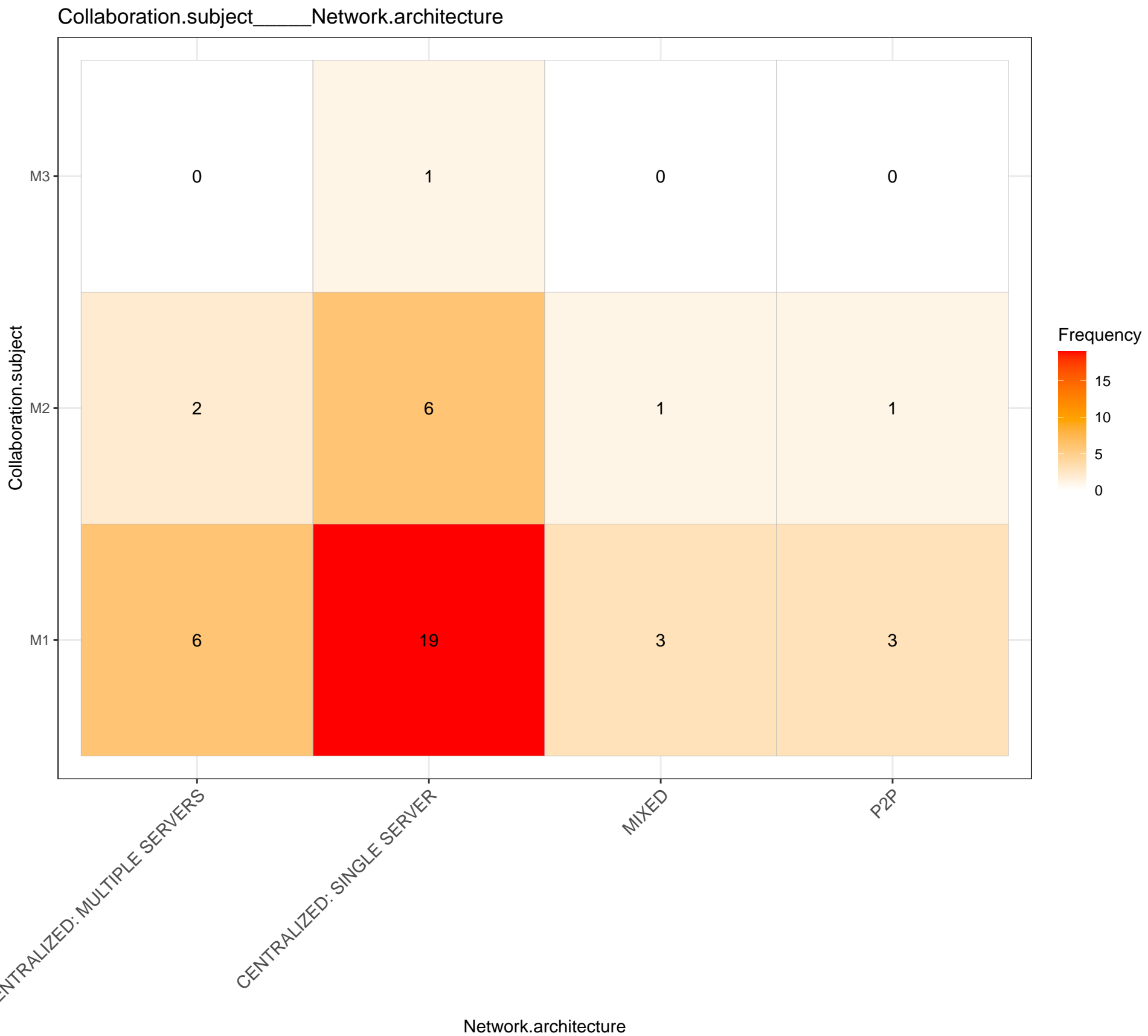
Collaboration.subject_____Conflict.awareness..User.

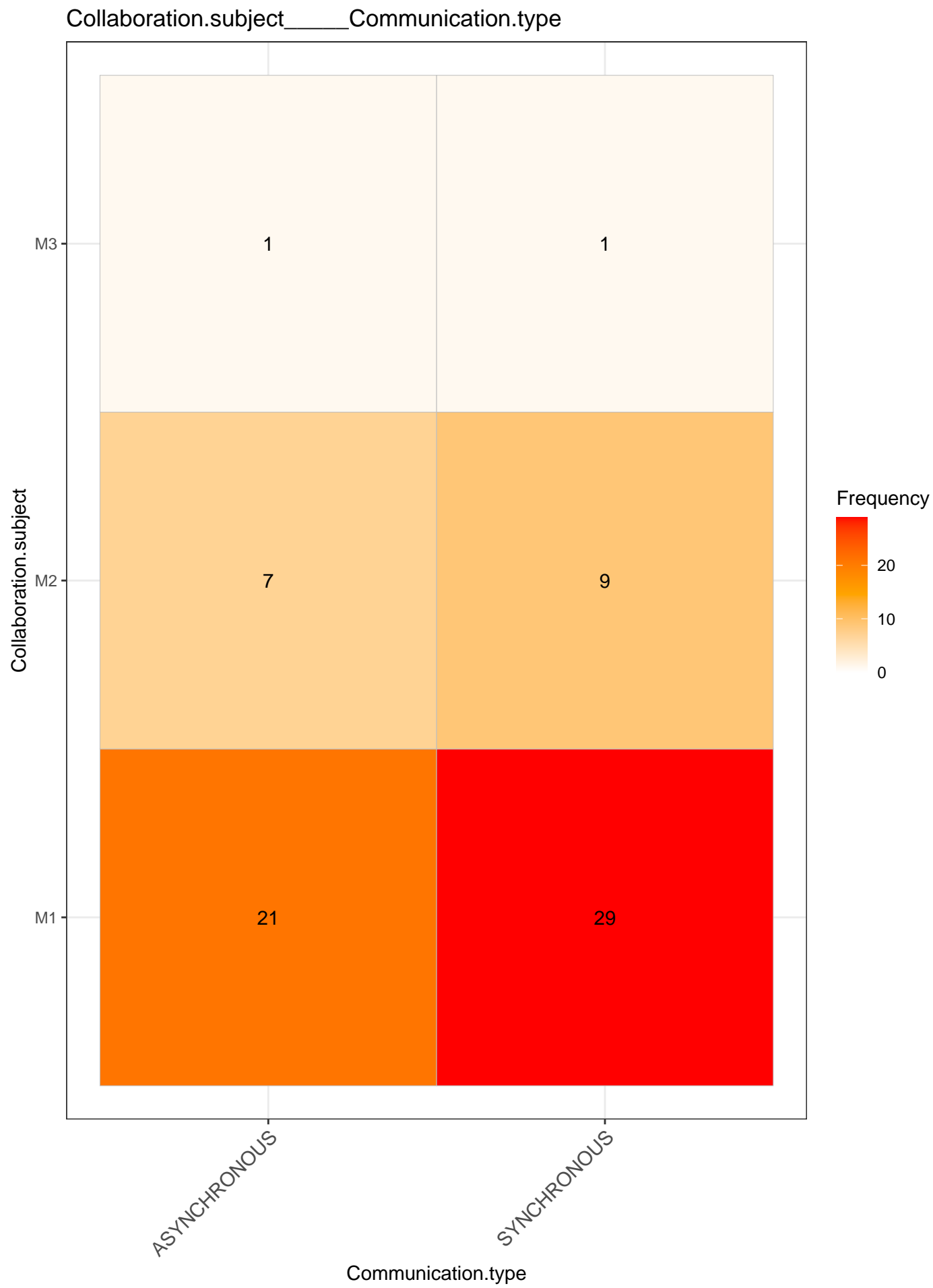


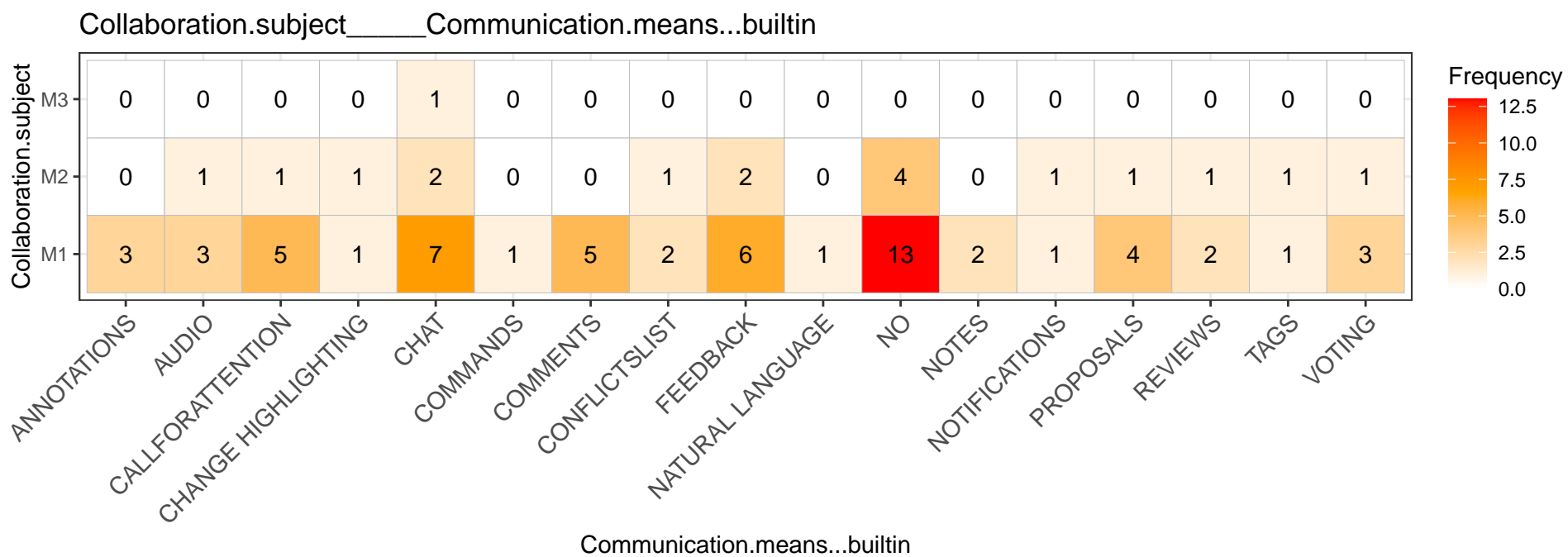
Collaboration.subject_____Conflict.resolution.support

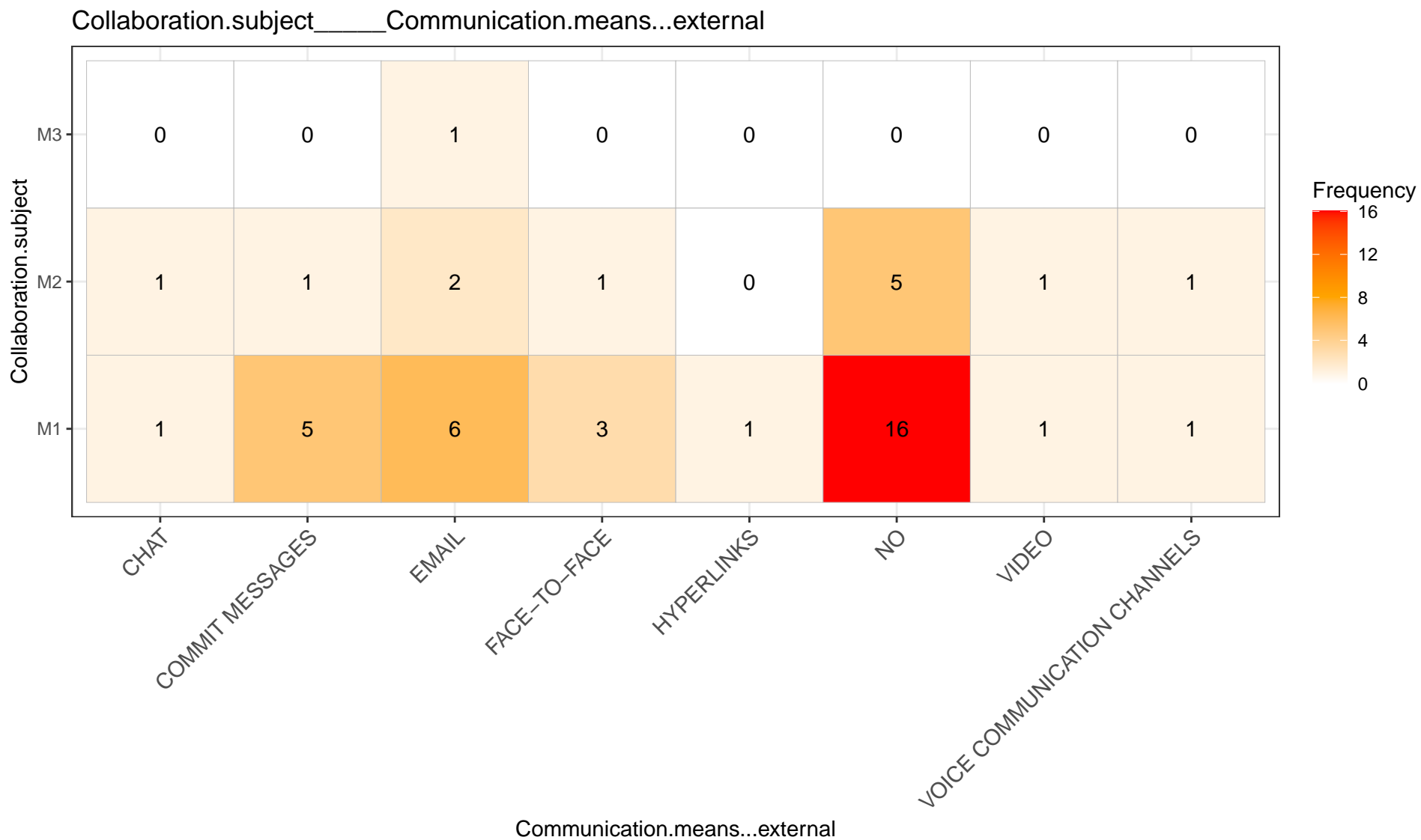




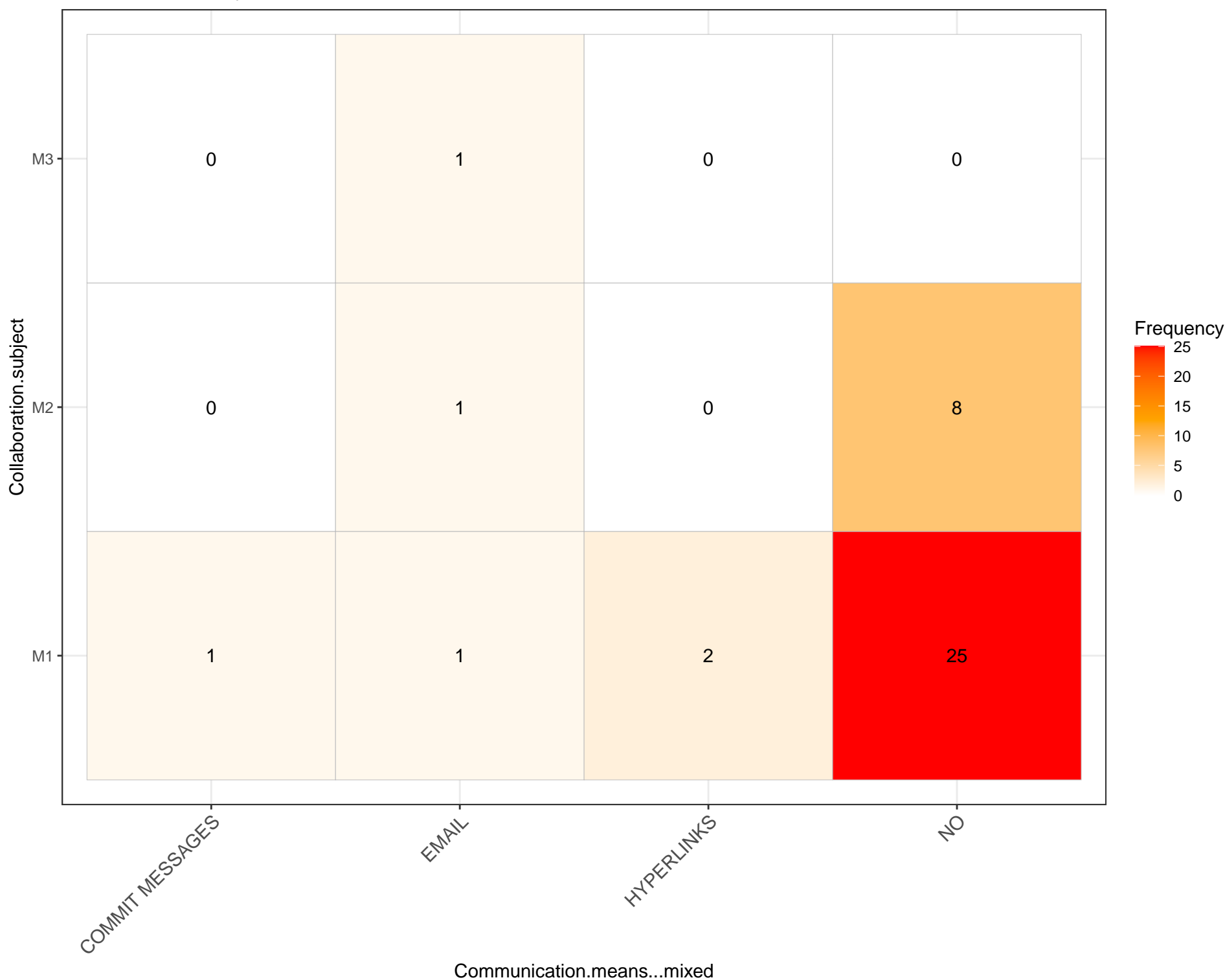


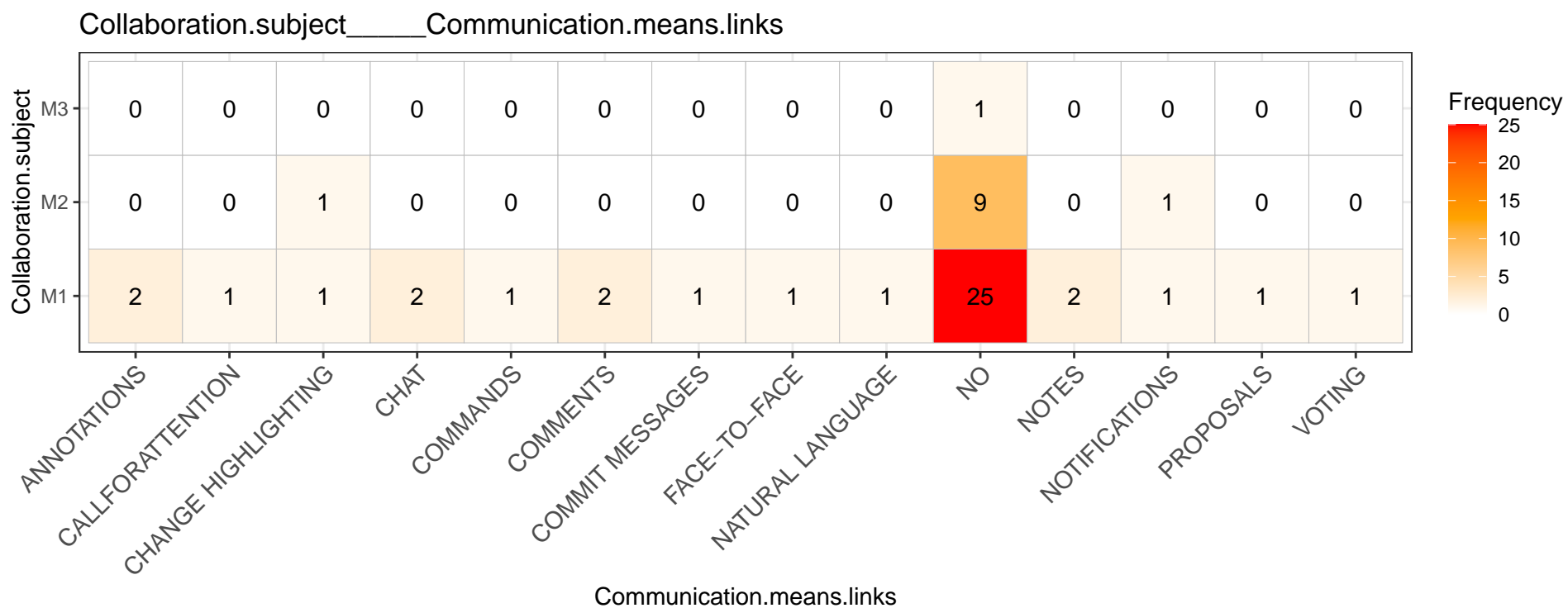


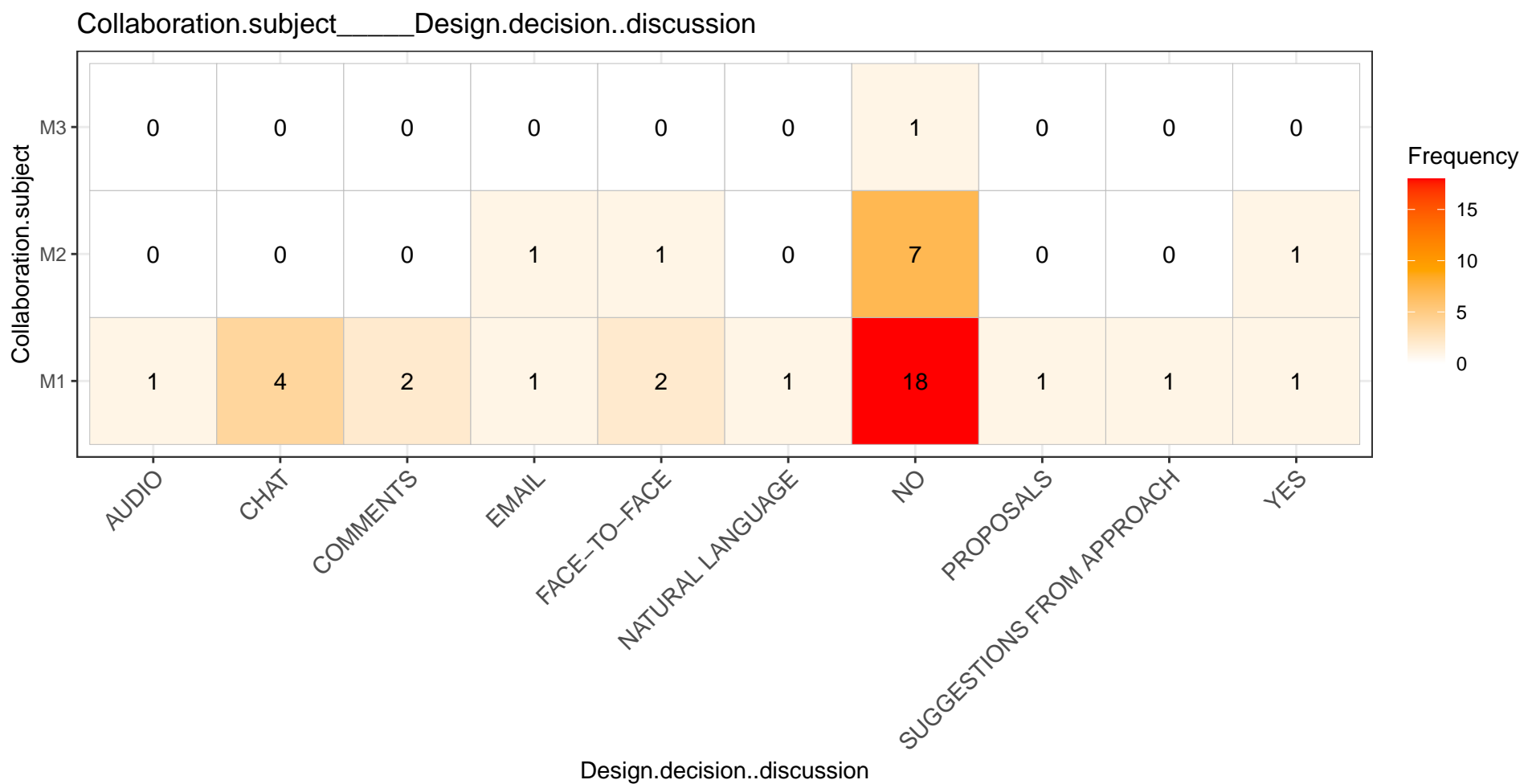


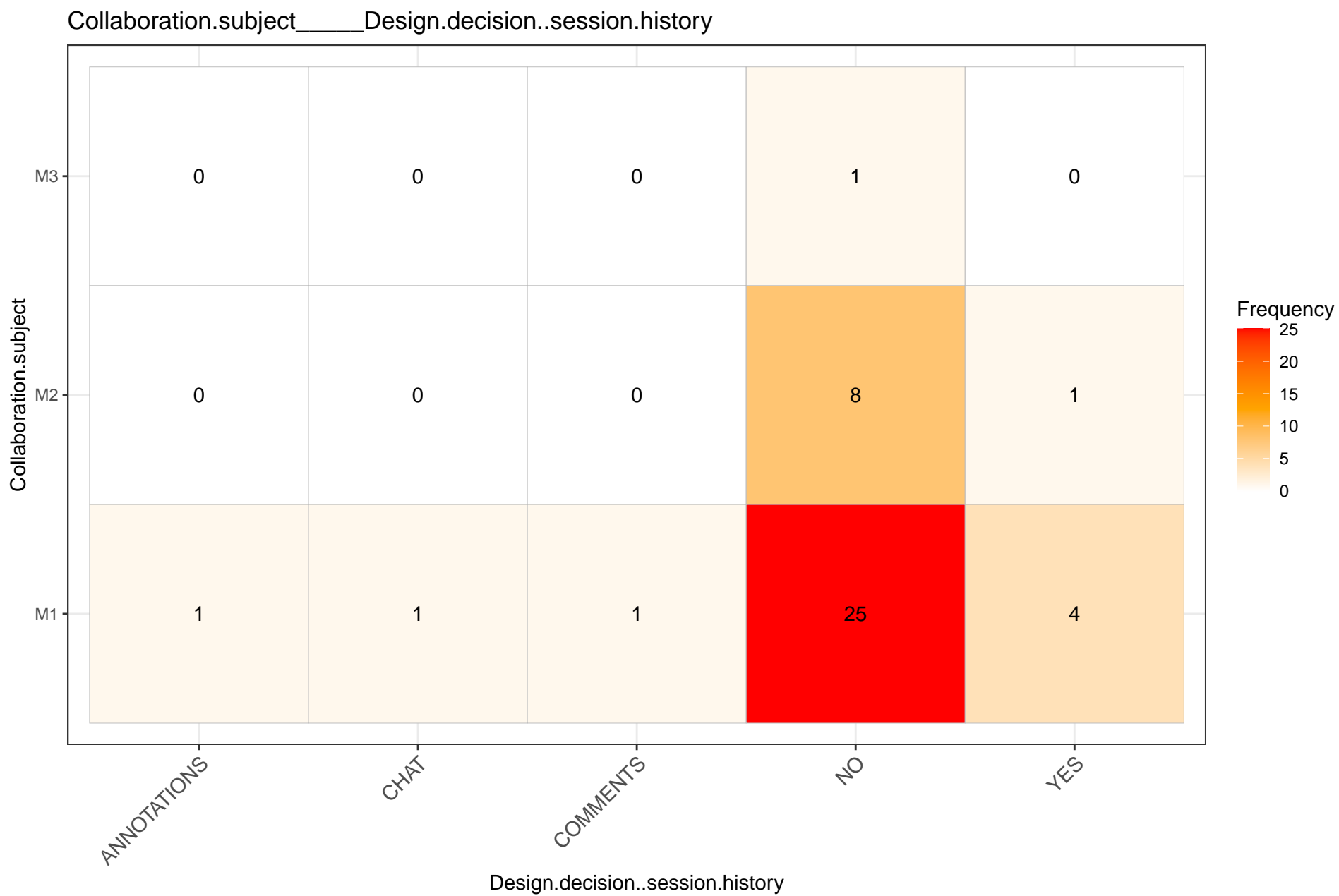


Collaboration.subject_____Communication.means...mixed

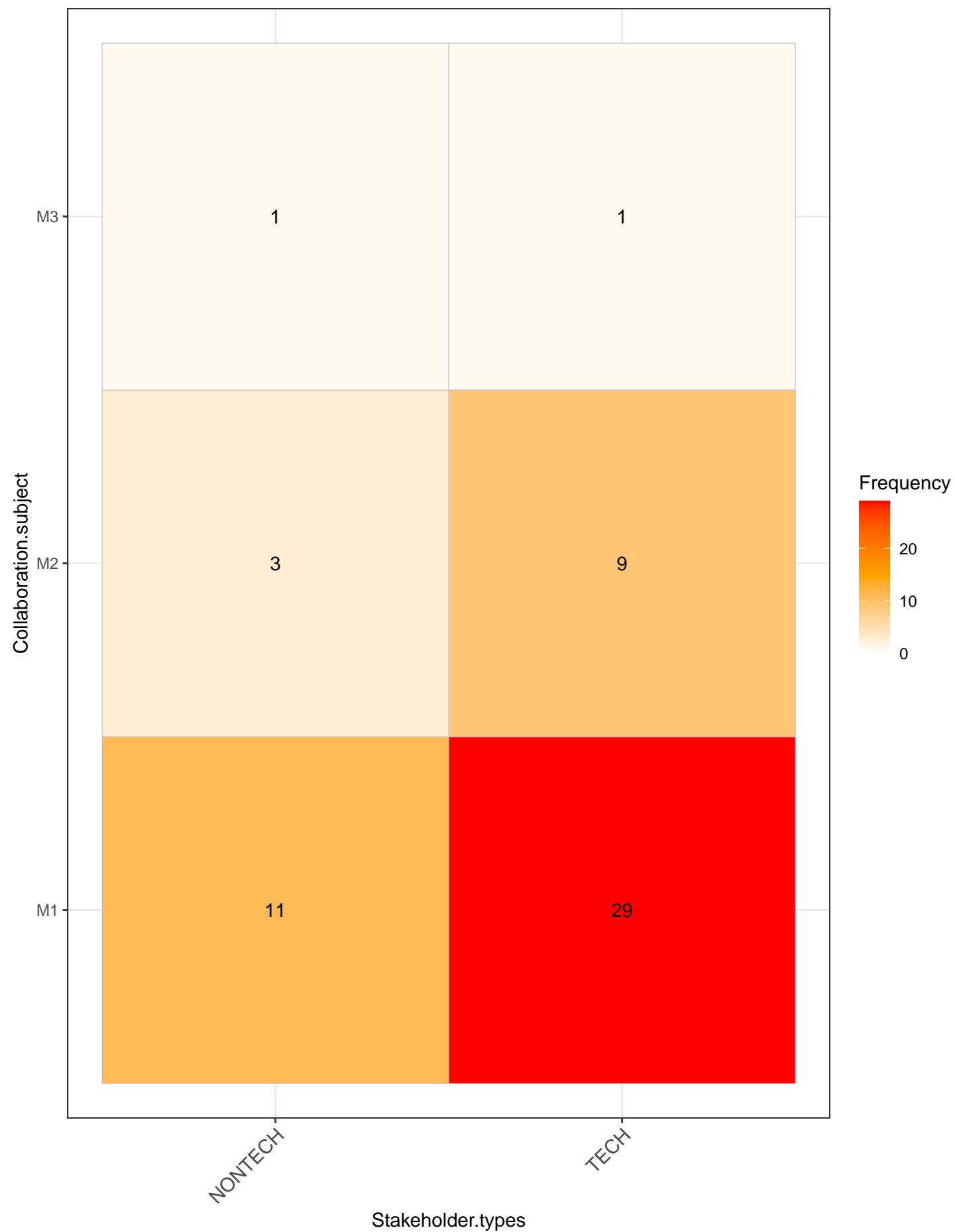


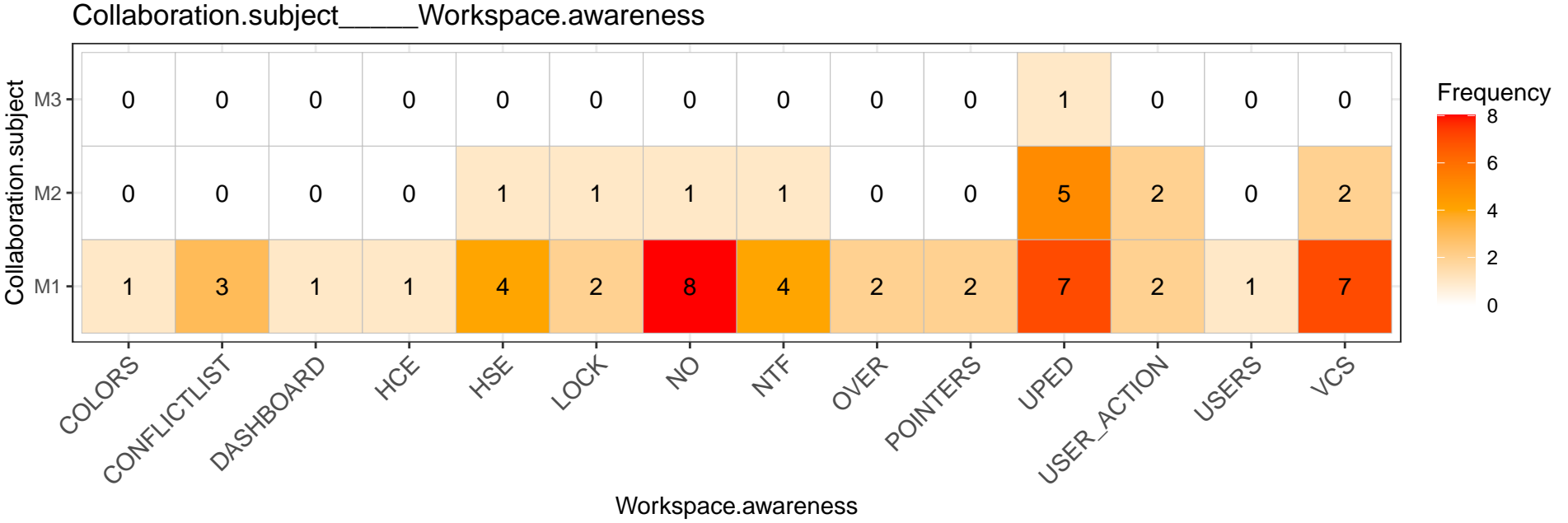




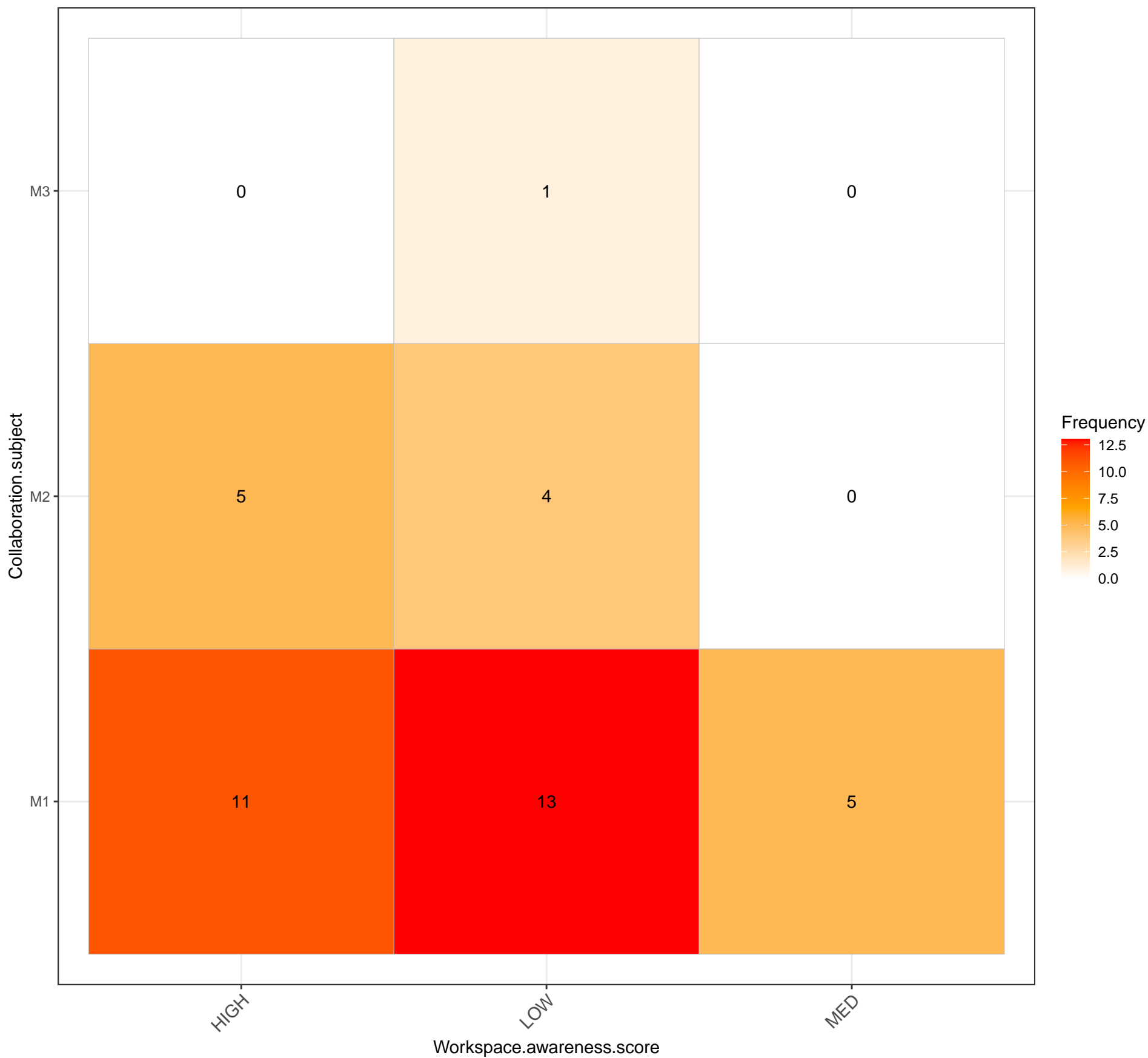


Collaboration.subject_____Stakeholder.types

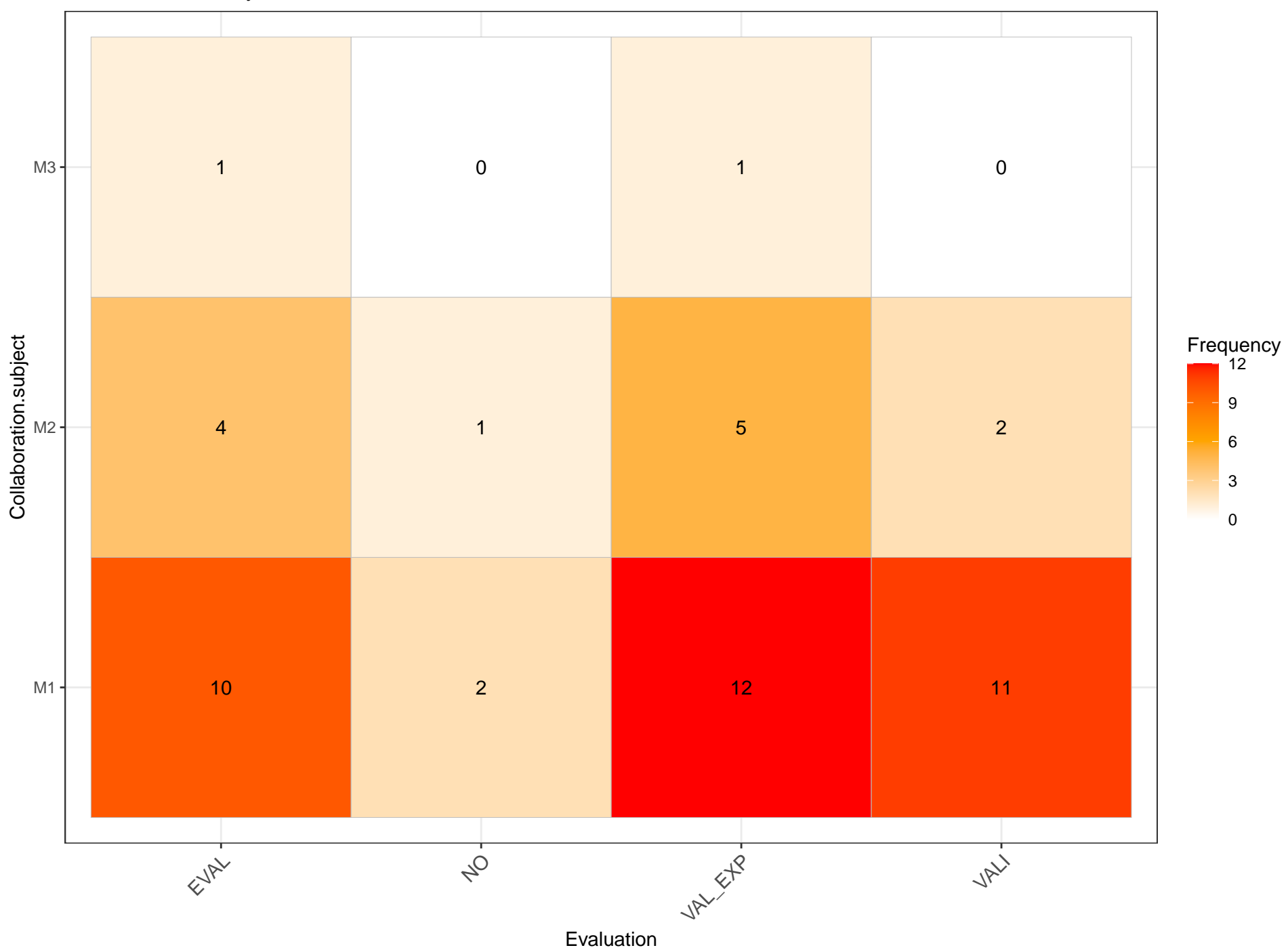




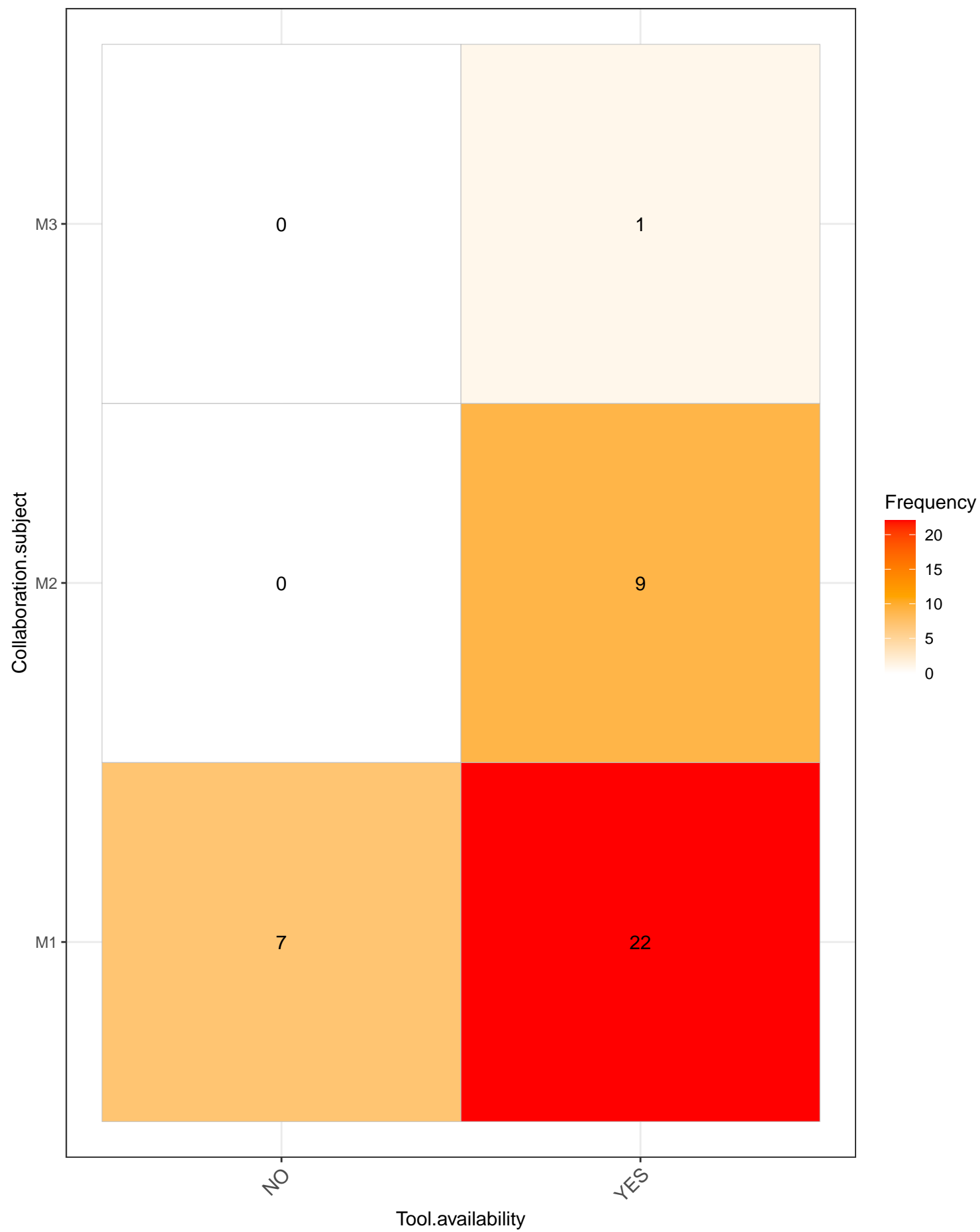
Collaboration.subject_____Workspace.awareness.score

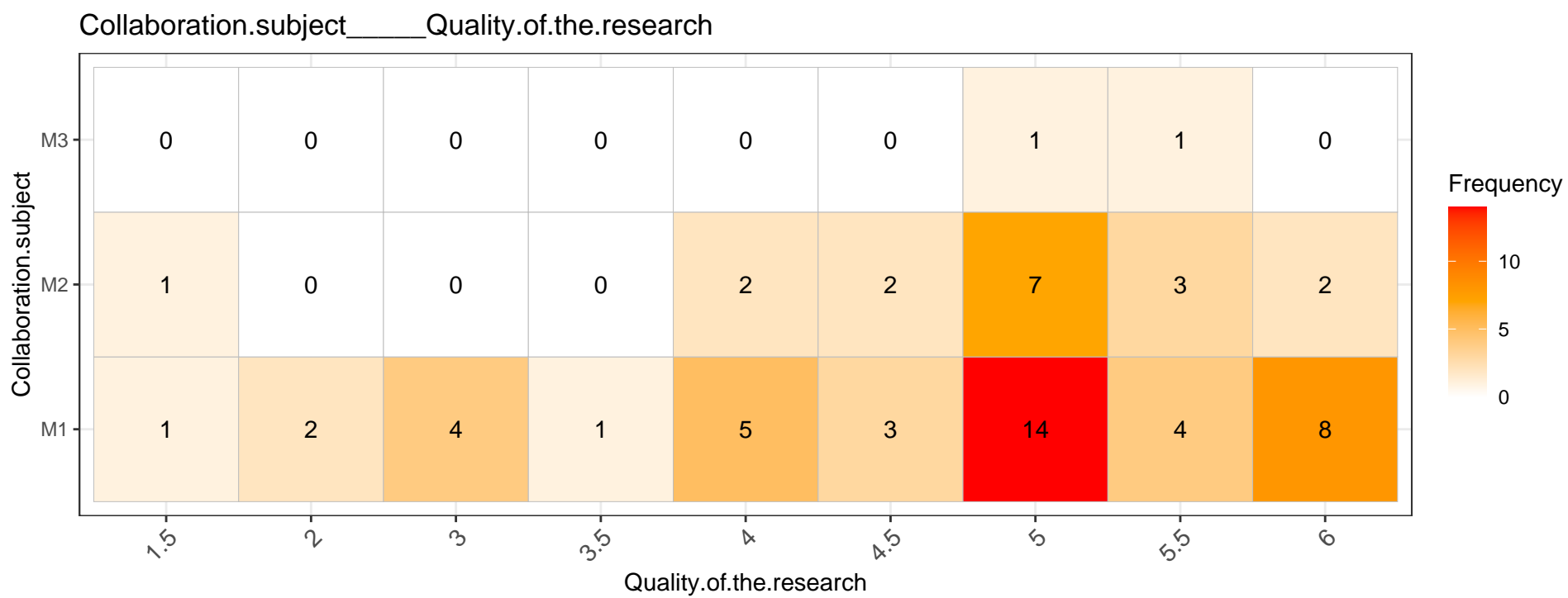


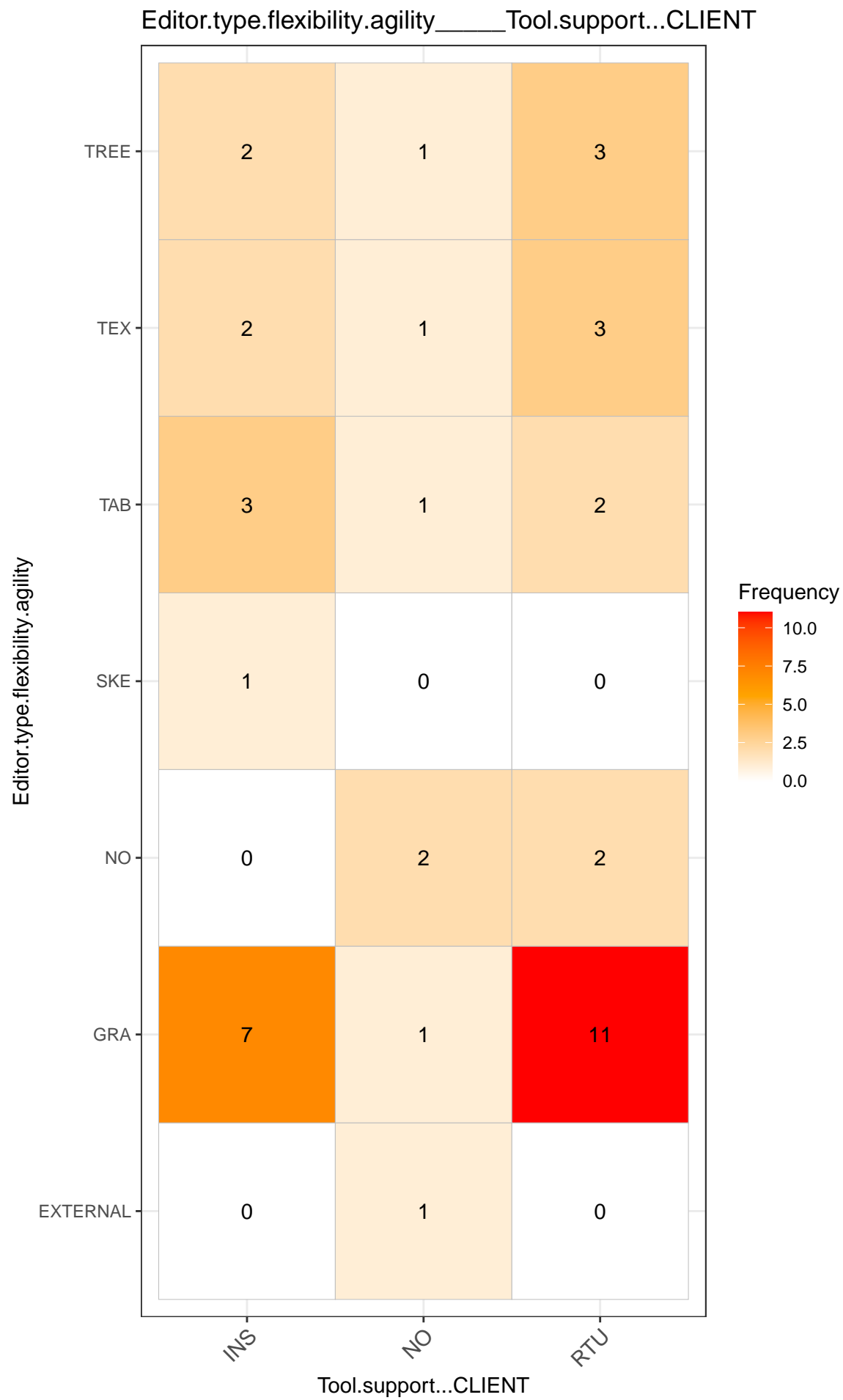
Collaboration.subject____Evaluation

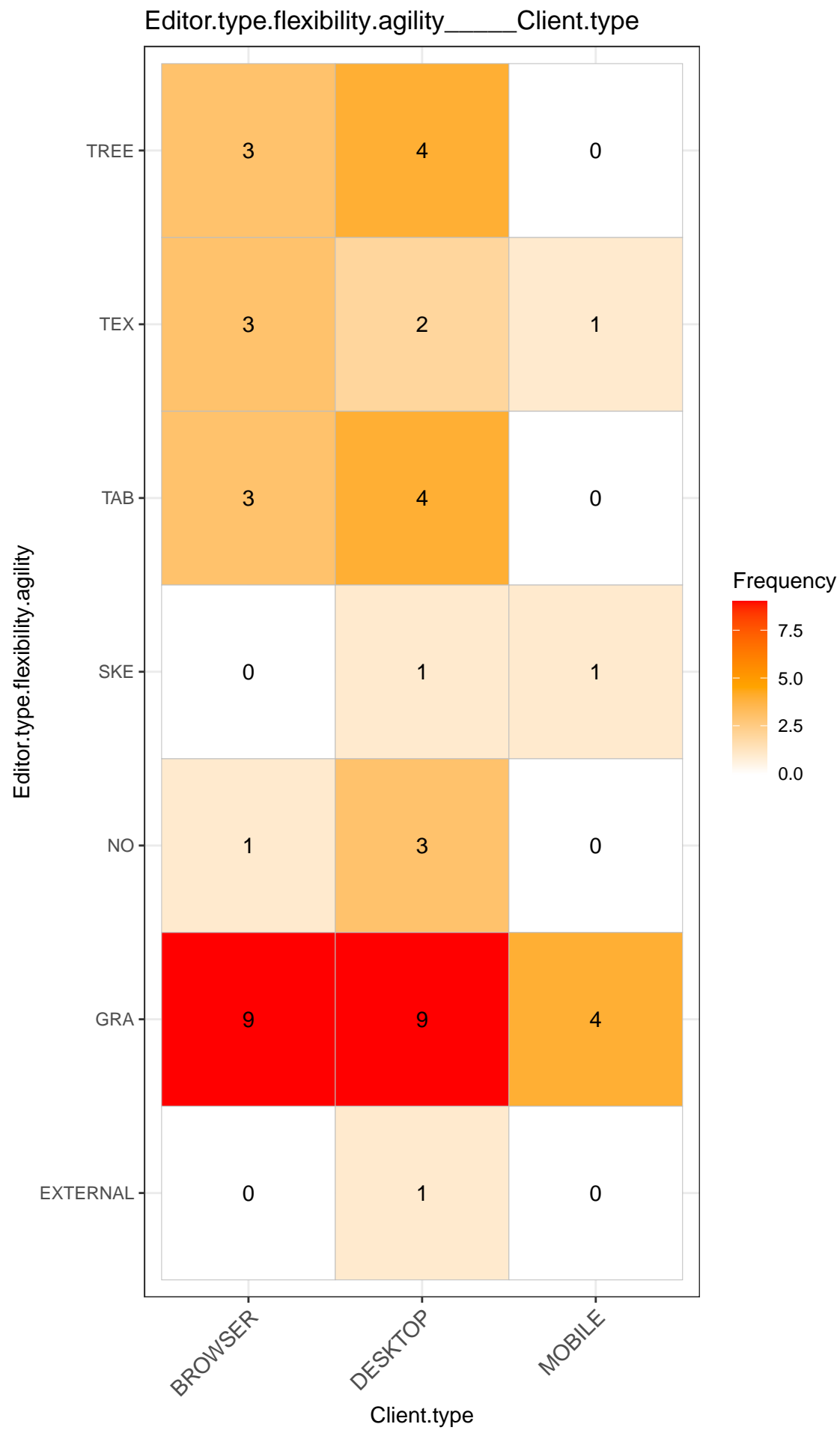


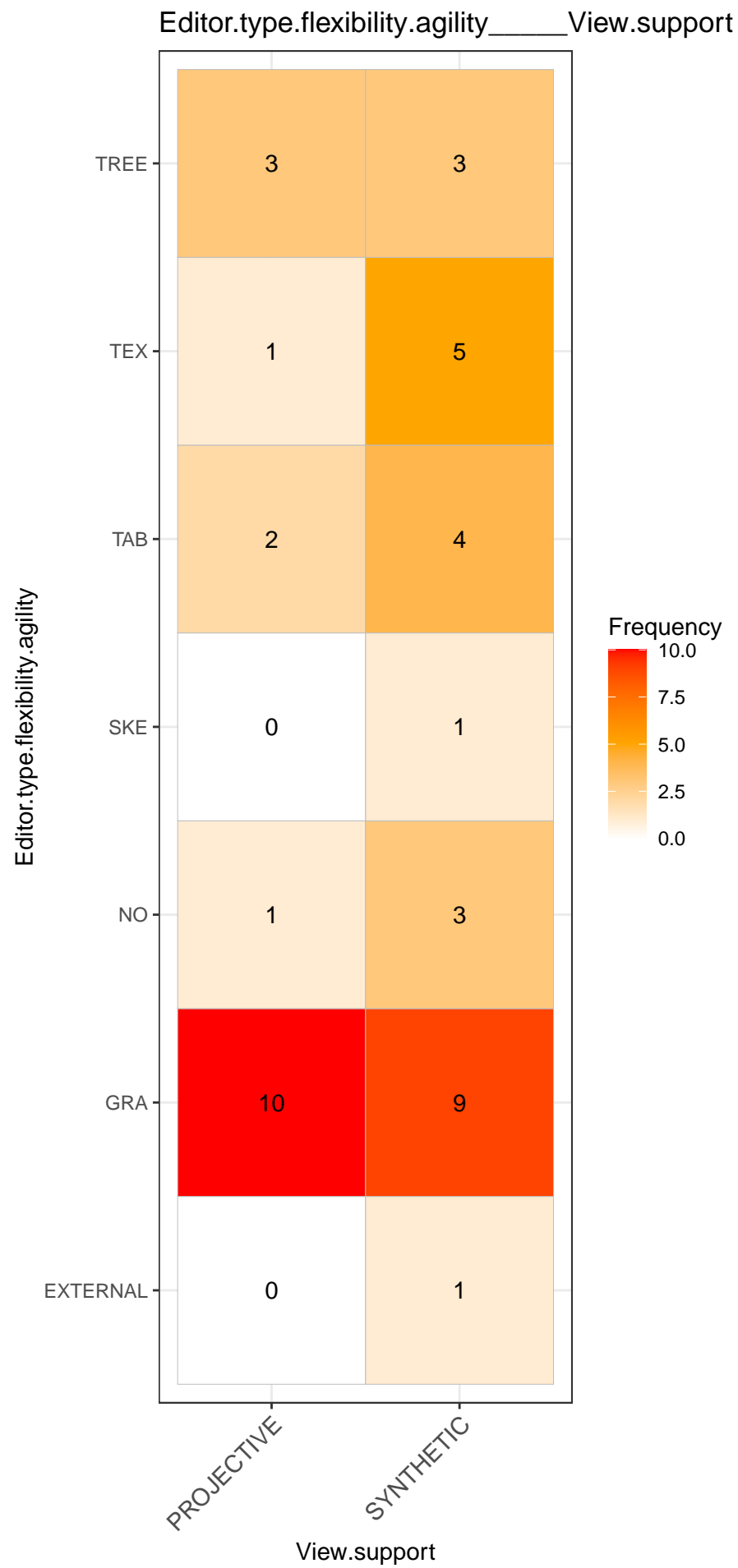
Collaboration.subject_____Tool.availability



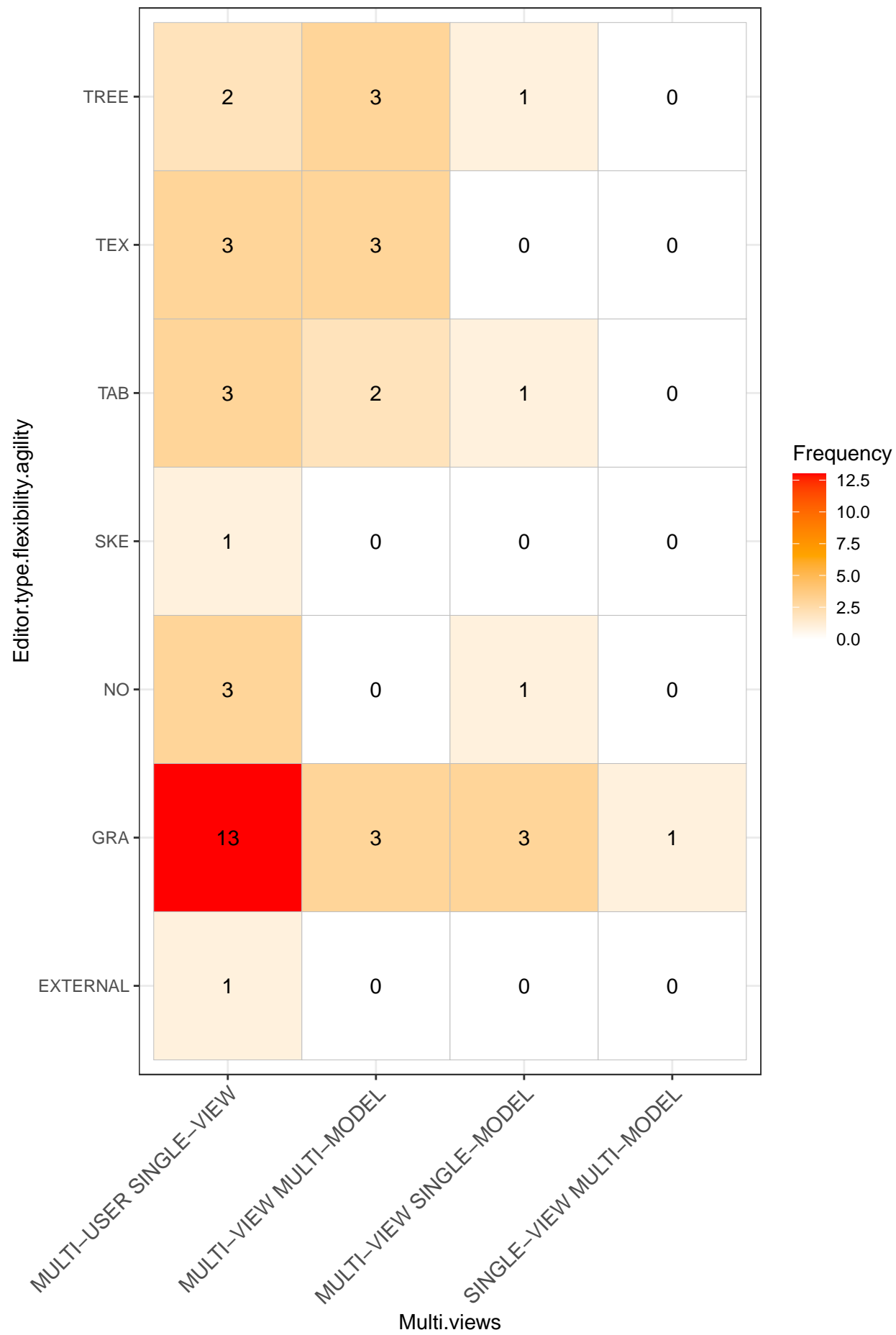




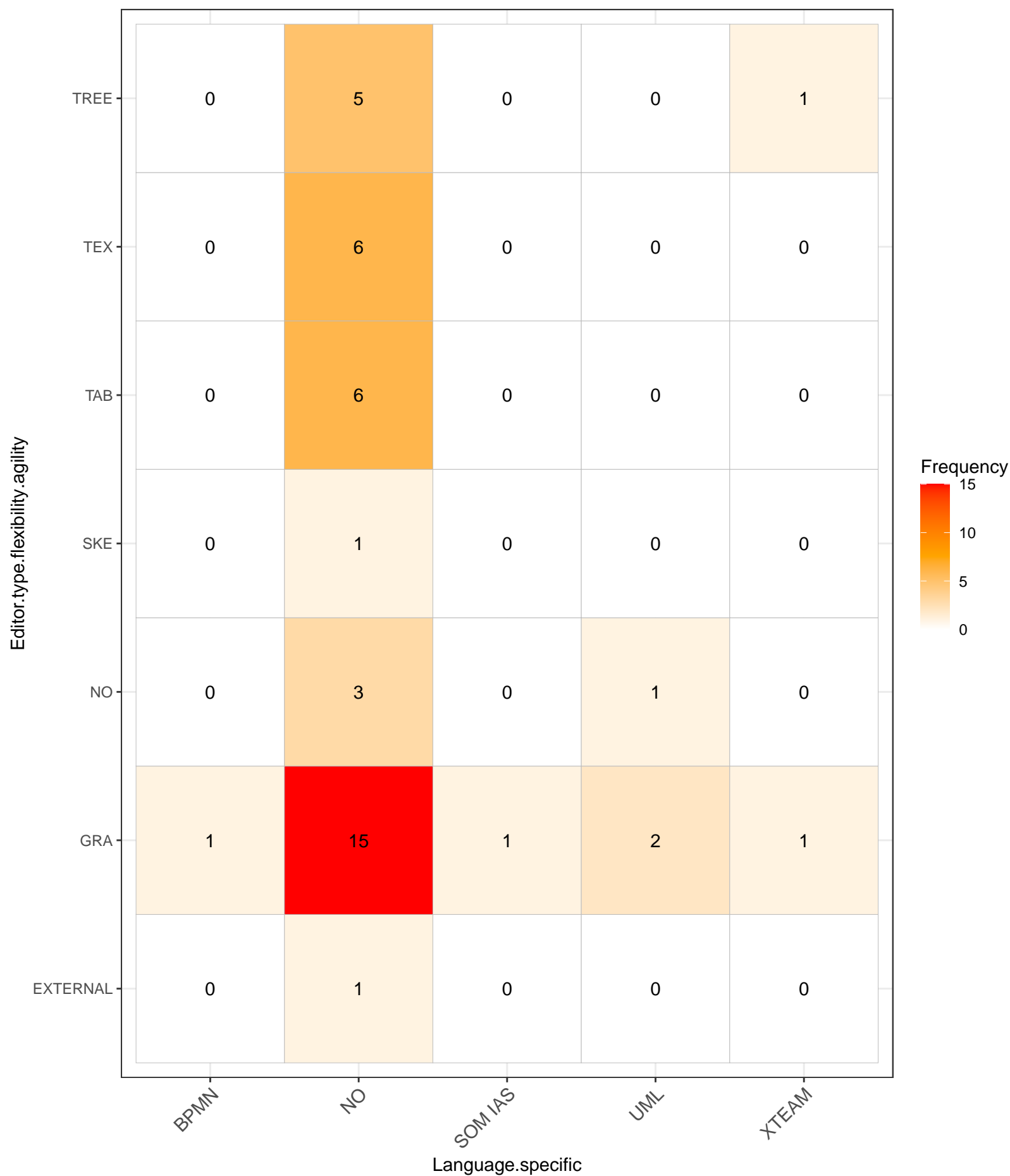


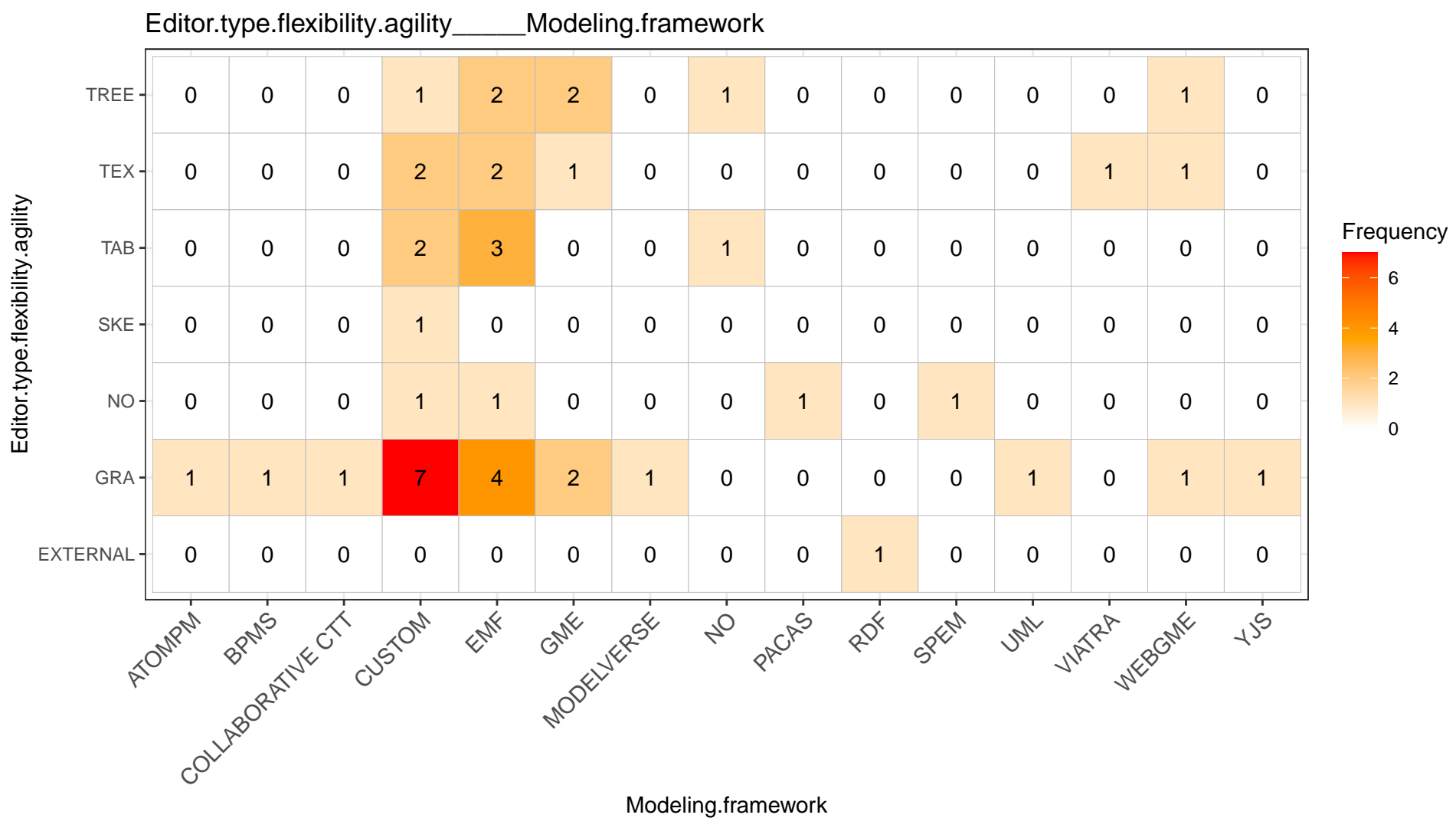


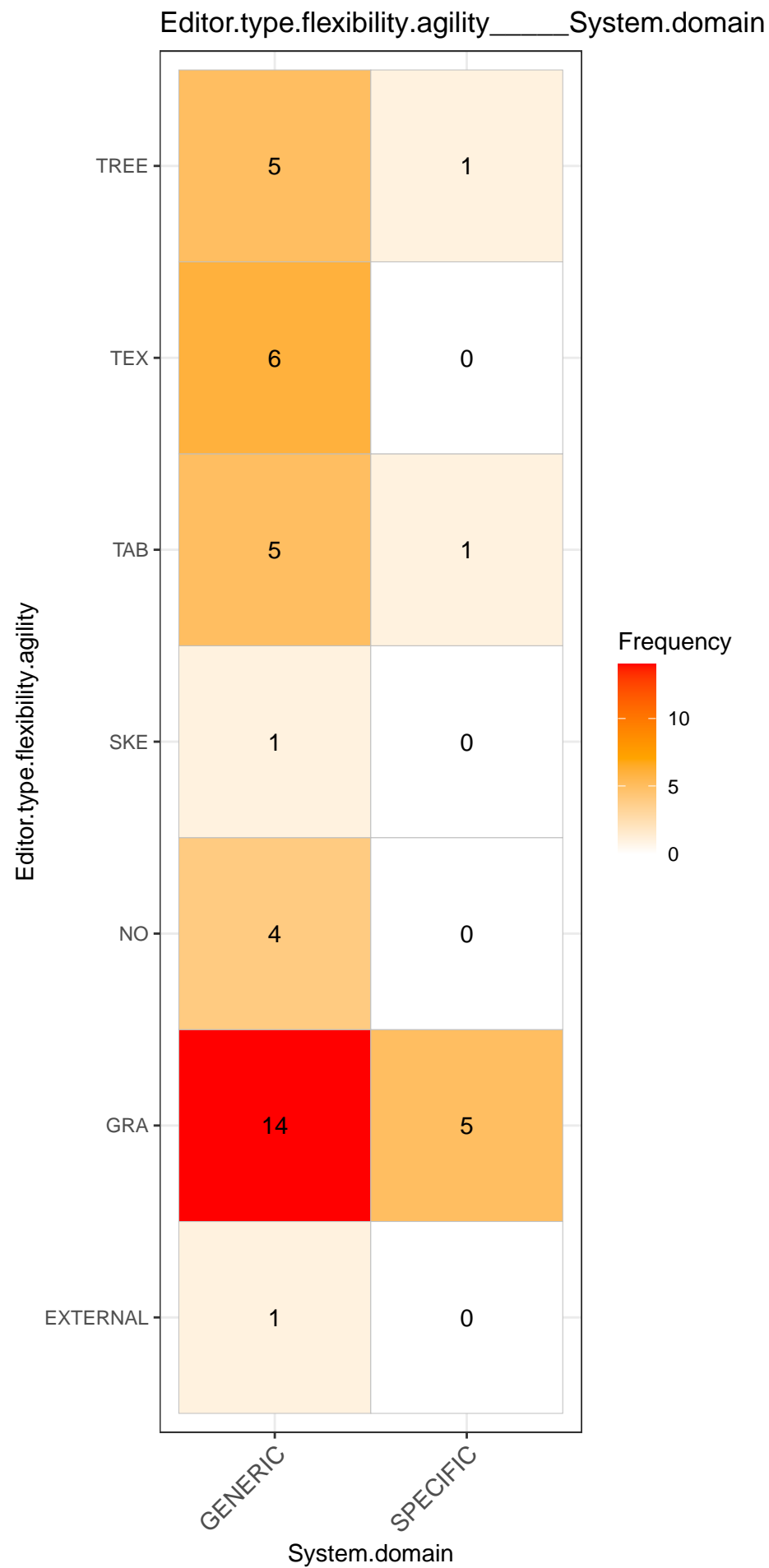
Editor.type.flexibility.agility_____Multi.views



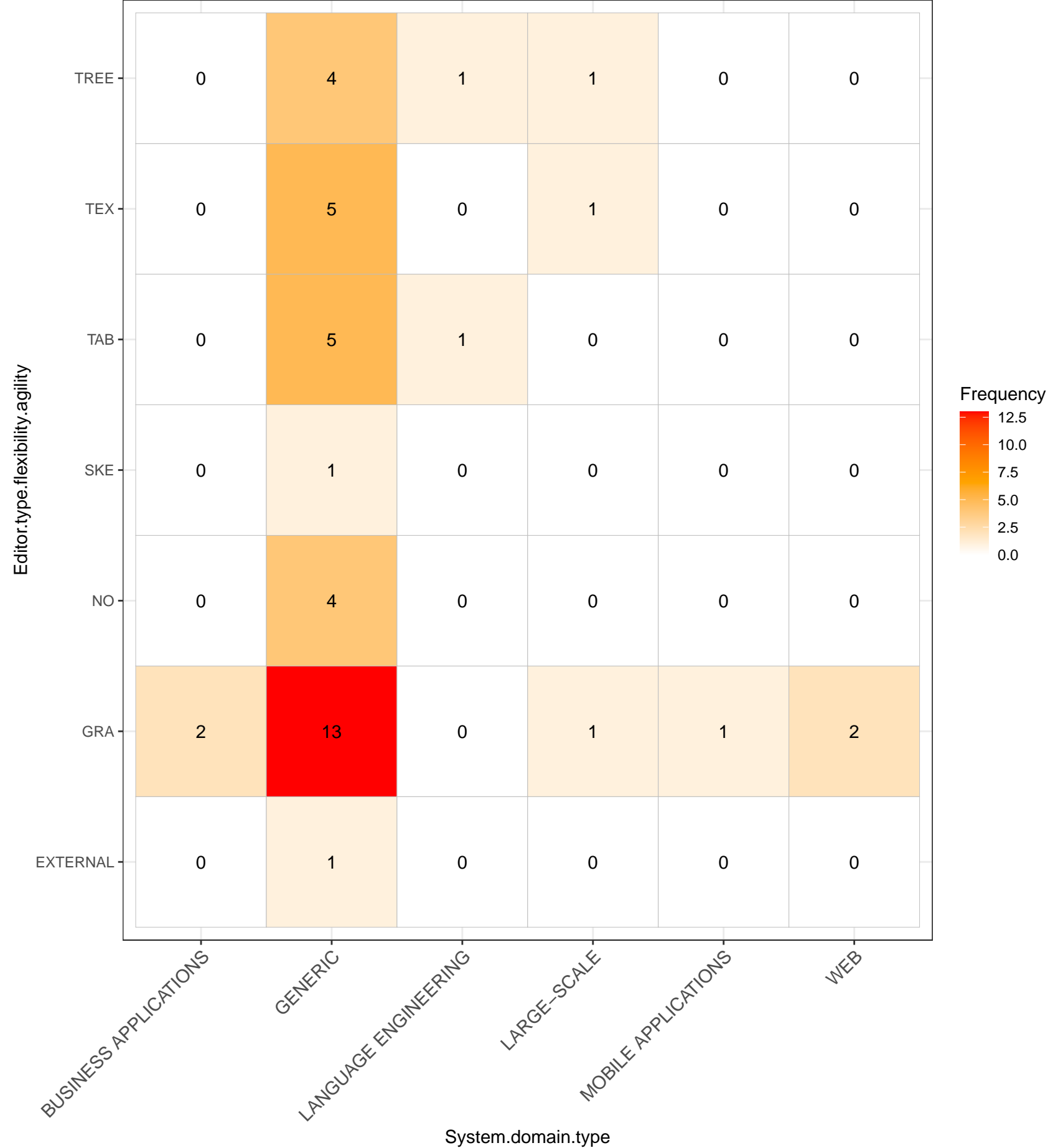
Editor.type.flexibility.agility_____Language.specific



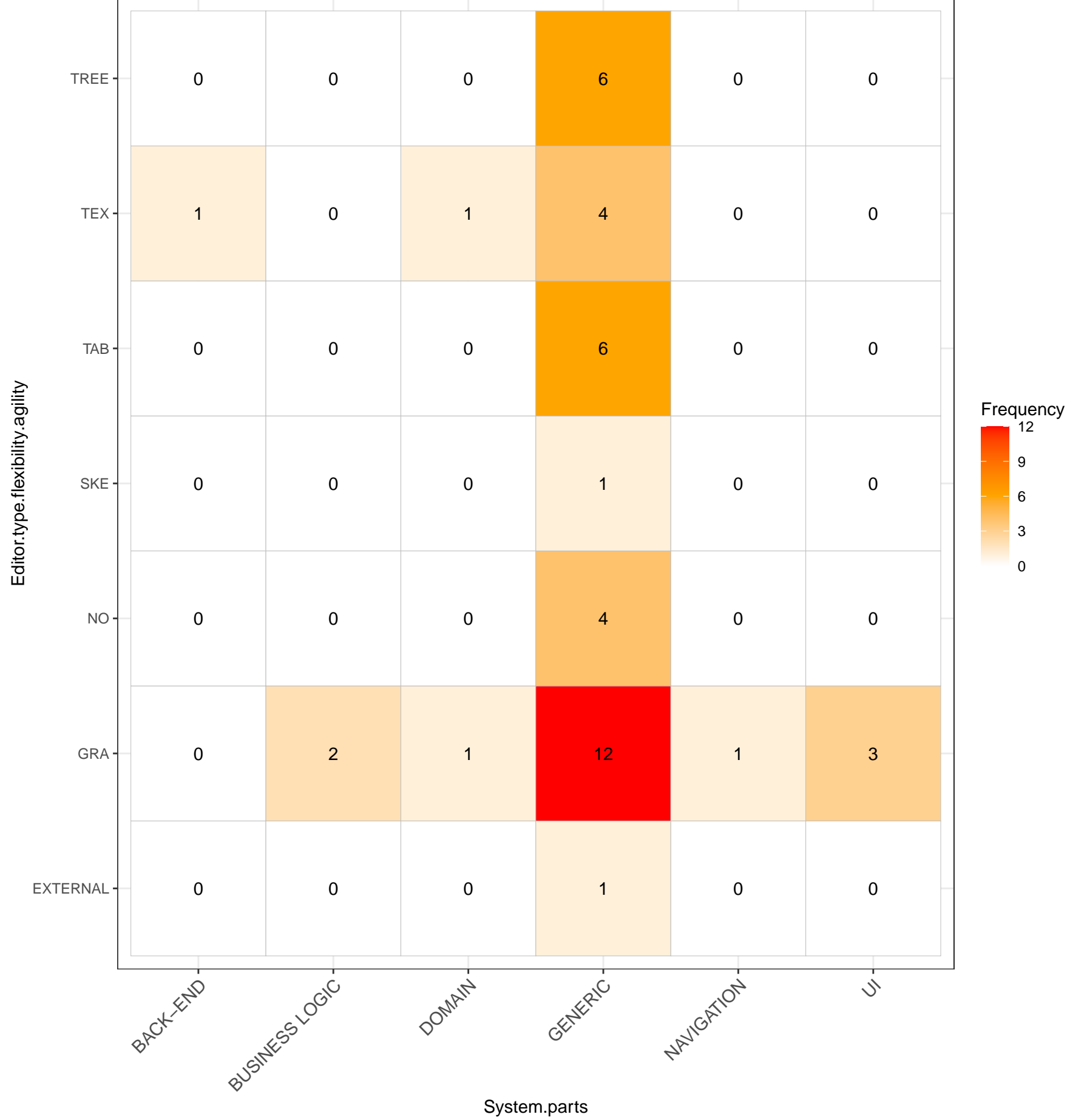




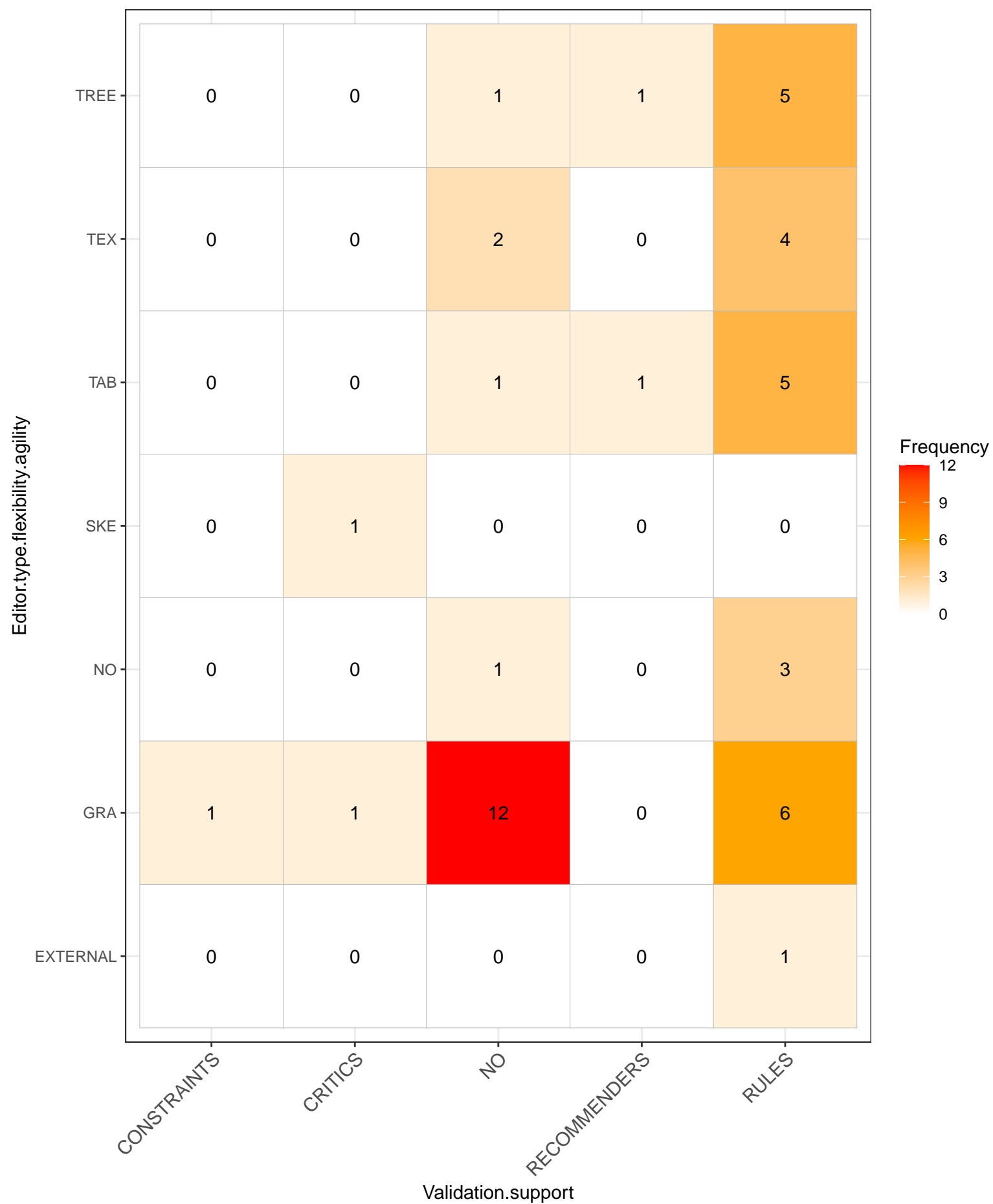
Editor.type.flexibility.agility_____System.domain.type

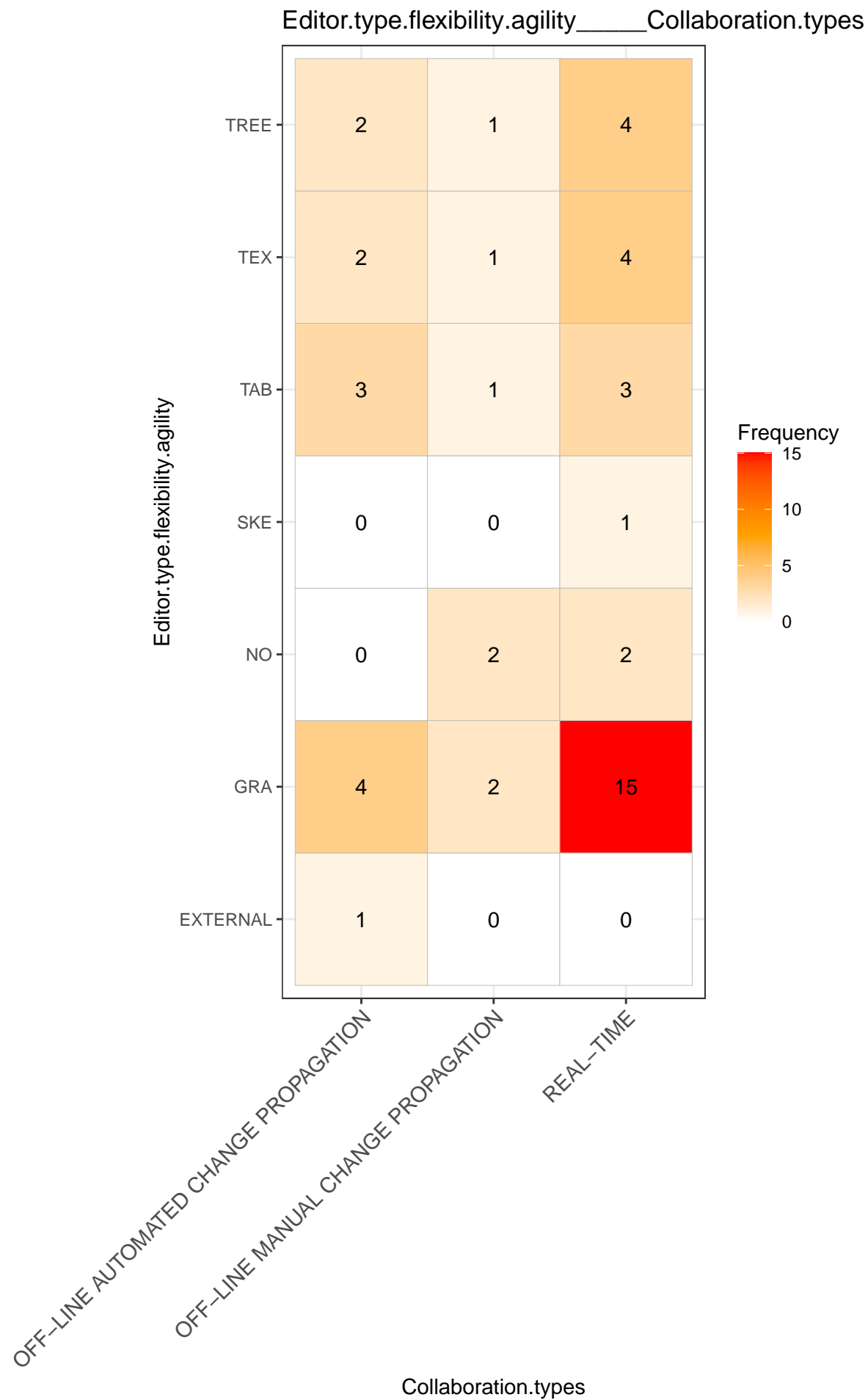


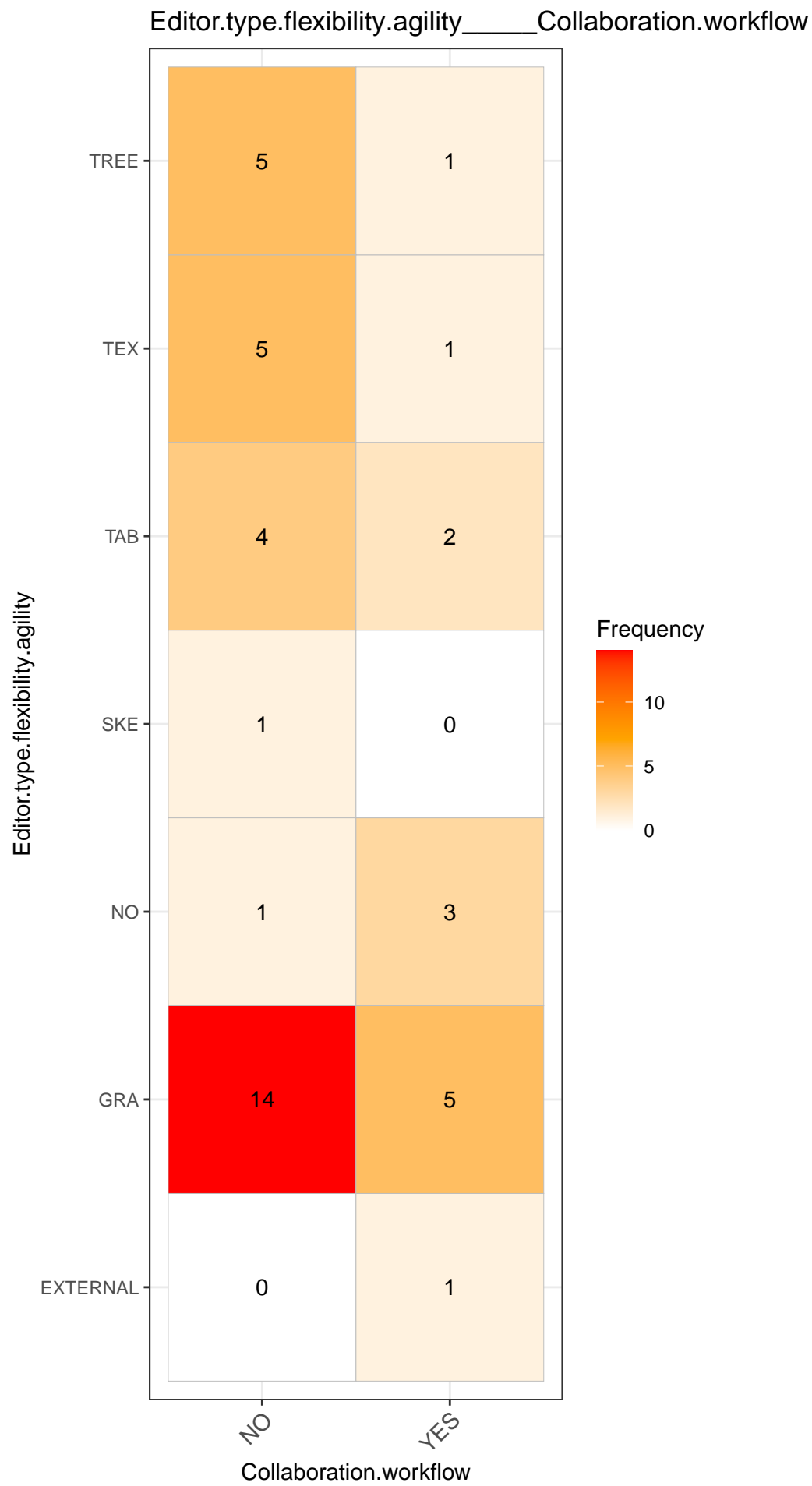
Editor.type.flexibility.agility_____System.parts

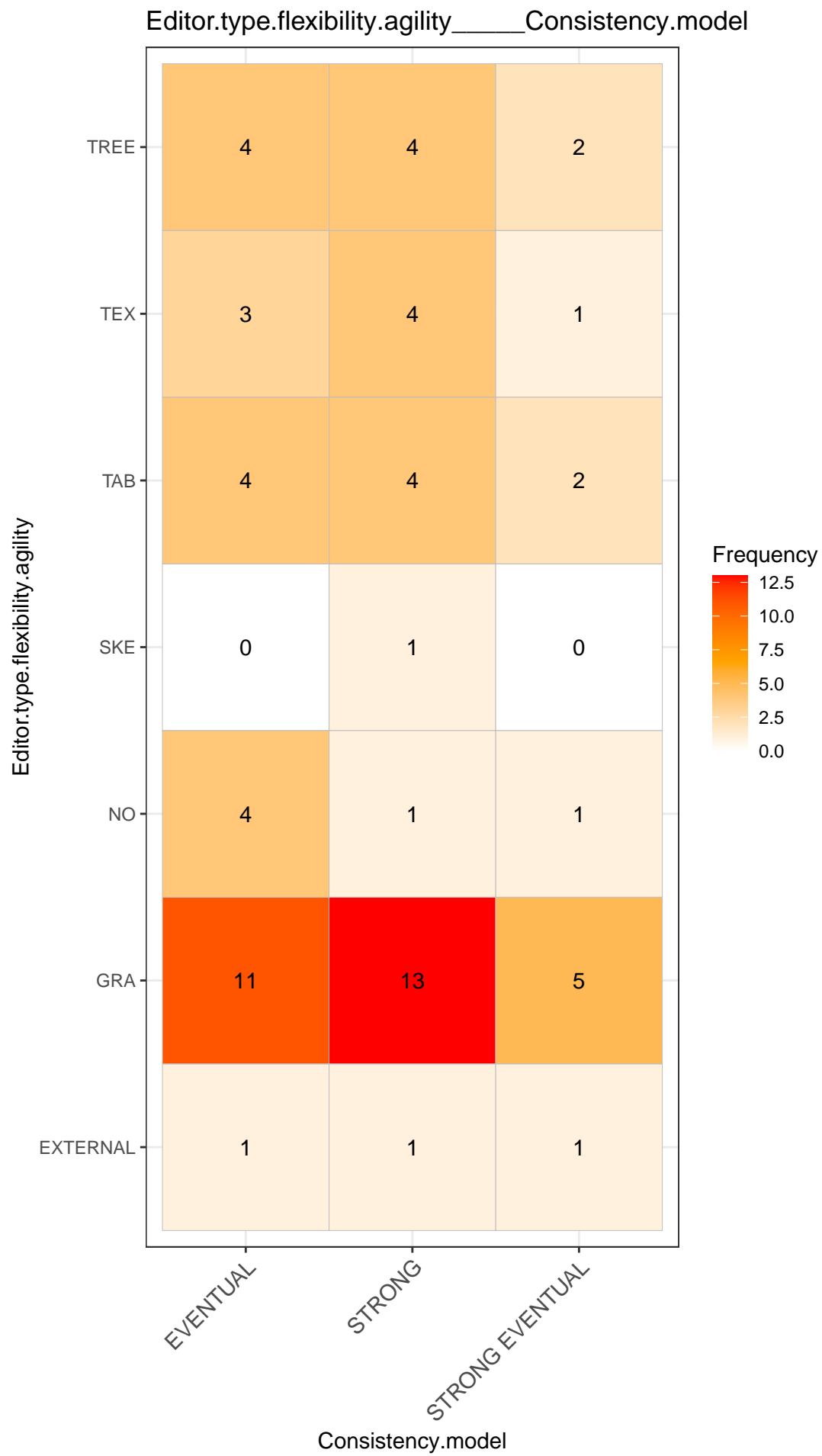


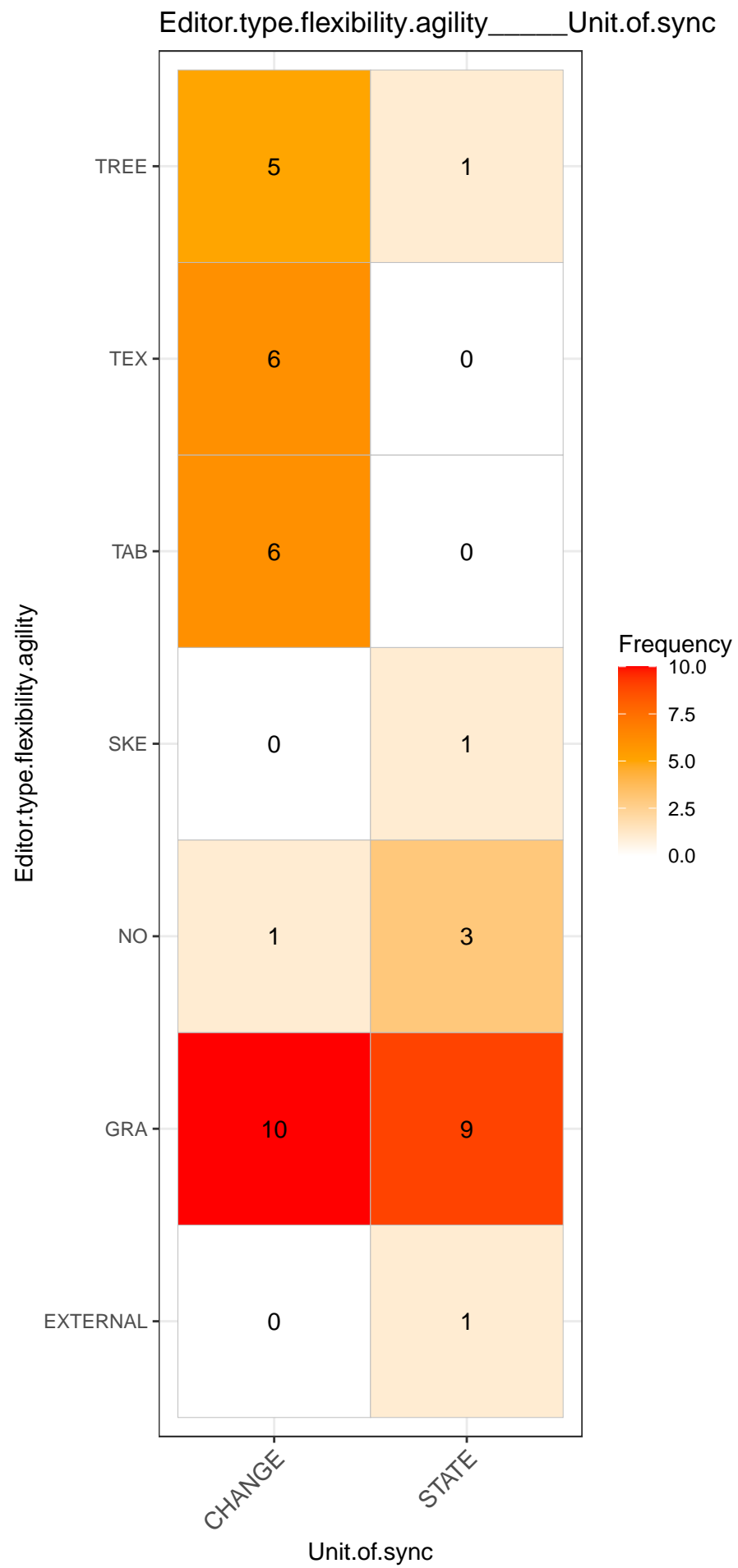
Editor.type.flexibility.agility_____Validation.support

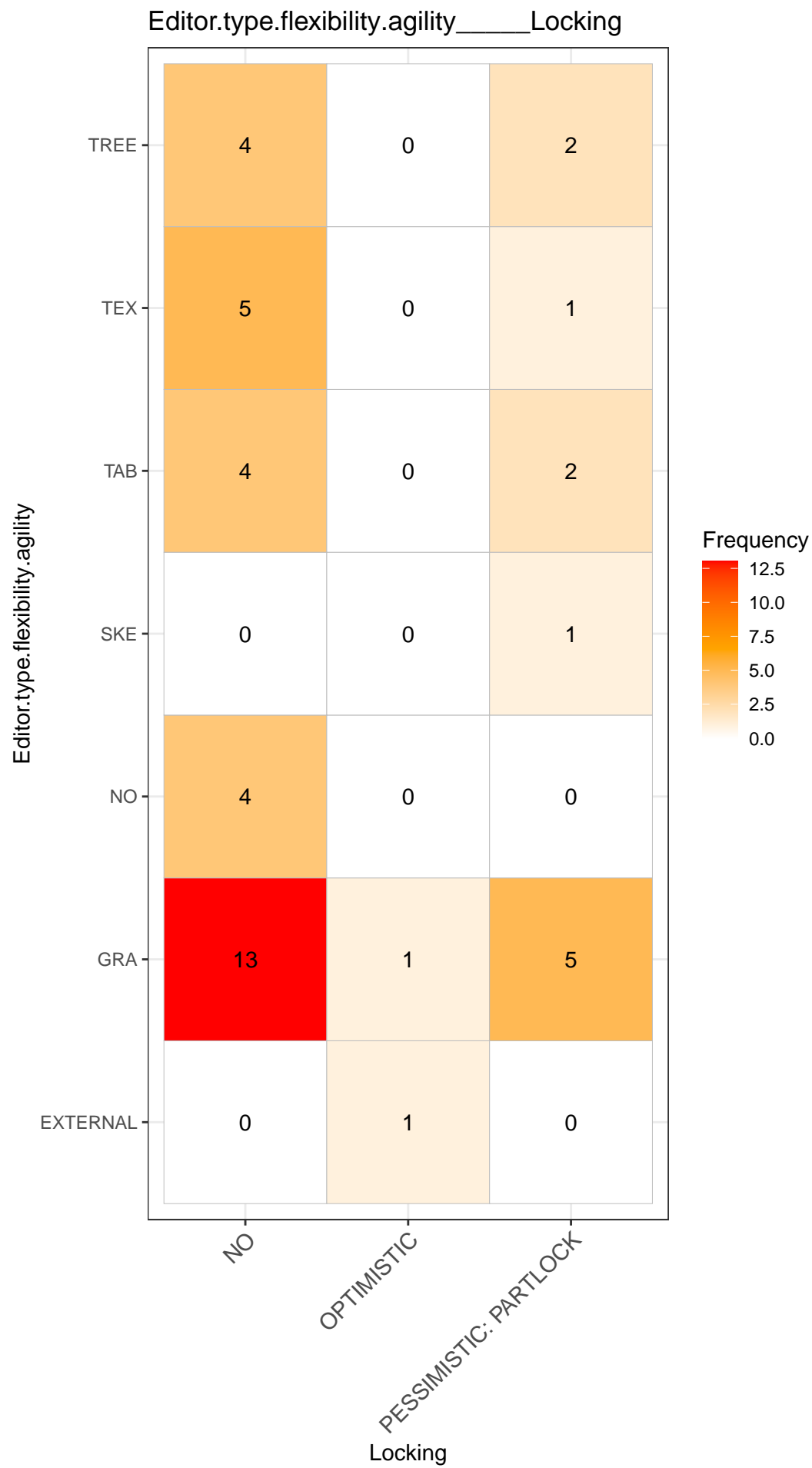


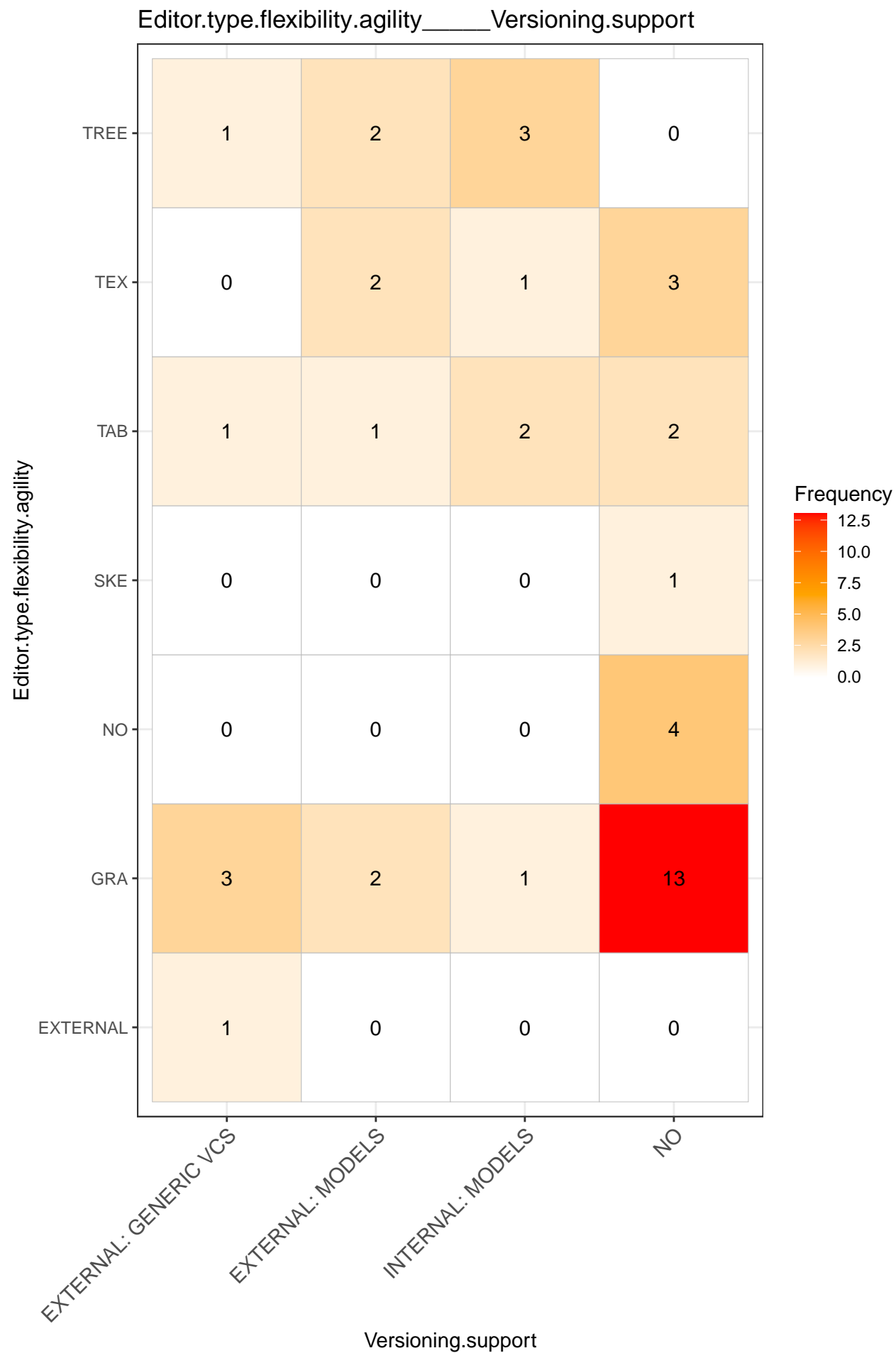


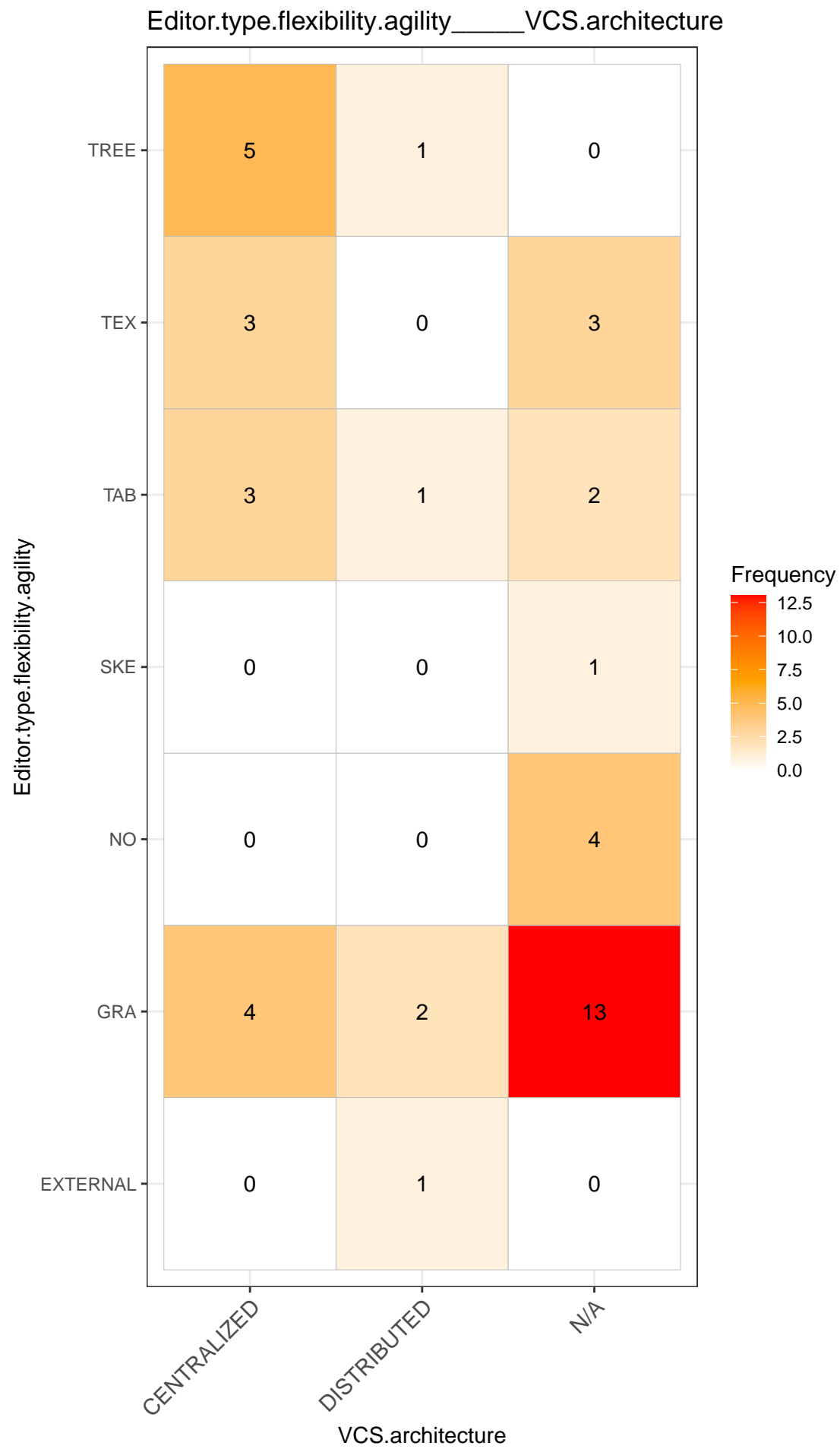


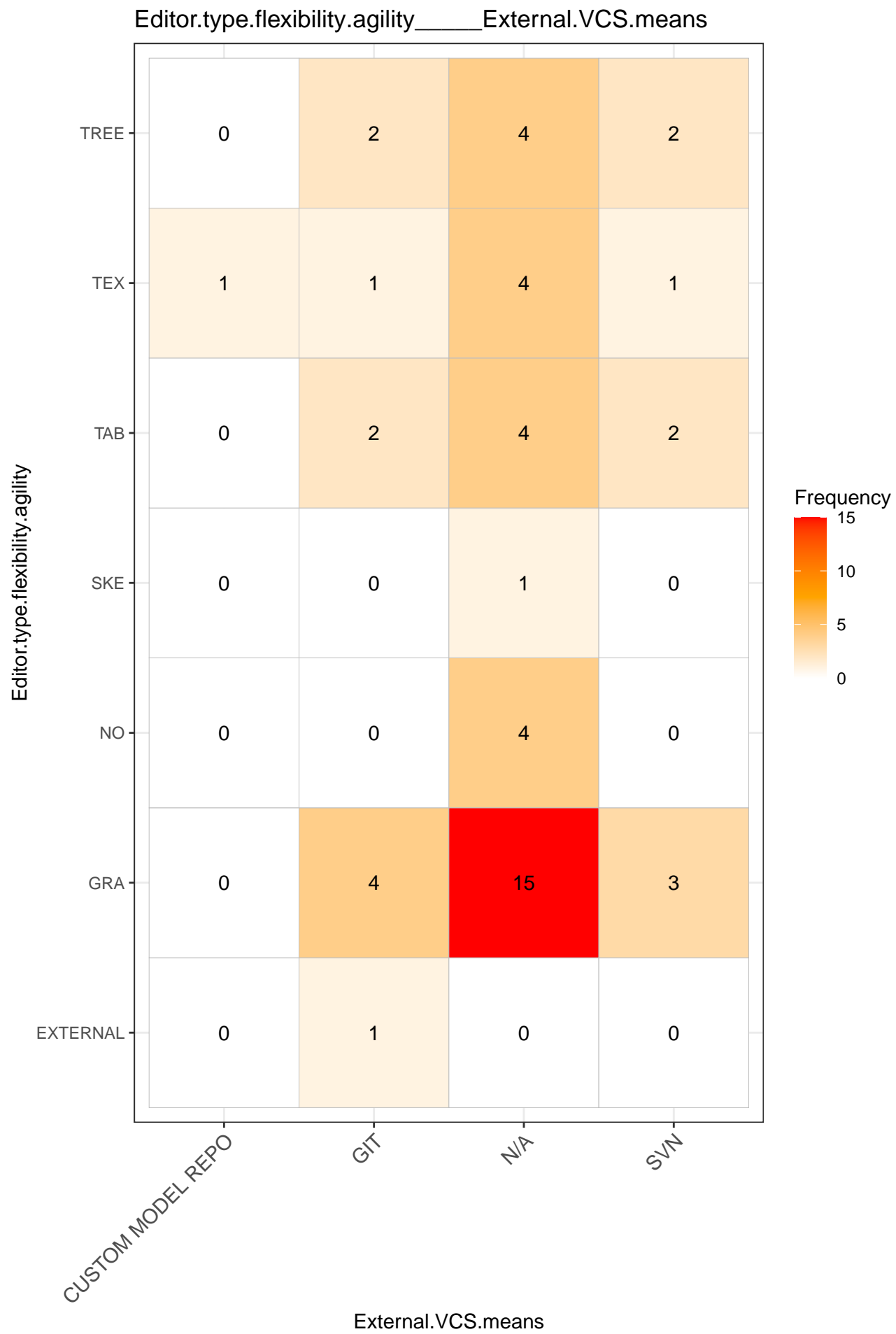


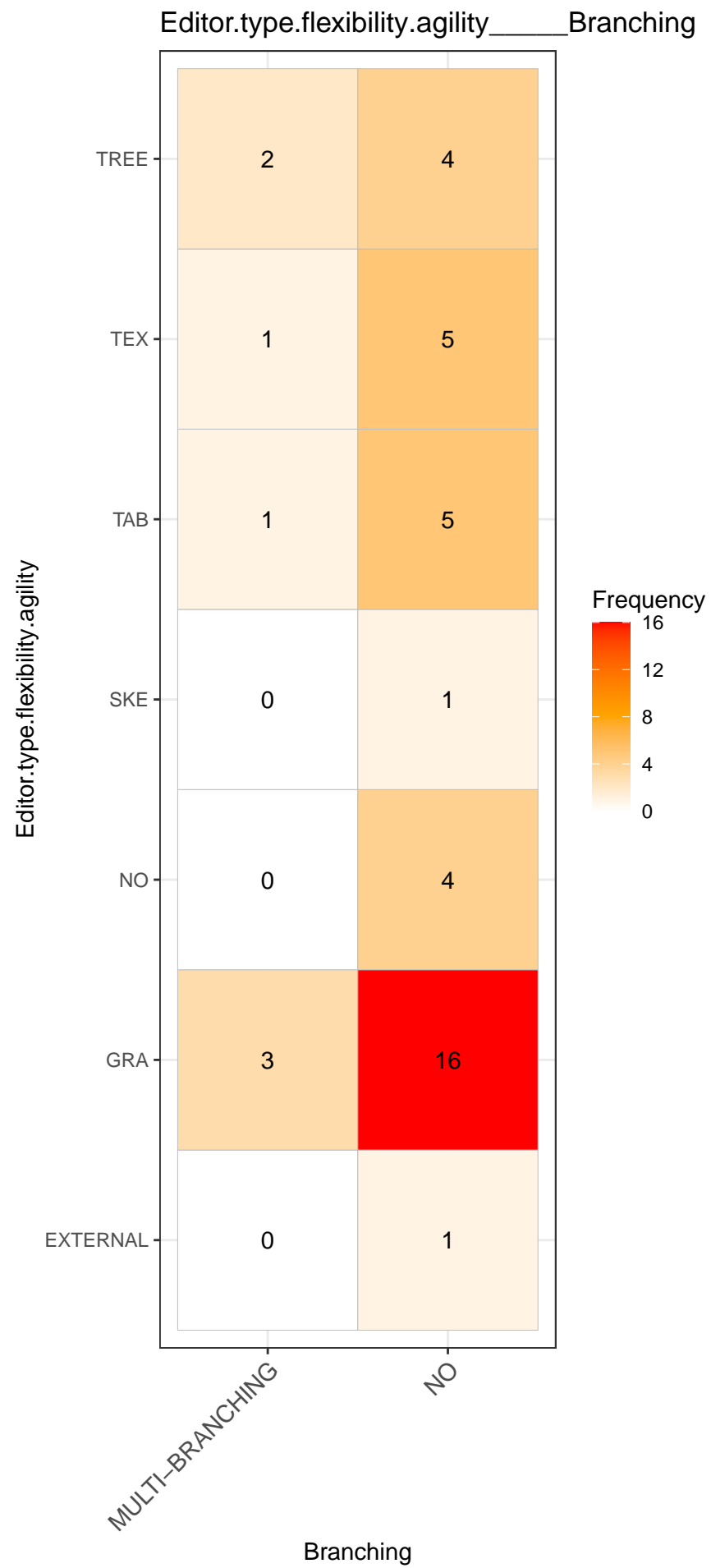


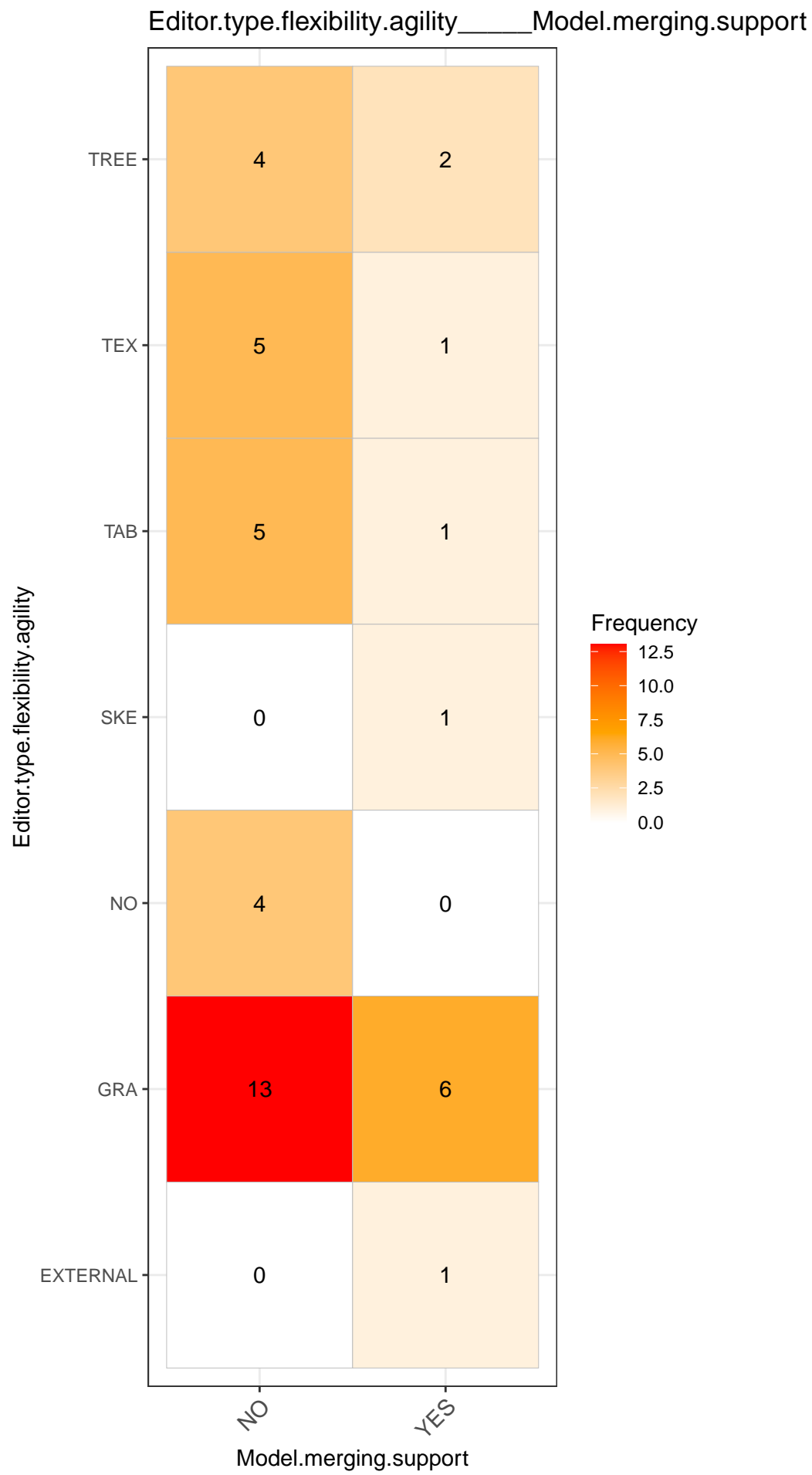




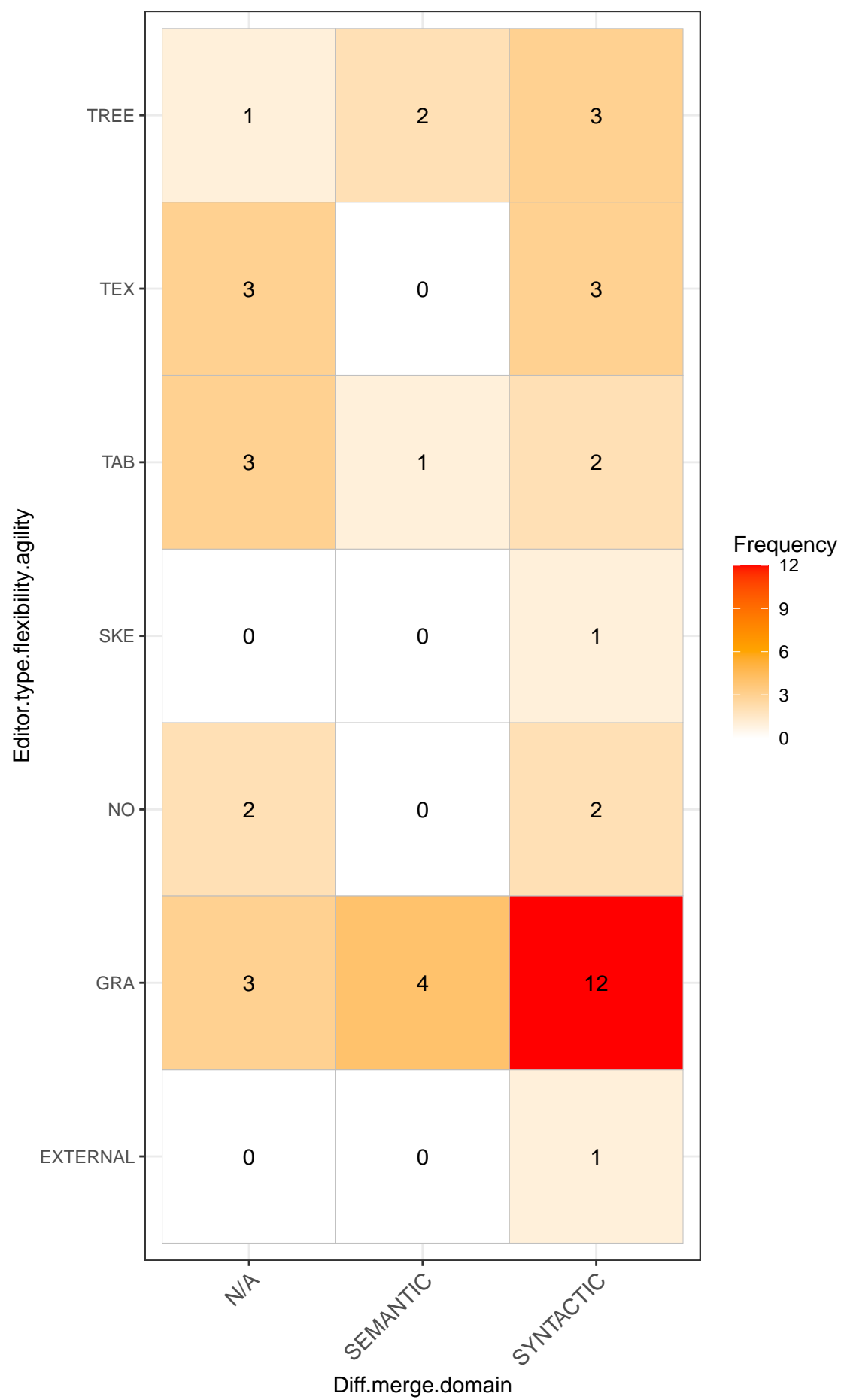


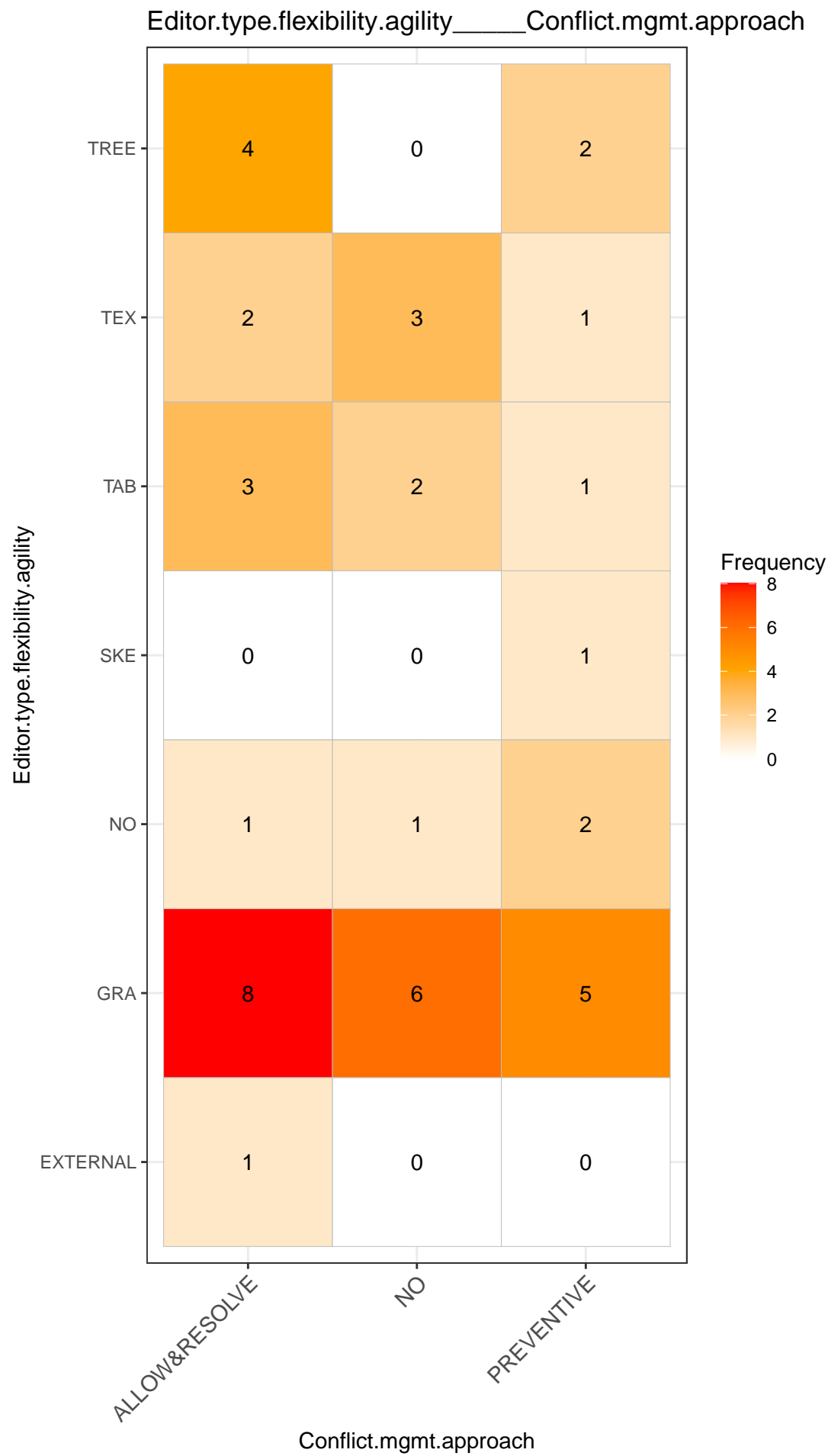


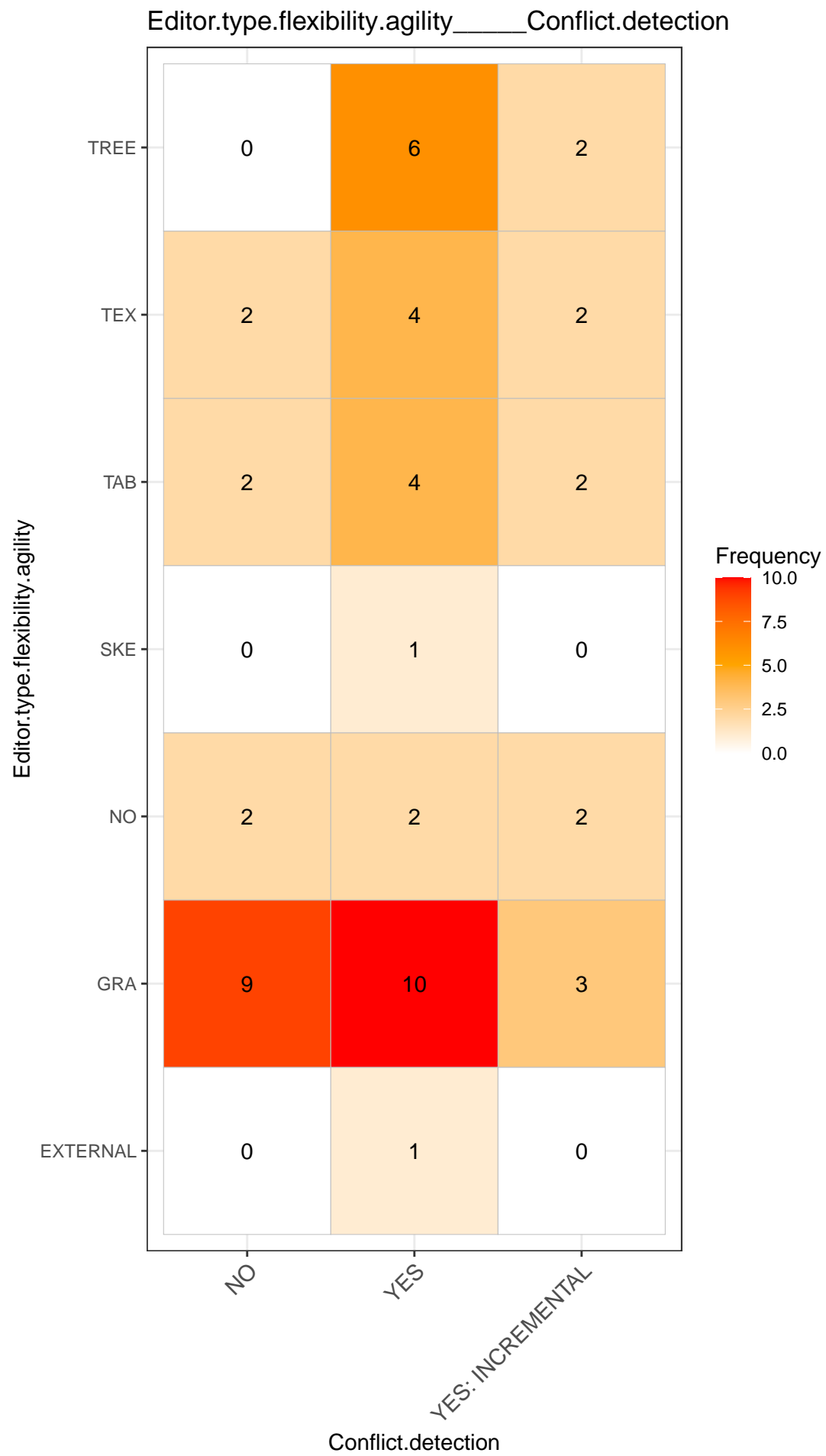


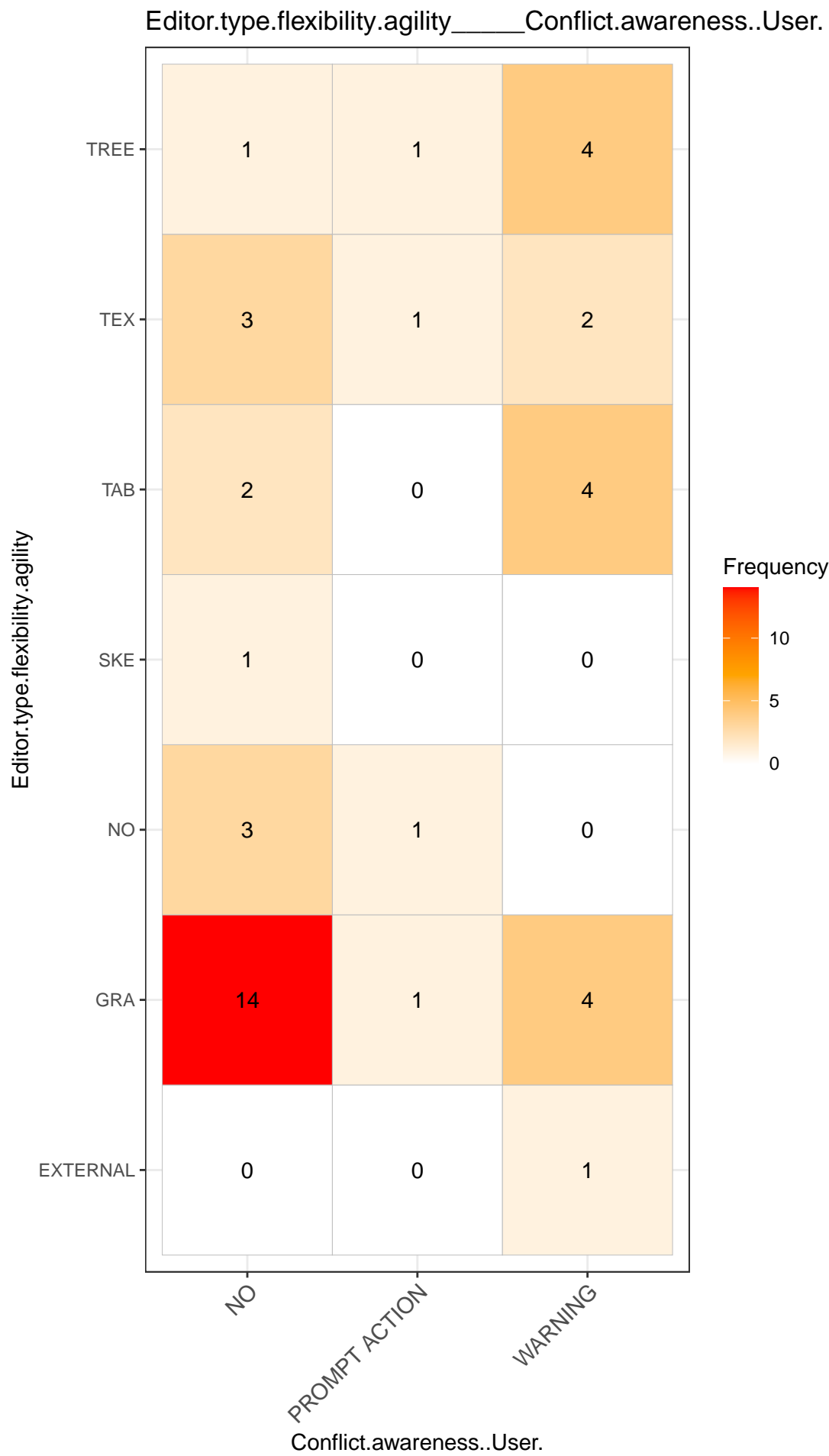


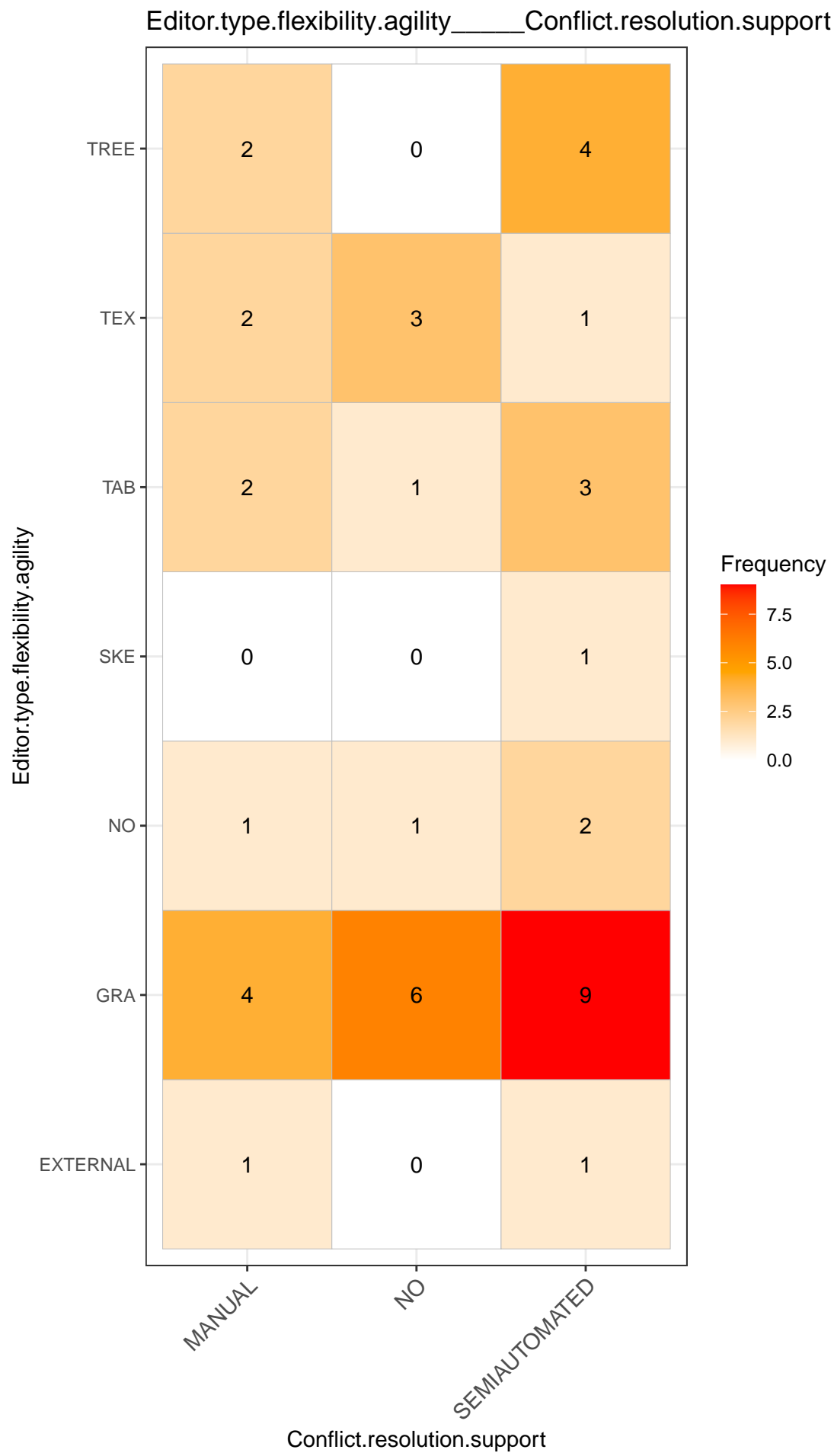
Editor.type.flexibility.agility_____Diff.merge.domain

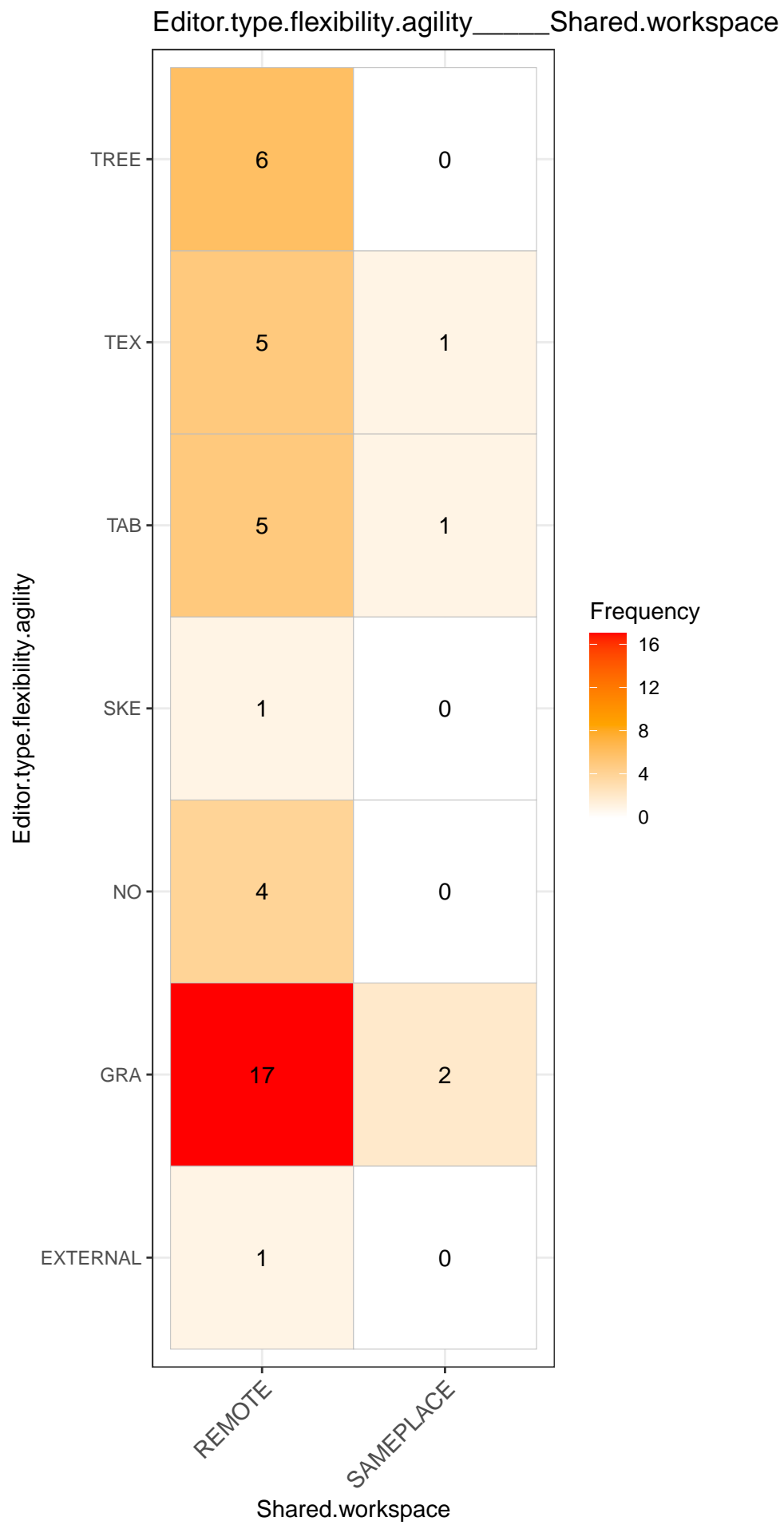


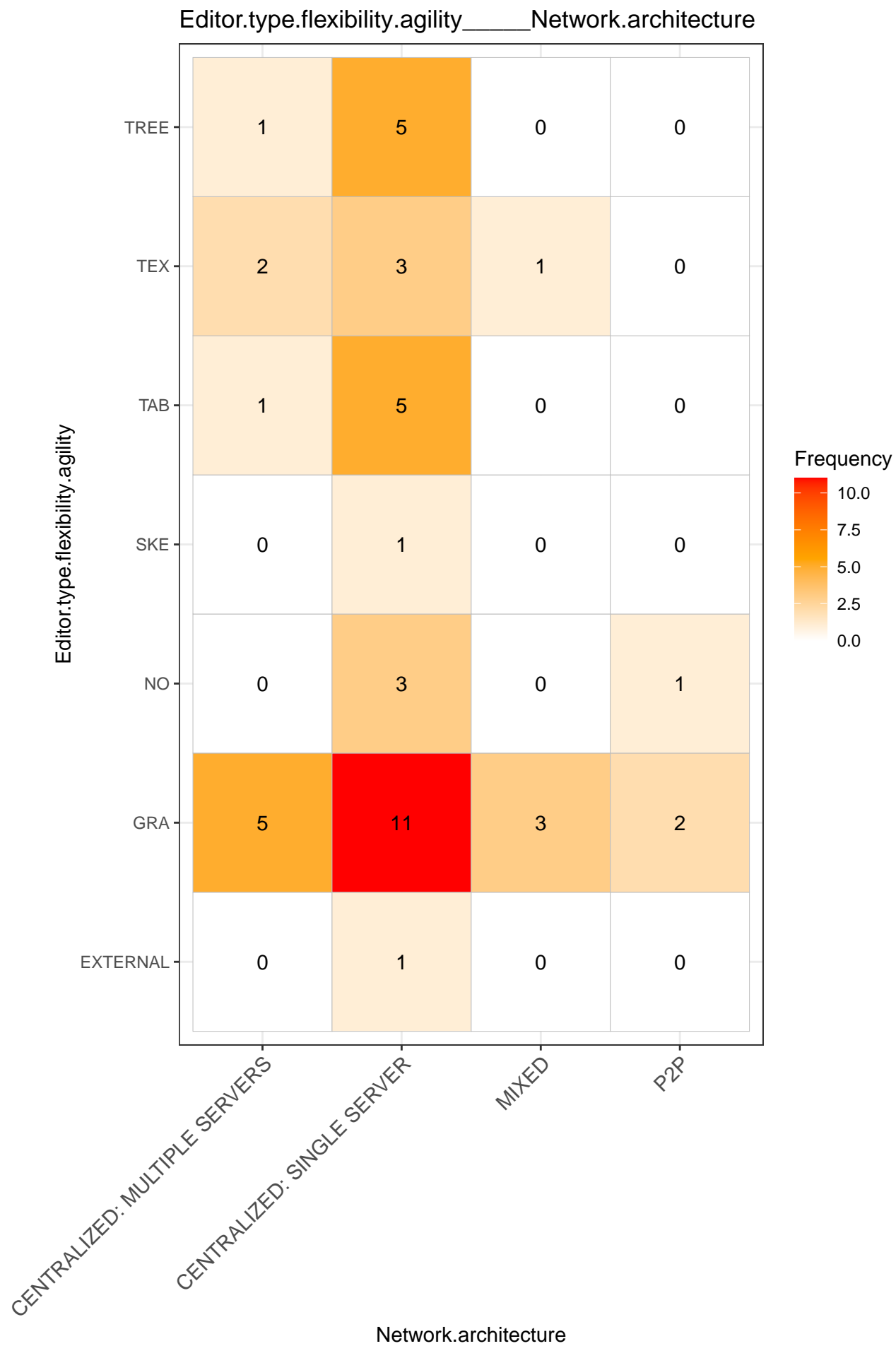


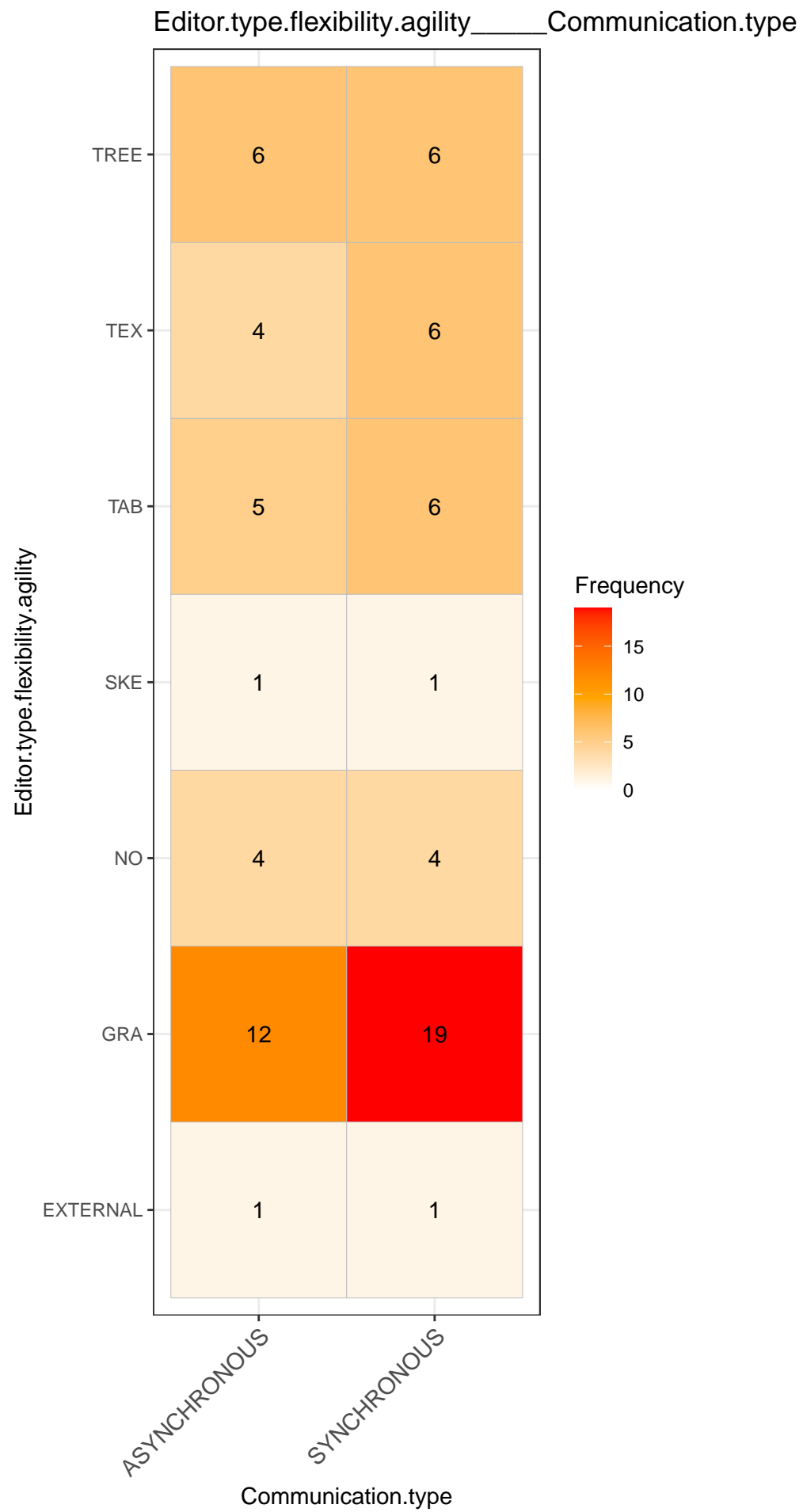


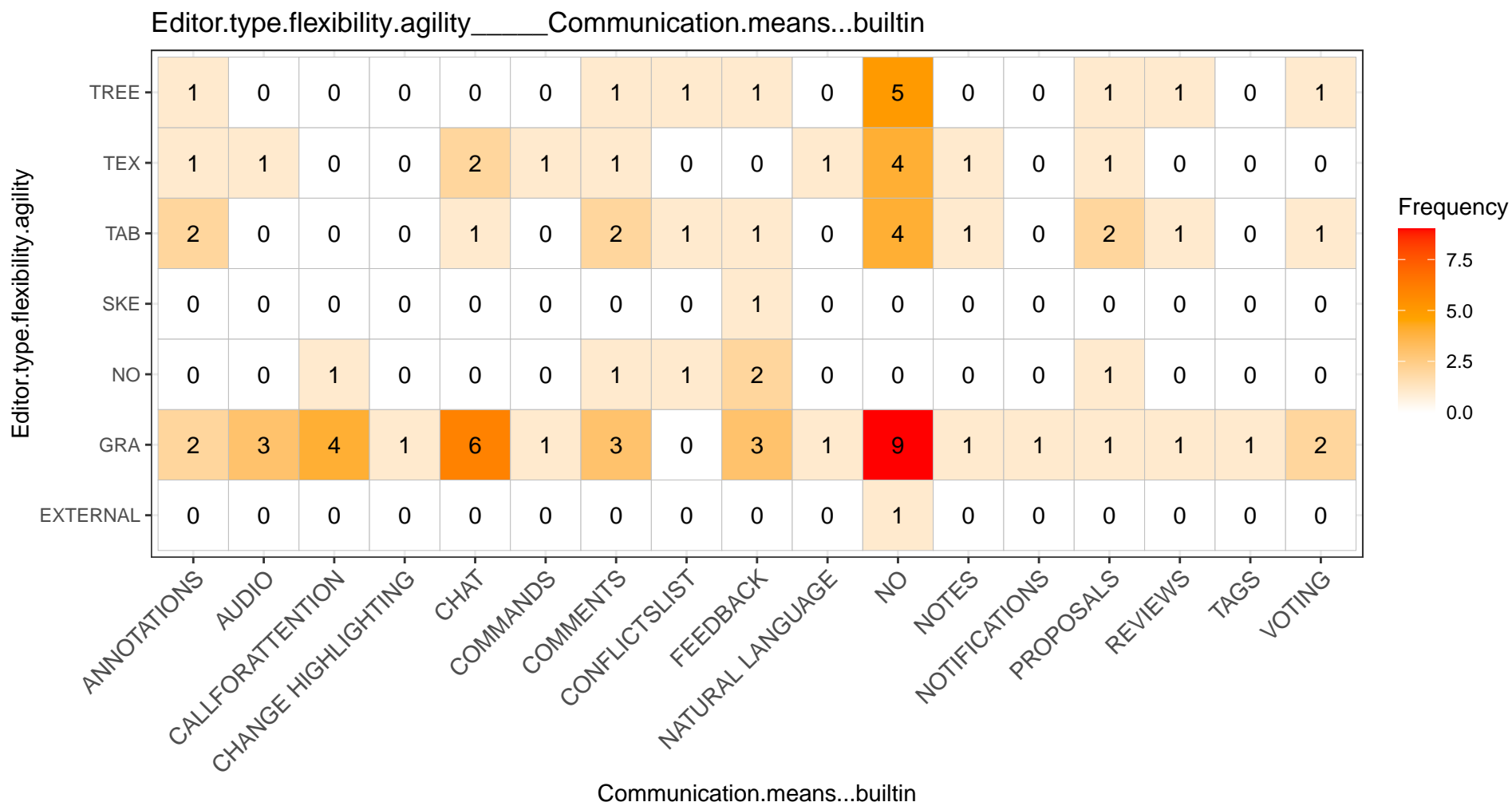






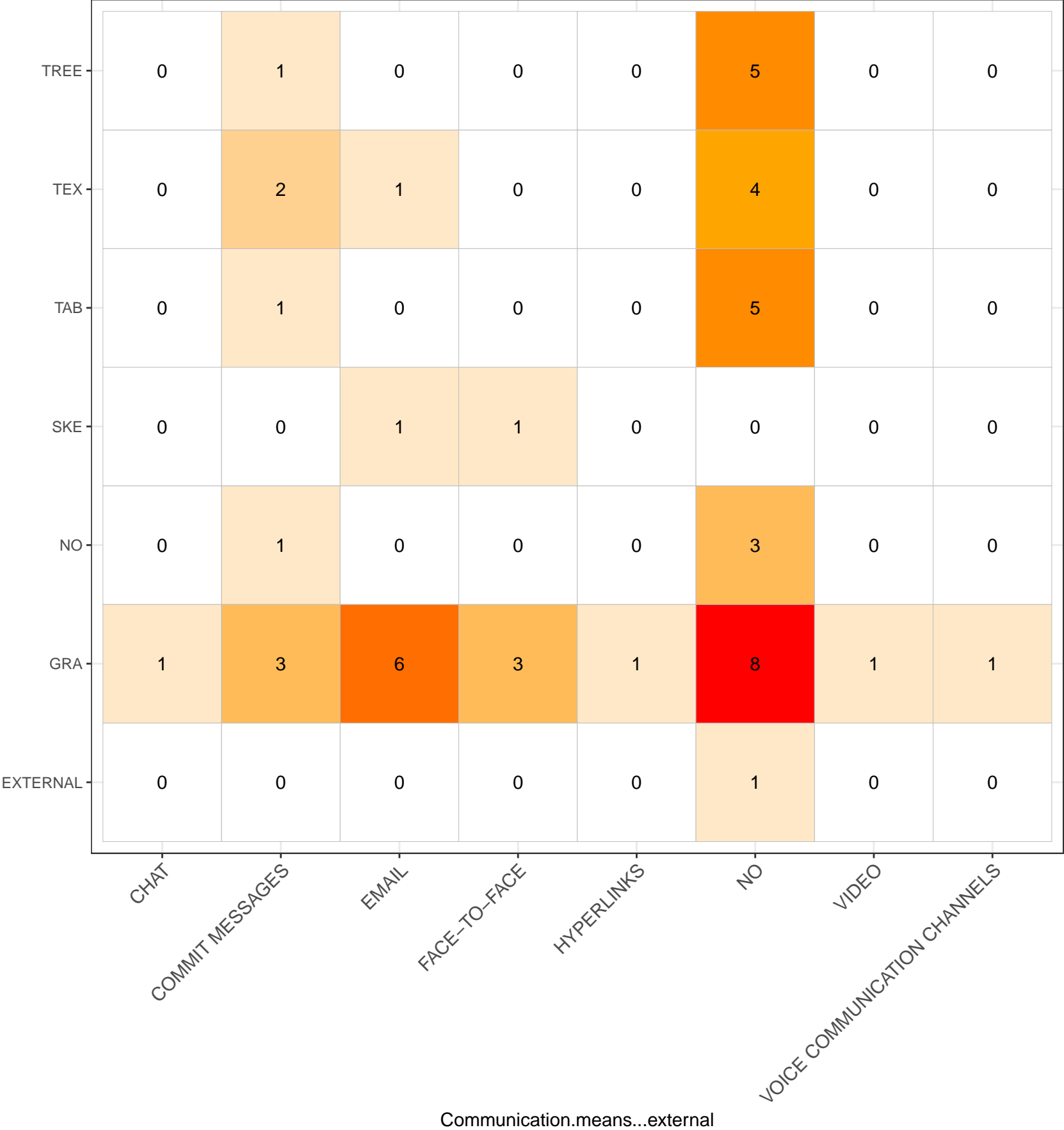
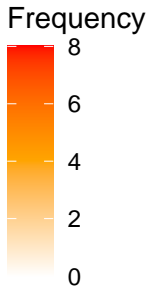


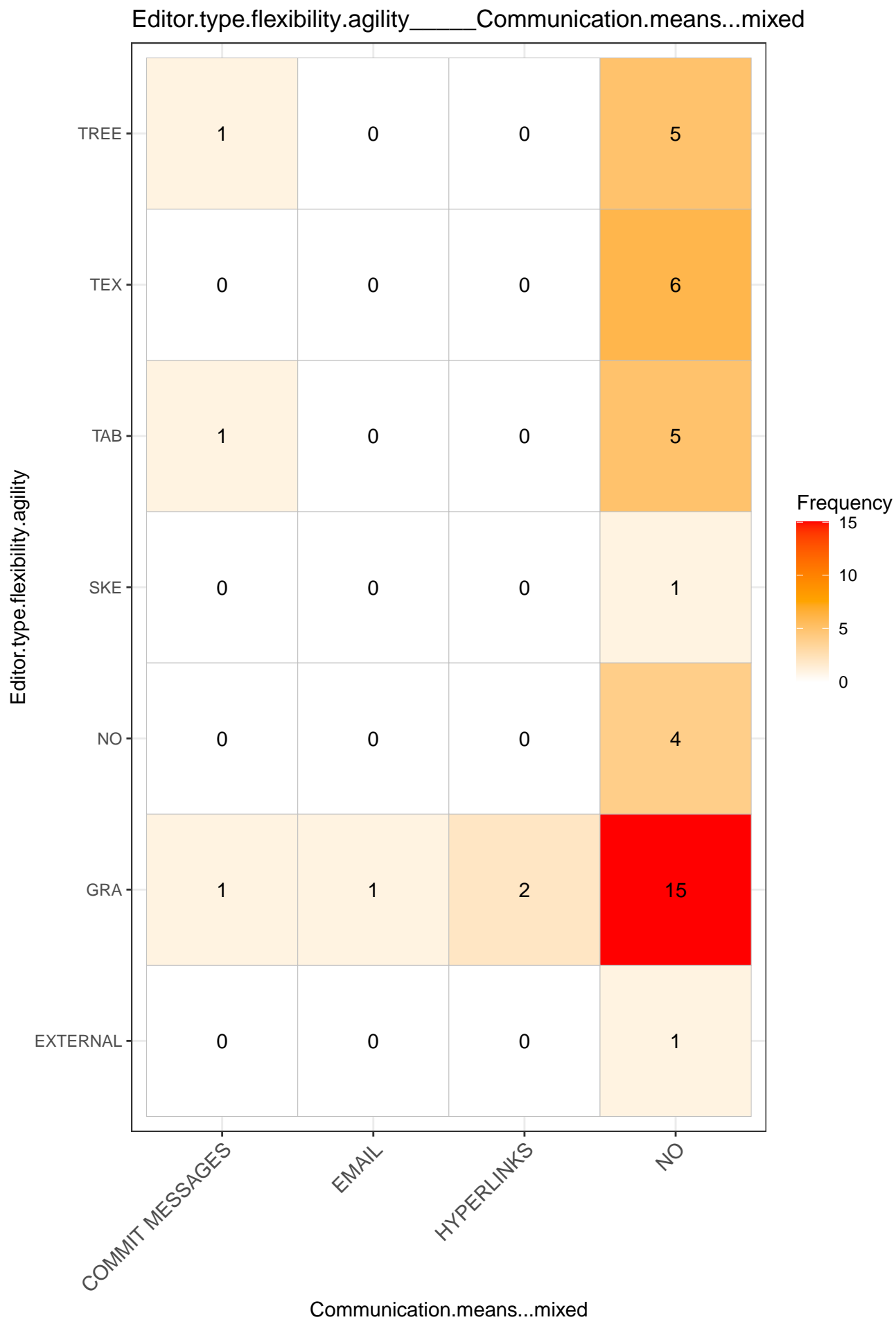




Editor.type.flexibility.agility_____Communication.means...external

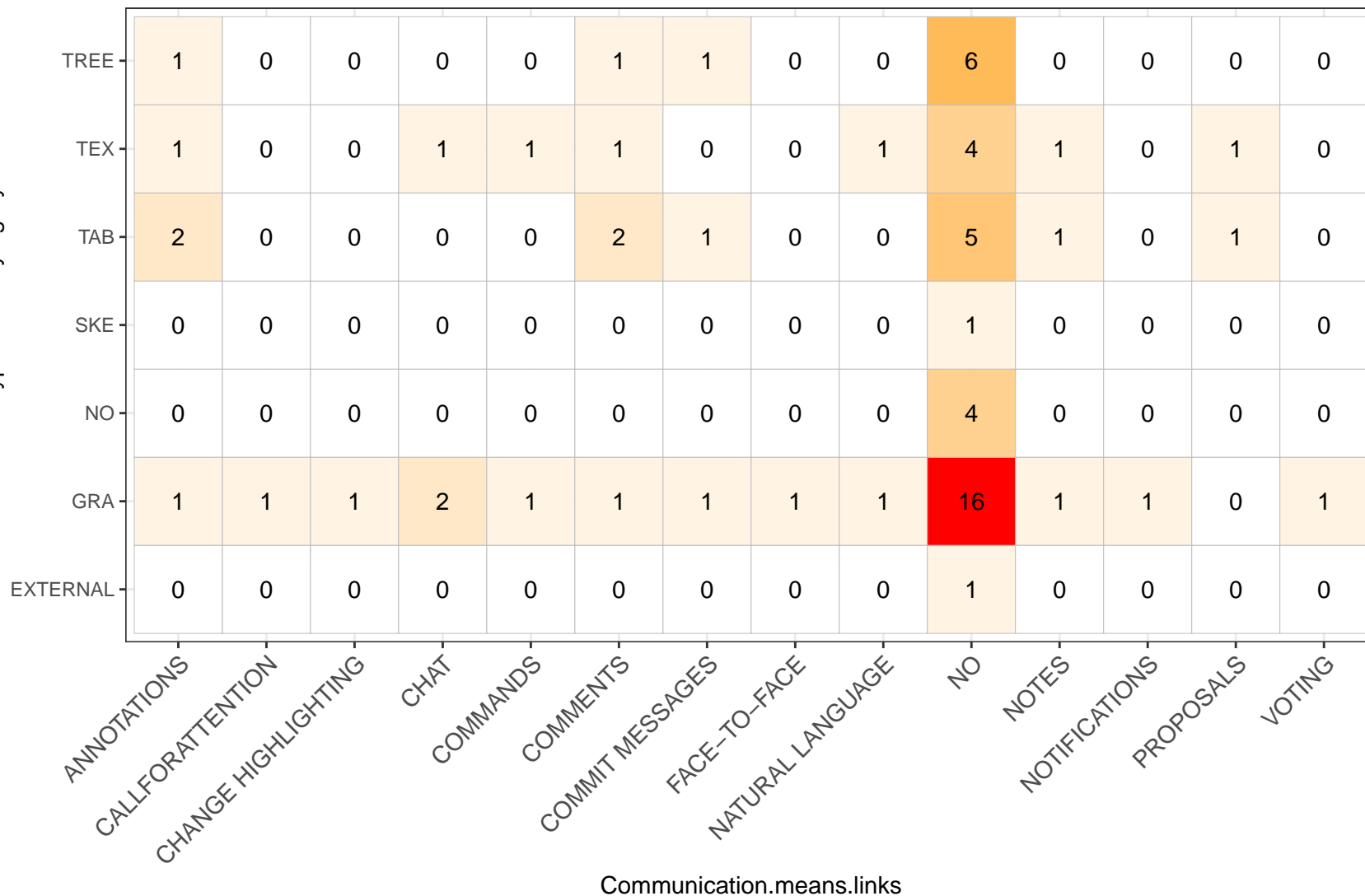
Editor.type.flexibility.agility

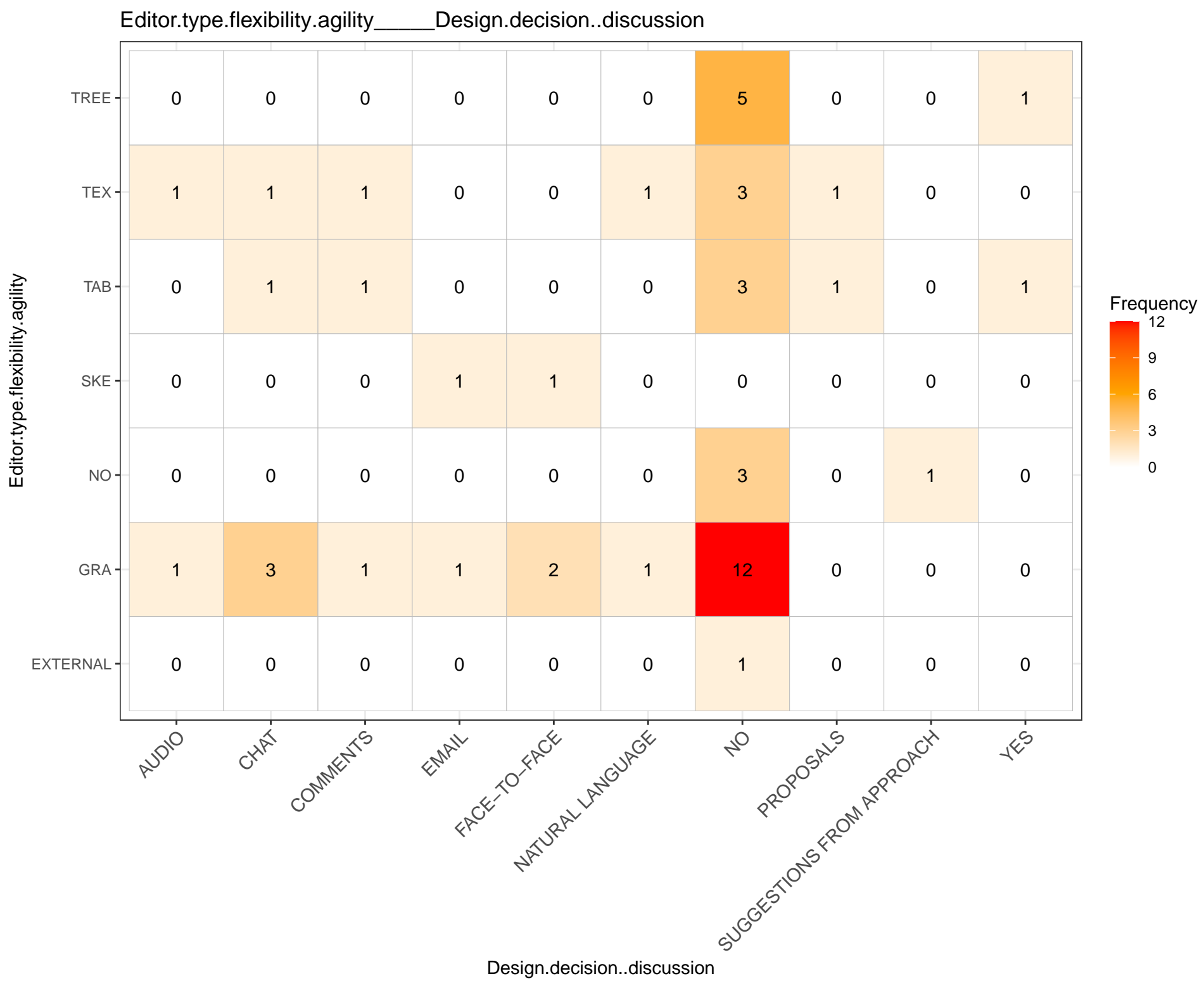




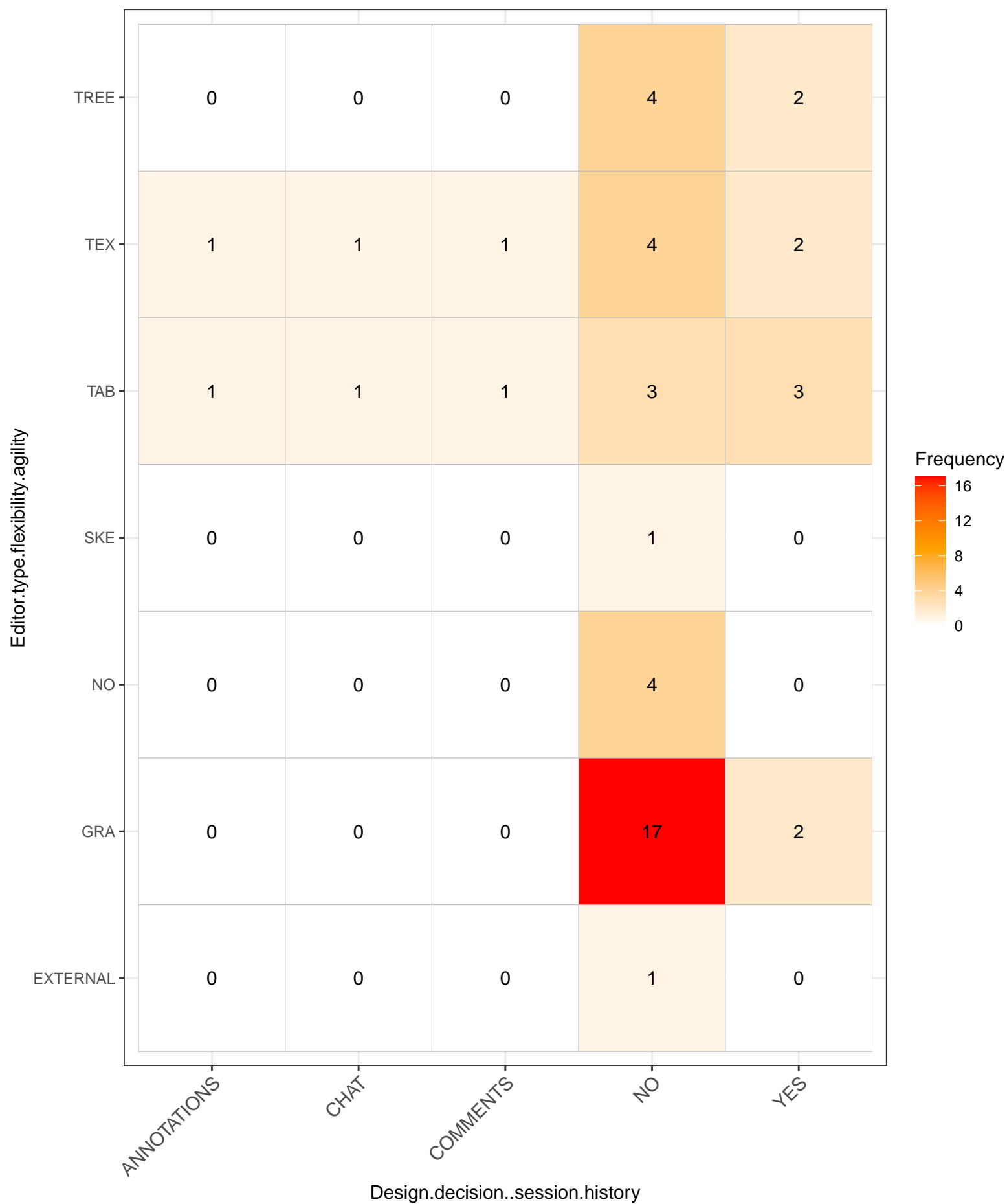
Editor.type.flexibility.agility

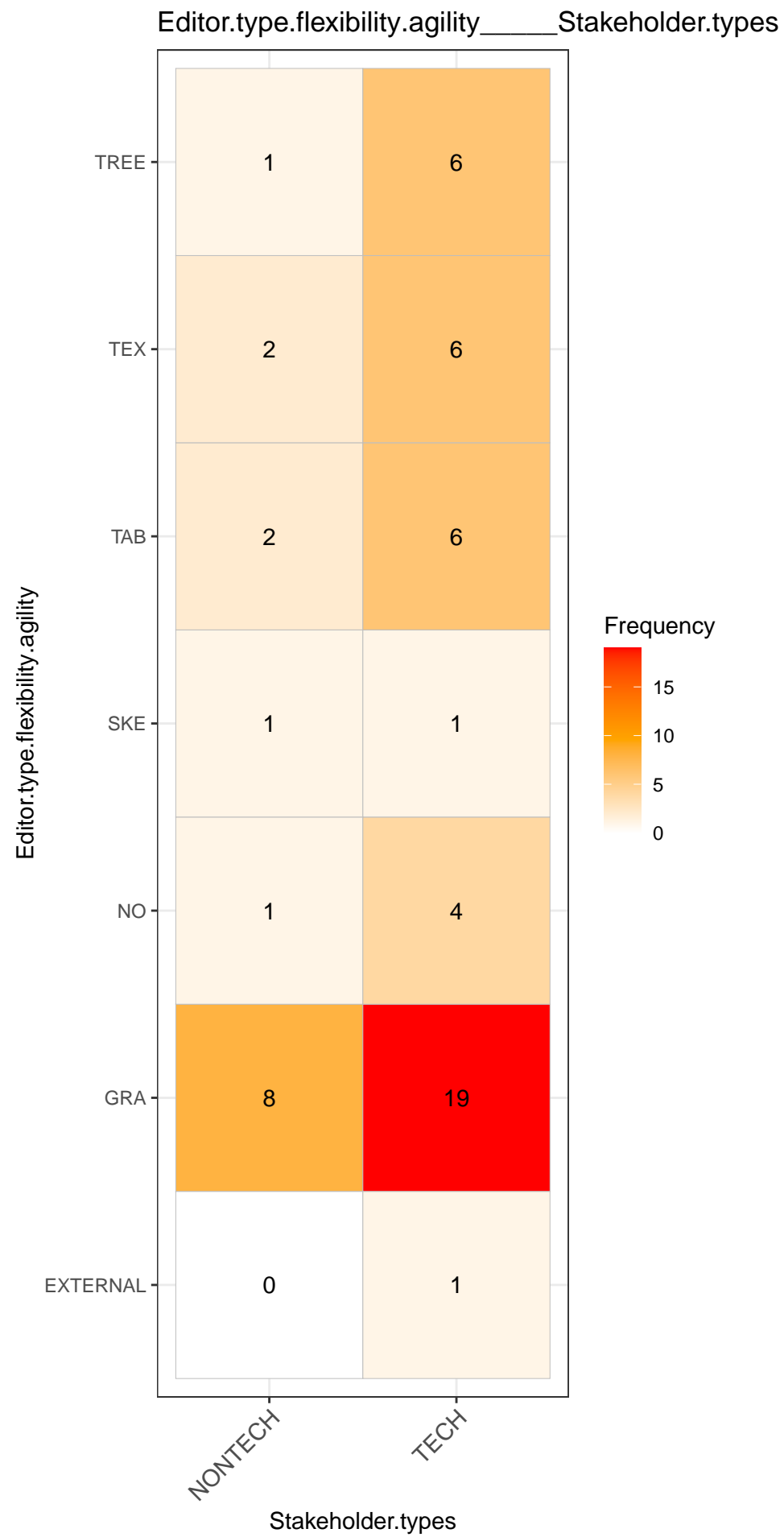
Editor.type.flexibility.agility_____Communication.means.links

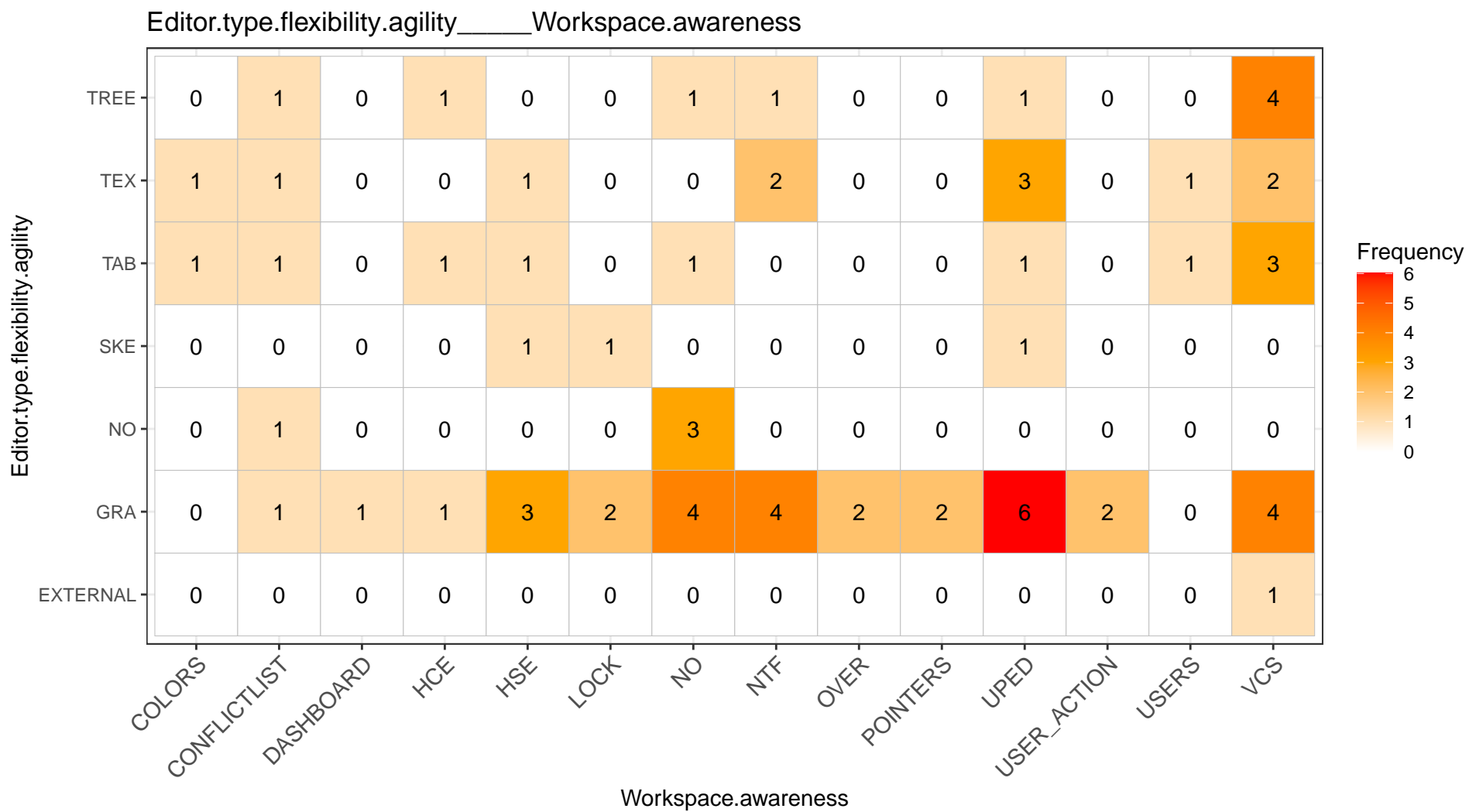




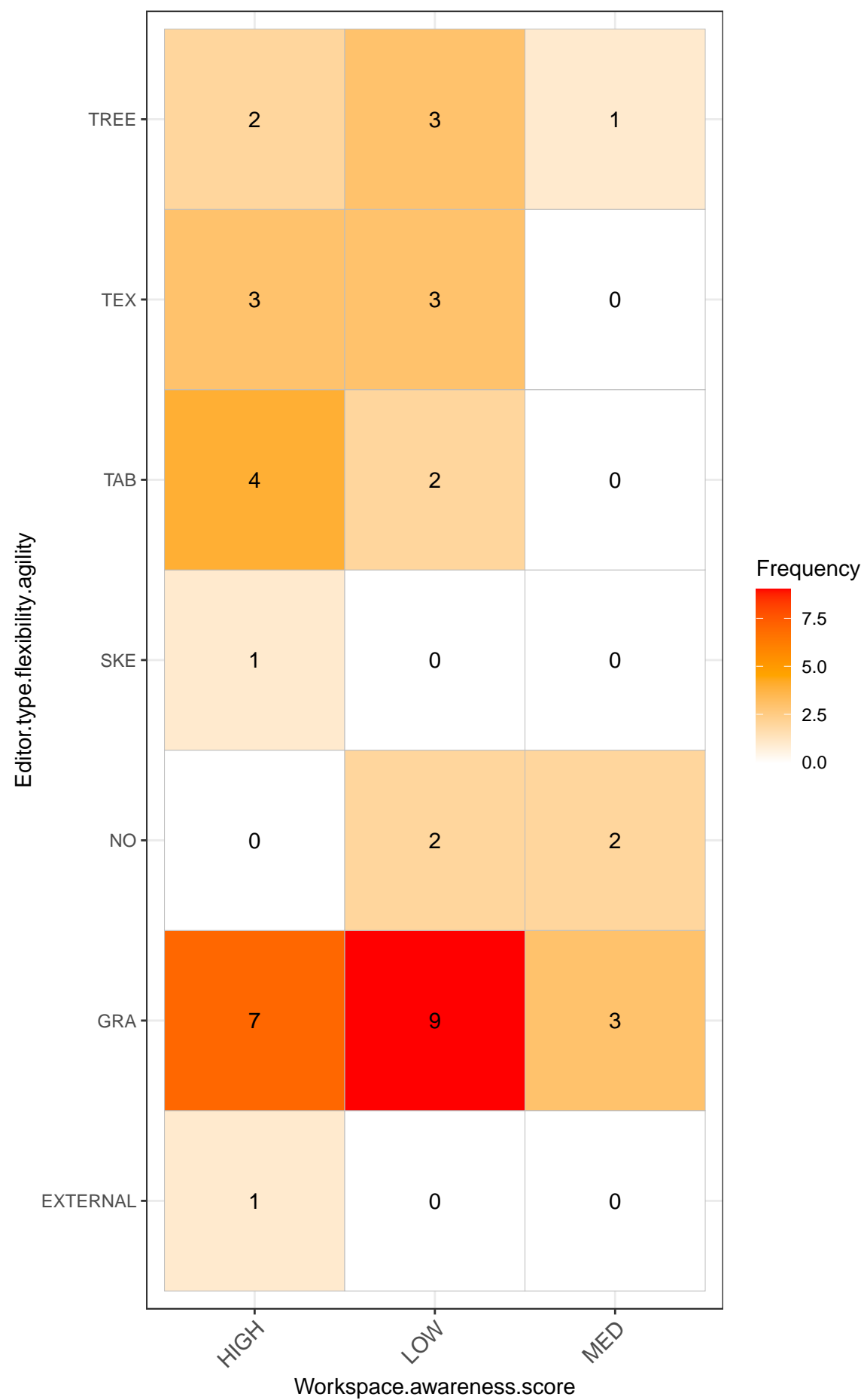
Editor.type.flexibility.agility_____Design.decision..session.history



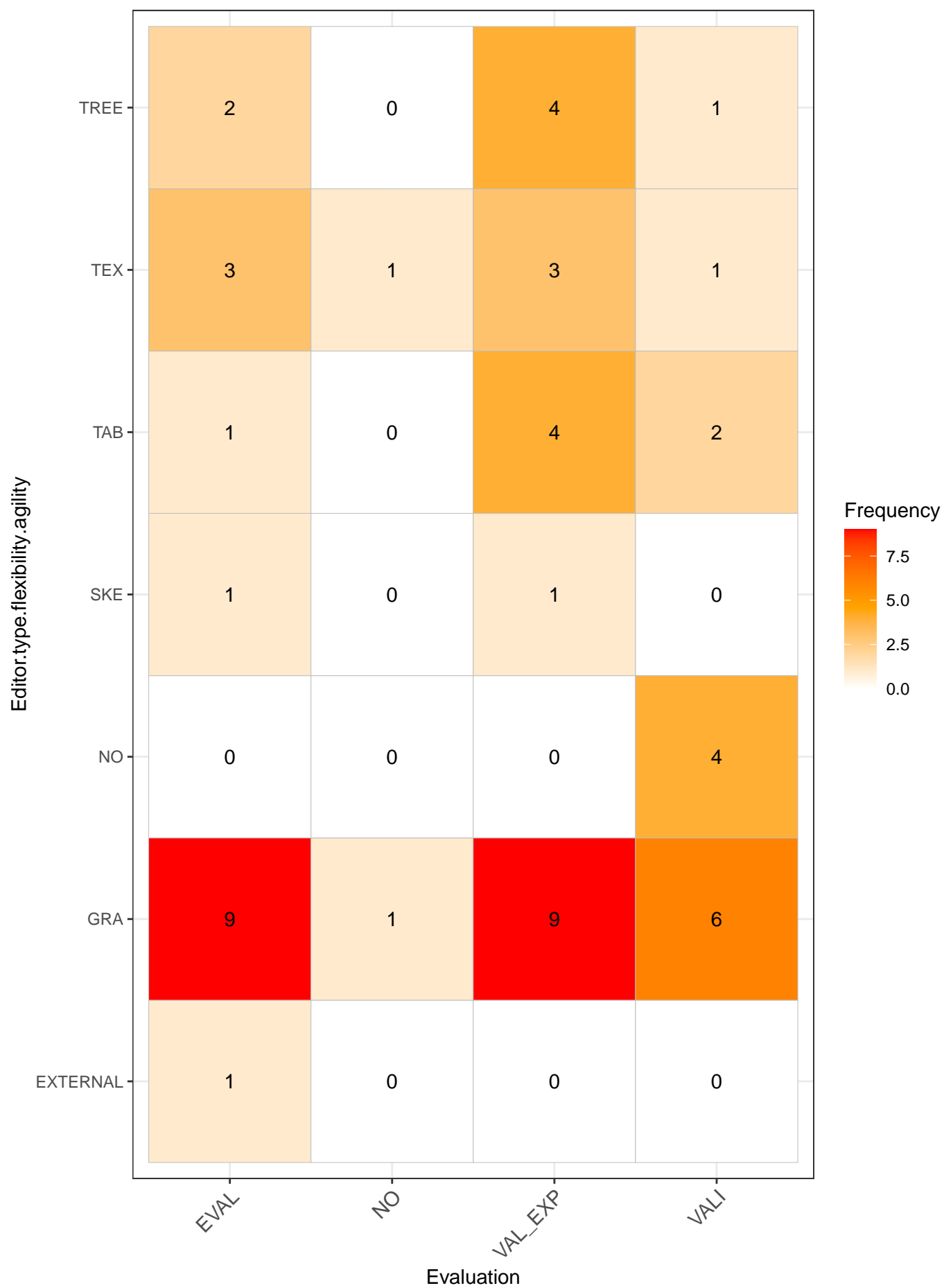


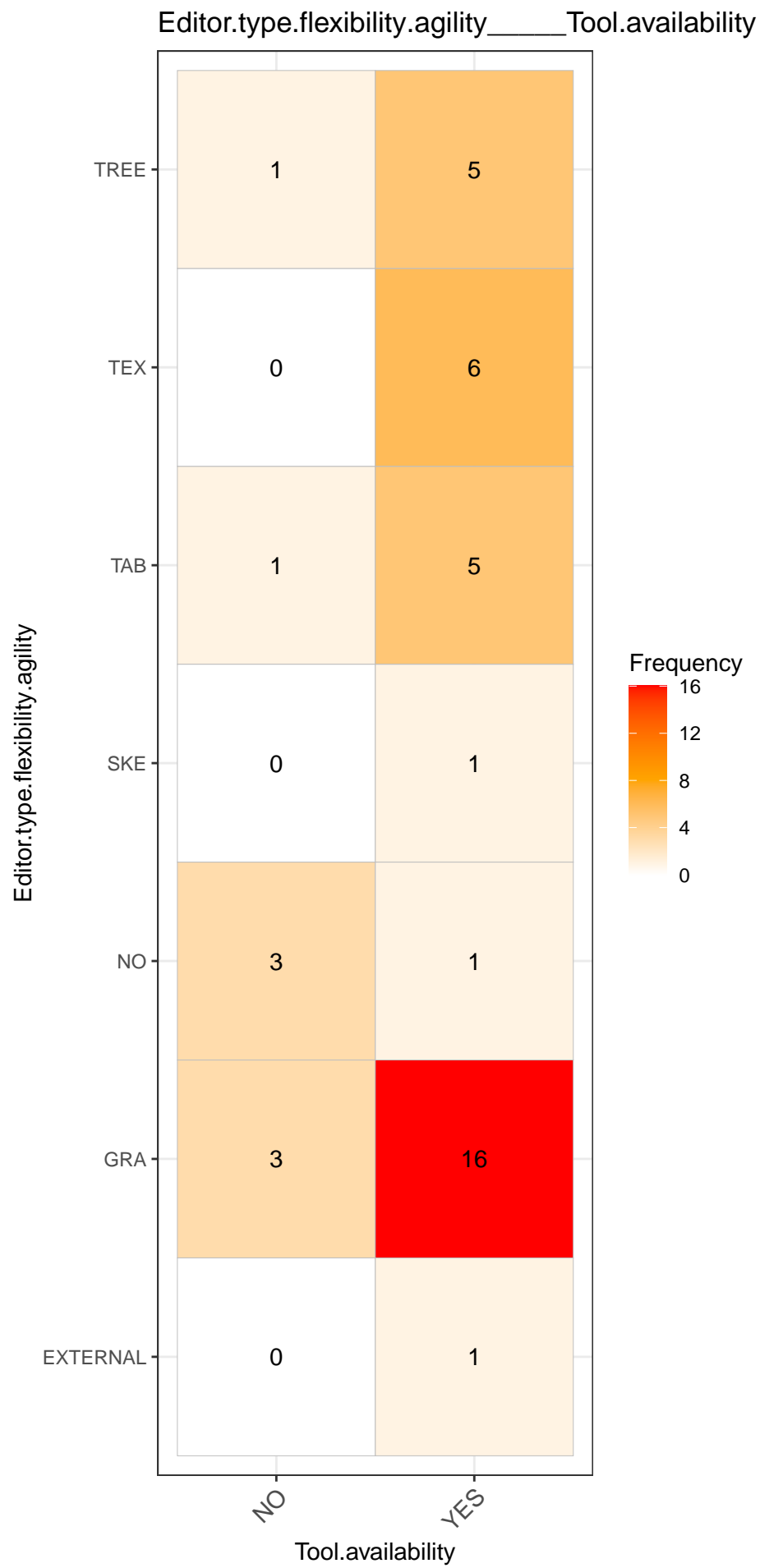


Editor.type.flexibility.agility_____Workspace.awareness.score

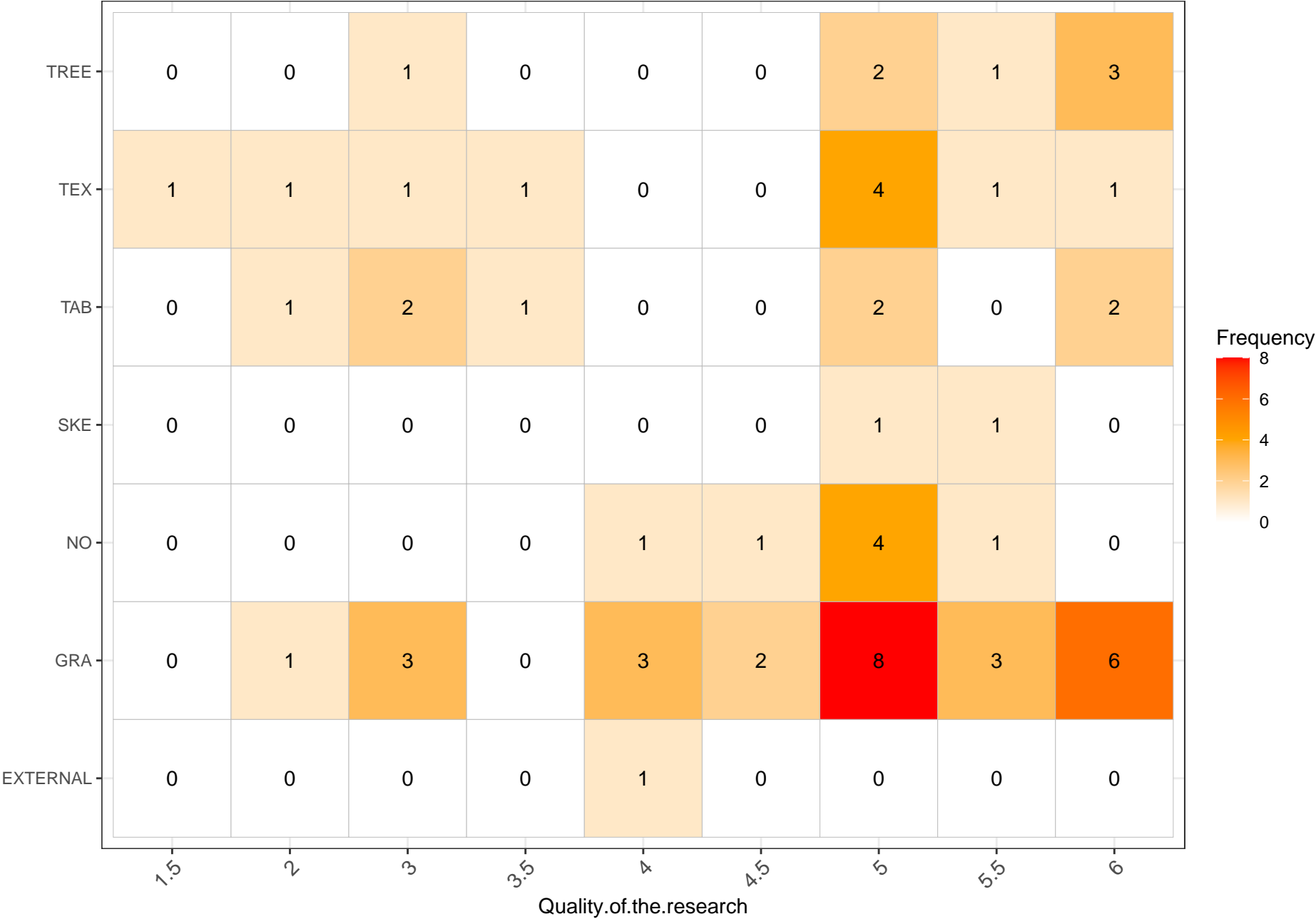


Editor.type.flexibility.agility_____Evaluation





Editor.type.flexibility.agility_____Quality.of.the.research



Tool.support...CLIENT____Client.type

Tool.support...CLIENT

RTU

NO

INS

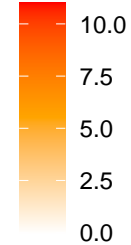
BROWSER

DESKTOP

MOBILE

Client.type

Frequency



11

5

2

2

4

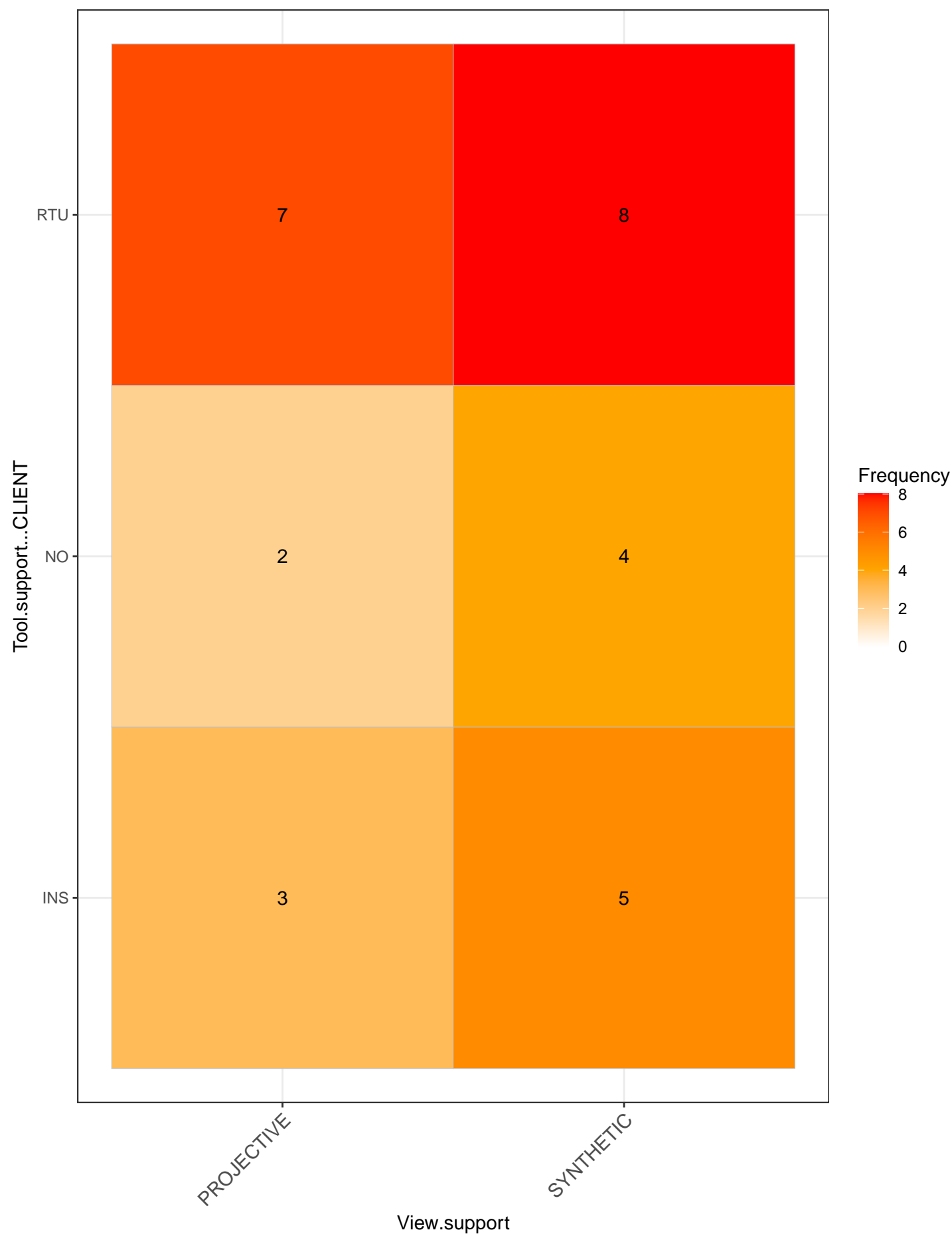
0

1

6

2

Tool.support...CLIENT_____View.support



Tool.support...CLIENT_____Multi.views

Tool.support...CLIENT

RTU

NO

INS

MULTI-USER SINGLE-VIEW

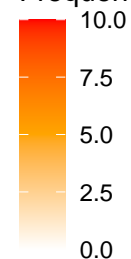
MULTI-VIEW MULTI-MODEL

MULTI-VIEW SINGLE-MODEL

SINGLE-VIEW MULTI-MODEL

Multi.views

Frequency



10

2

4

0

3

2

0

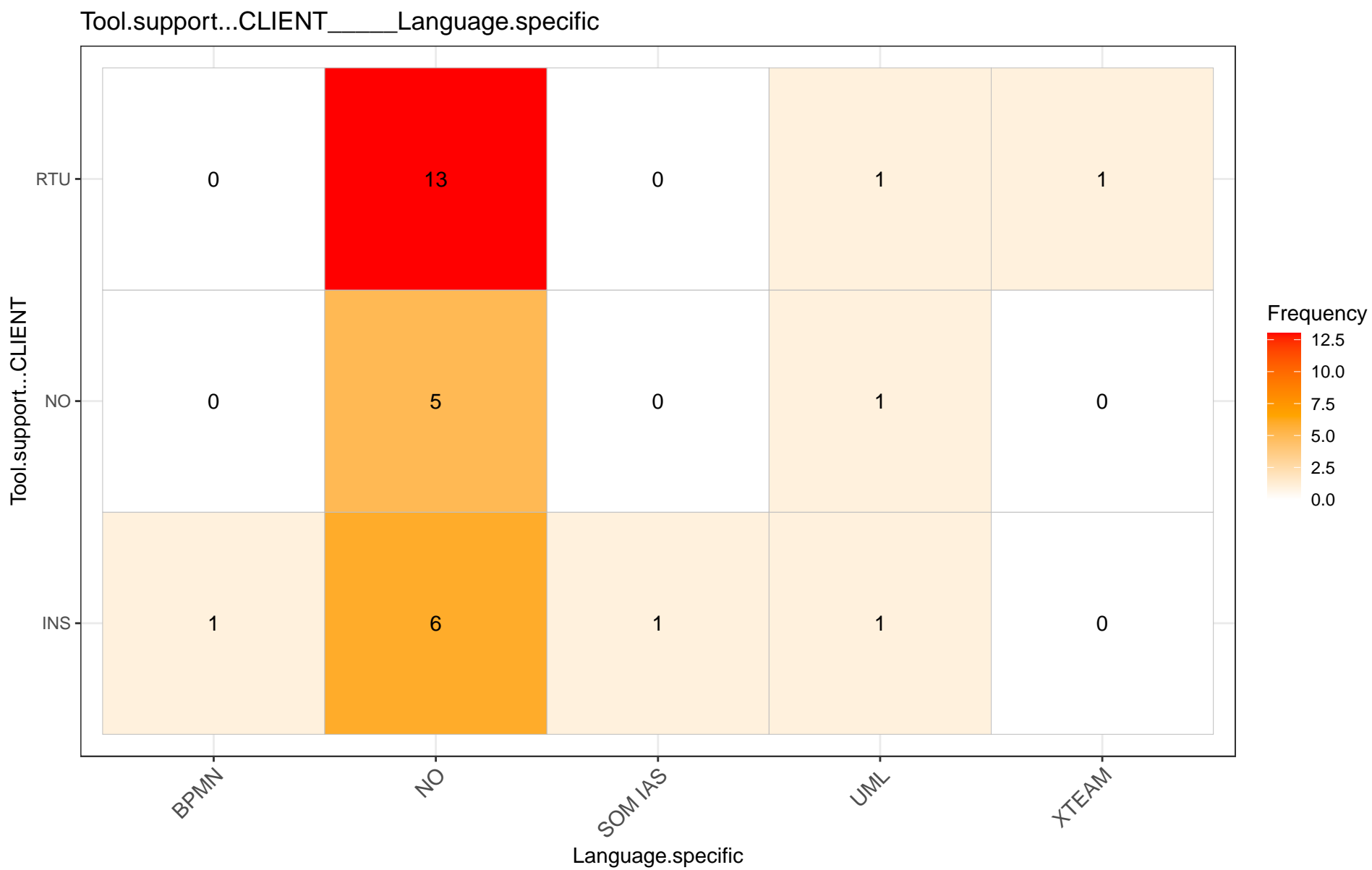
1

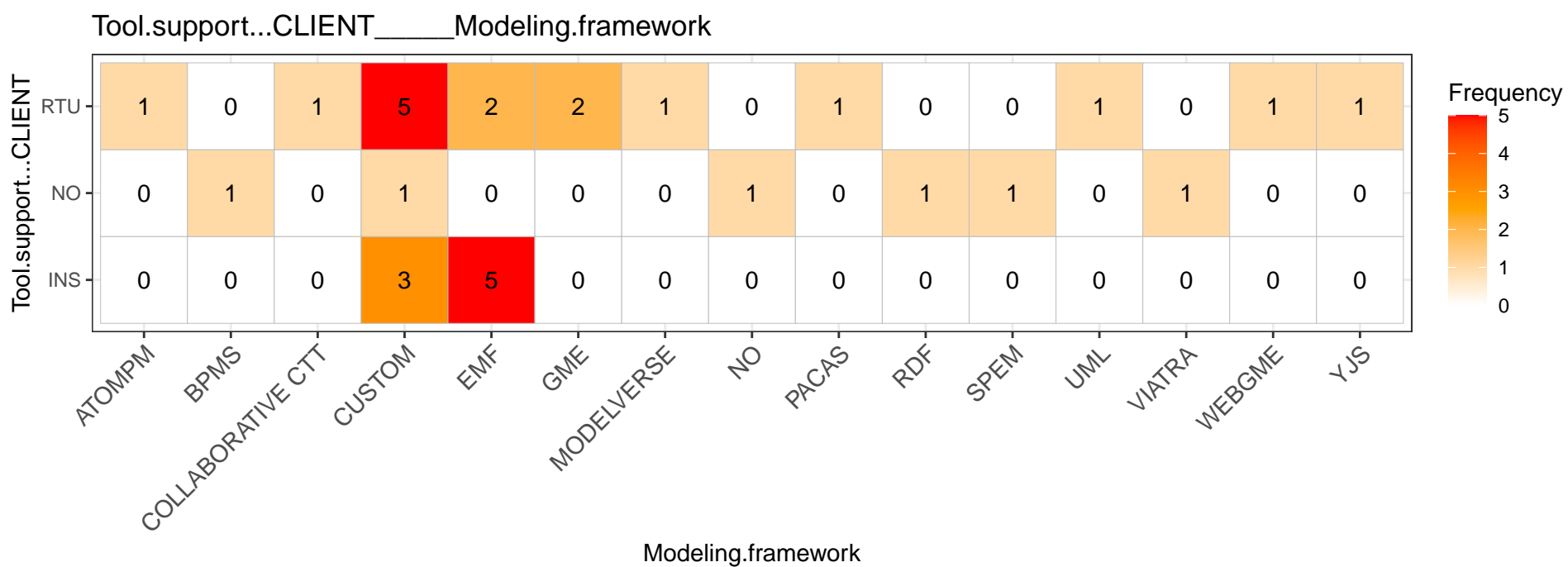
6

1

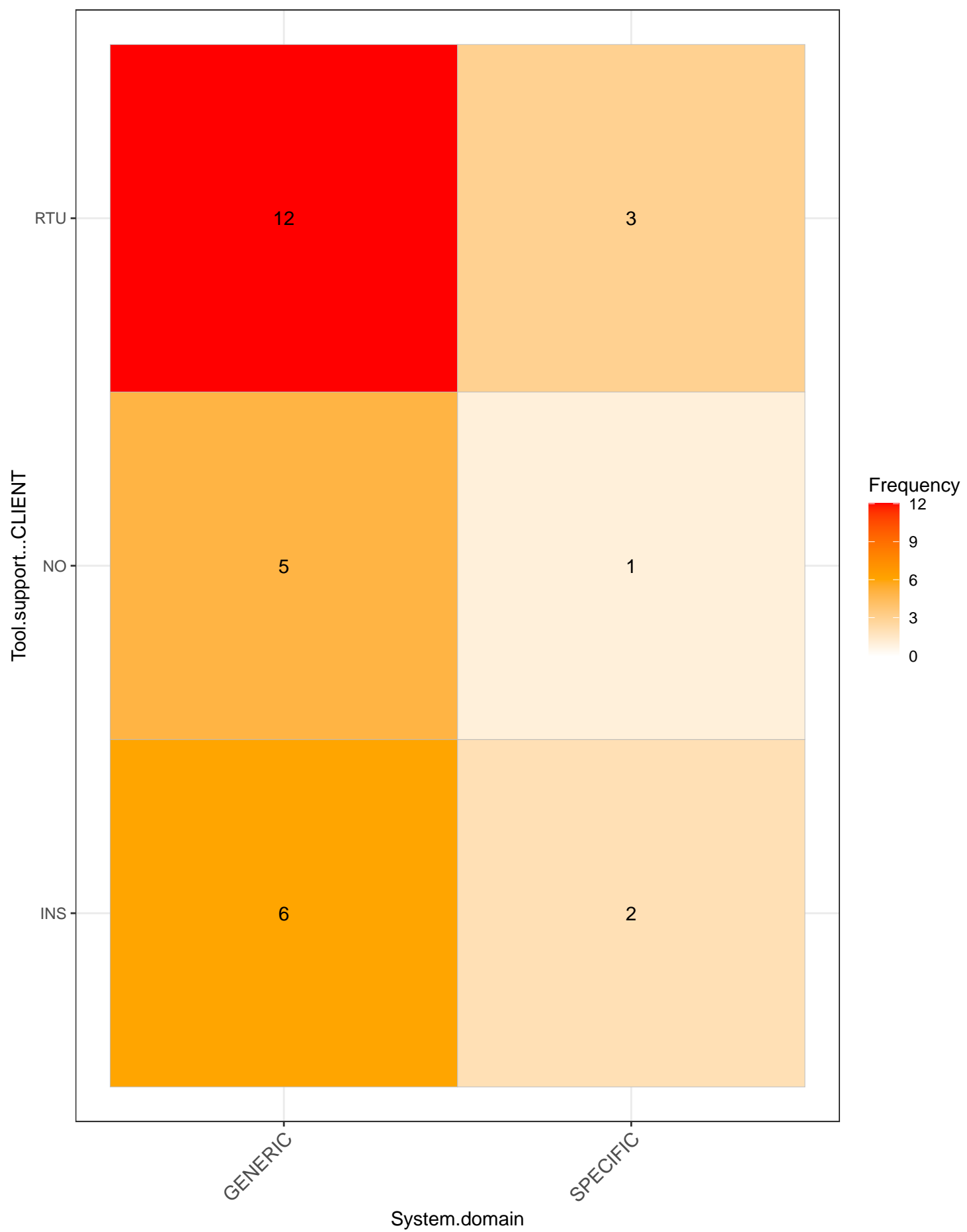
1

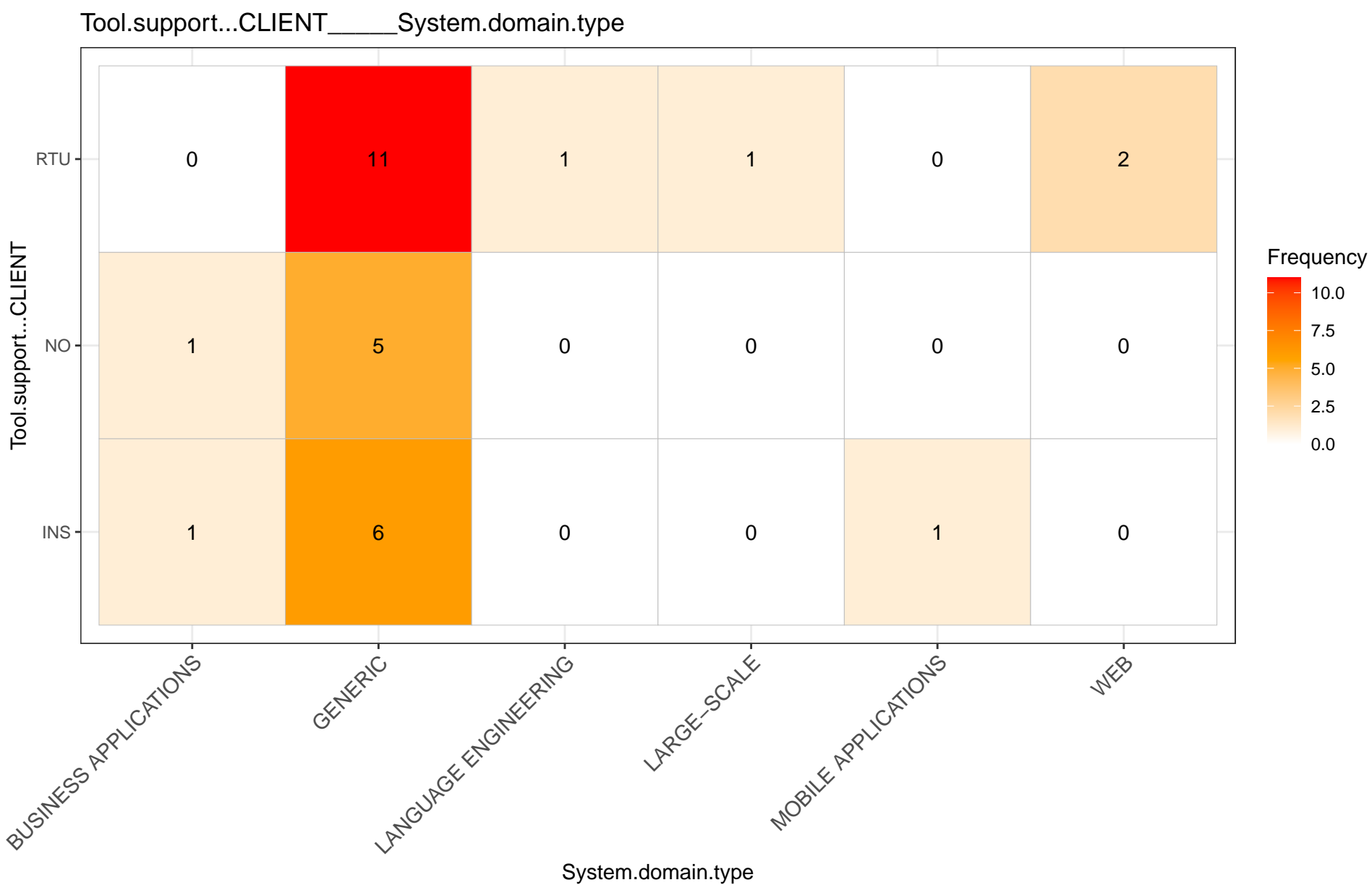
0

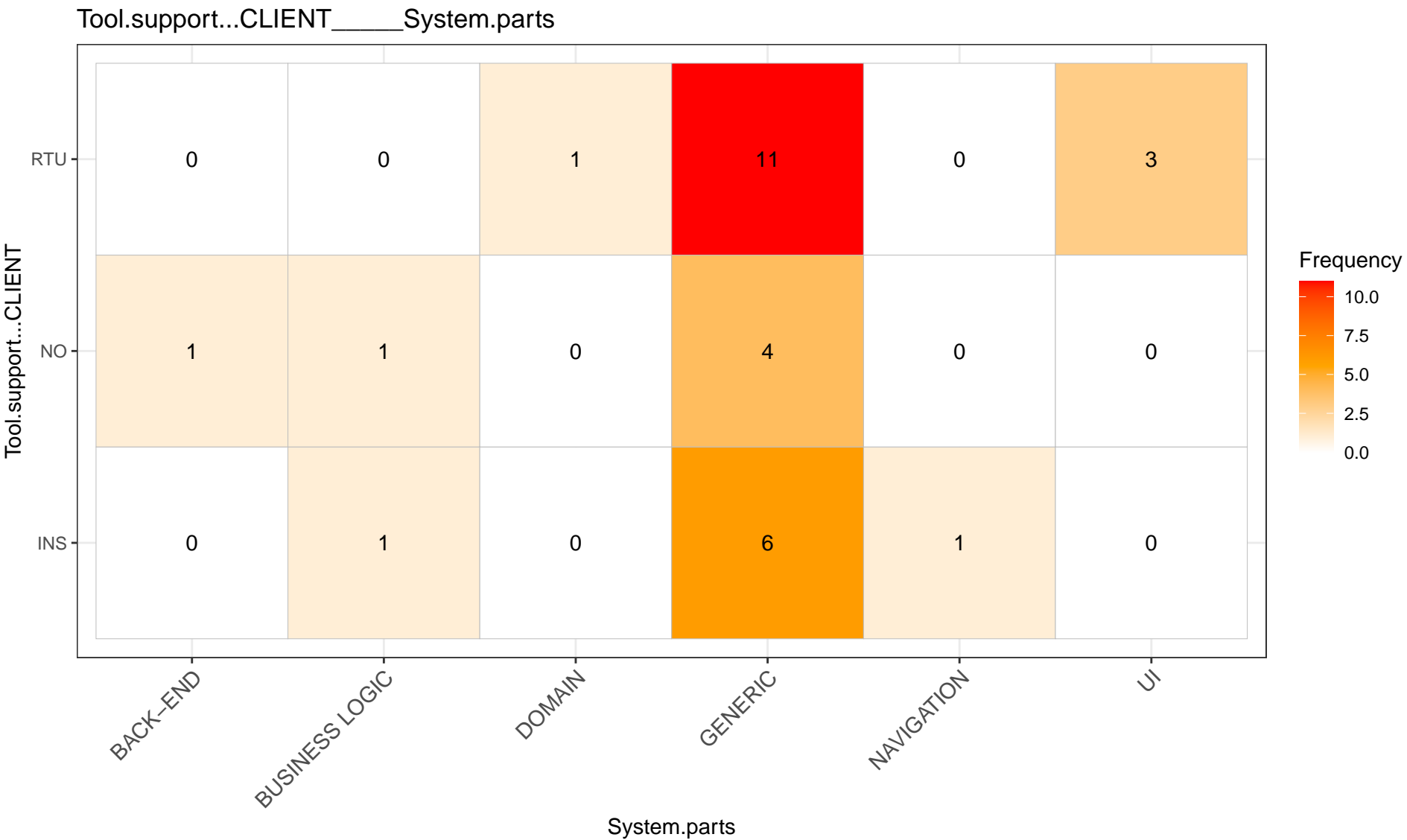


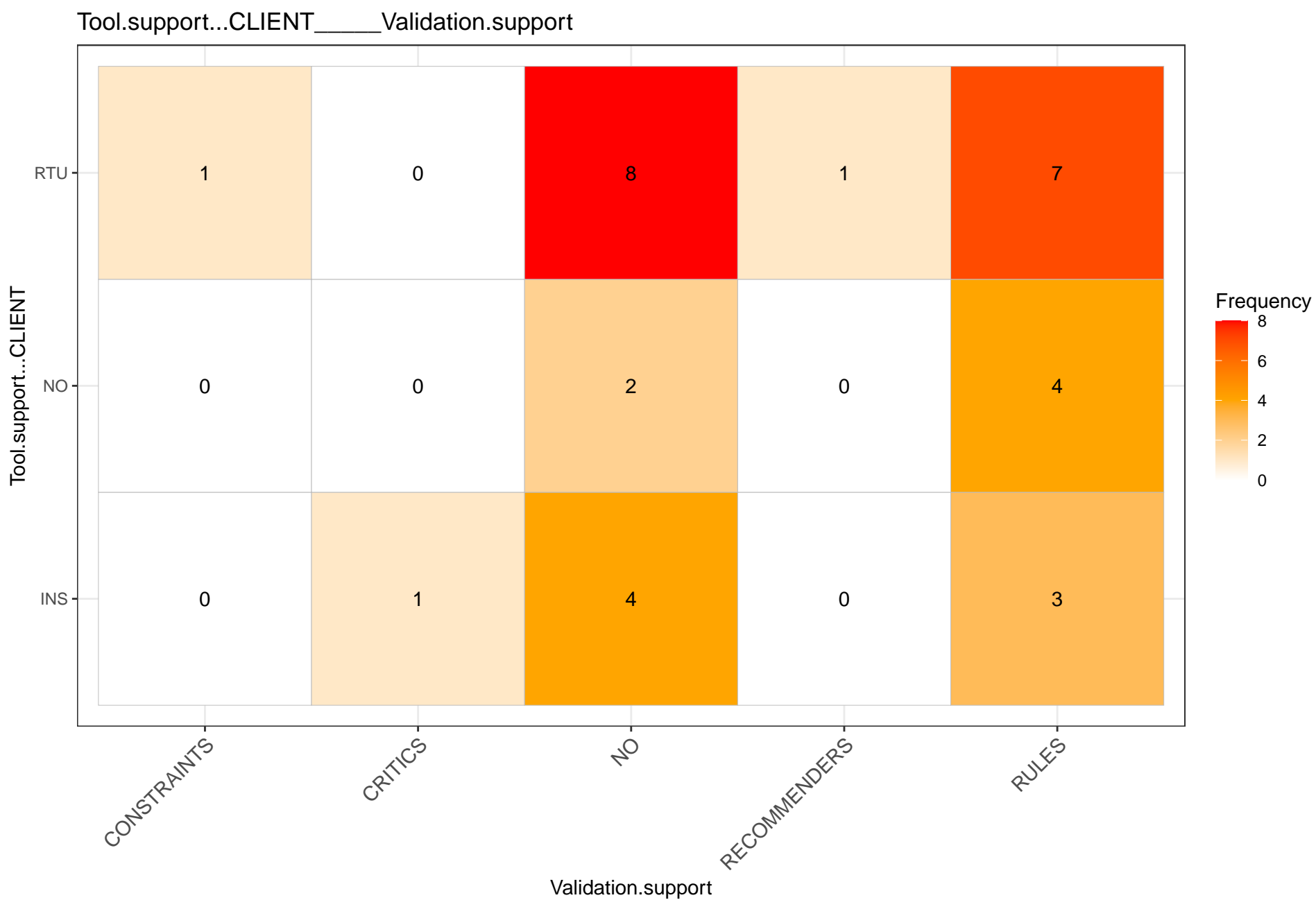


Tool.support...CLIENT_____System.domain

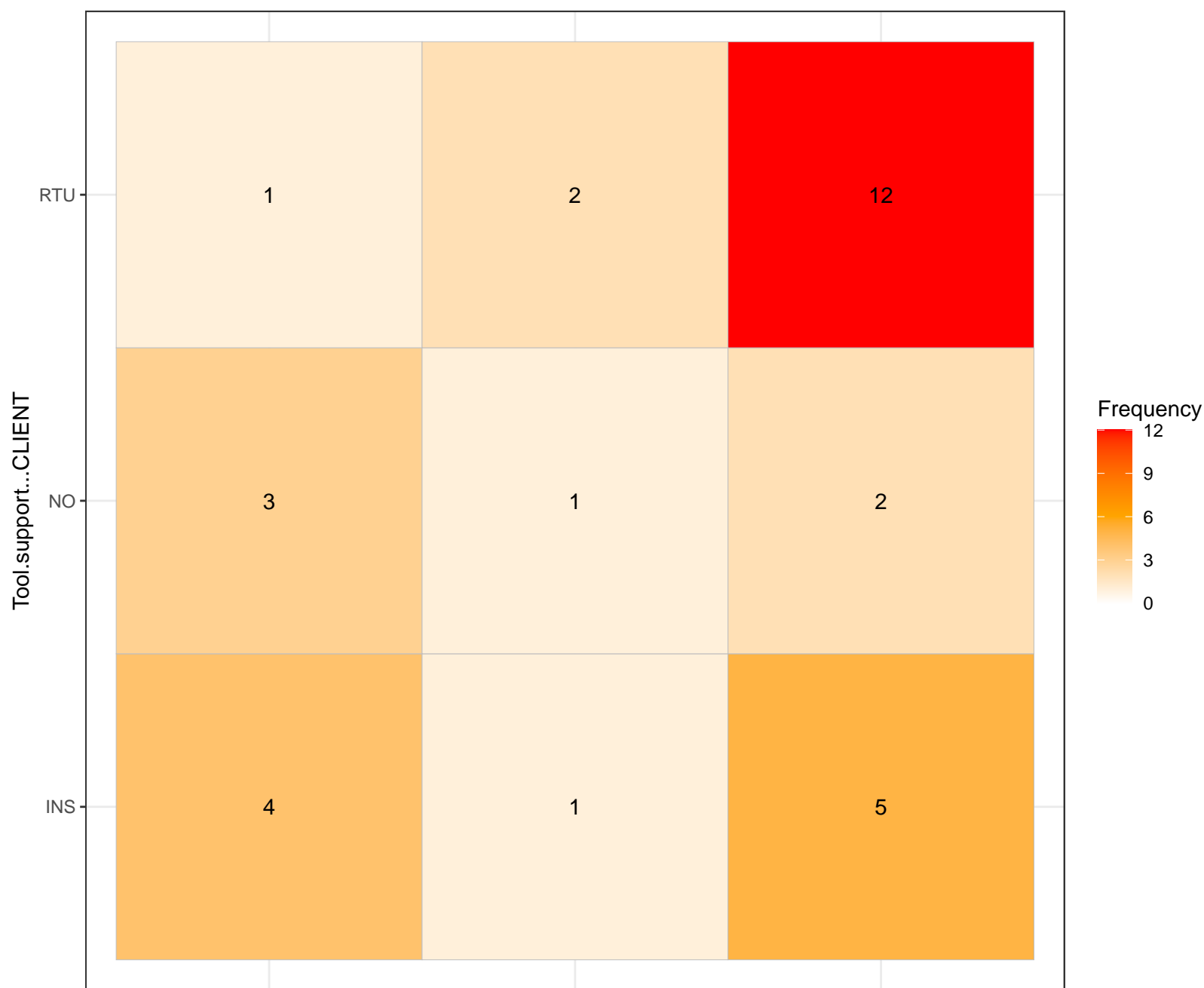








Tool.support...CLIENT_____Collaboration.types



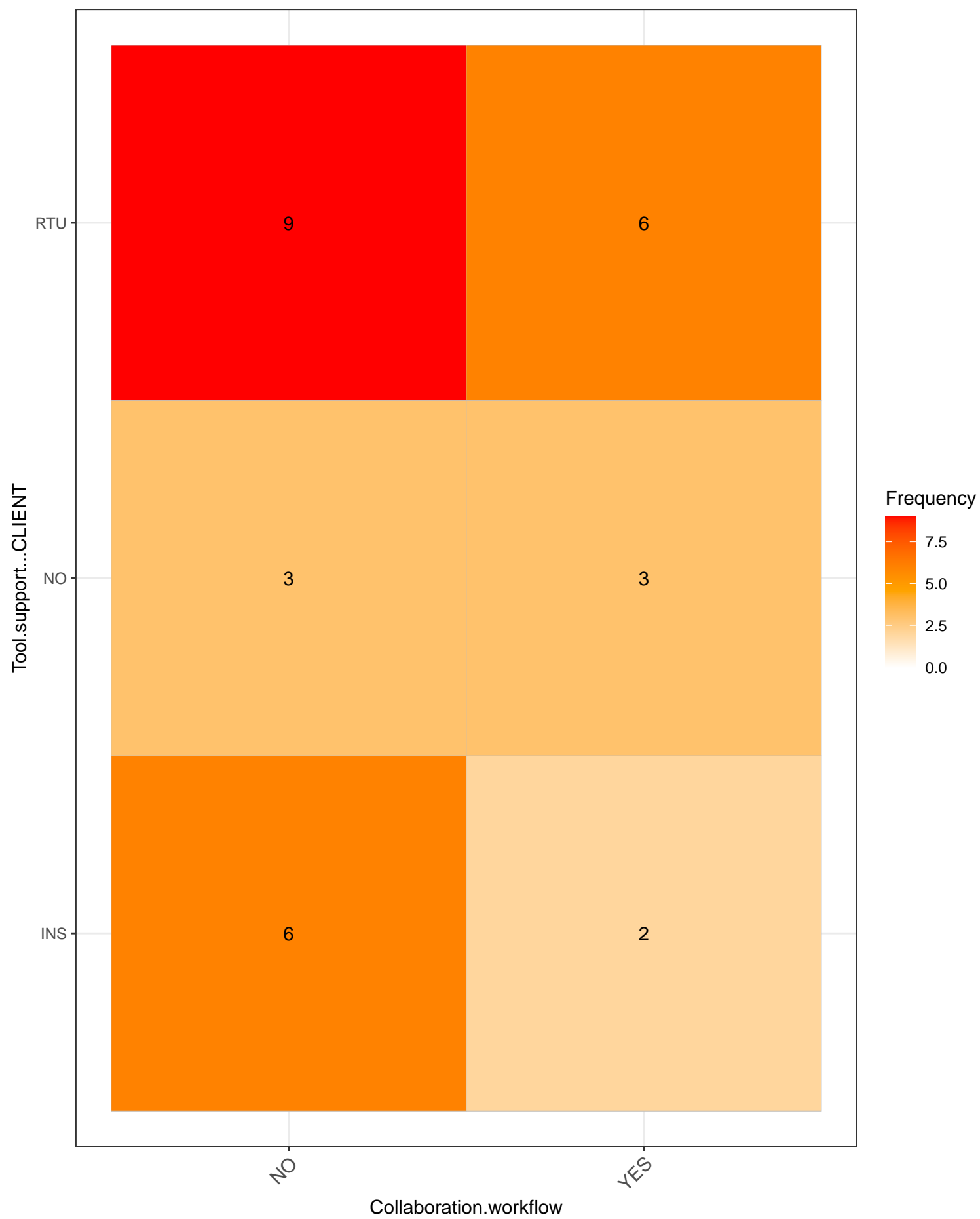
OFF-LINE AUTOMATED CHANGE PROPAGATION

OFF-LINE MANUAL CHANGE PROPAGATION

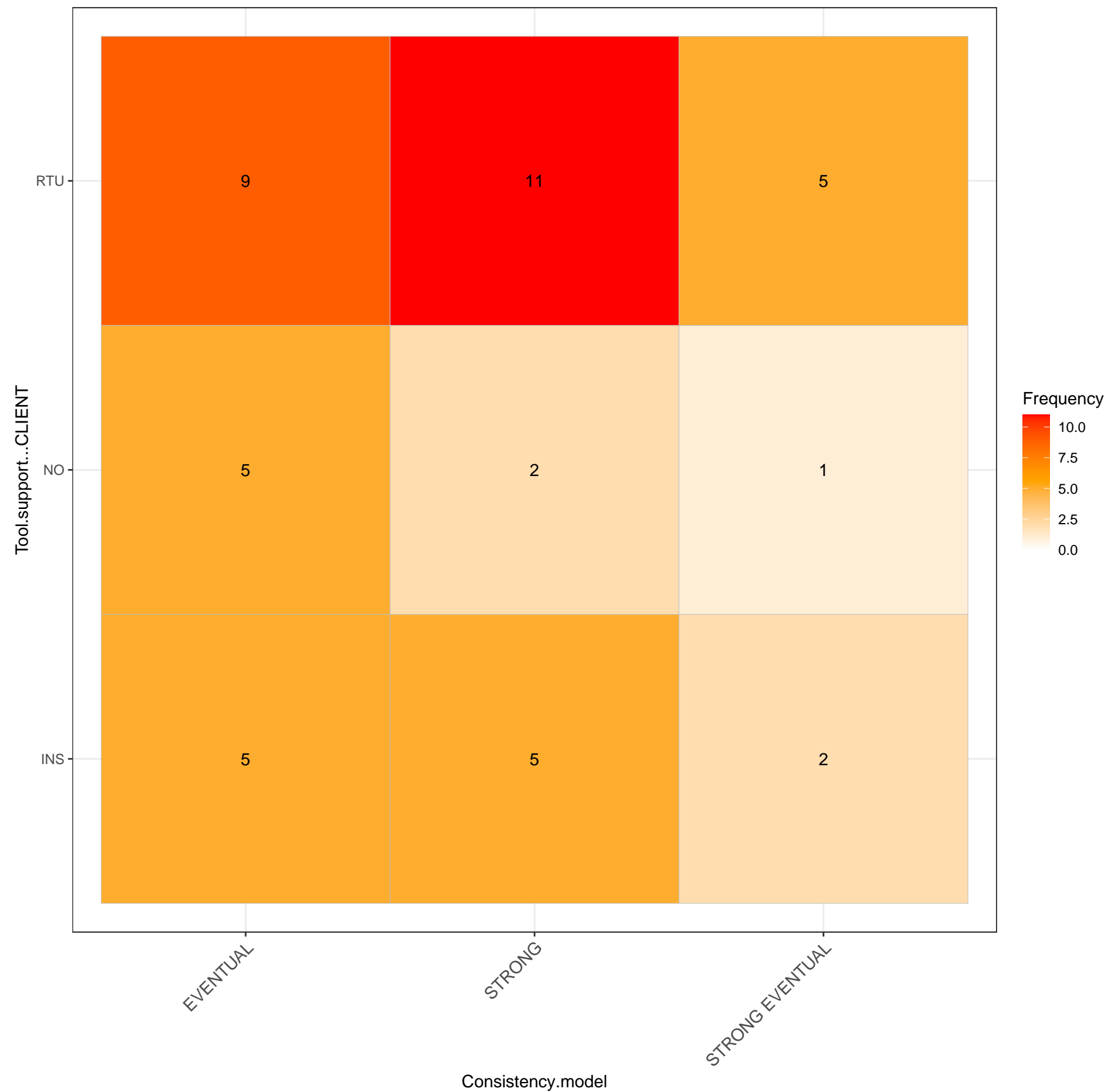
REAL-TIME

Collaboration.types

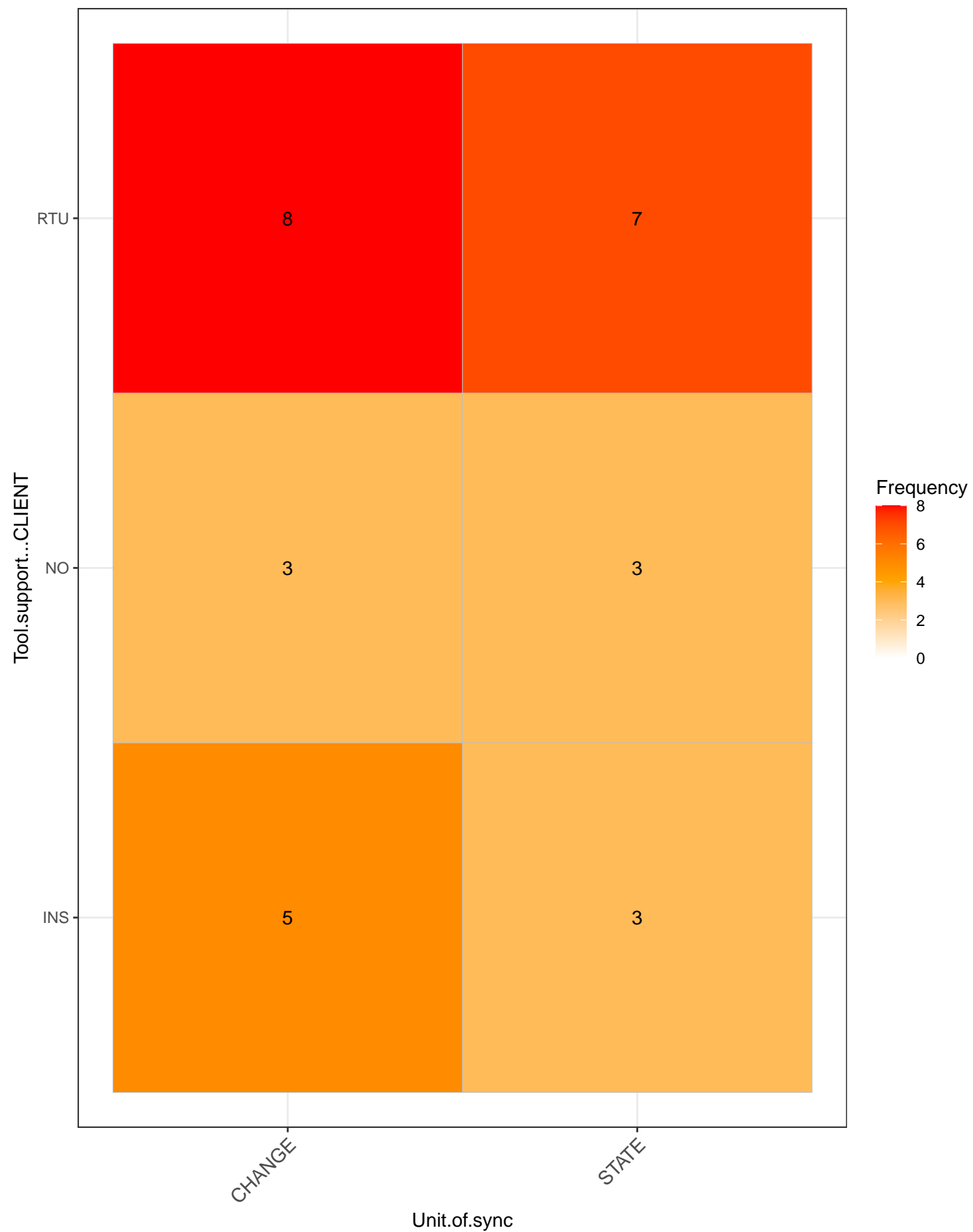
Tool.support...CLIENT _____ Collaboration.workflow



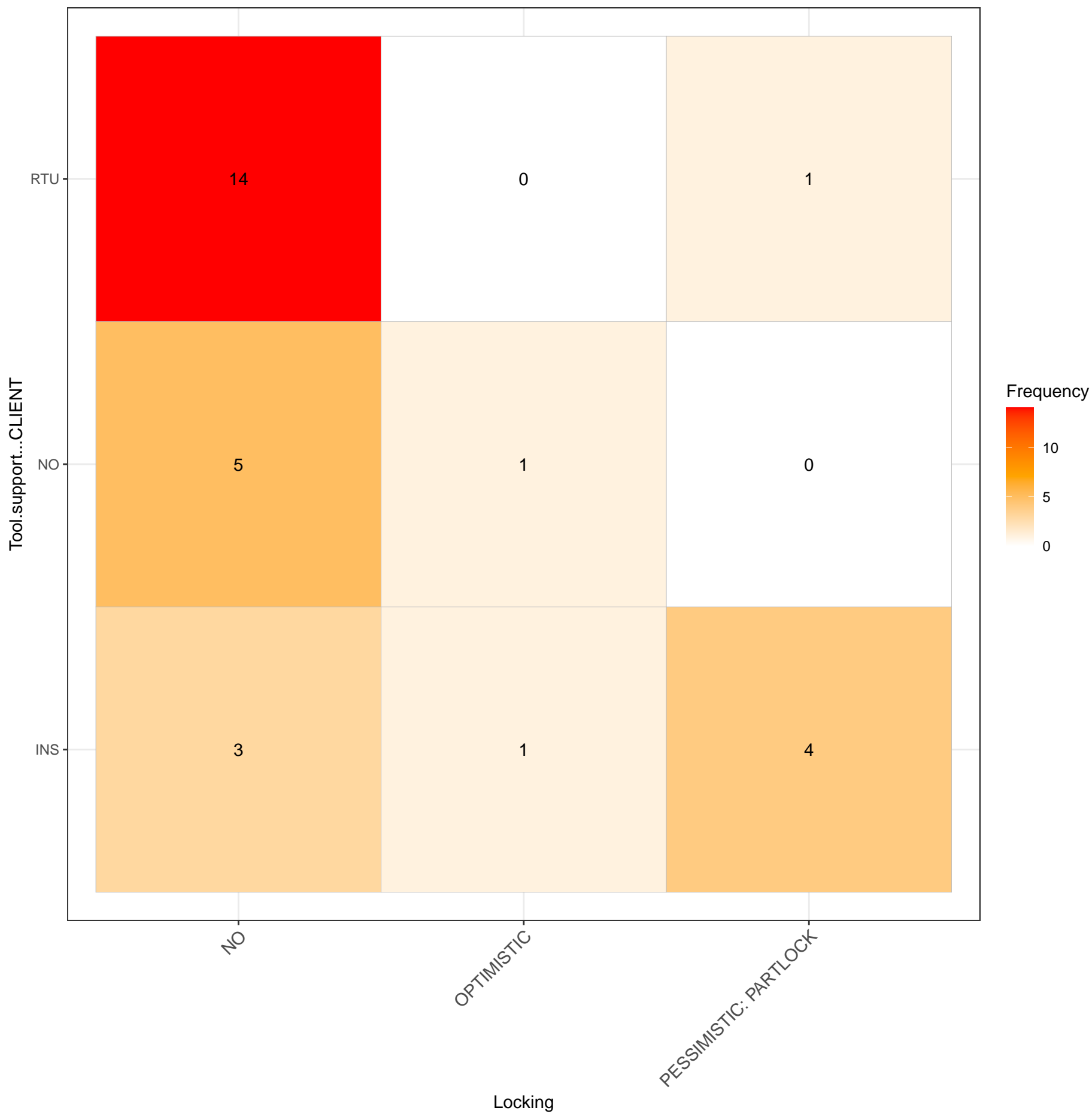
Tool.support...CLIENT_____Consistency.model

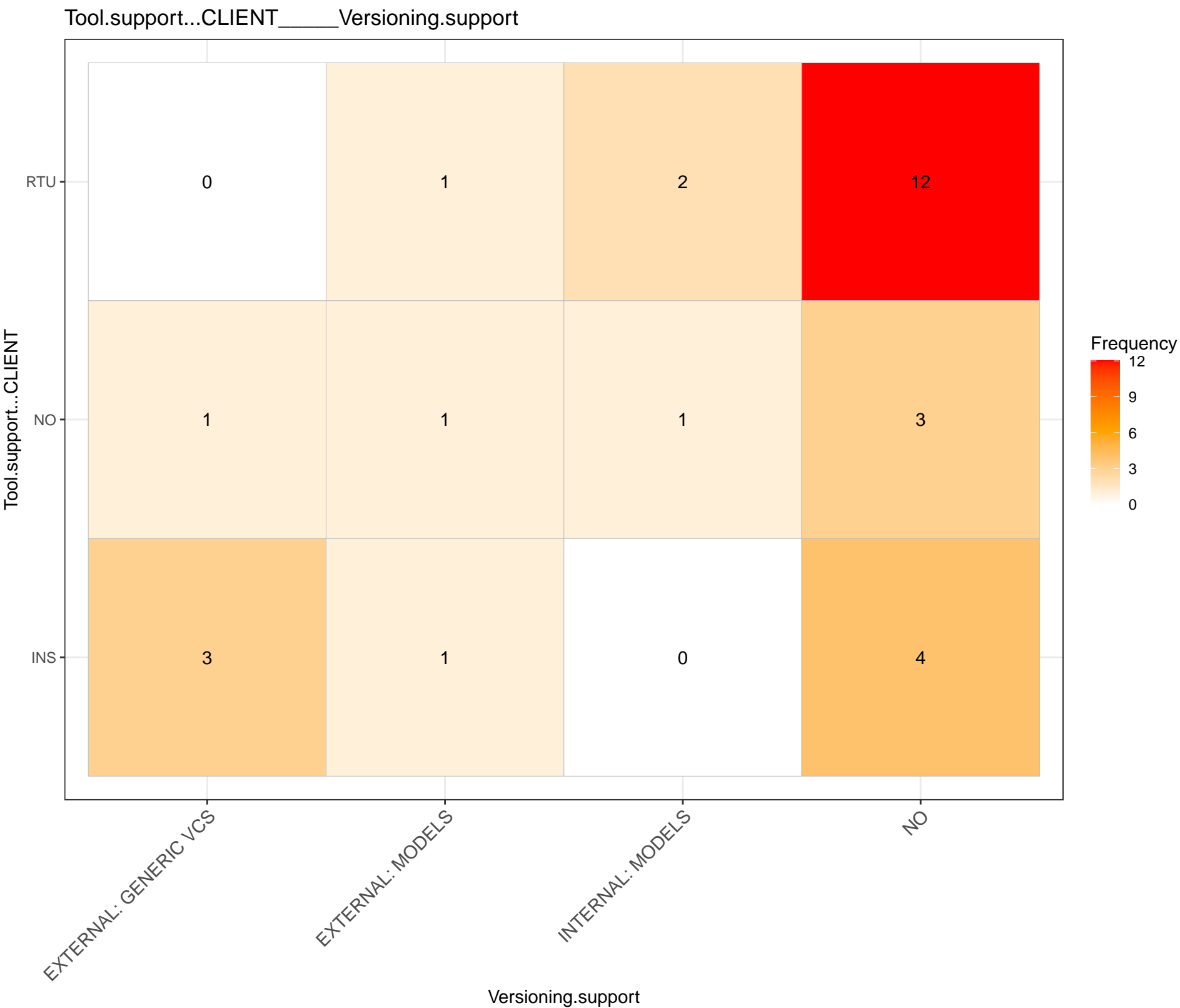


Tool.support...CLIENT_____Unit.of.sync



Tool.support...CLIENT_____Locking





Tool.support...CLIENT_____VCS.architecture

Tool.support...CLIENT

RTU

NO

INS

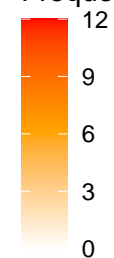
CENTRALIZED

DISTRIBUTED

N/A

VCS.architecture

Frequency



3

0

12

2

1

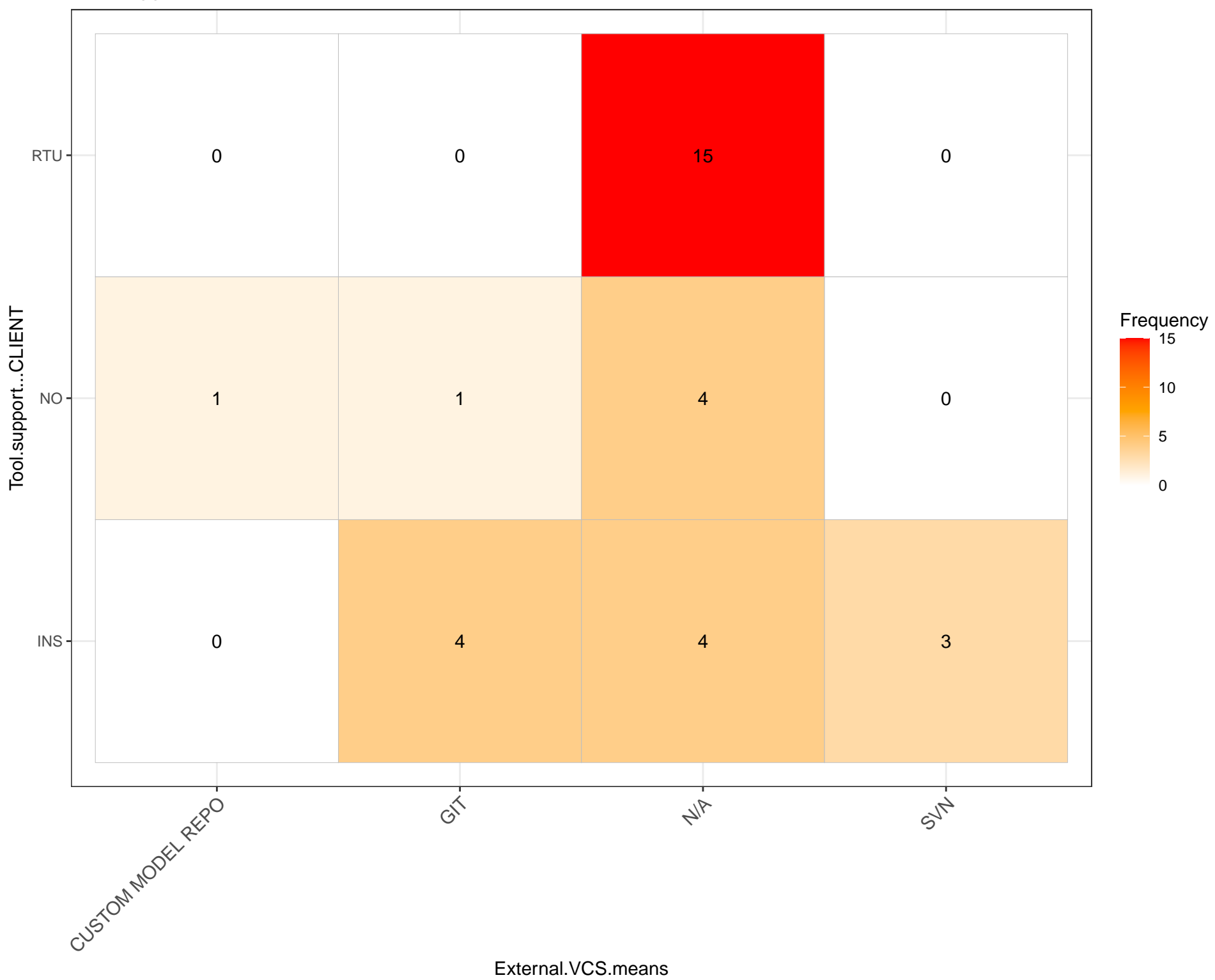
3

2

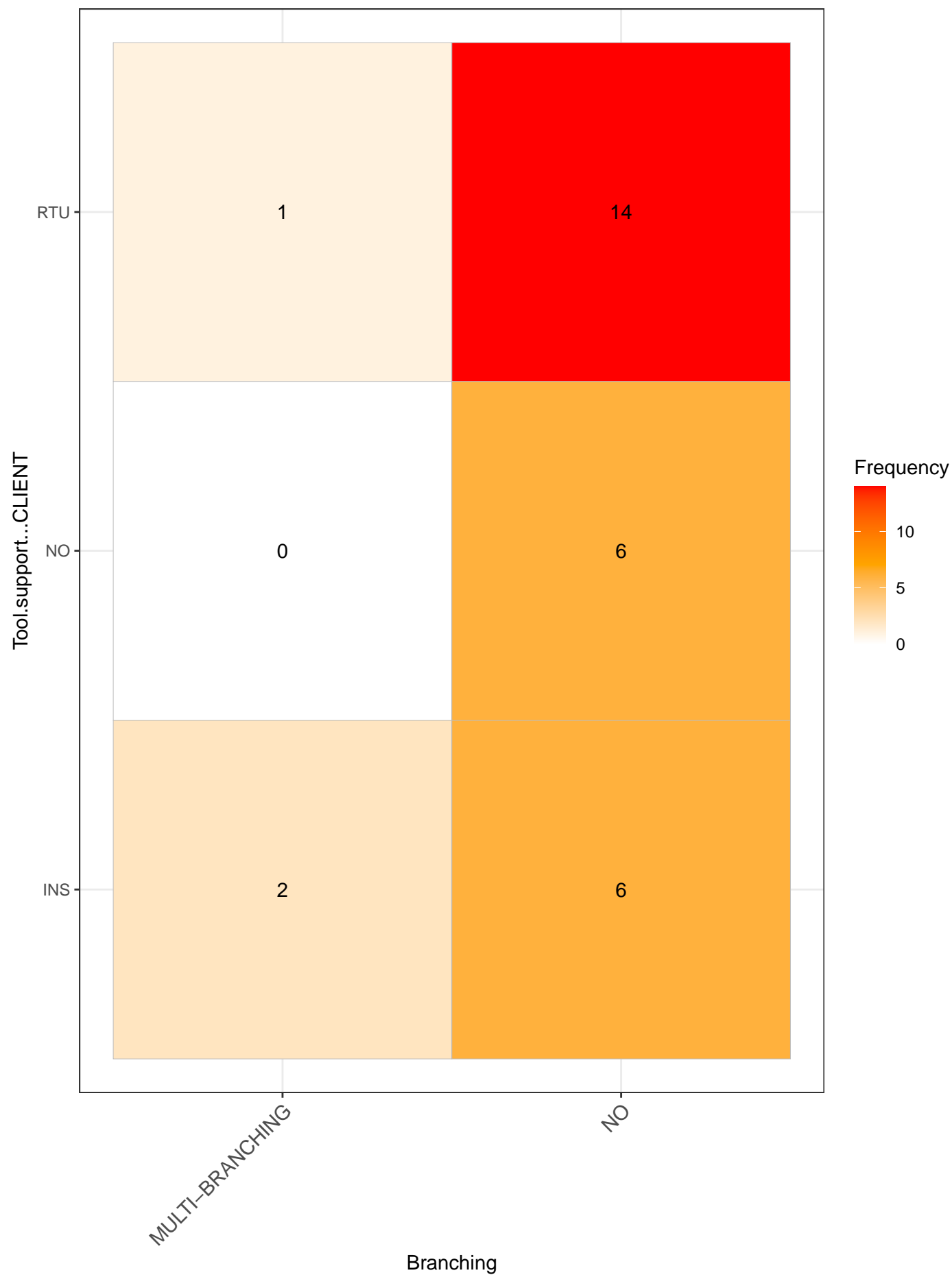
2

4

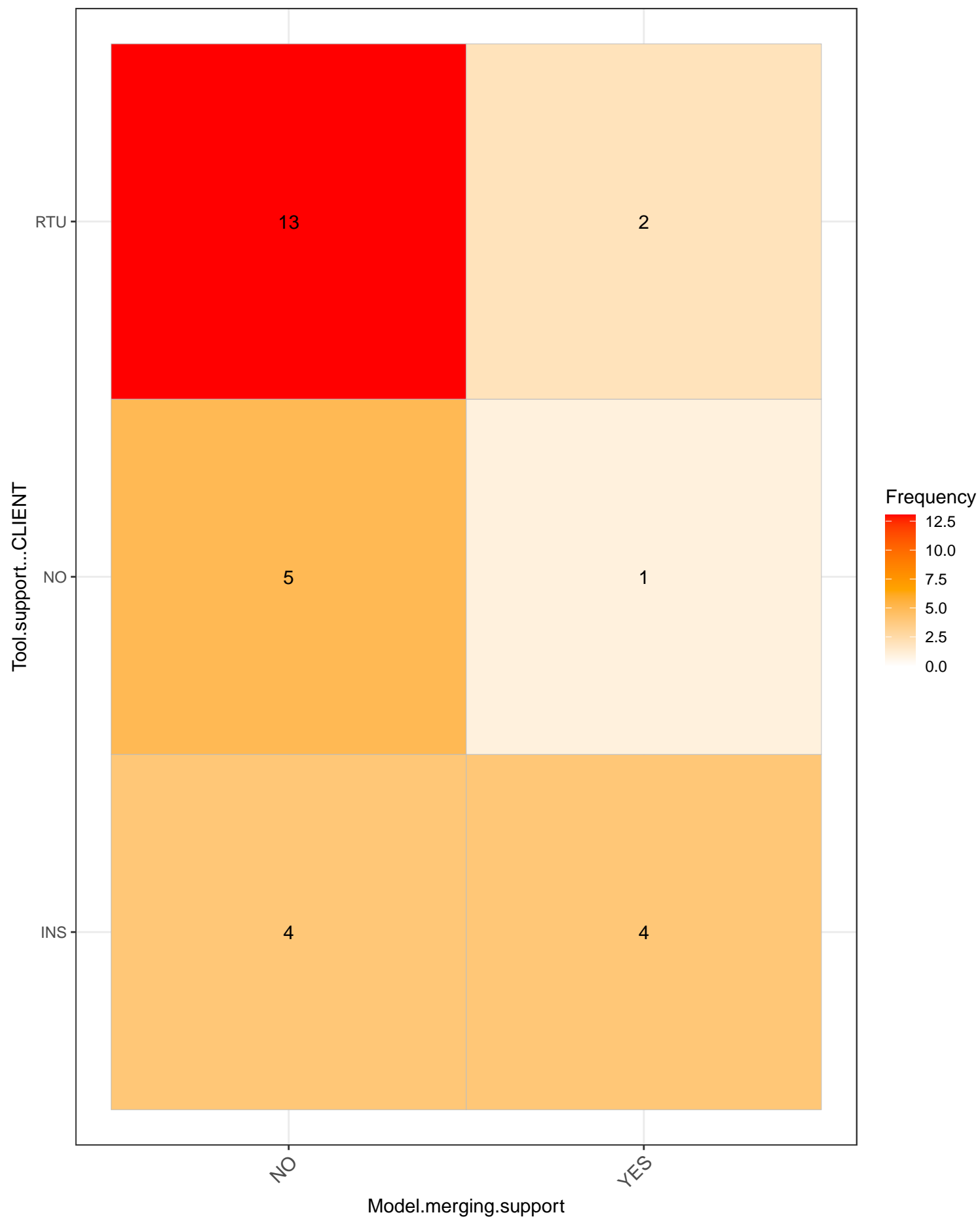
Tool.support...CLIENT_____External.VCS.means



Tool.support...CLIENT_____Branching



Tool.support...CLIENT_____Model.merging.support



Tool.support...CLIENT_____Diff.merge.domain

Tool.support...CLIENT

RTU

NO

INS

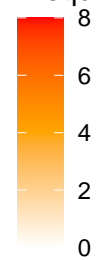
N/A

SEMANTIC

SYNTACTIC

Diff.merge.domain

Frequency



4

3

8

1

2

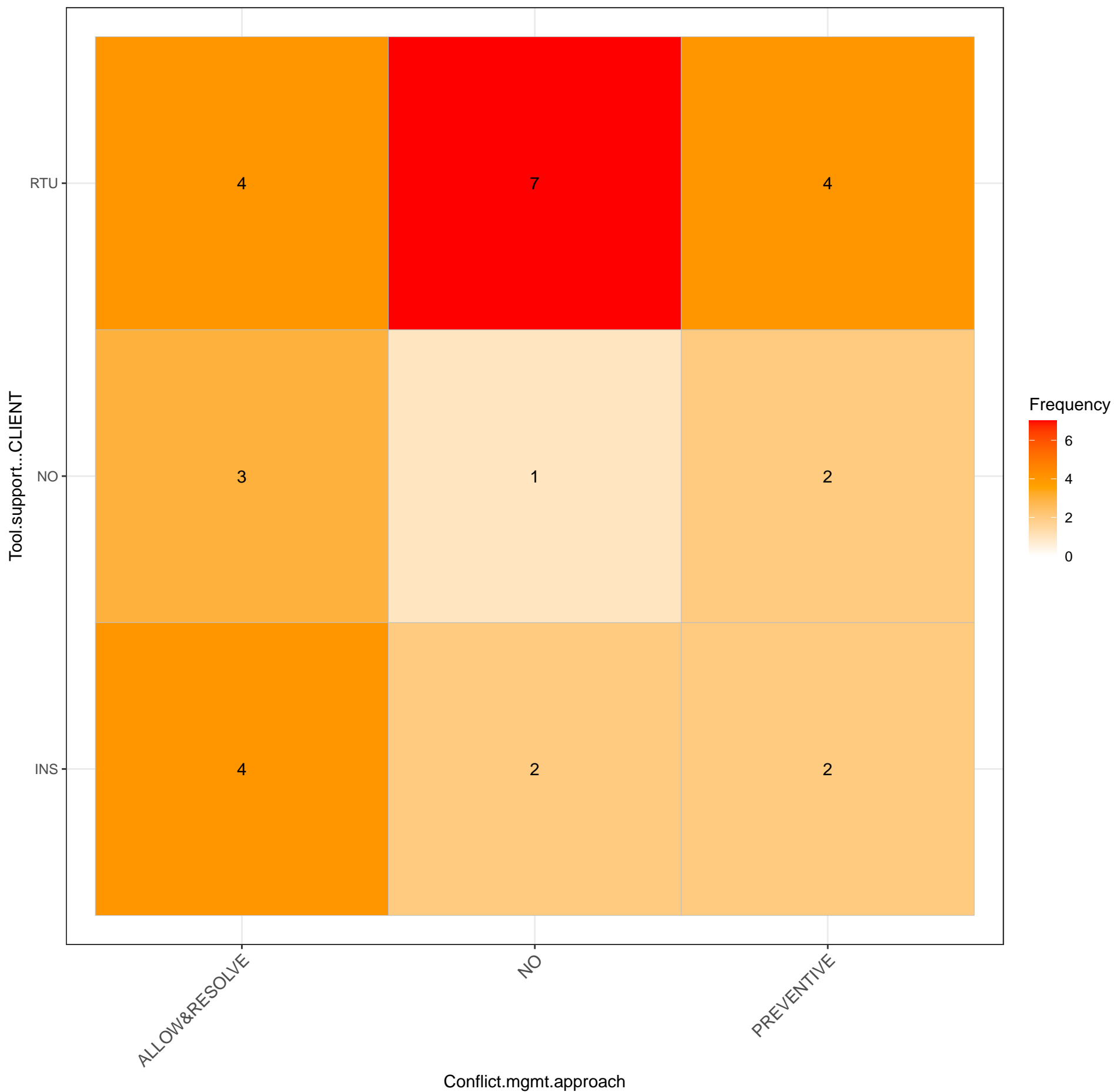
3

2

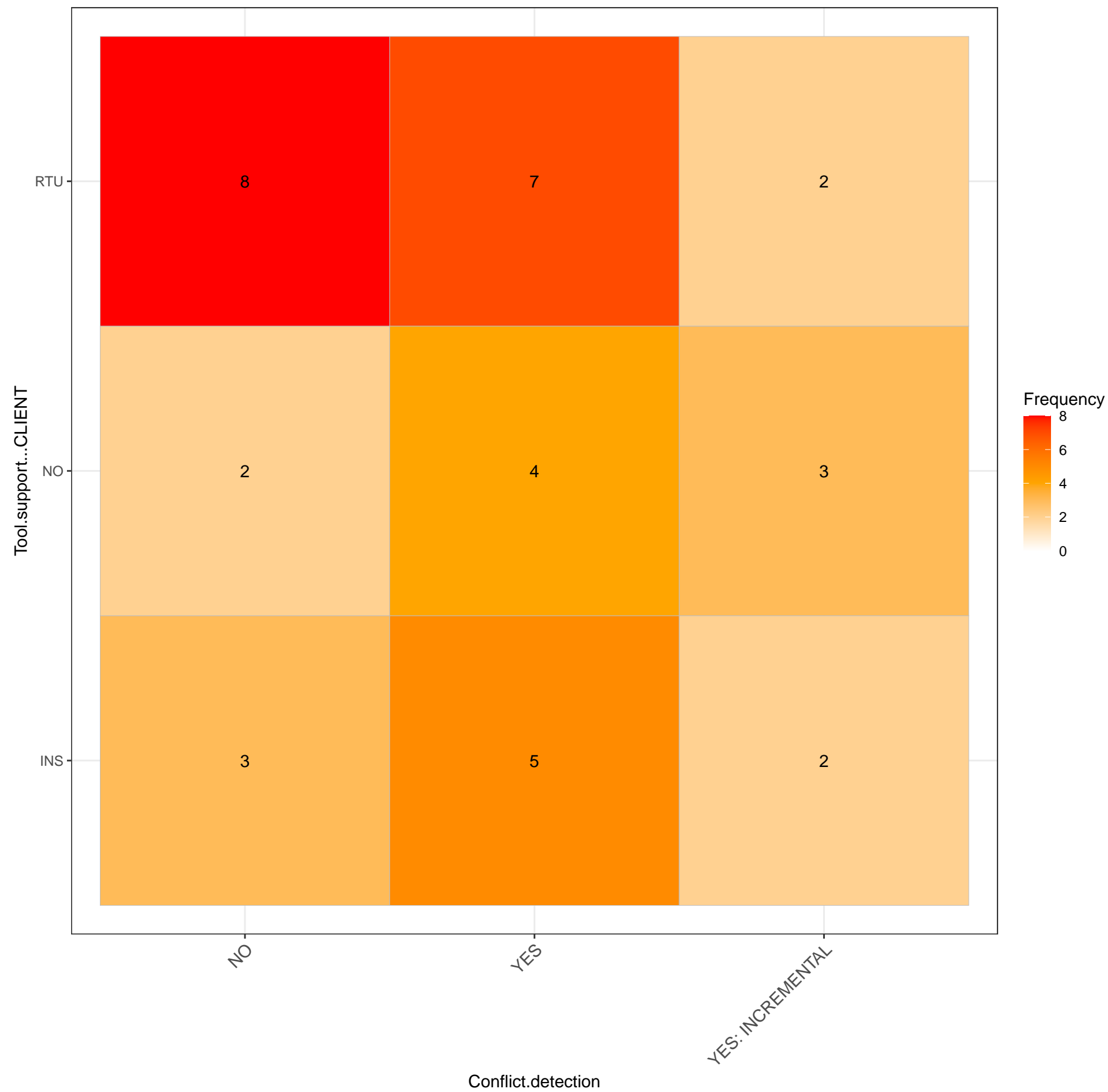
0

6

Tool.support...CLIENT_____Conflict.mgmt.approach



Tool.support...CLIENT _____ Conflict.detection



Tool.support...CLIENT_____Conflict.awareness..User.

Tool.support...CLIENT

RTU

NO

INS

NO

PROMPT ACTION

WARNING

Conflict.awareness..User.

Frequency

10.0

7.5

5.0

2.5

0.0

11

1

3

3

1

2

5

0

3

Tool.support...CLIENT_____Conflict.resolution.support

Tool.support...CLIENT

RTU

NO

INS

MANUAL

NO

SEMI-AUTOMATED

Conflict.resolution.support

Frequency

6

4

2

0

3

5

7

4

1

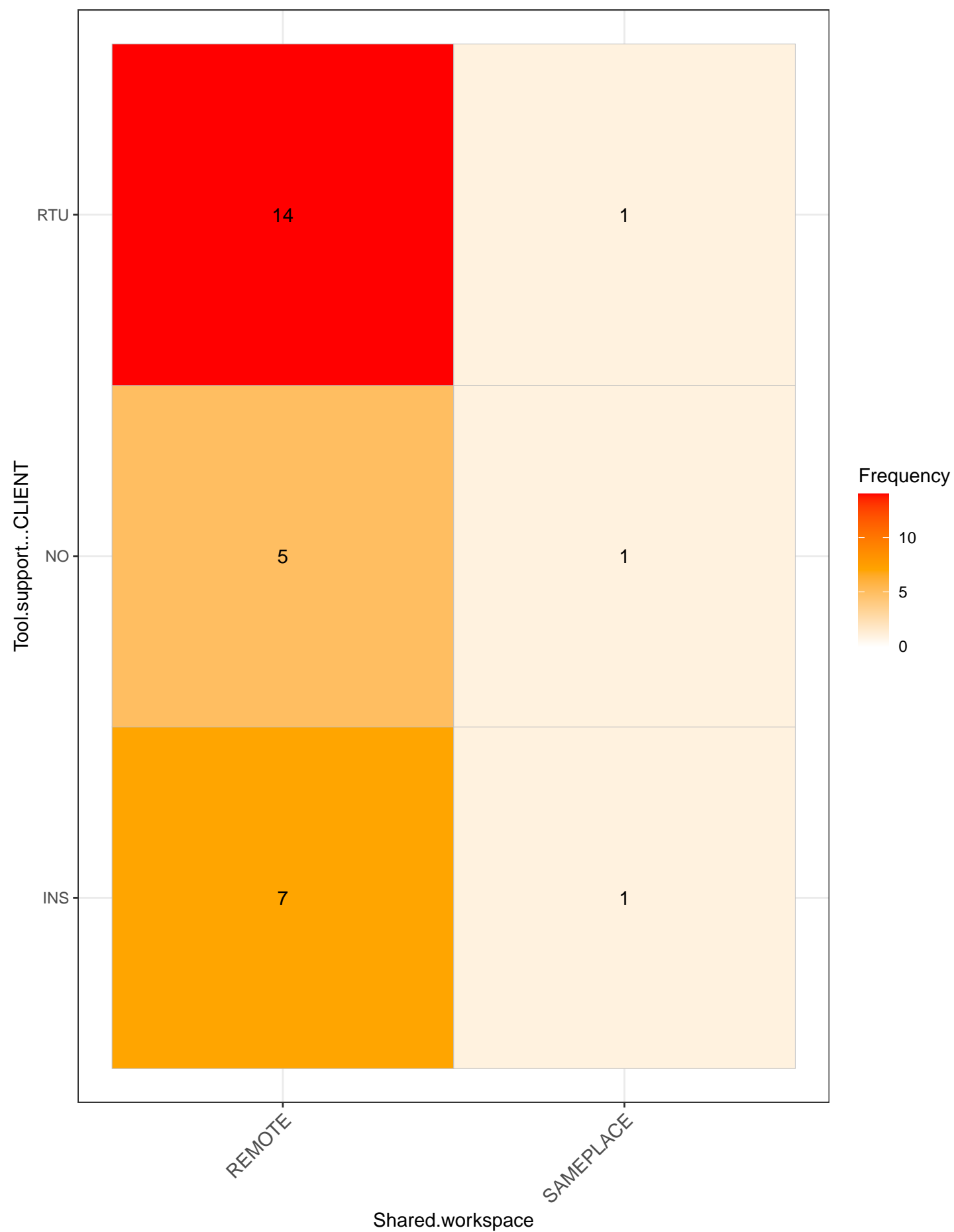
2

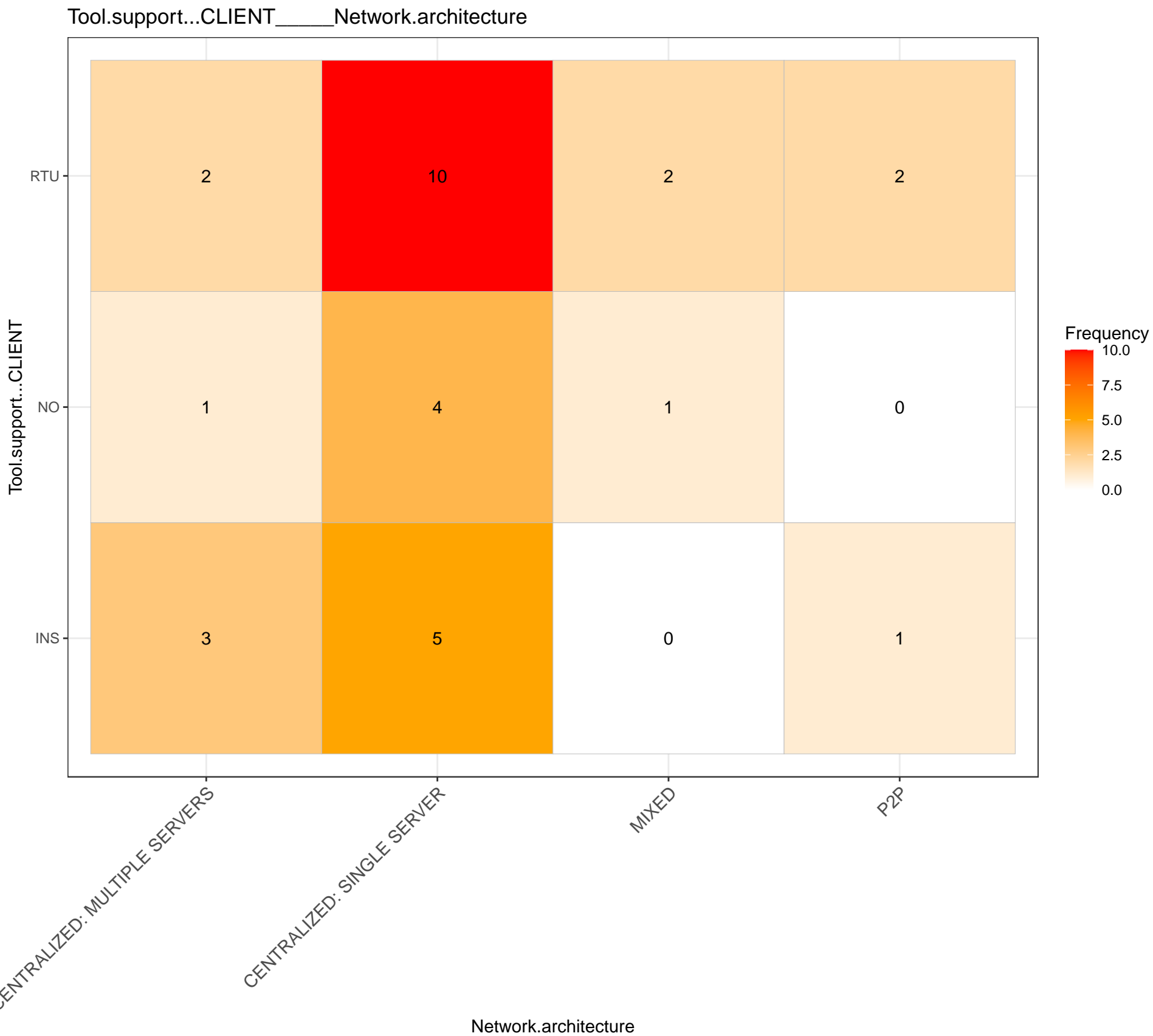
1

3

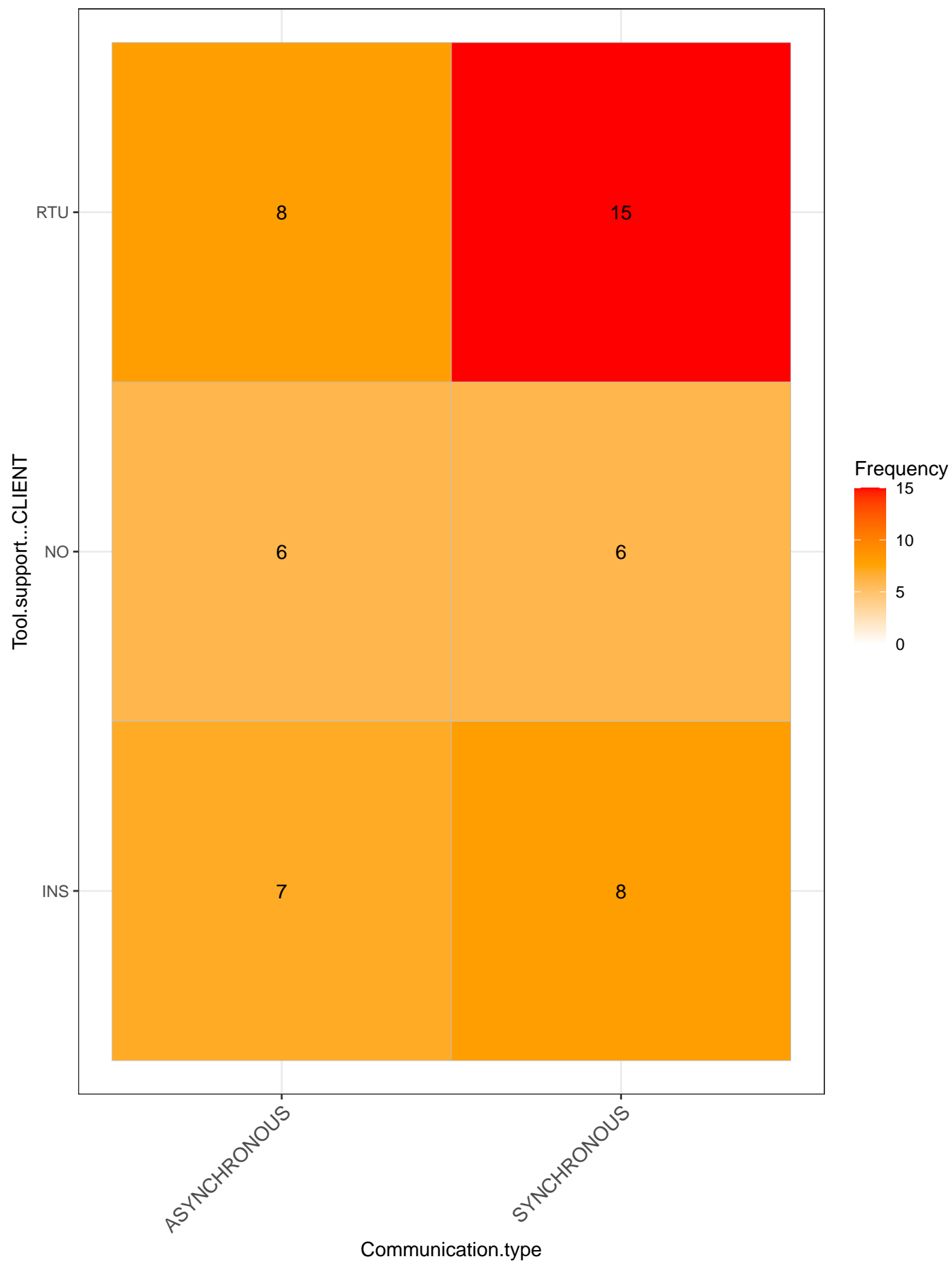
4

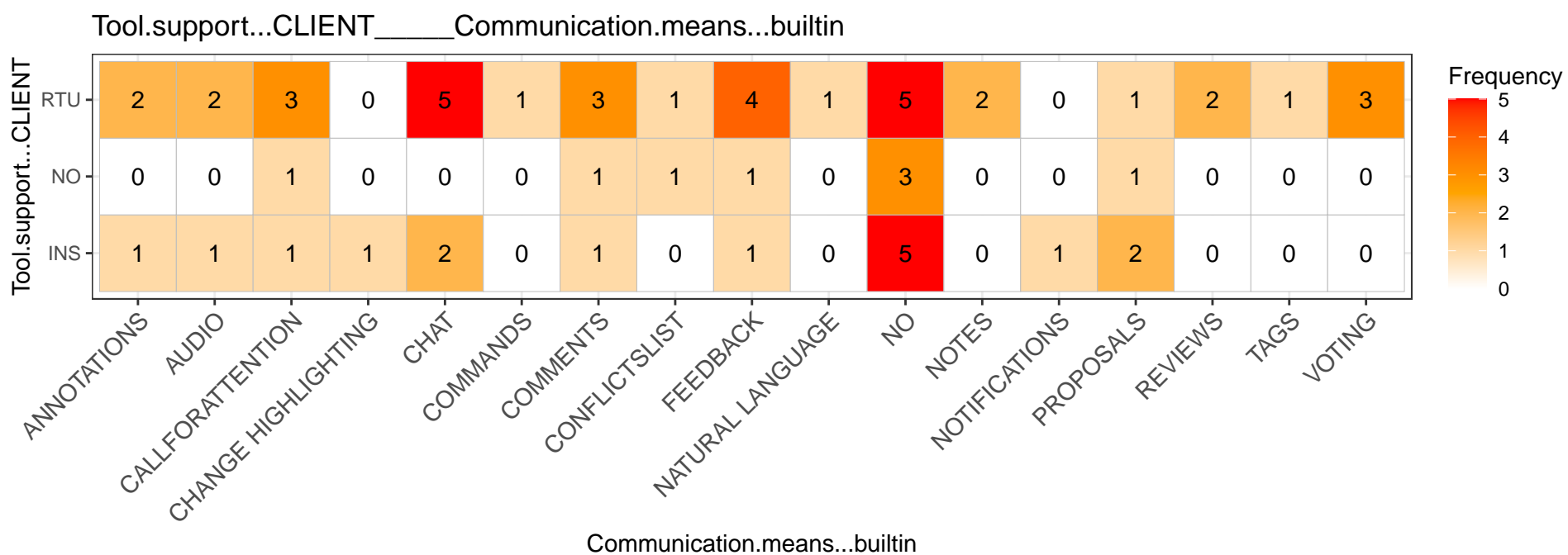
Tool.support...CLIENT_____Shared.workspace

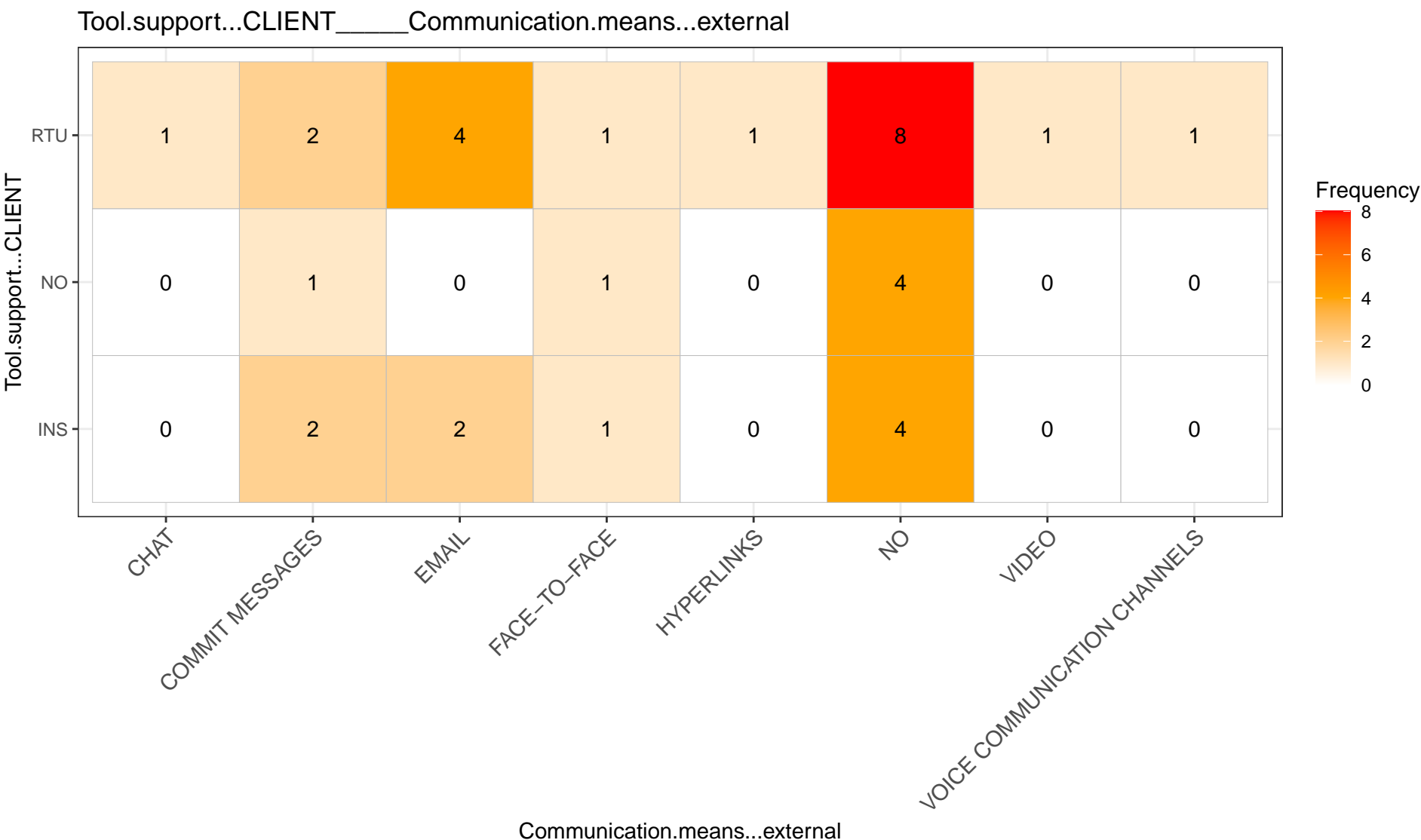




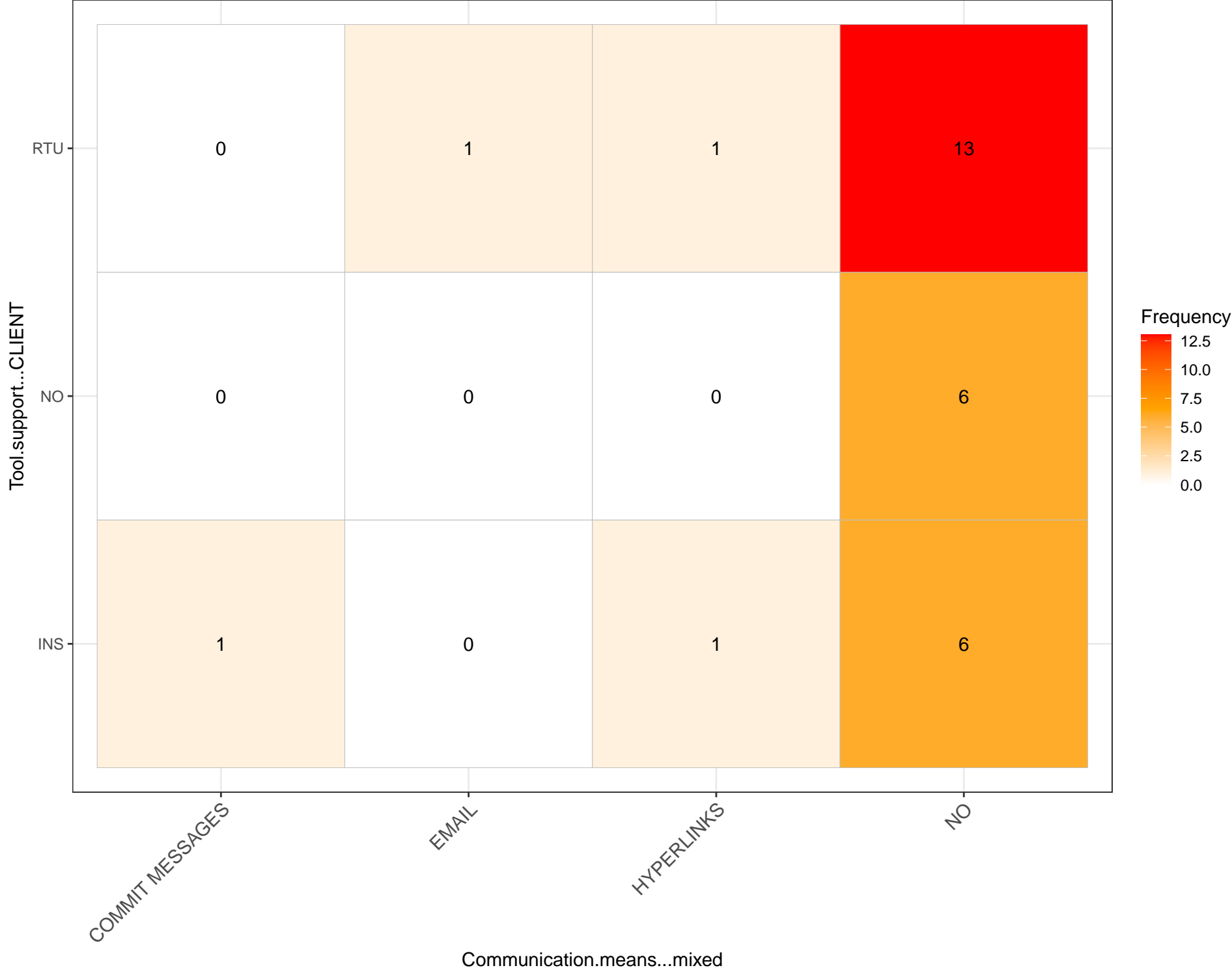
Tool.support...CLIENT_____Communication.type

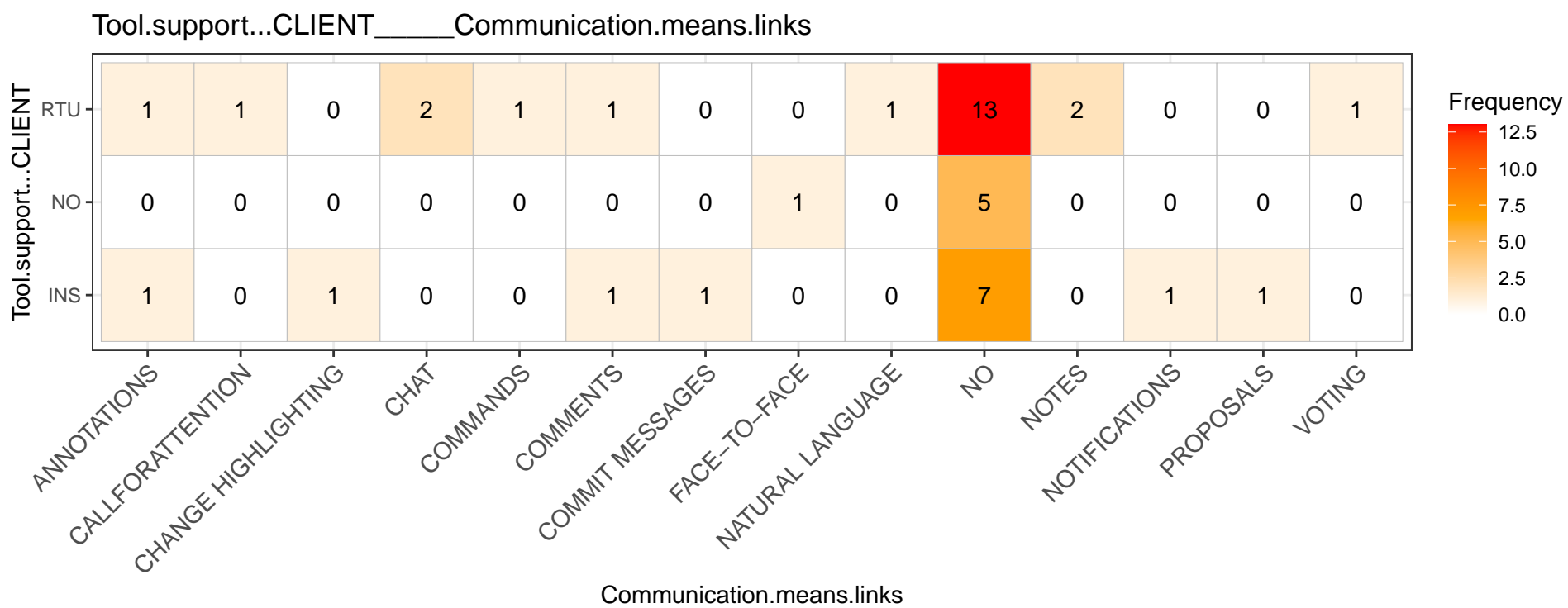


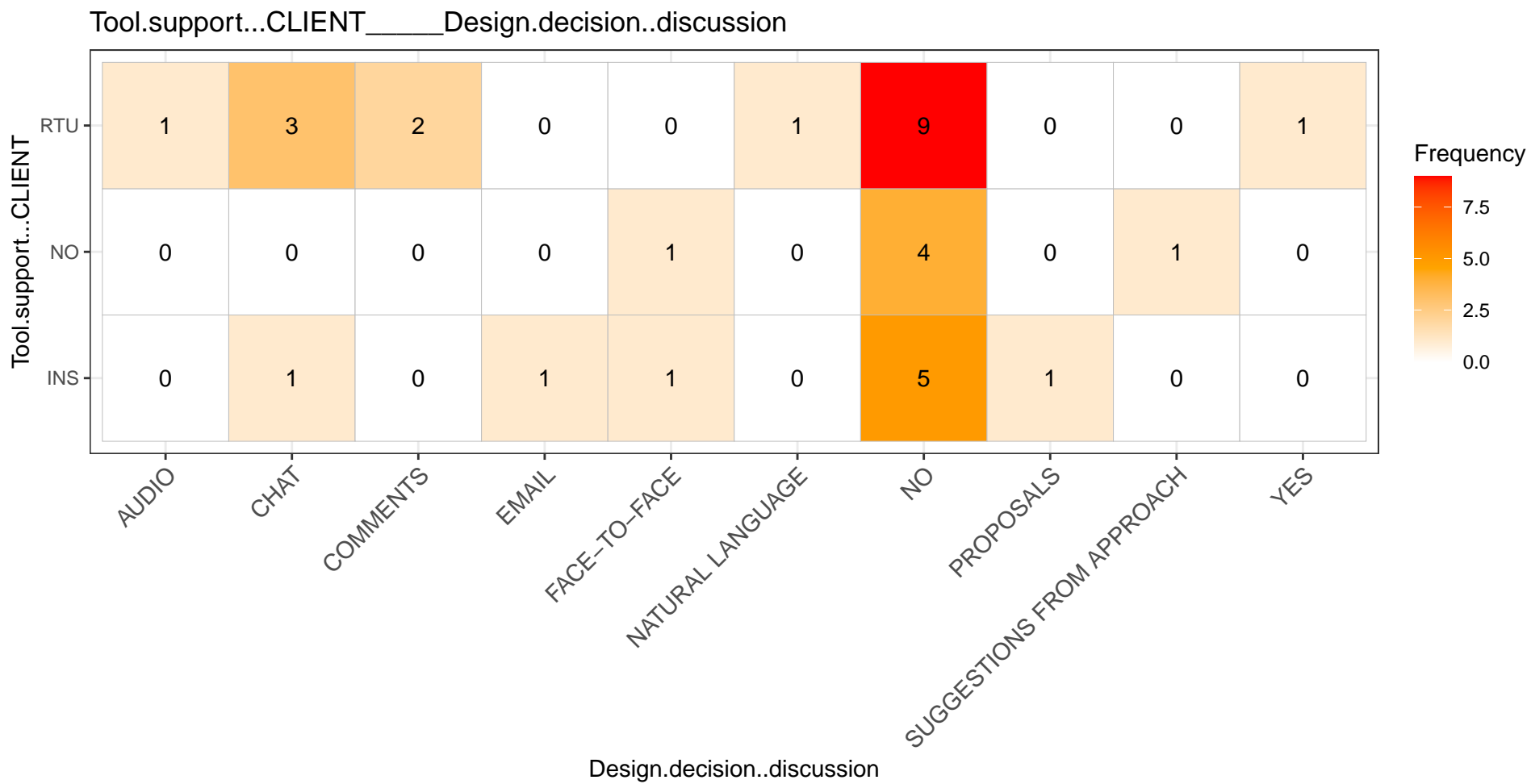


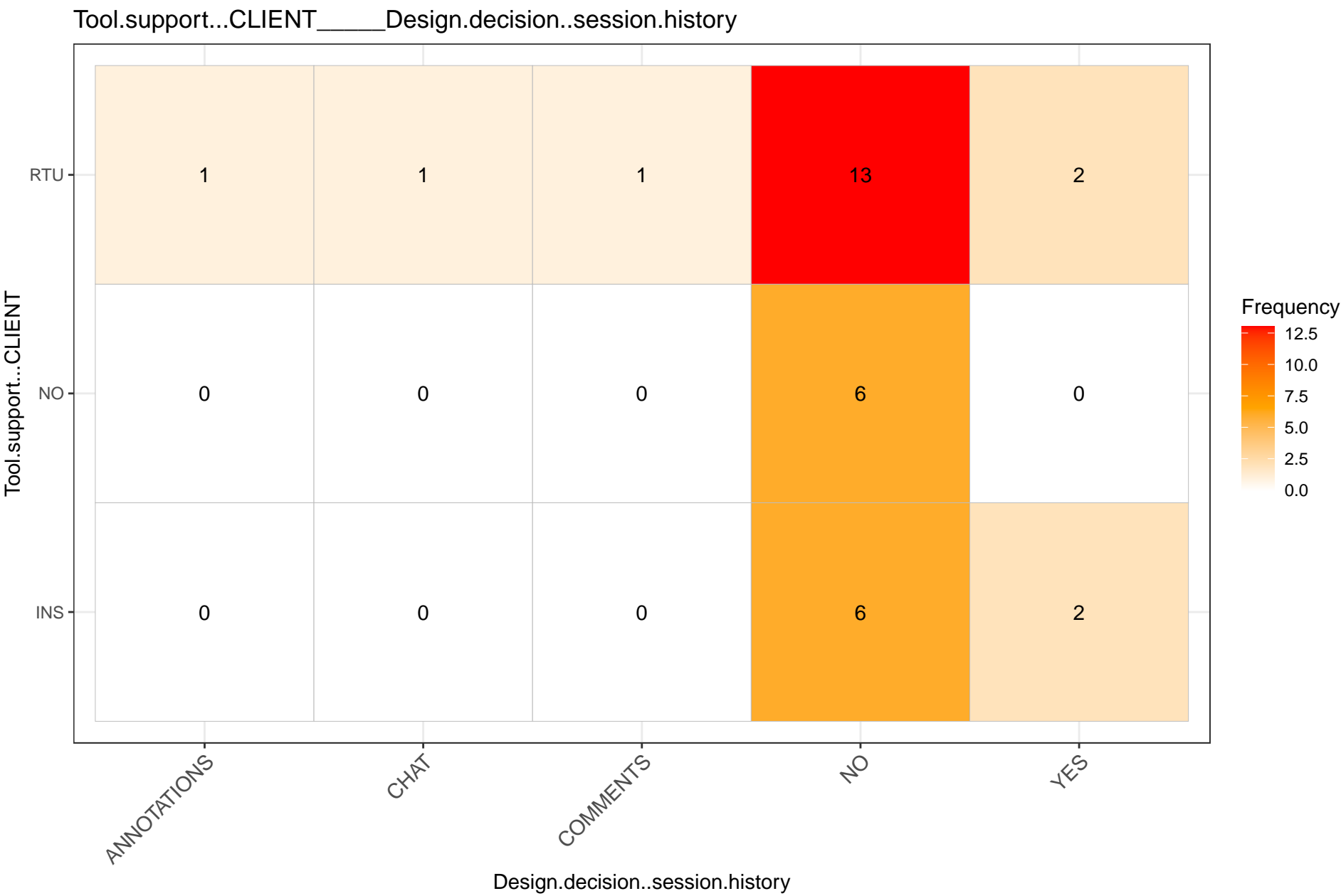


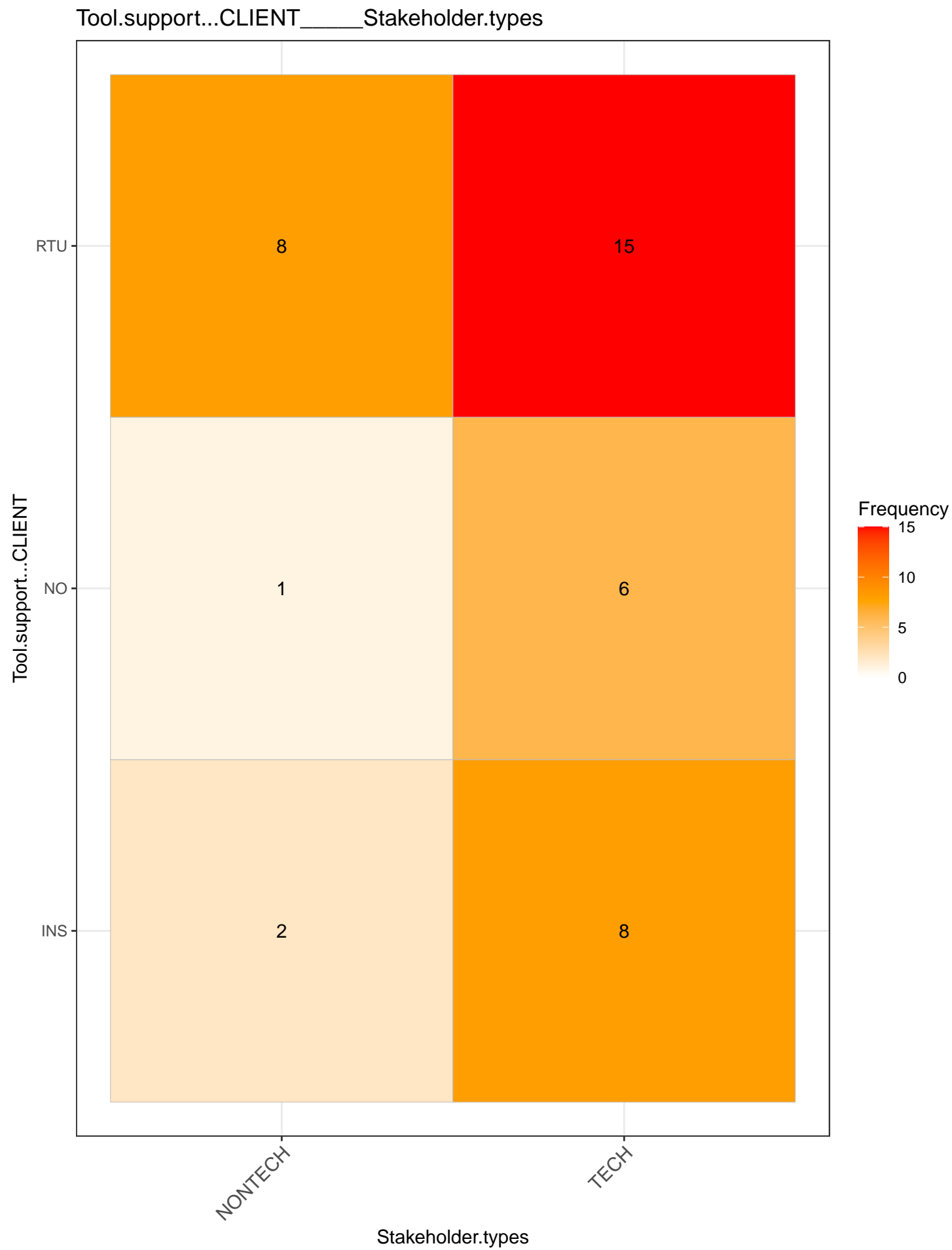
Tool.support...CLIENT_____Communication.means...mixed

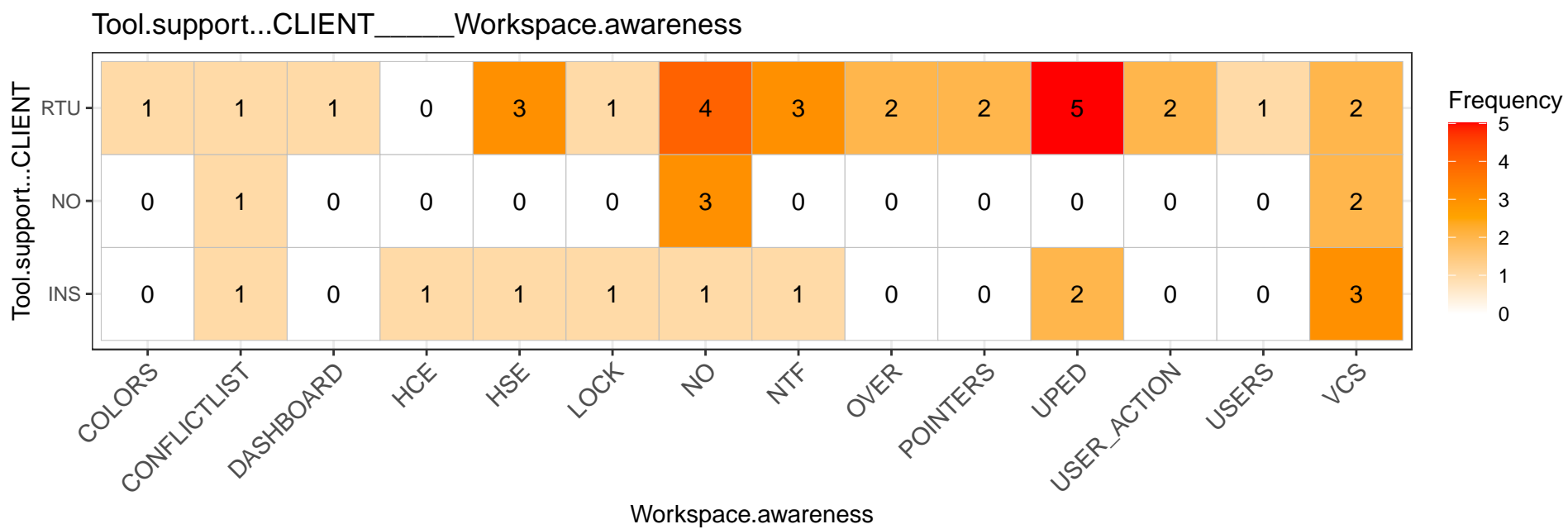












Tool.support...CLIENT_____Workspace.awareness.score

Tool.support...CLIENT

RTU

NO

INS

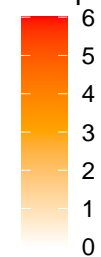
HIGH

LOW

MED

Workspace.awareness.score

Frequency



6

6

3

1

4

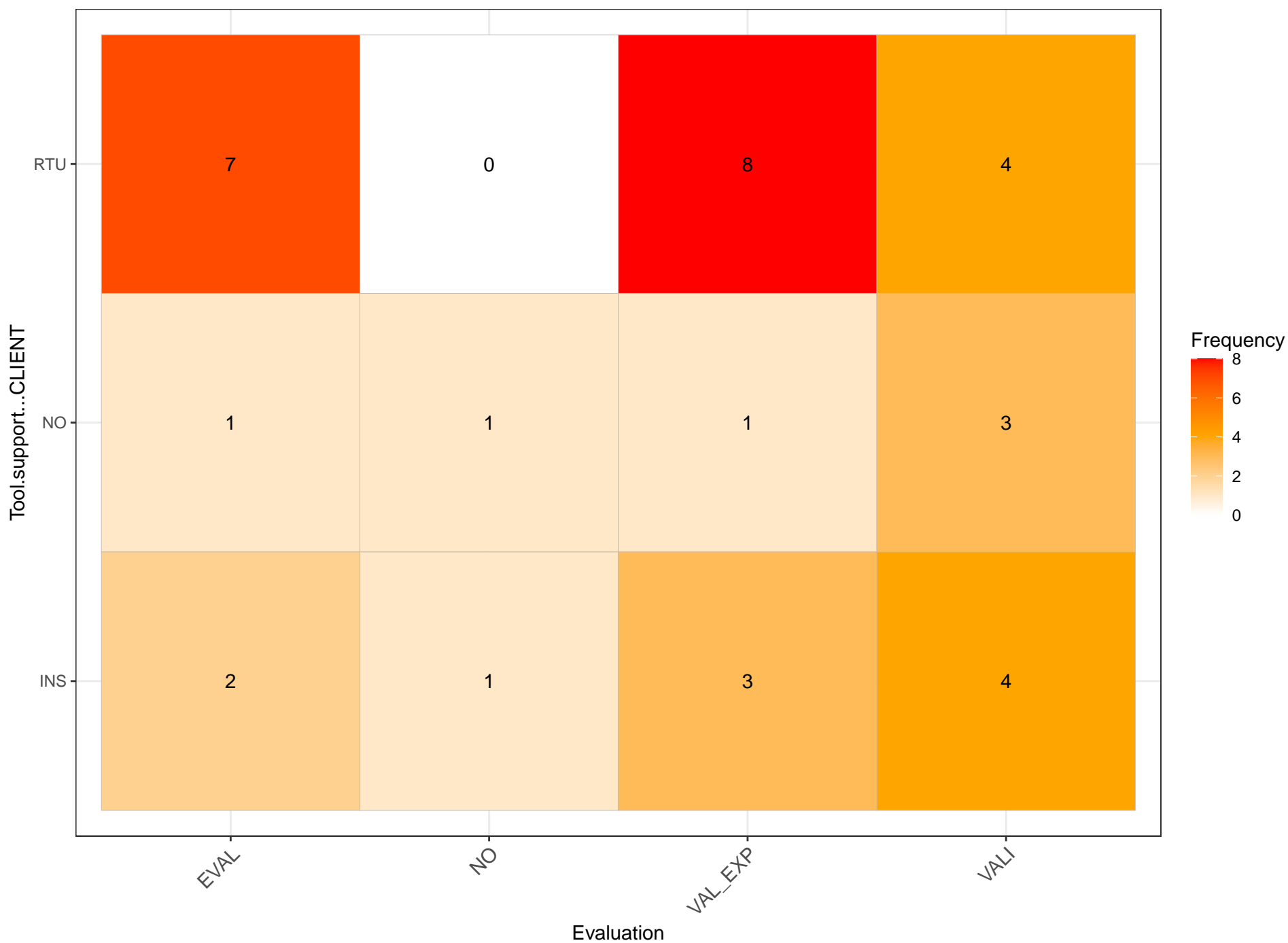
1

4

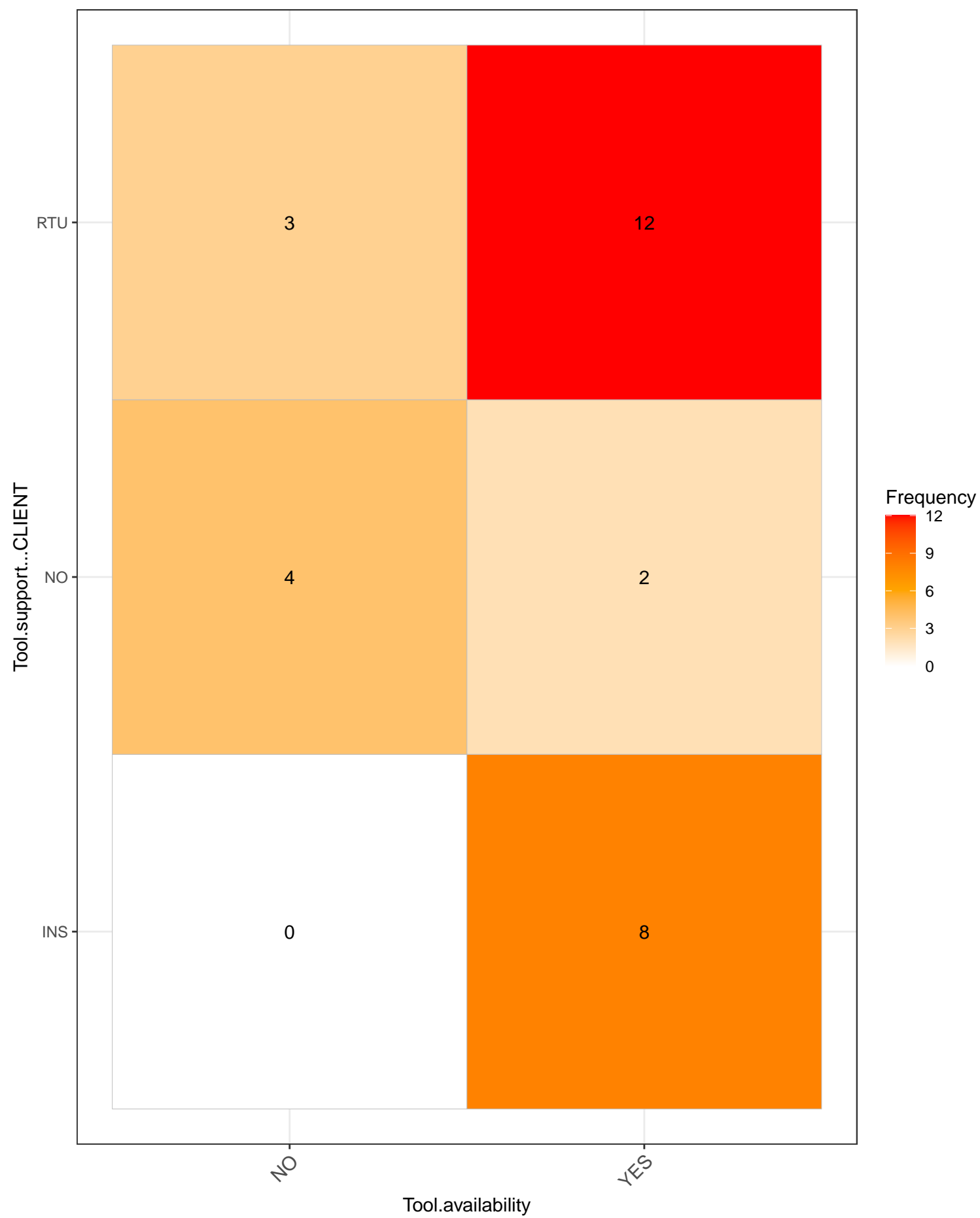
3

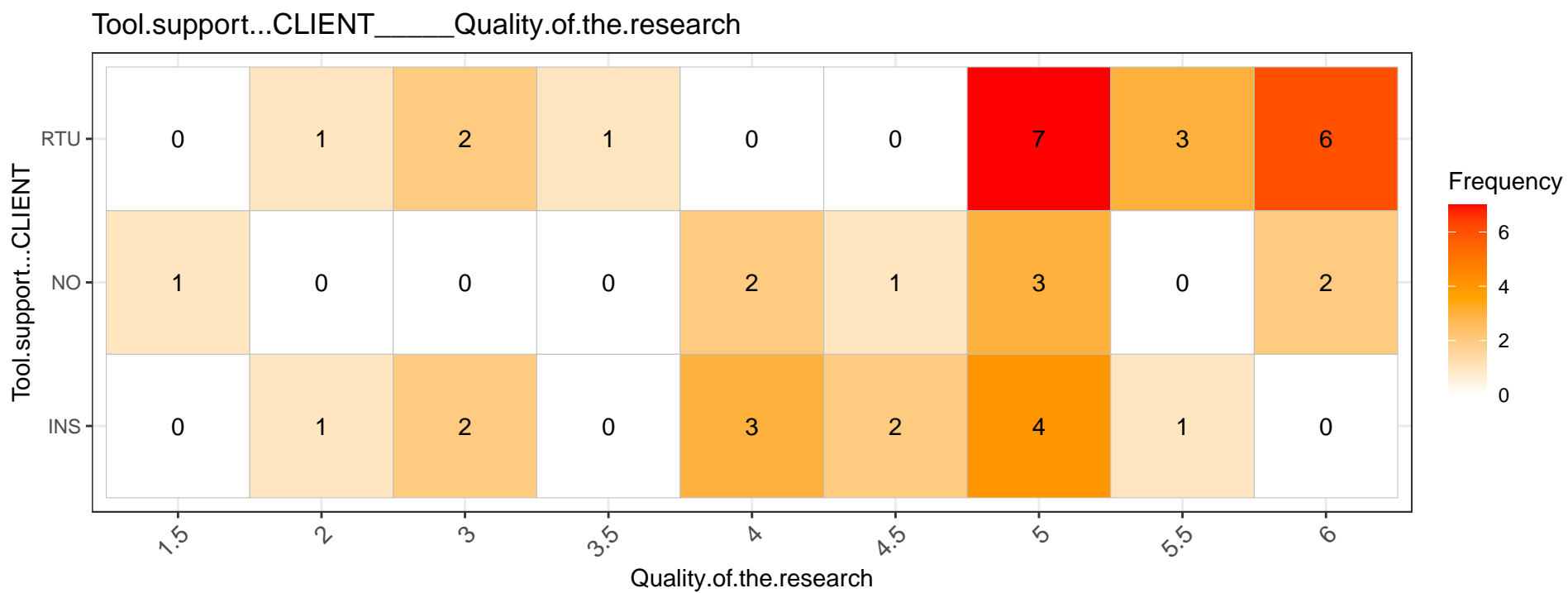
1

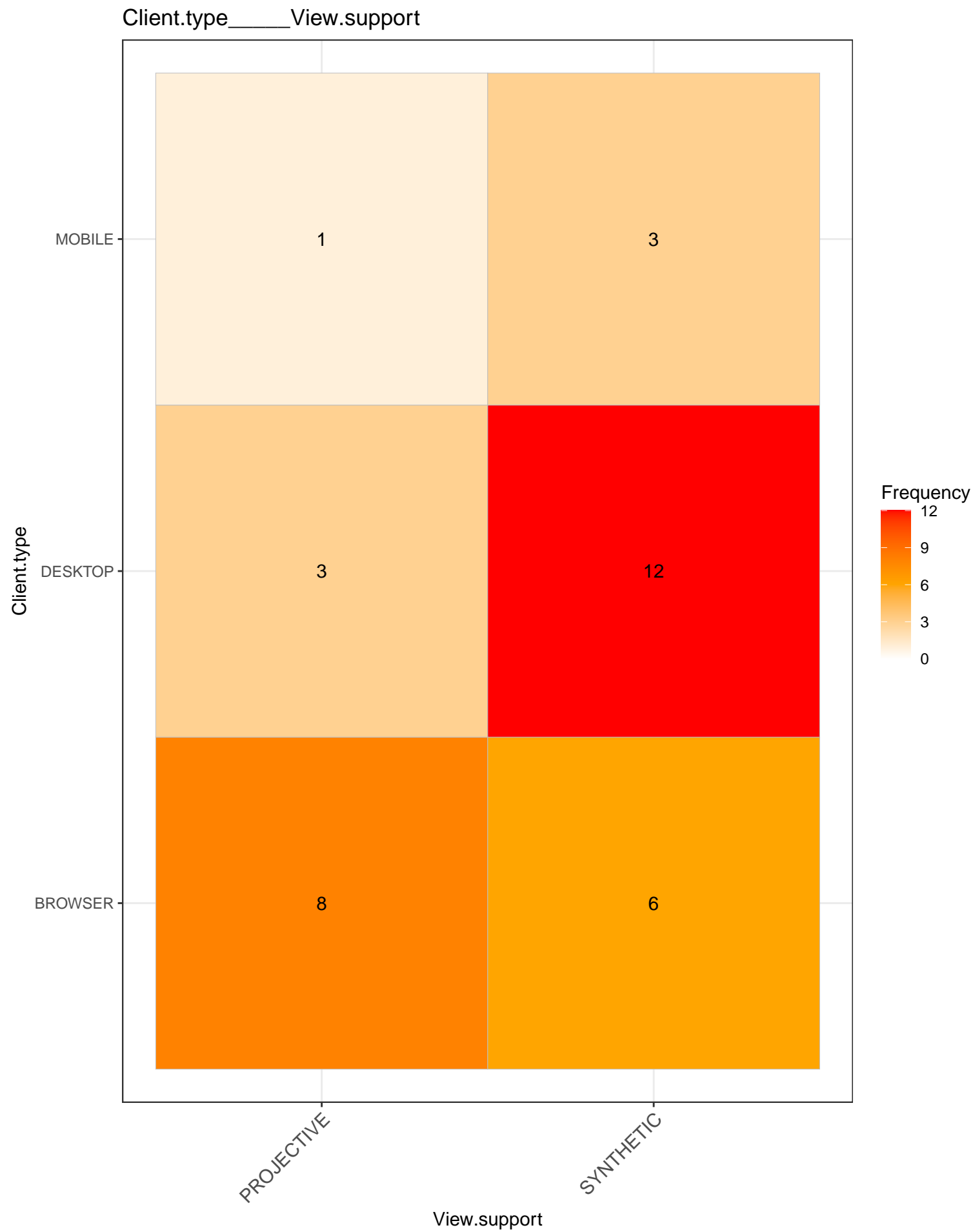
Tool.support...CLIENT____Evaluation

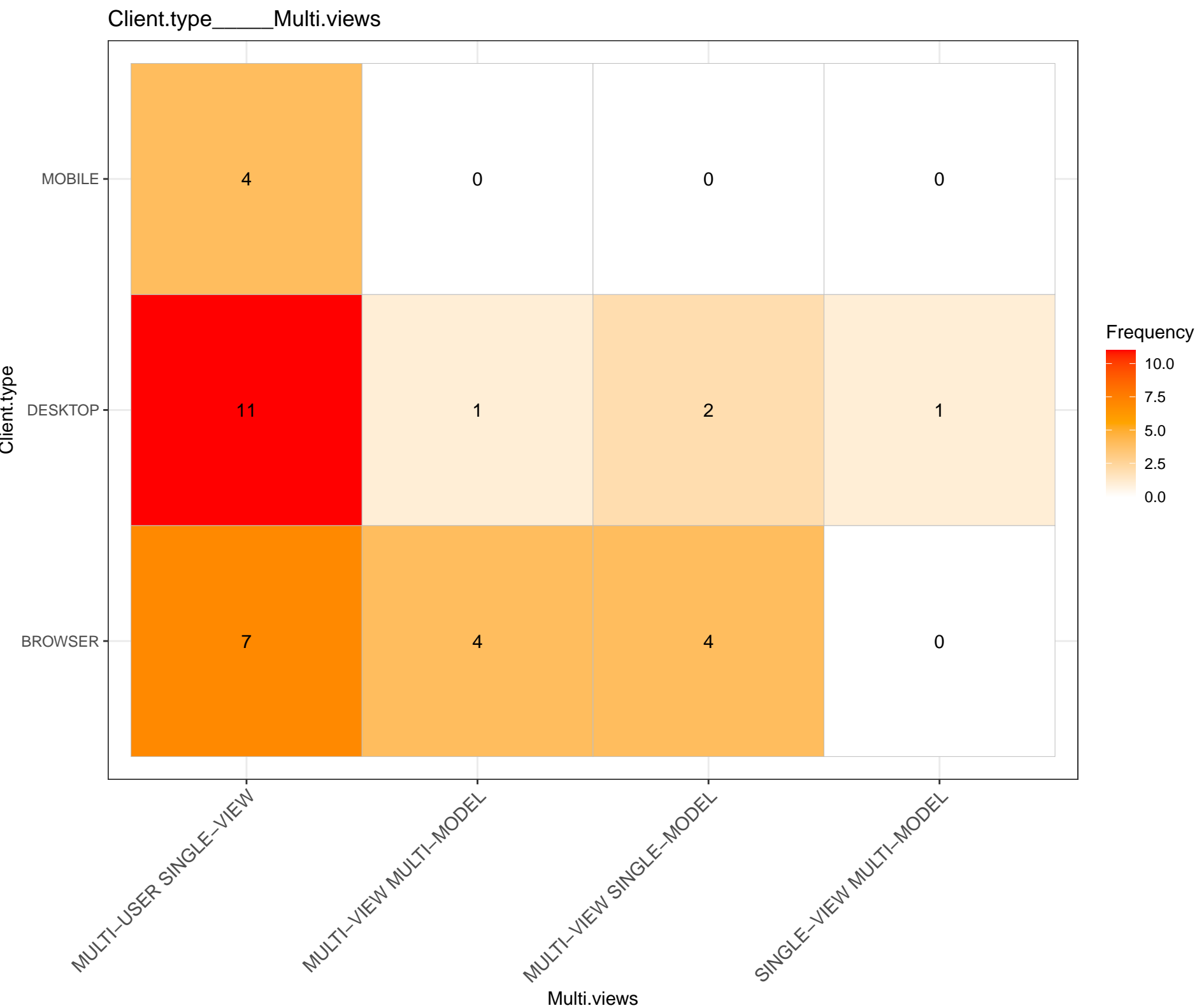


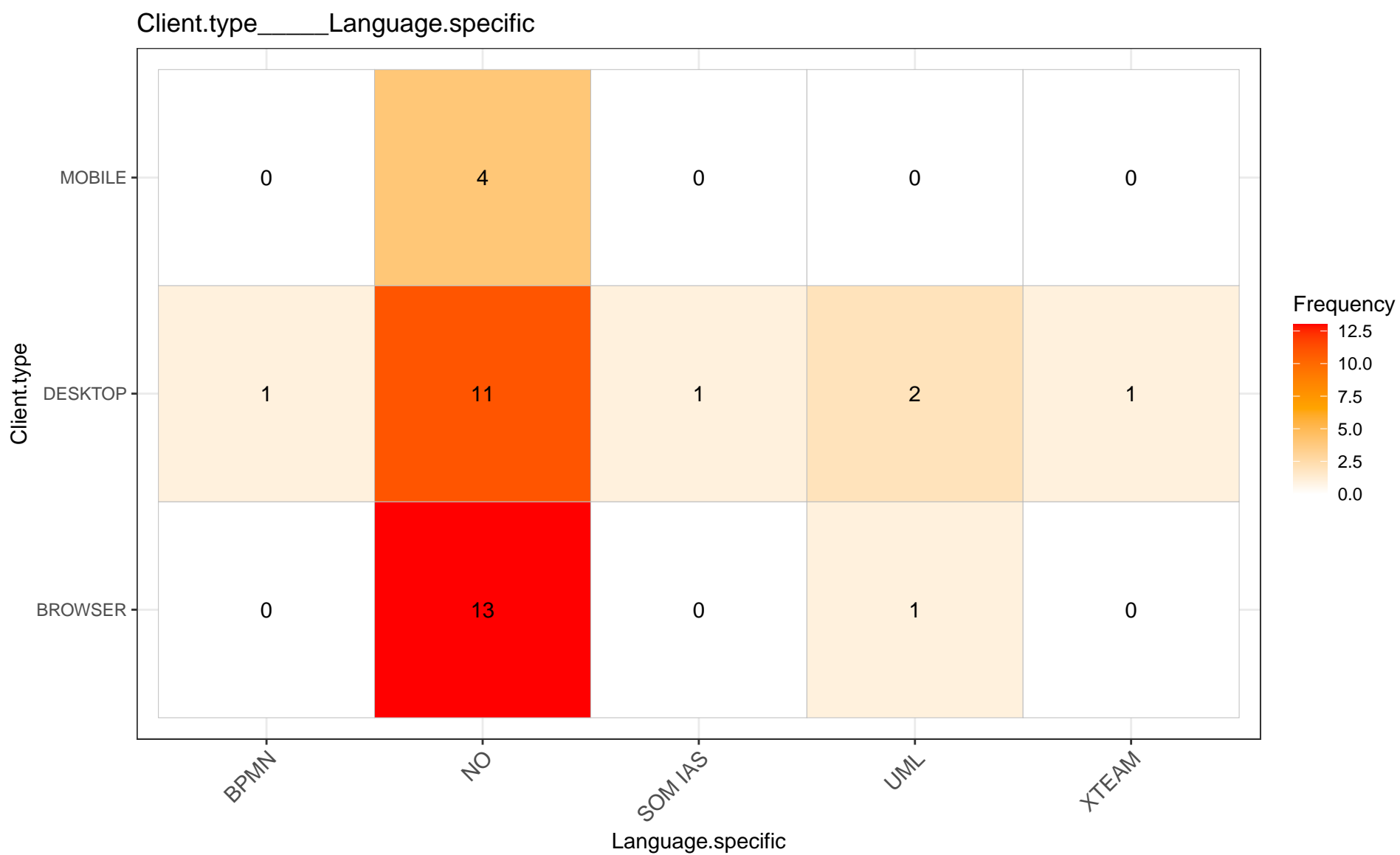
Tool.support...CLIENT_____Tool.availability

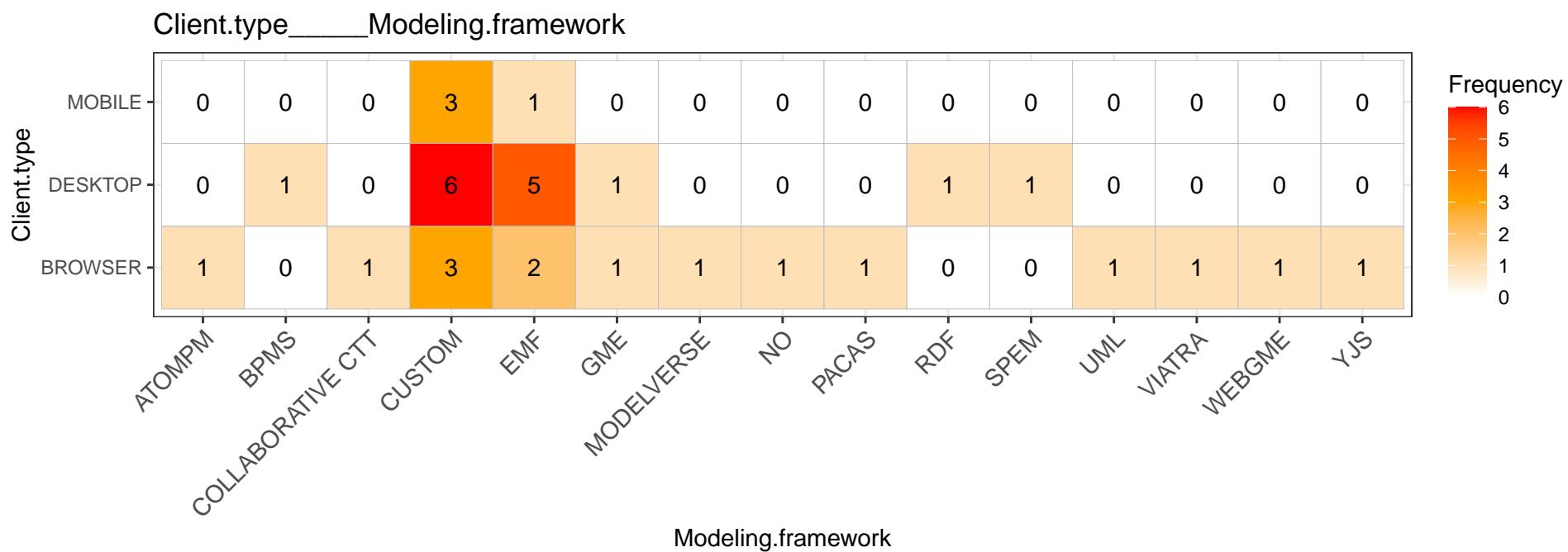


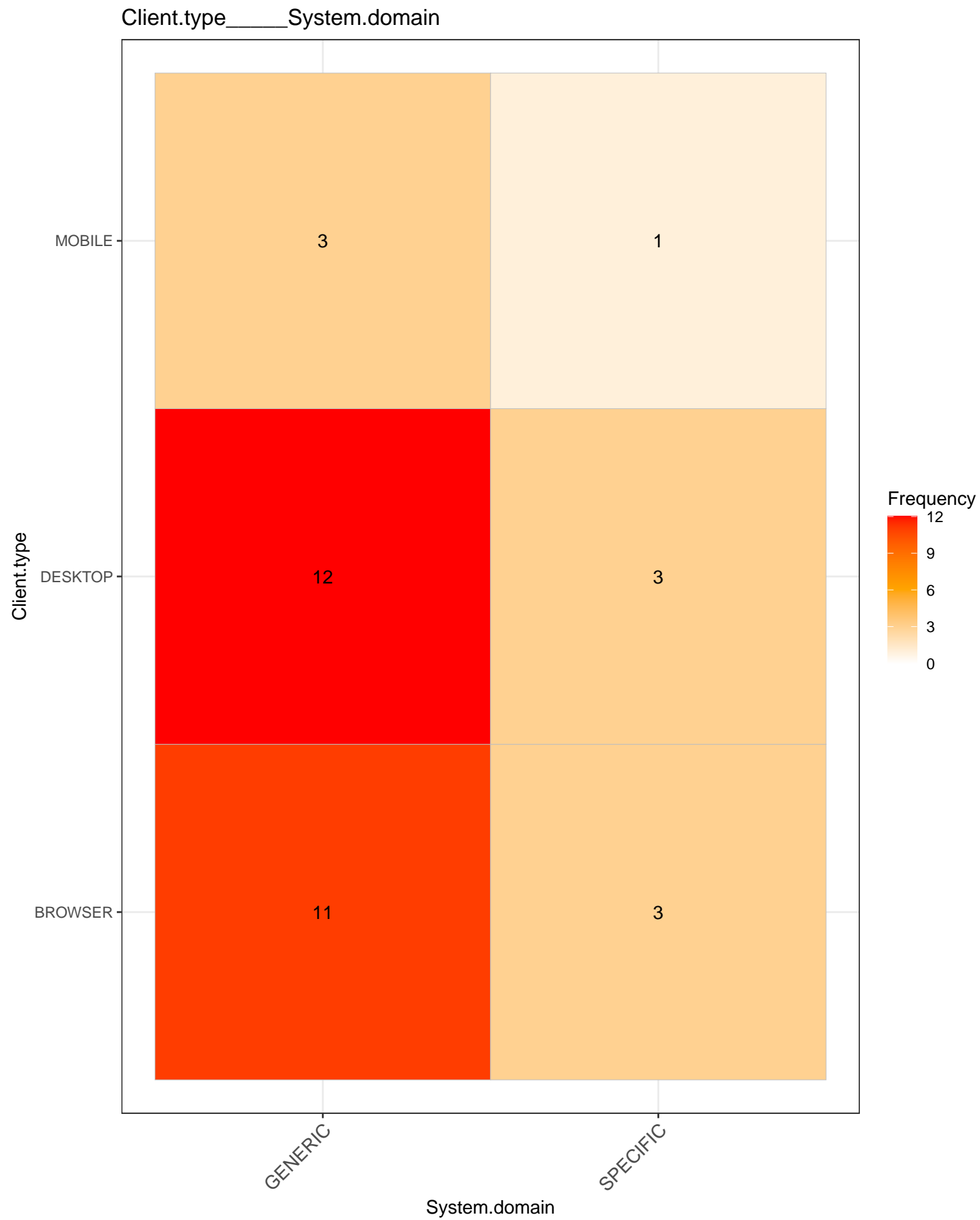


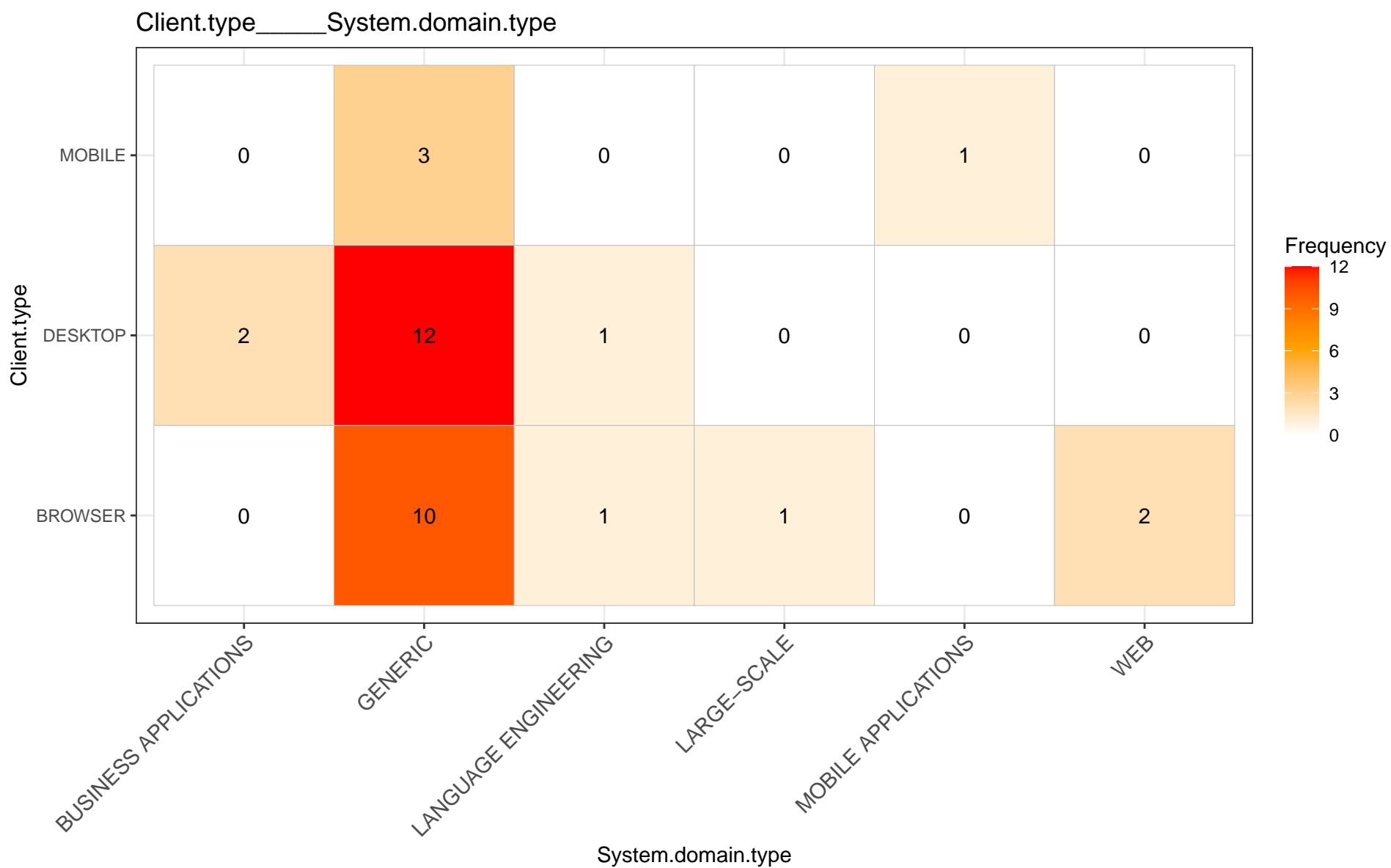


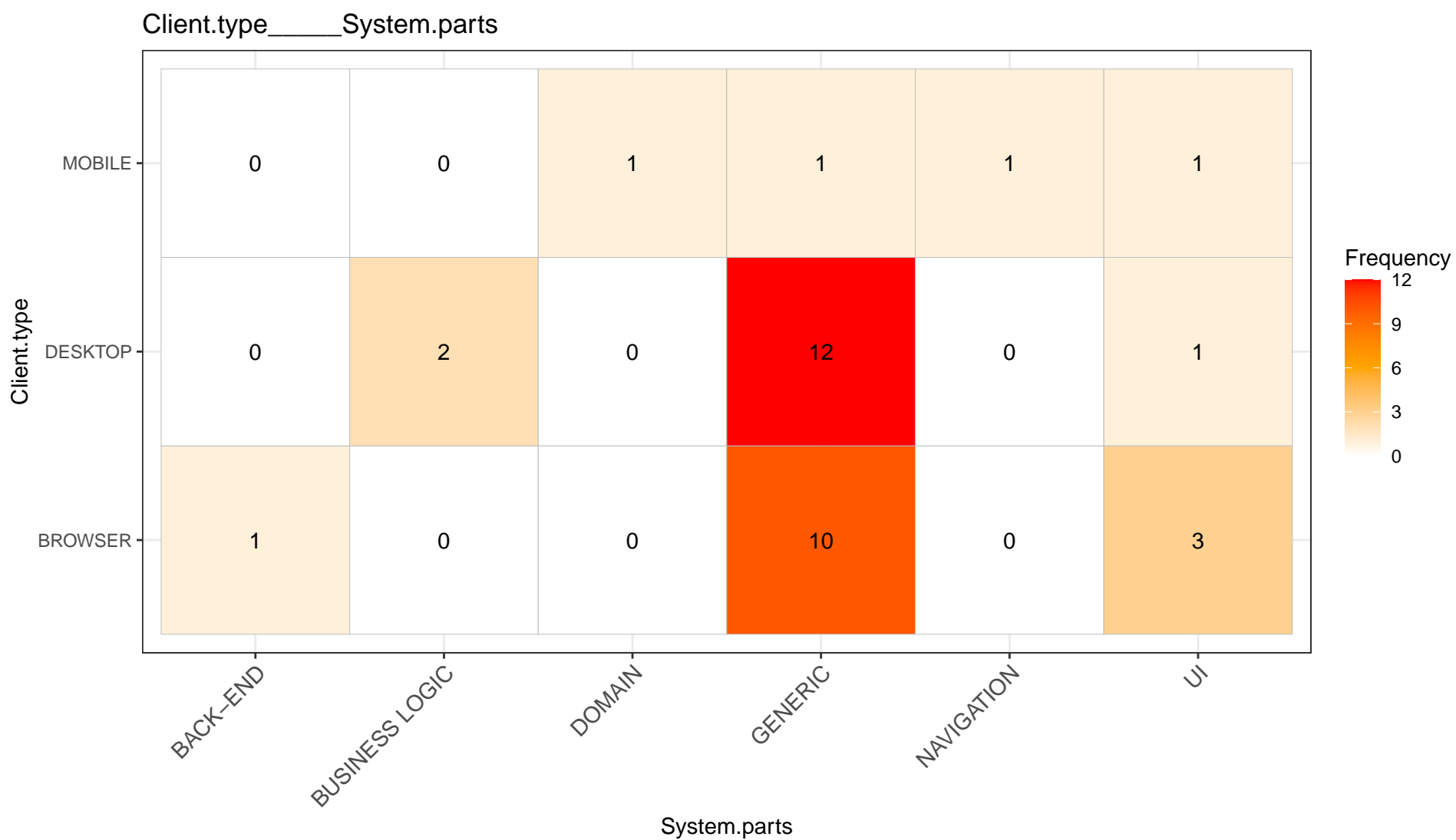


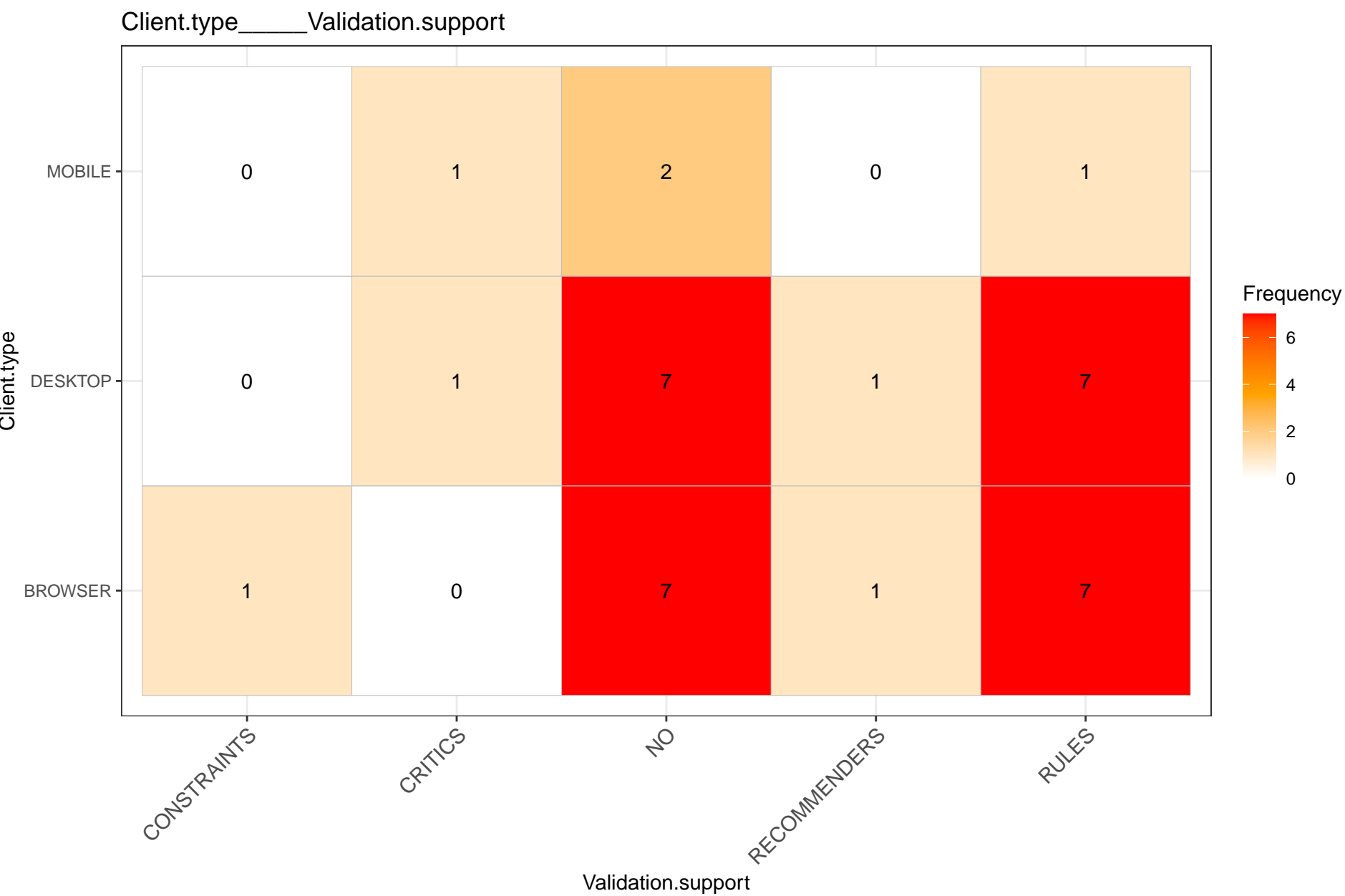




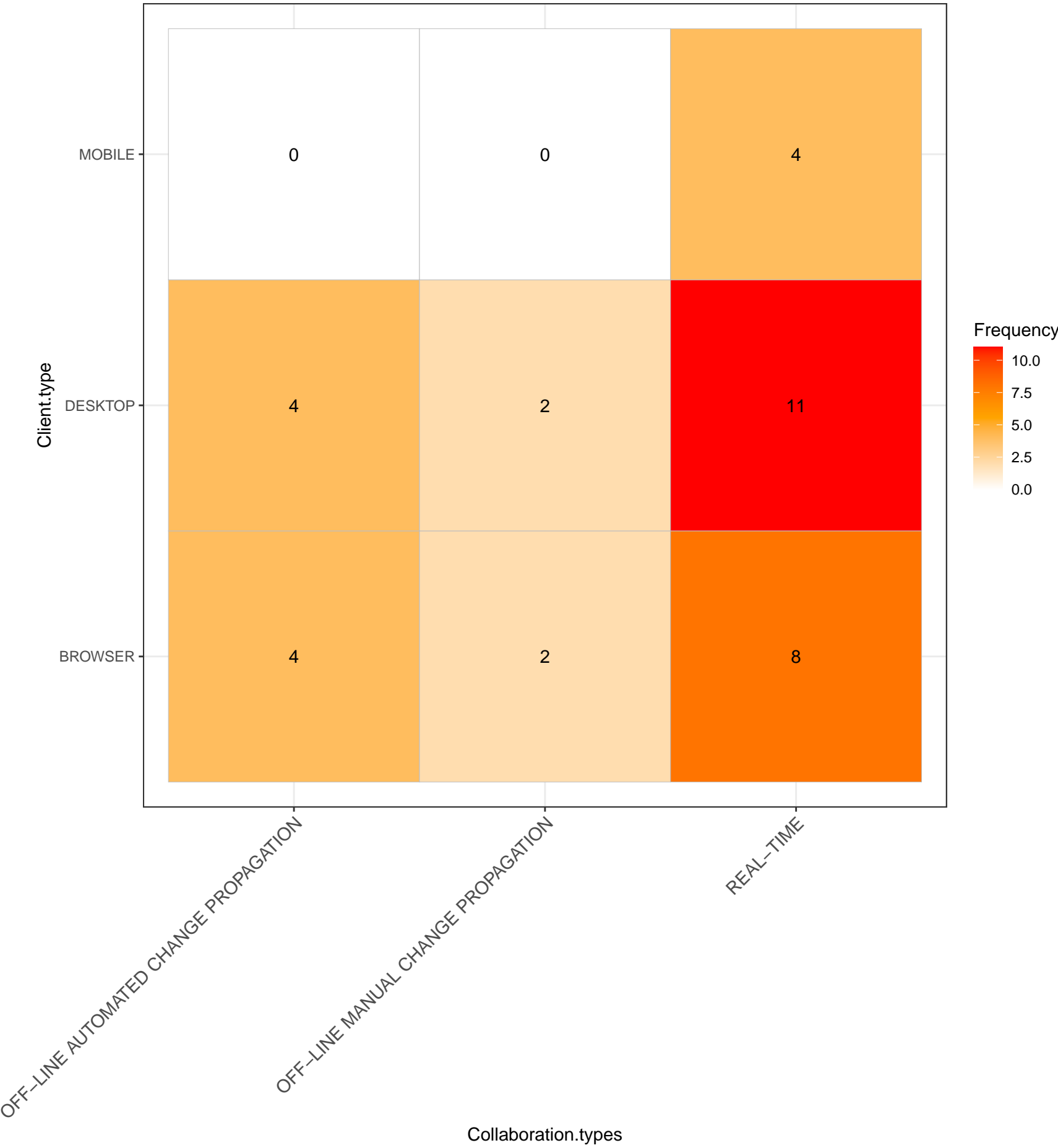




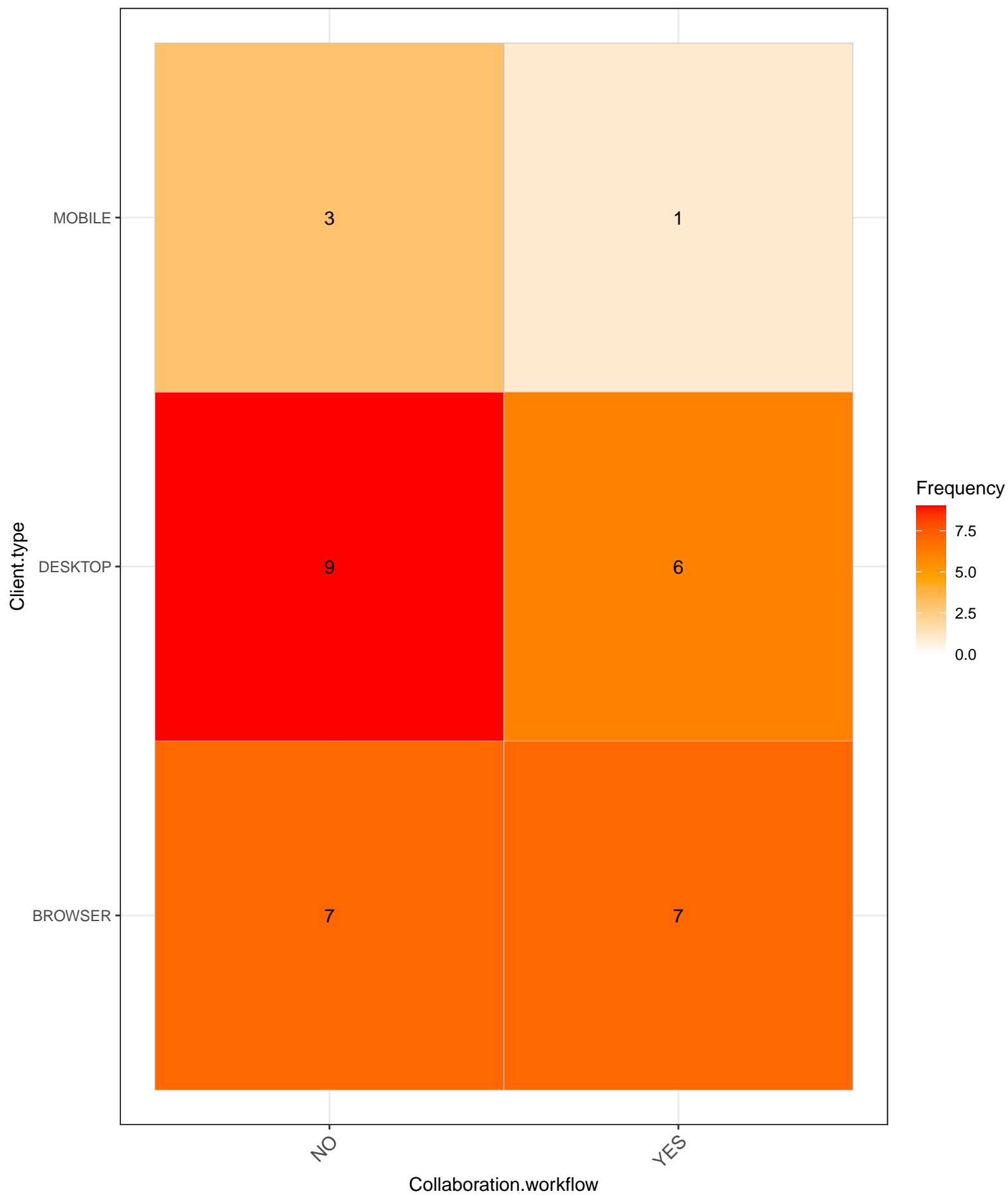




Client.type Collaboration.types



Client.type Collaboration.workflow



Client.type_____Consistency.model

Client.type

MOBILE

1

3

0

DESKTOP

10

11

6

BROWSER

8

8

2

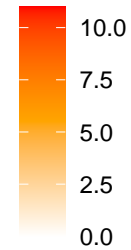
EVENTUAL

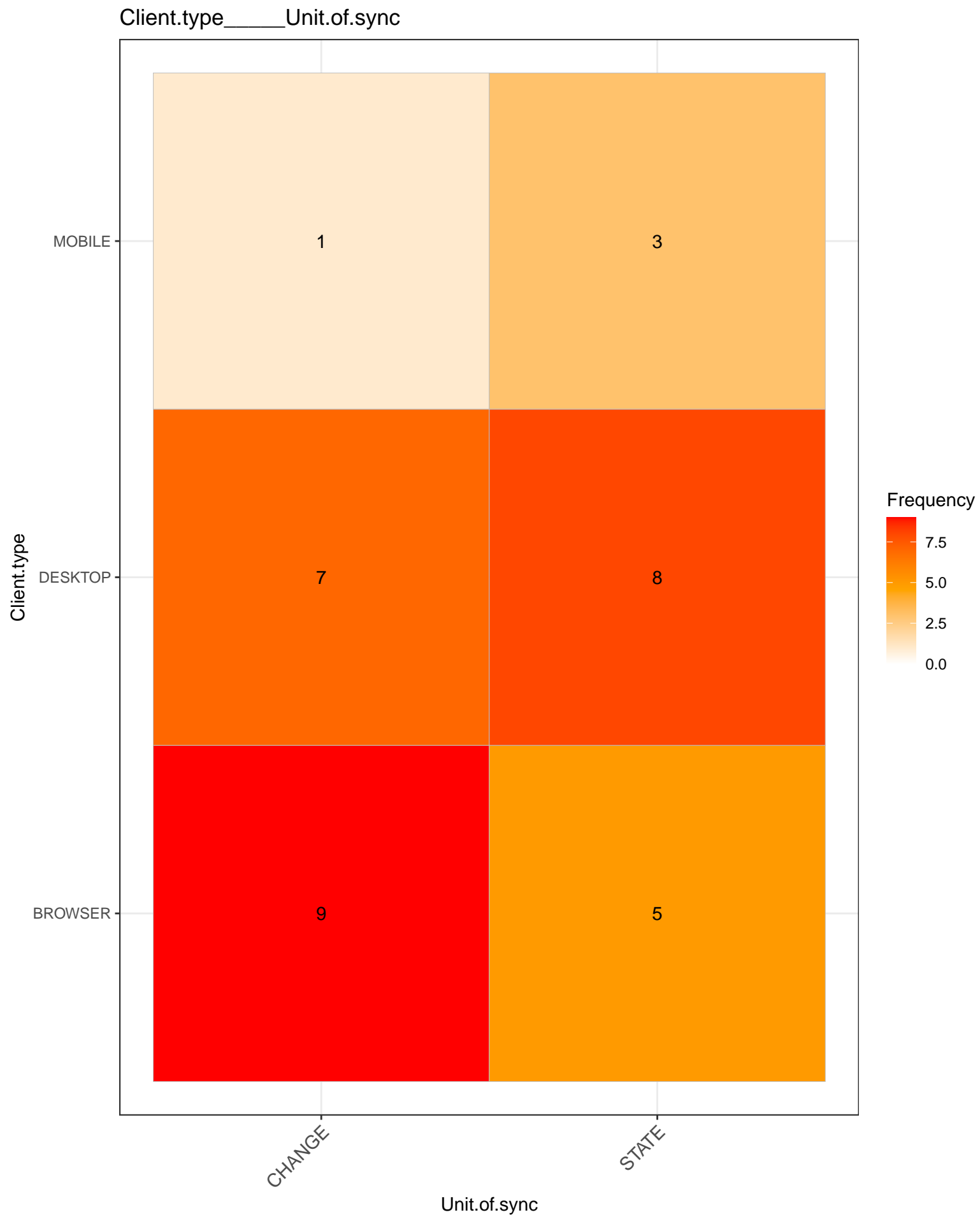
STRONG

STRONG EVENTUAL

Consistency.model

Frequency





Client.type_____Locking

Client.type

MOBILE

2

0

2

DESKTOP

10

2

3

BROWSER

13

0

1

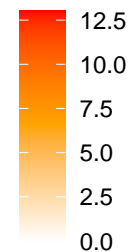
NO

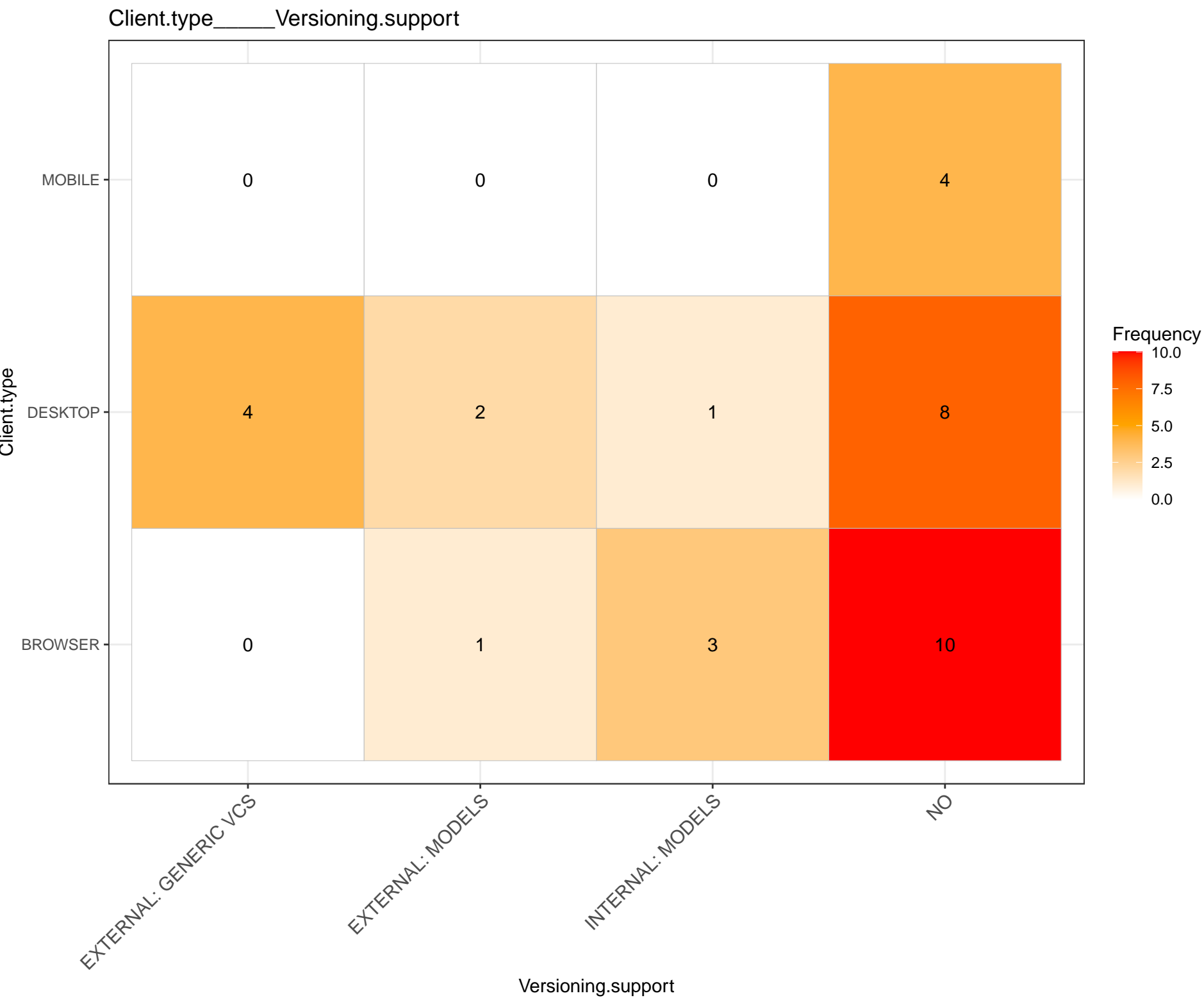
OPTIMISTIC

PESSIMISTIC: PARTLOCK

Locking

Frequency





Client.type____VCS.architecture

Client.type

MOBILE

0

0

4

DESKTOP

4

3

8

BROWSER

4

0

10

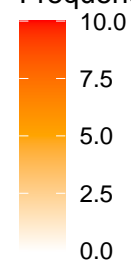
CENTRALIZED

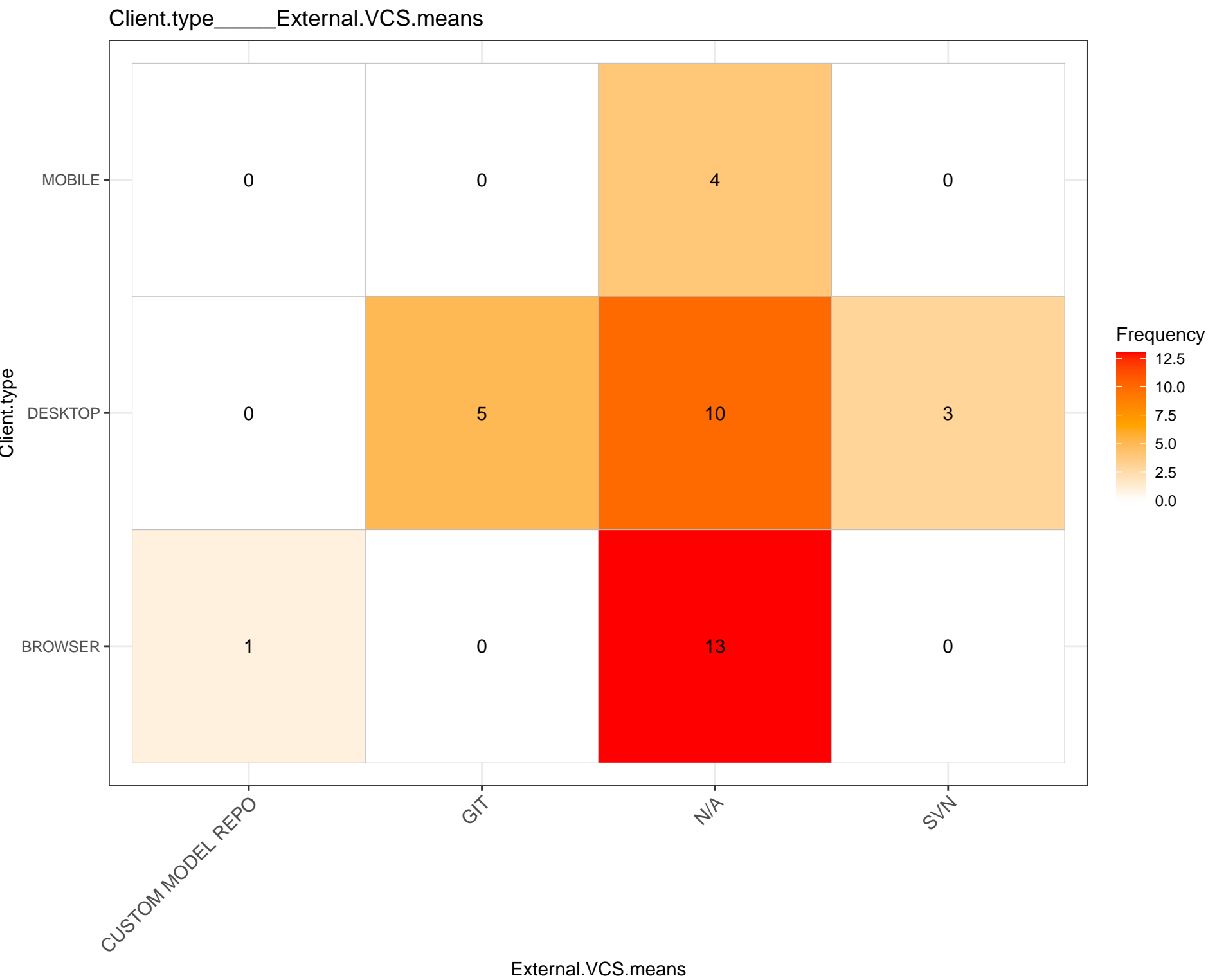
DISTRIBUTED

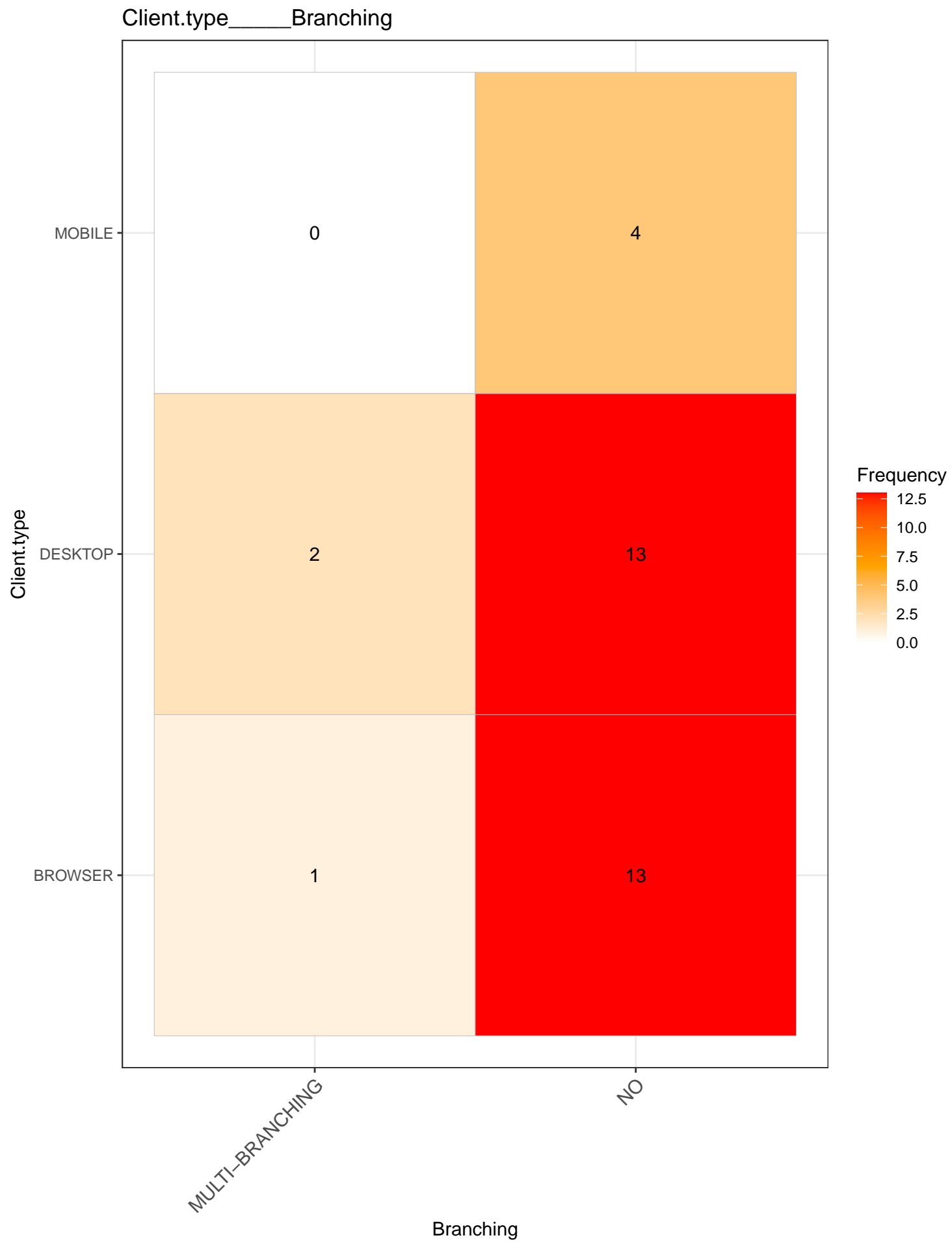
N/A

VCS.architecture

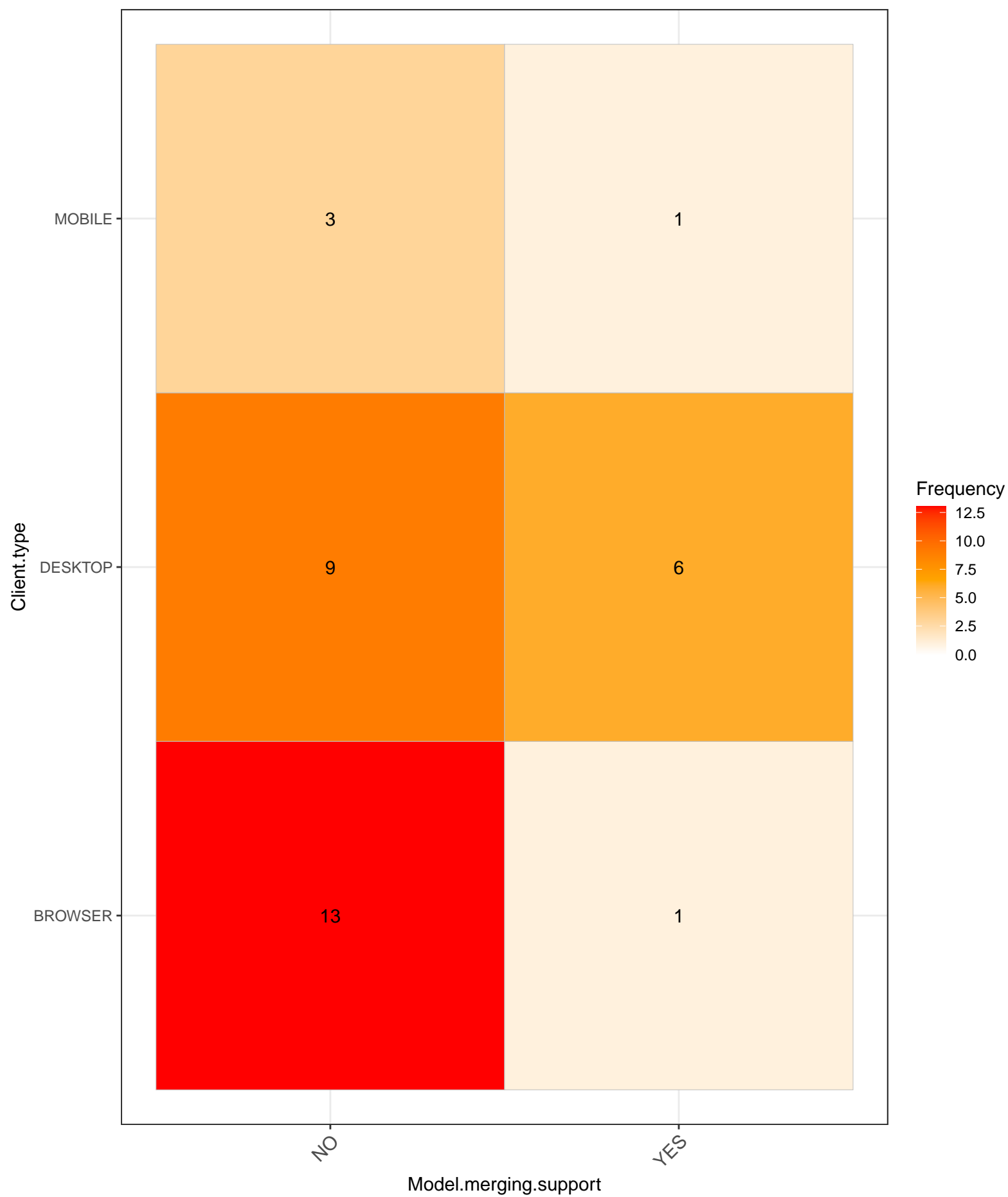
Frequency



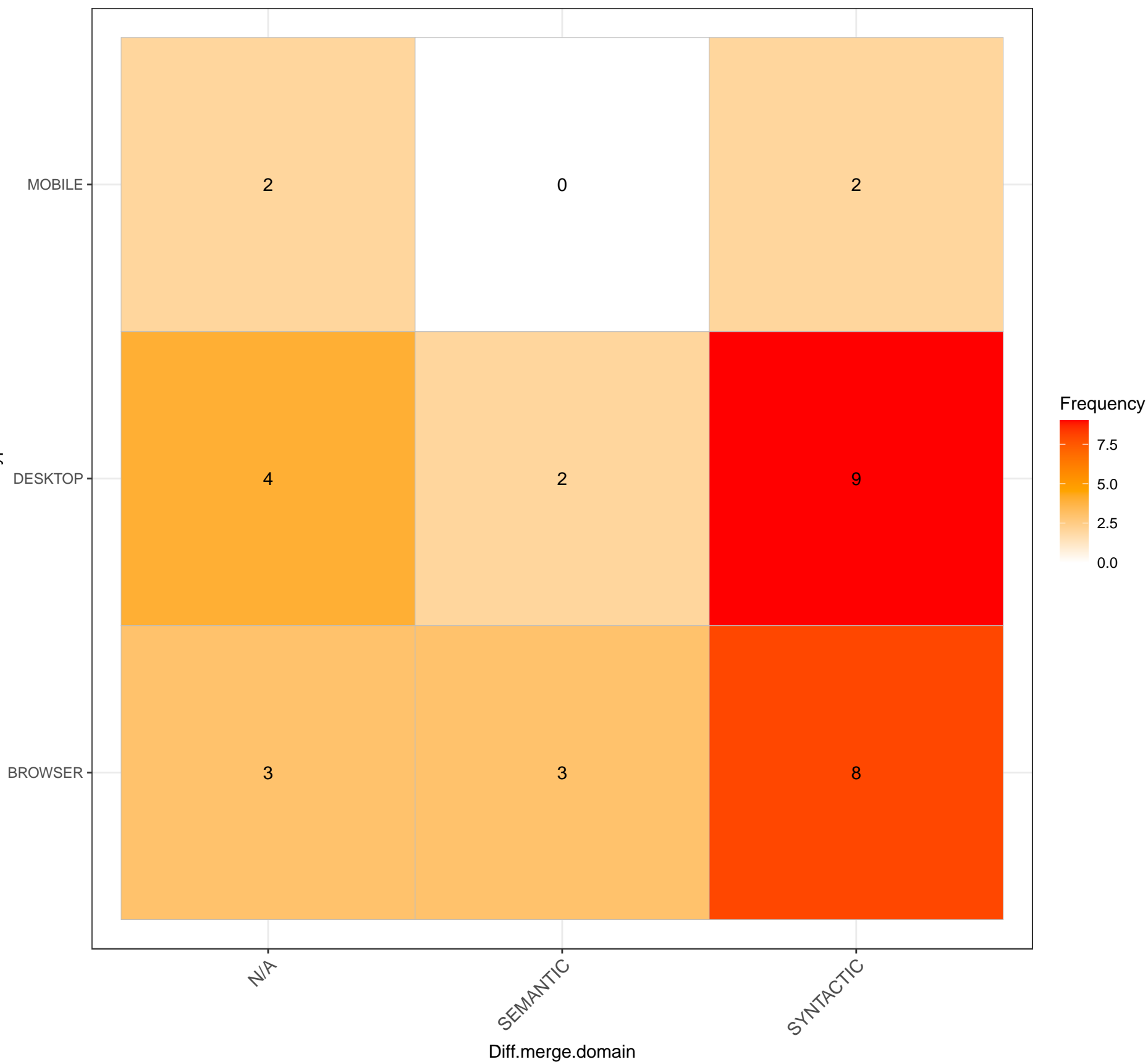




Client.type_____Model.merging.support



Client.type_____Diff.merge.domain



Client.type_____Conflict.mgmt.approach

Client.type

MOBILE

0

1

3

DESKTOP

8

3

4

BROWSER

4

8

2

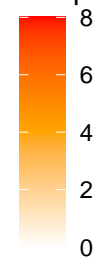
ALLOW&RESOLVE

NO

PREVENTIVE

Conflict.mgmt.approach

Frequency



Client.type_____Conflict.detection

Client.type

MOBILE

2

2

0

DESKTOP

5

10

4

BROWSER

8

6

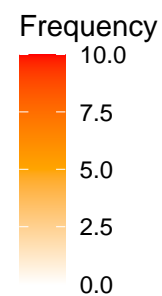
3

NO

YES

YES: INCREMENTAL

Conflict.detection



Client.type_____Conflict.awareness..User.

Client.type

MOBILE

4

0

0

DESKTOP

7

1

7

BROWSER

11

1

2

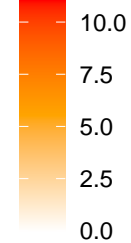
NO

PROMPT ACTION

WARNING

Conflict.awareness..User.

Frequency



Client.type_____Conflict.resolution.support

Client.type

MOBILE

DESKTOP

BROWSER

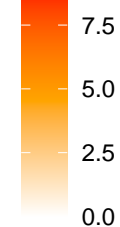
MANUAL

NO

SEMI-AUTOMATED

Conflict.resolution.support

Frequency



0

3

1

5

2

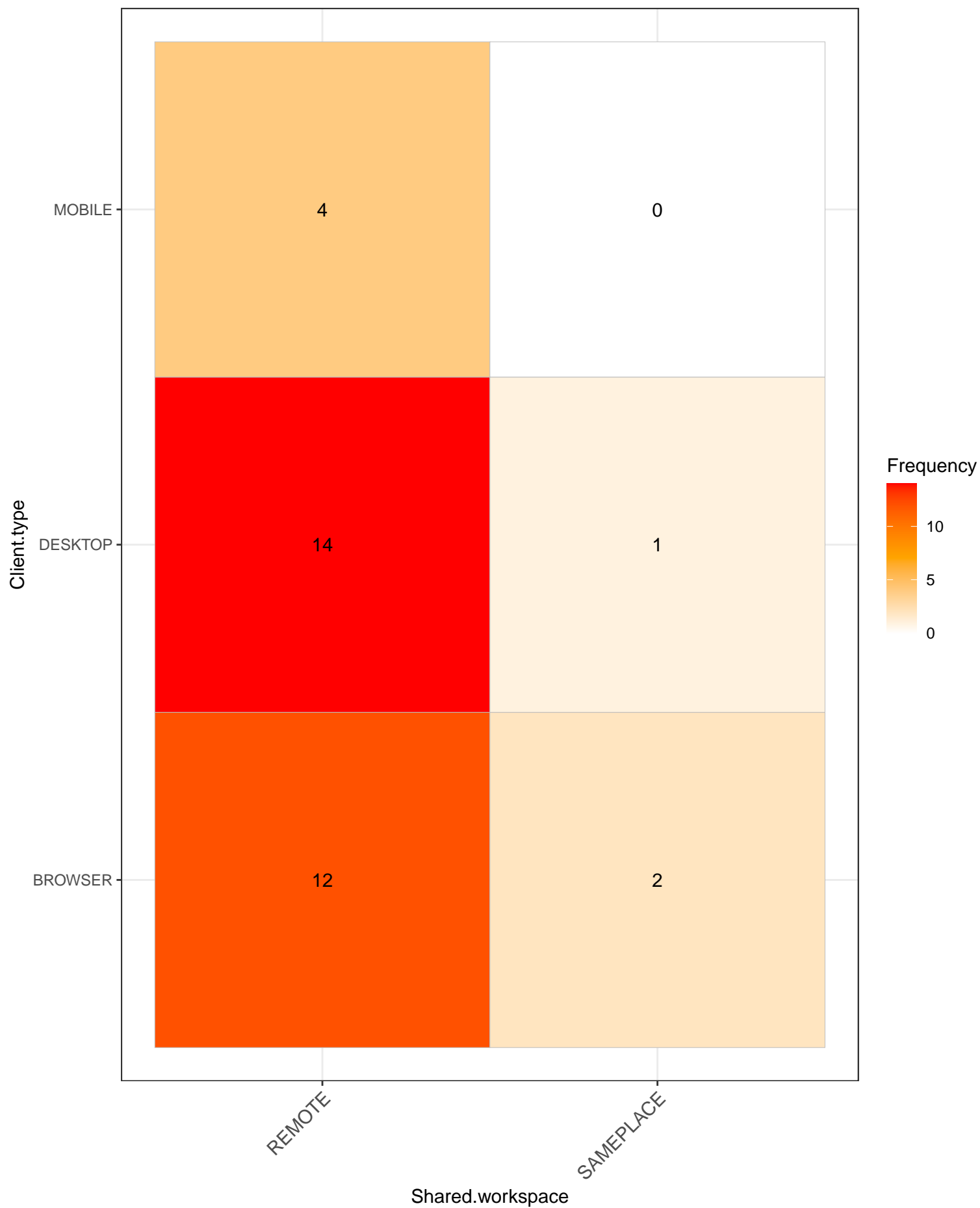
9

3

6

5

Client.type Shared.workspace



Client.type_____Network.architecture

Client.type

MOBILE

DESKTOP

BROWSER

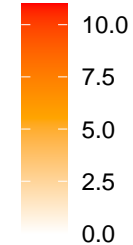
CENTRALIZED: MULTIPLE SERVERS

CENTRALIZED: SINGLE SERVER

MIXED

P2P

Frequency



1

2

1

0

2

11

1

2

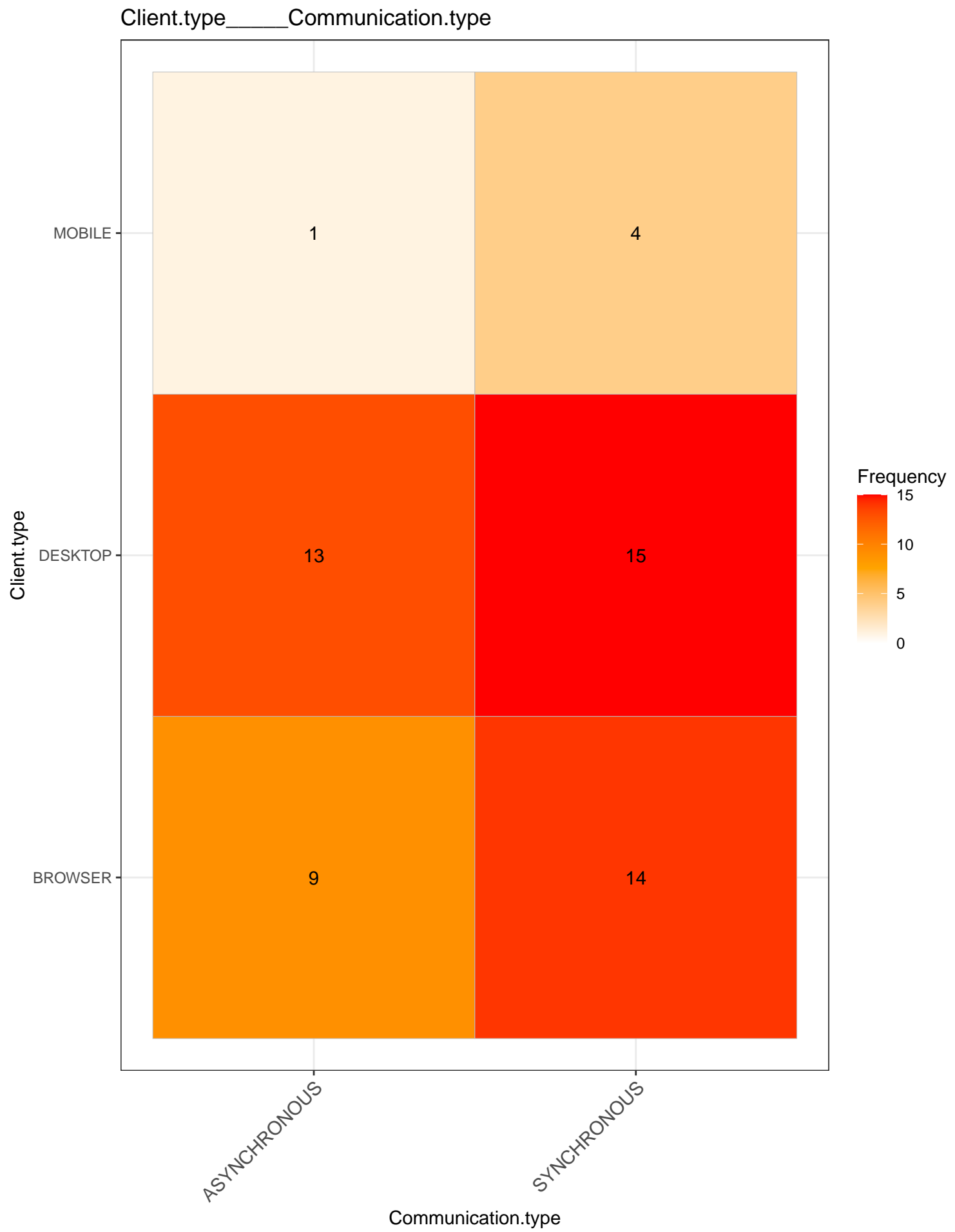
3

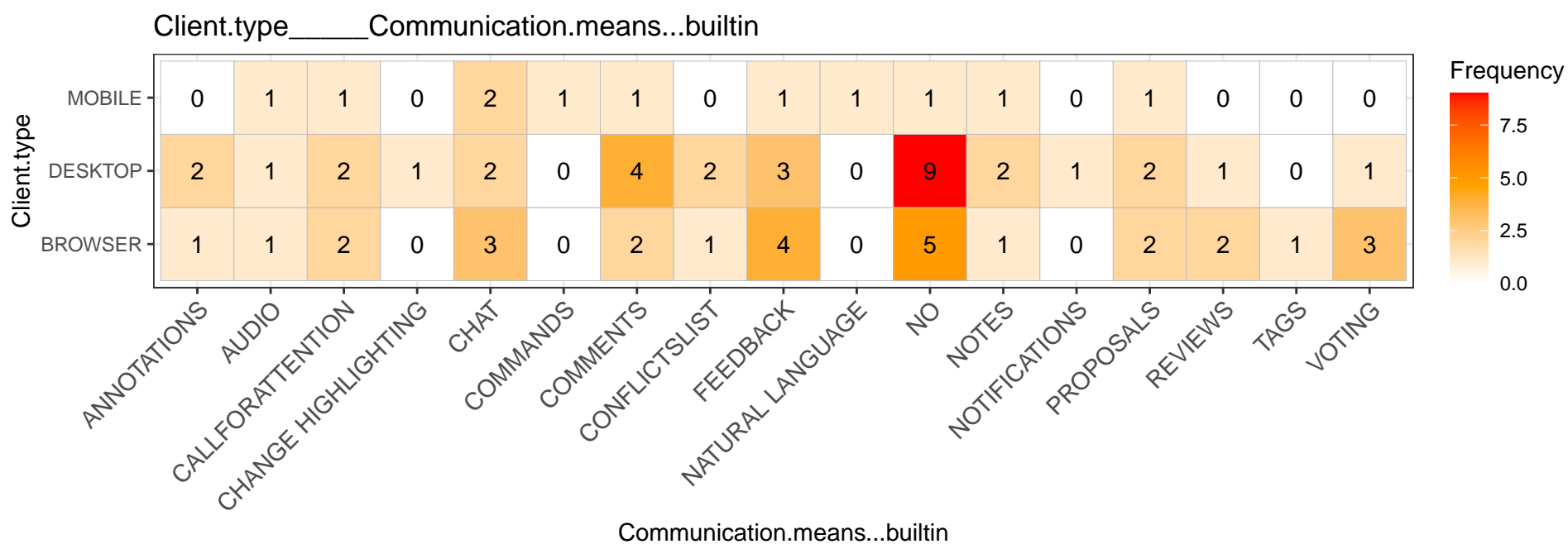
10

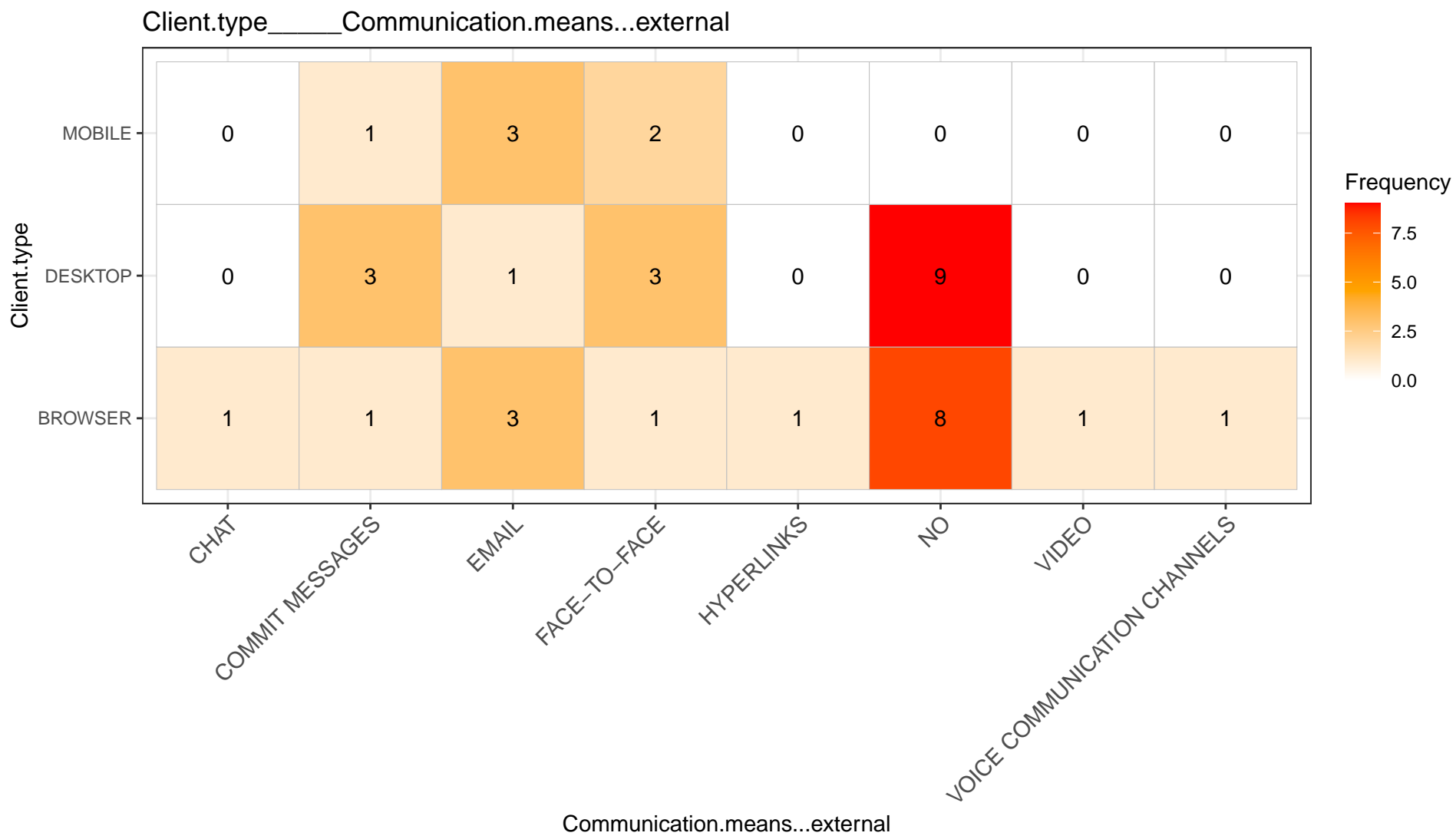
1

1

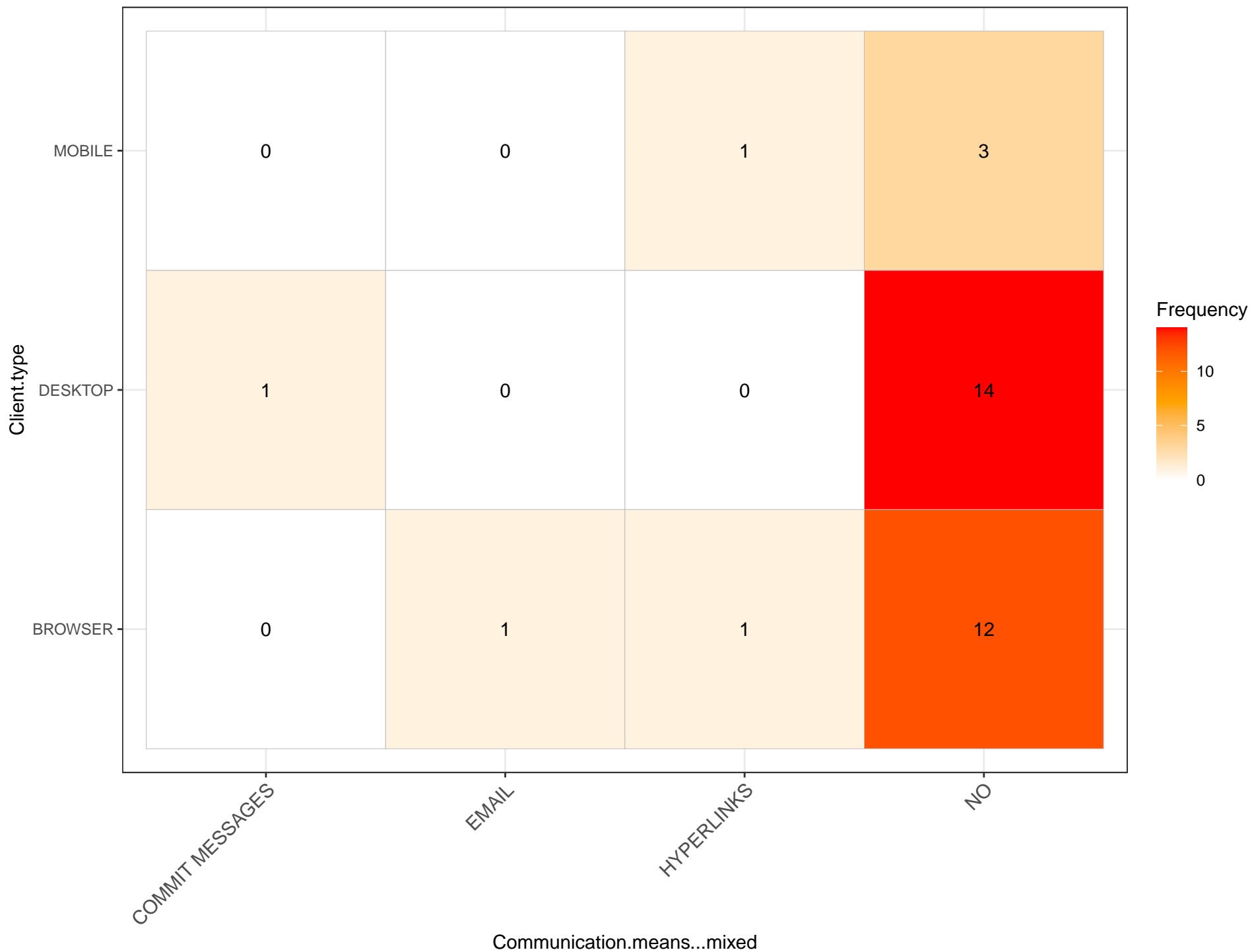
Network.architecture

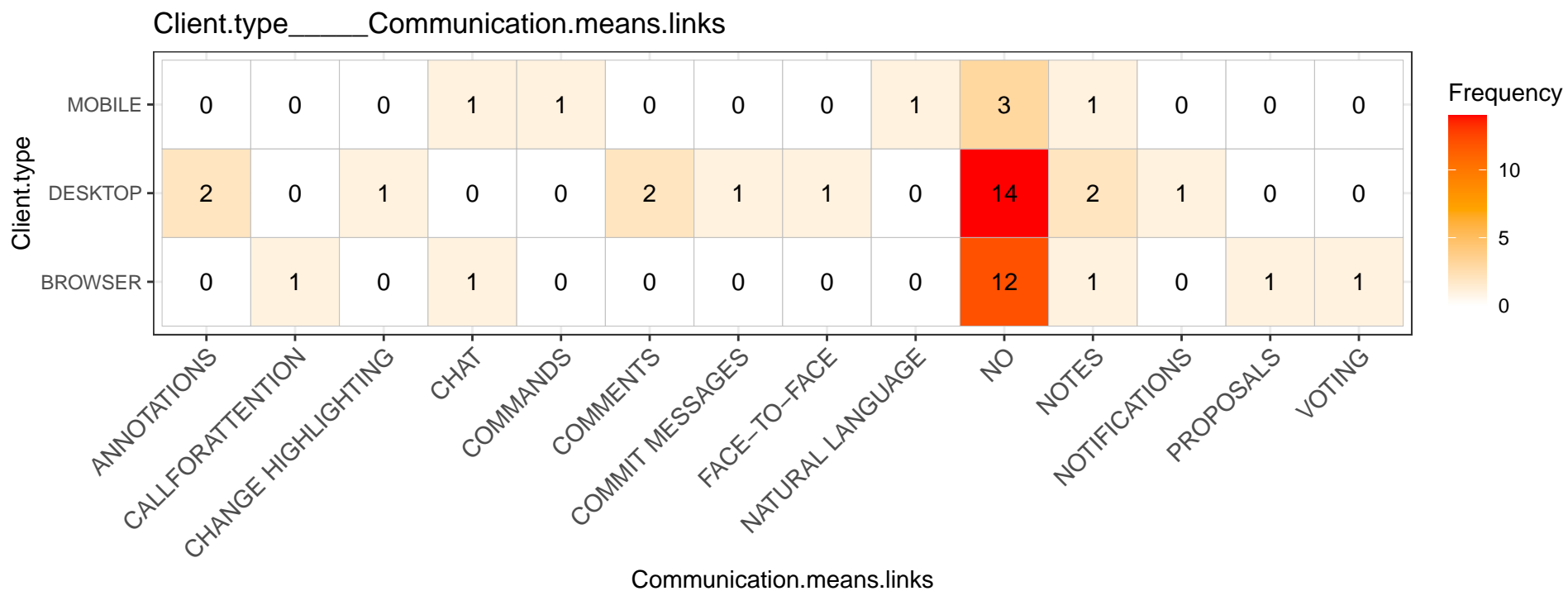


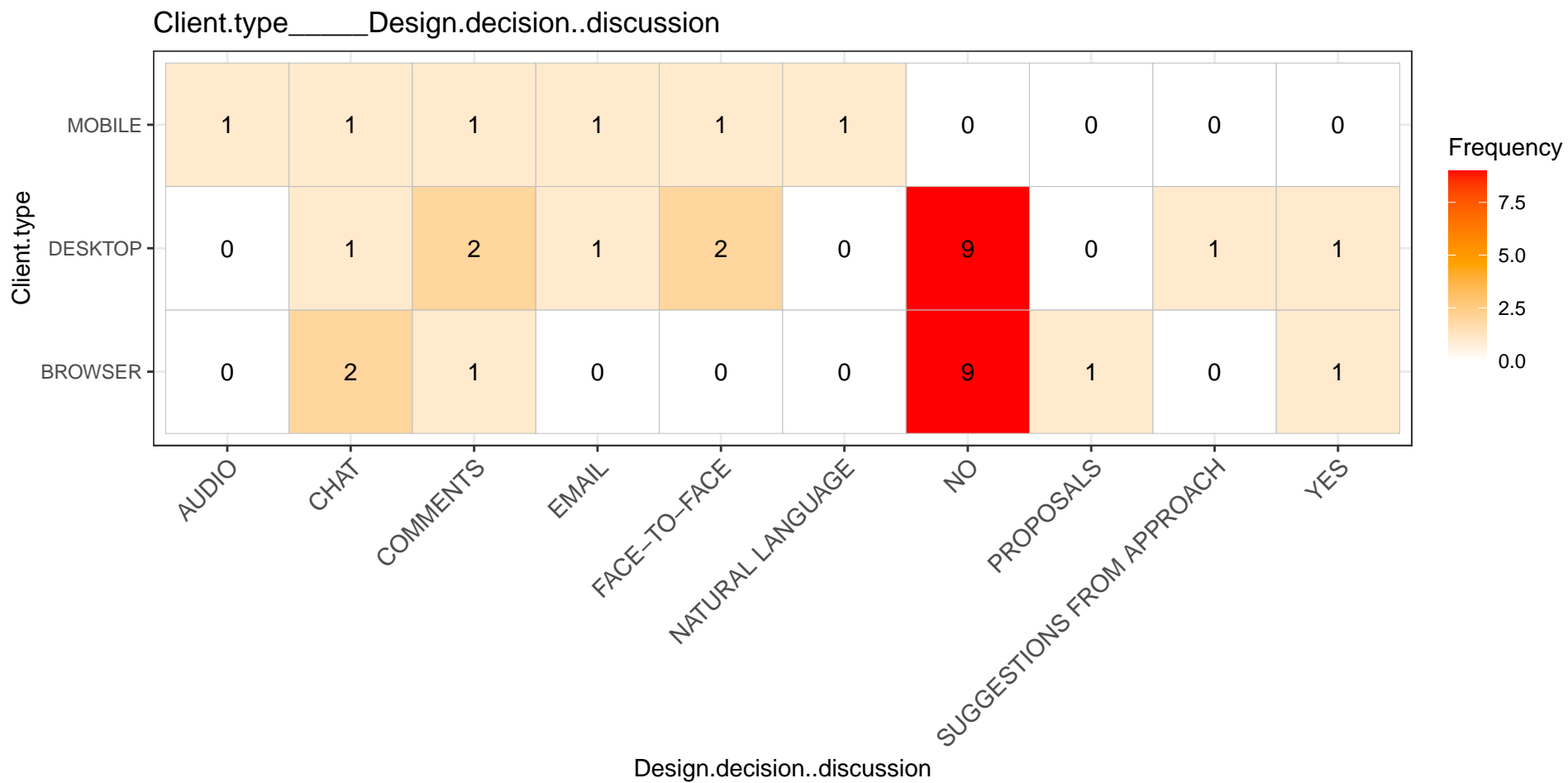


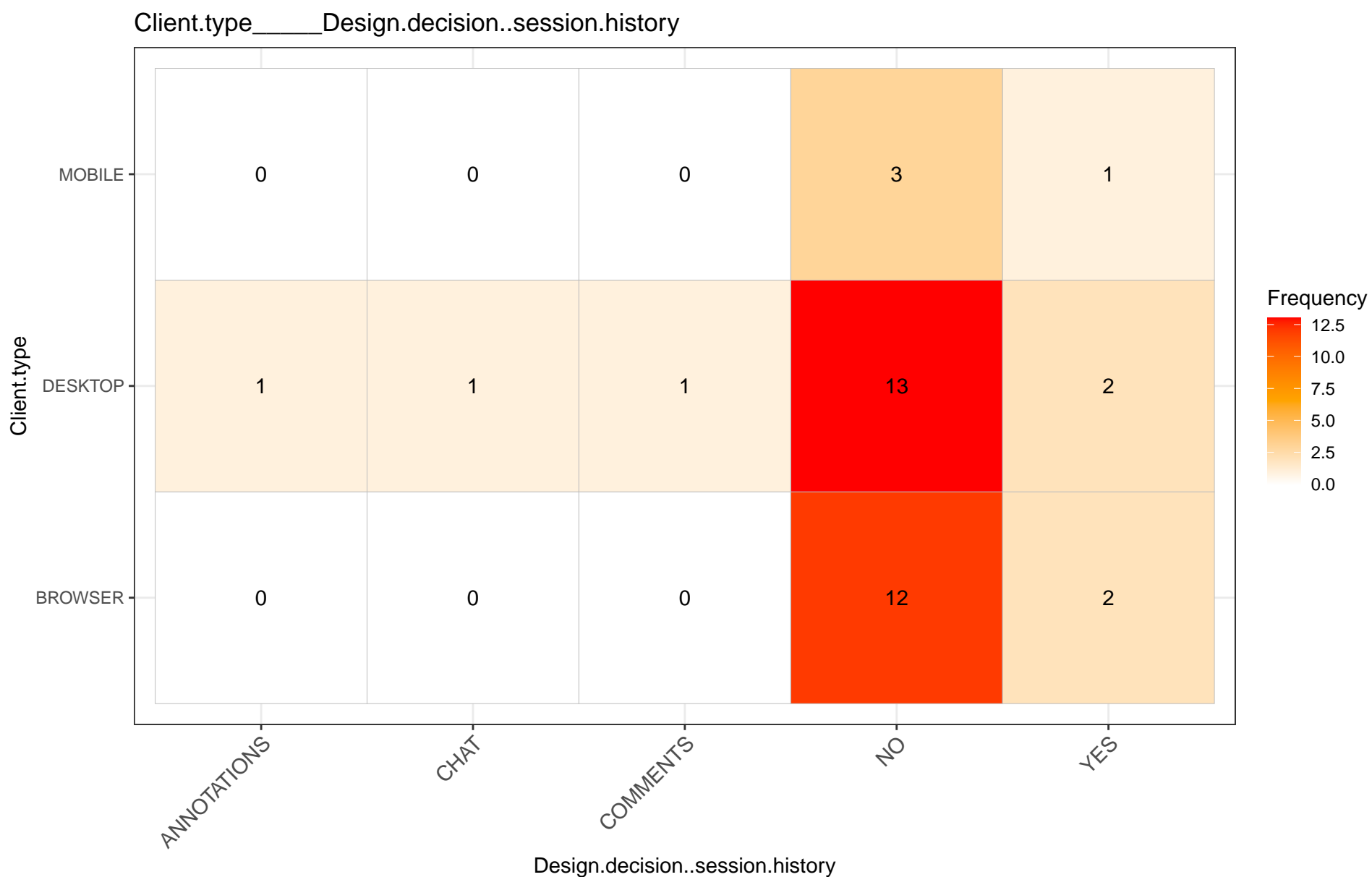


Client.type_____Communication.means...mixed

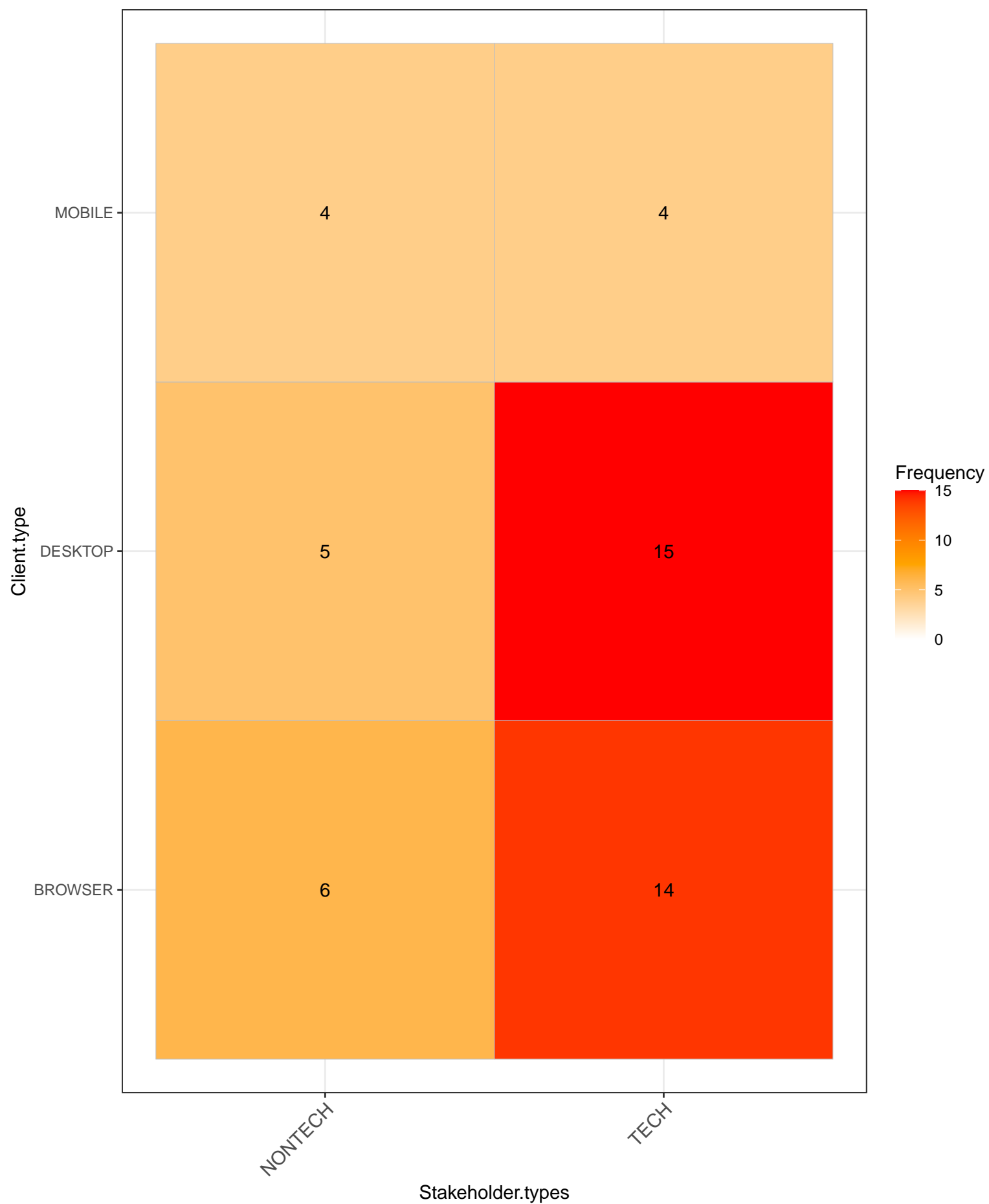


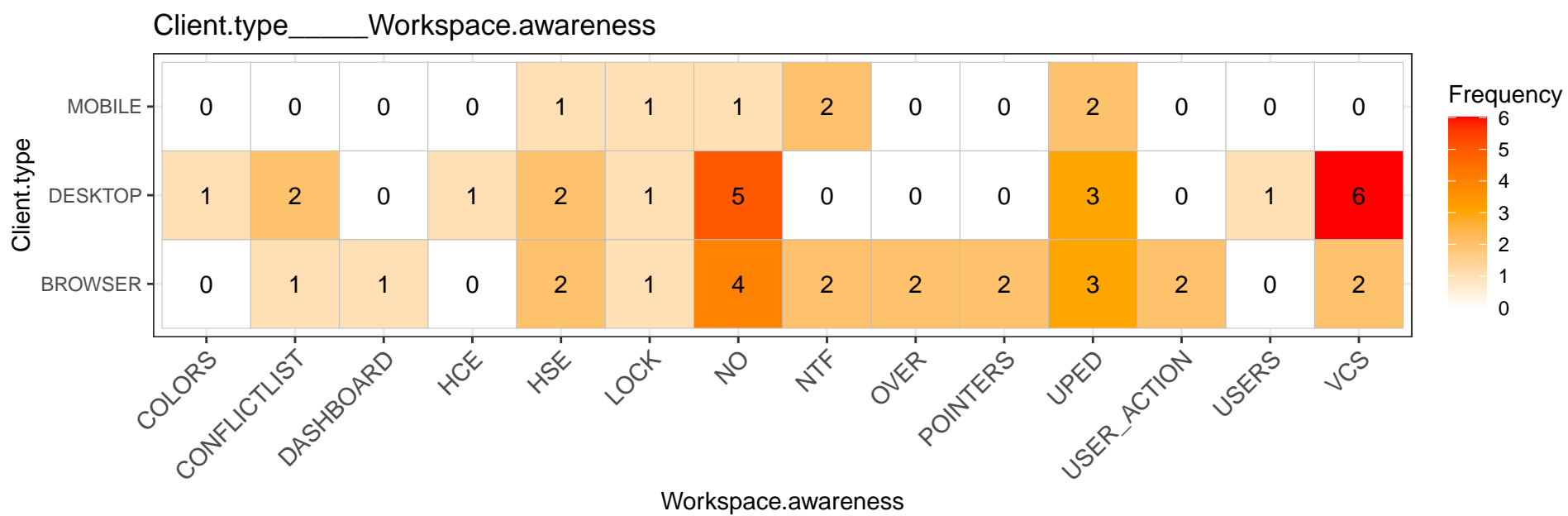






Client.type Stakeholder.types





Client.type_____Workspace.awareness.score

Client.type

MOBILE

2

1

1

DESKTOP

6

6

3

BROWSER

5

8

1

HIGH

LOW

MED

Workspace.awareness.score

Frequency

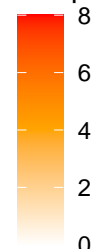
8

6

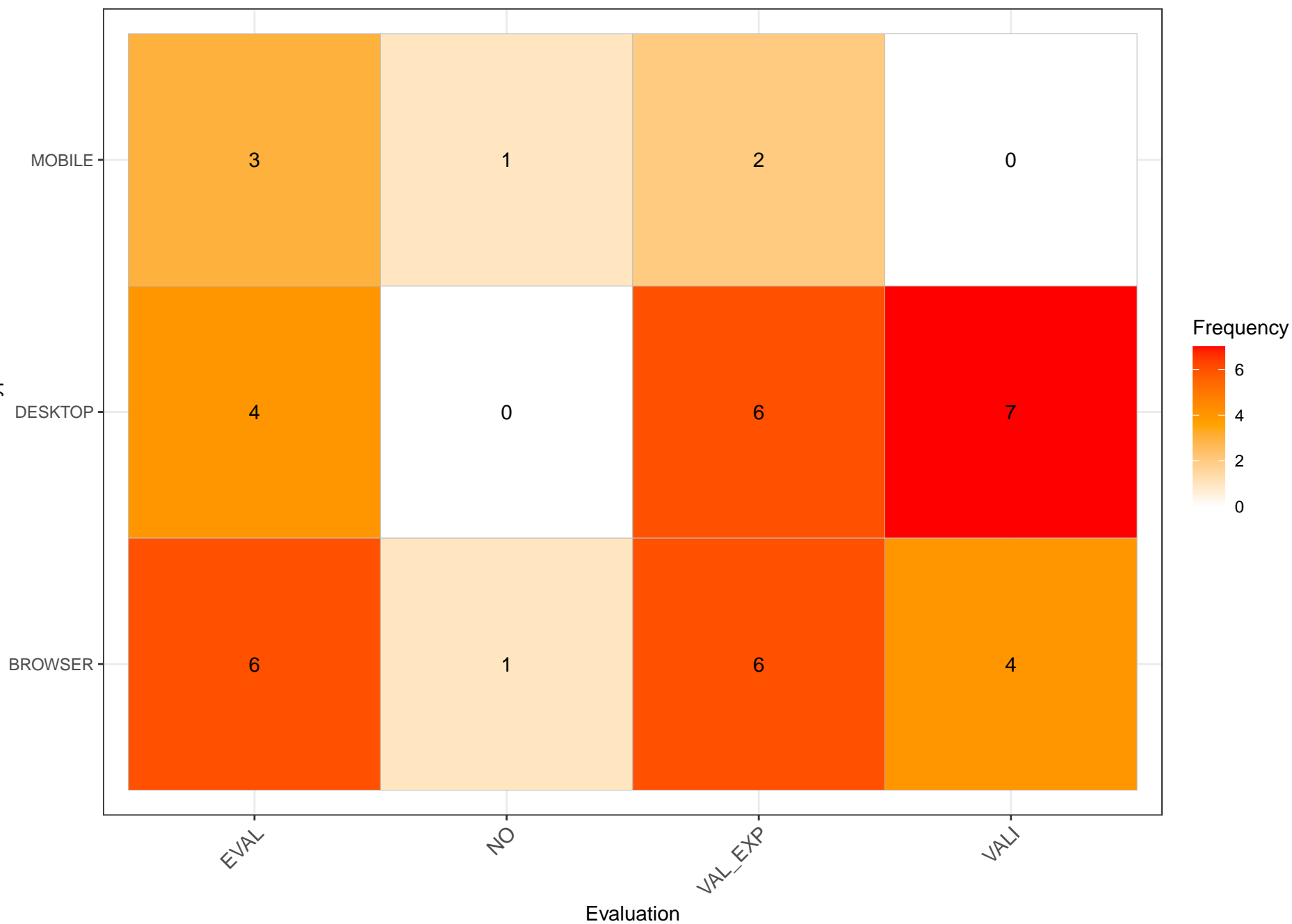
4

2

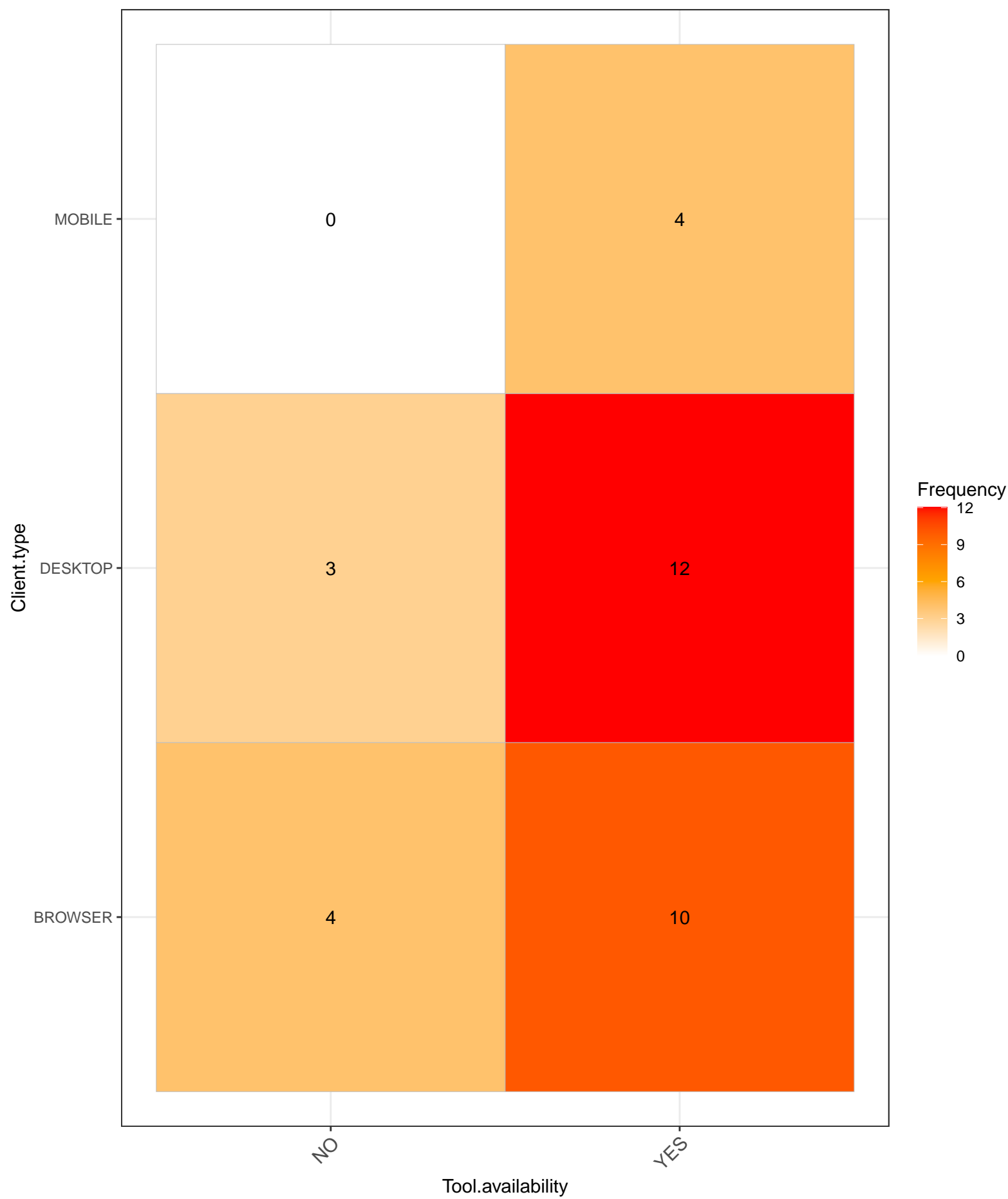
0

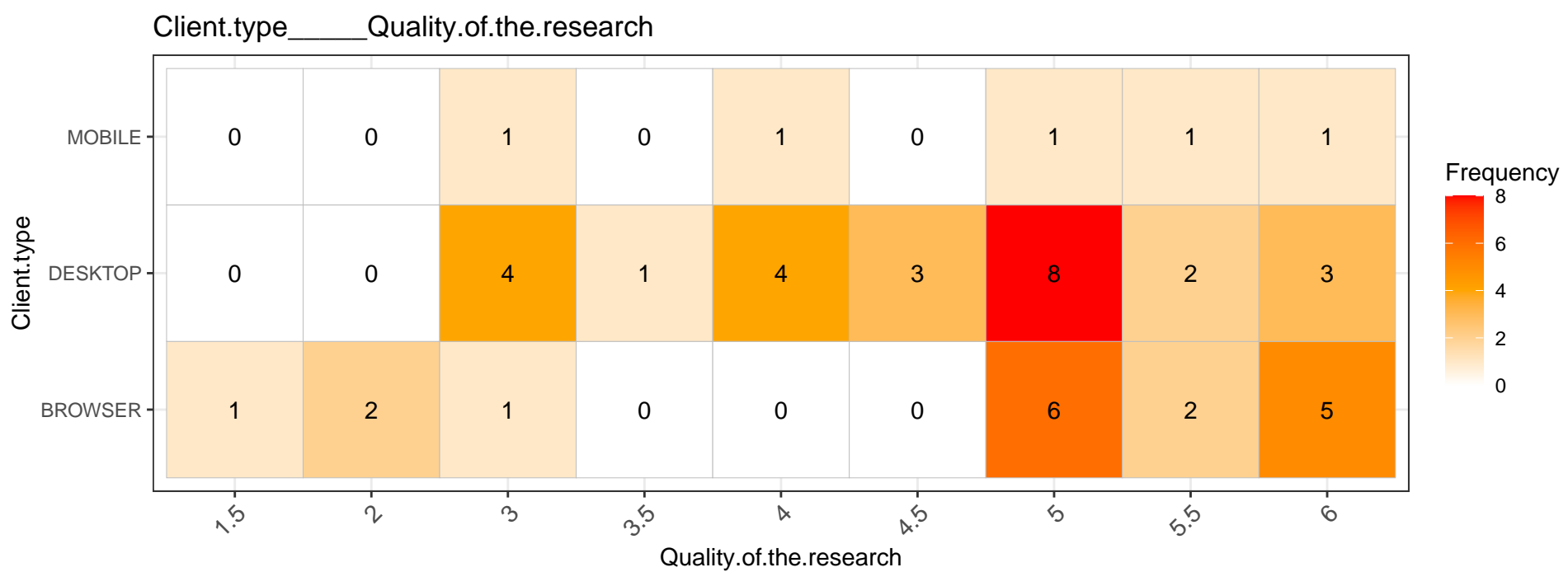


Client.type____Evaluation

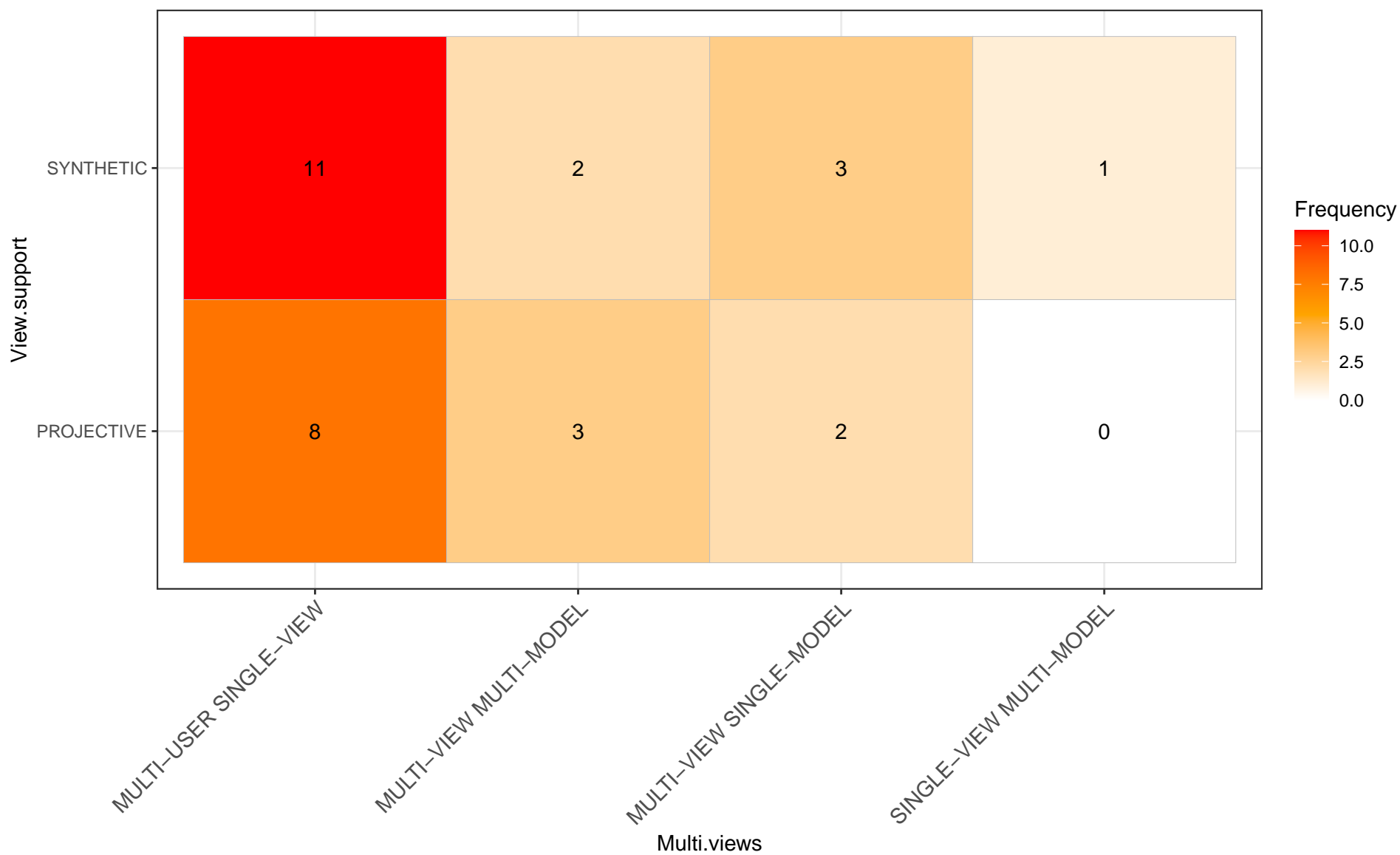


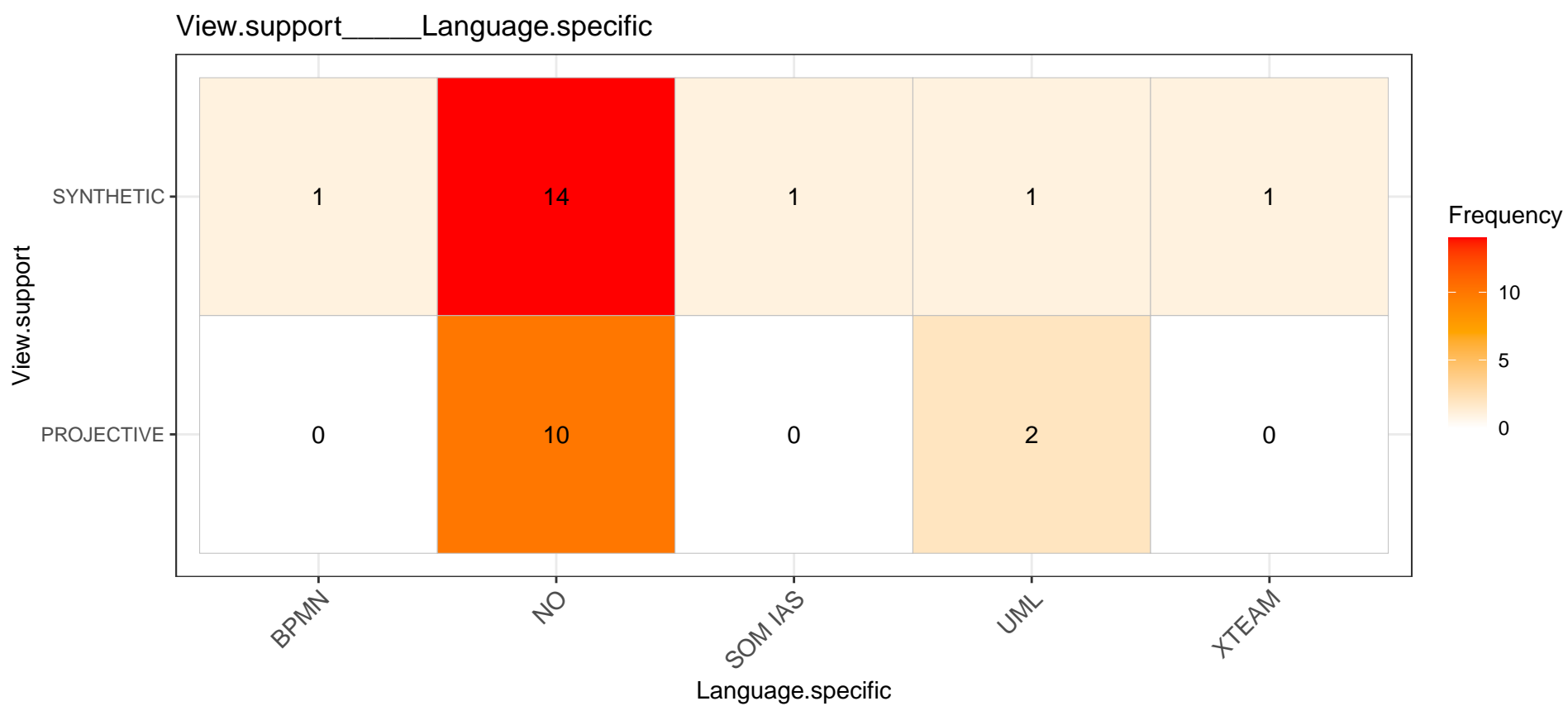
Client.type_____Tool.availability

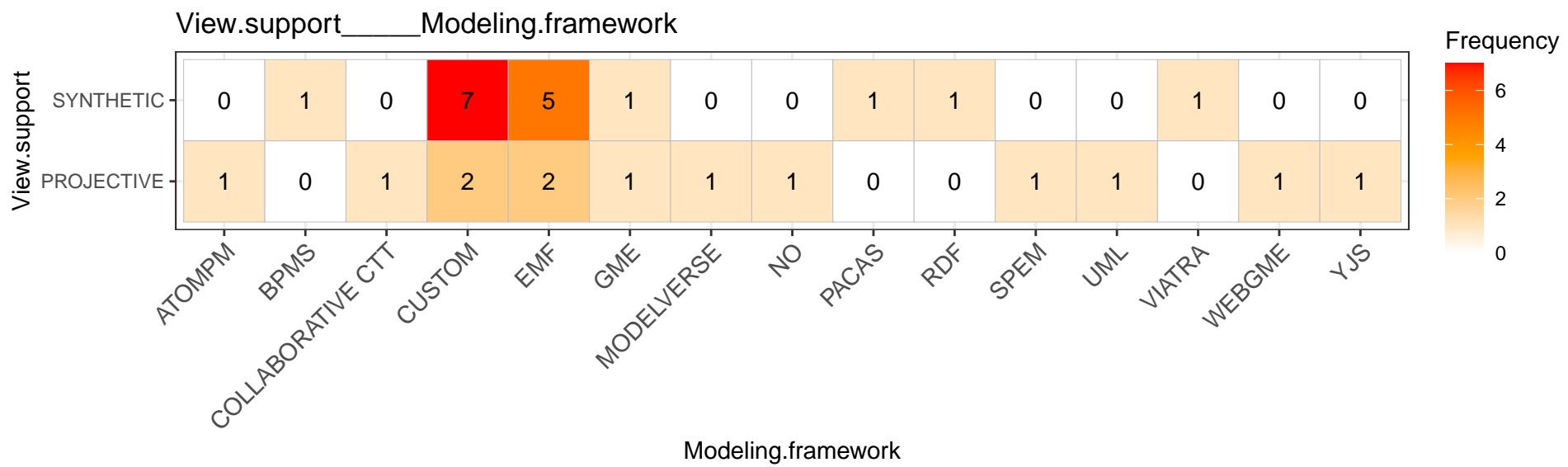




View.support_____Multi.views







View.support_____System.domain

View.support

SYNTHETIC

14

3

PROJECTIVE

9

3

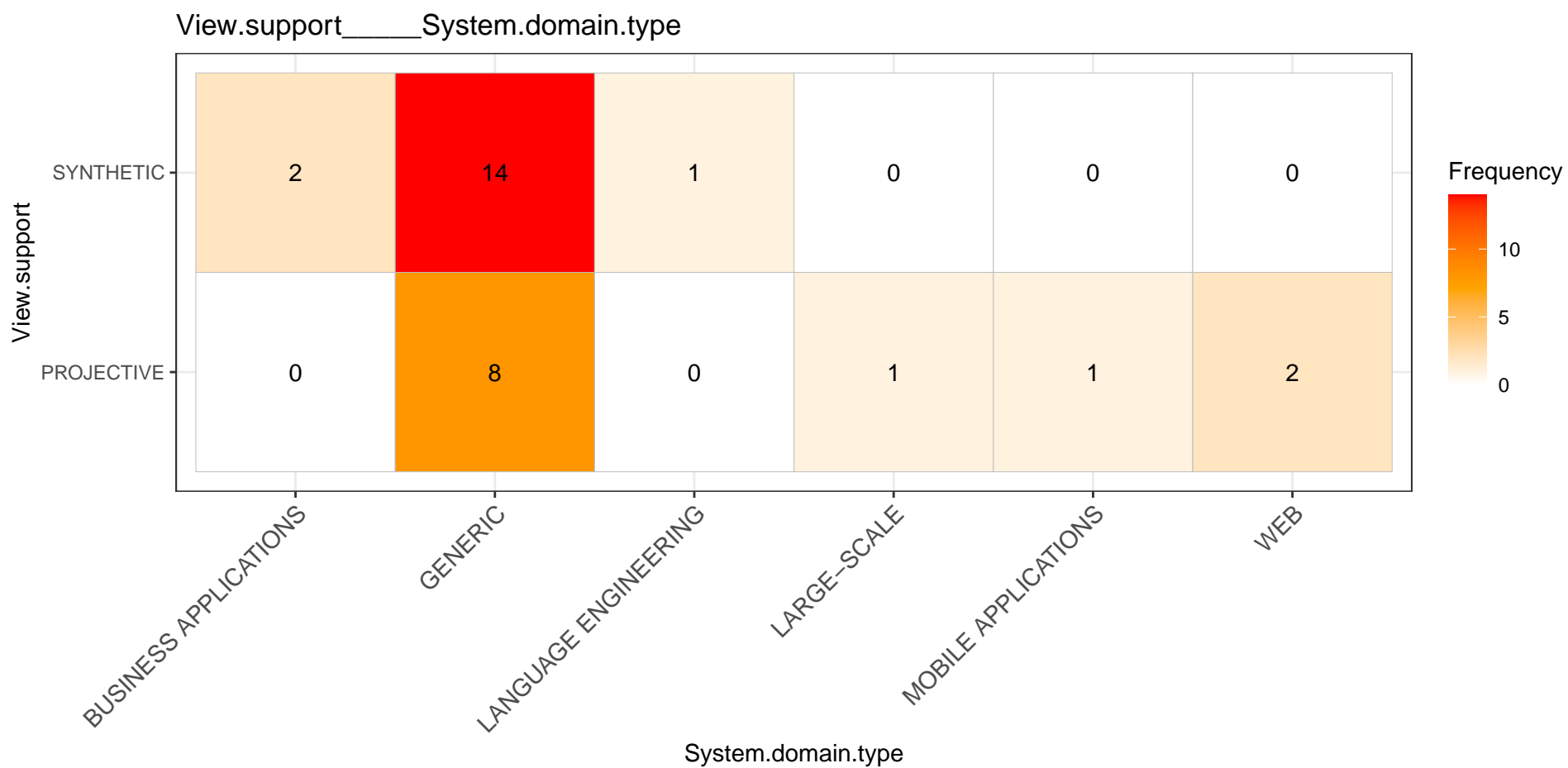
GENERIC

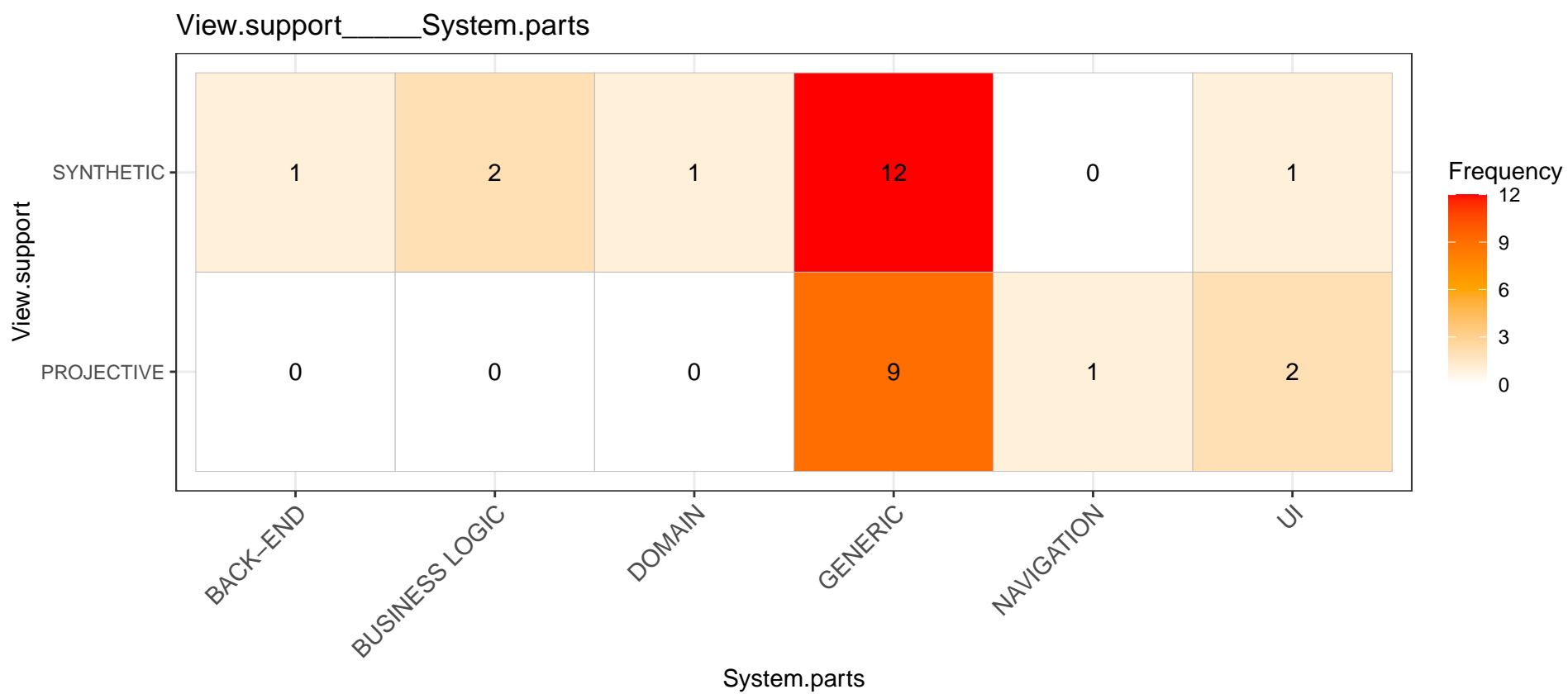
SPECIFIC

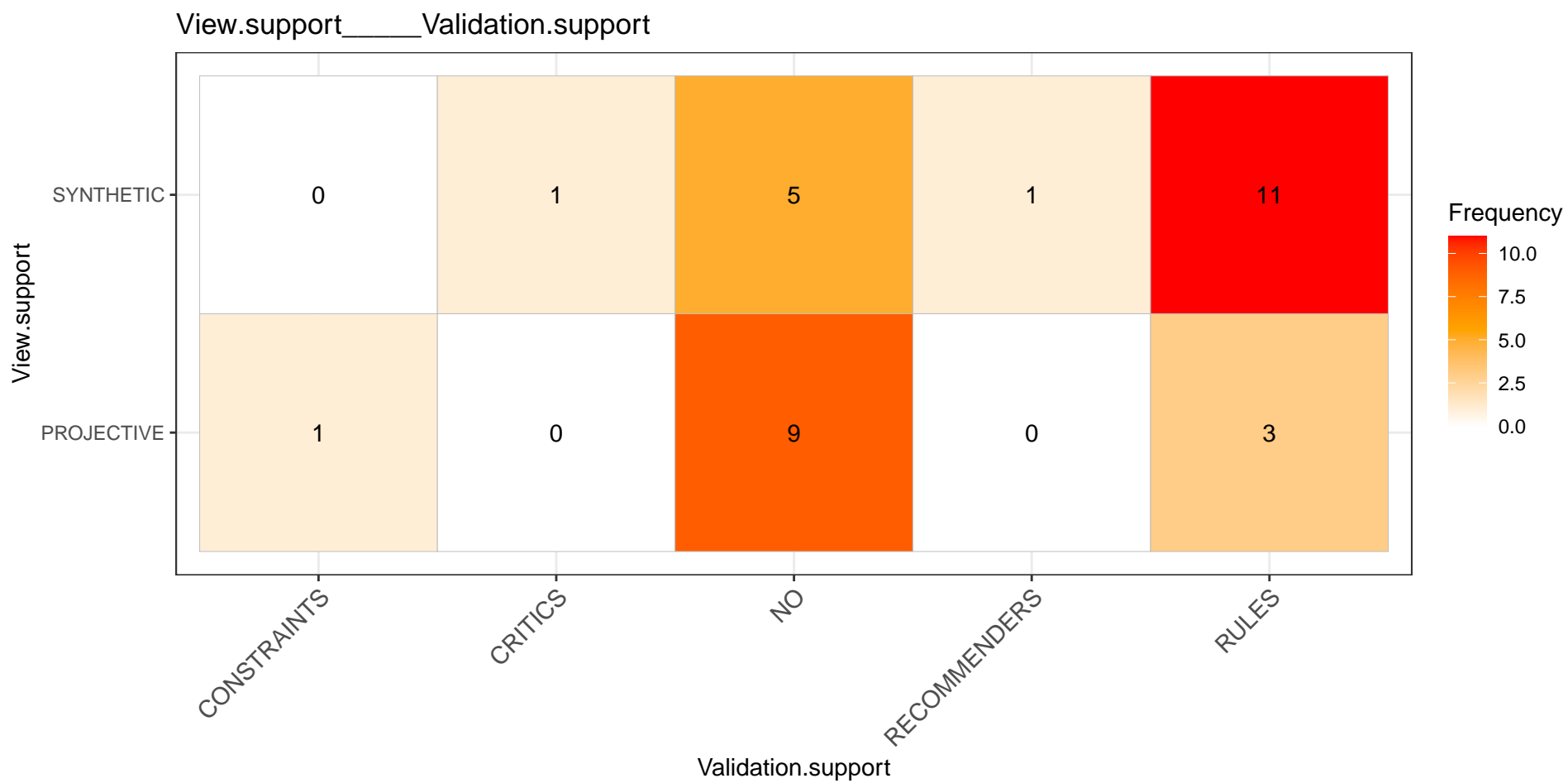
System.domain

Frequency









View.support Collaboration.types

View.support

SYNTHETIC

5

2

11

PROJECTIVE

3

2

8

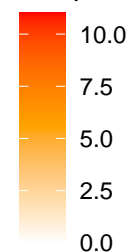
OFF-LINE AUTOMATED CHANGE PROPAGATION

OFF-LINE MANUAL CHANGE PROPAGATION

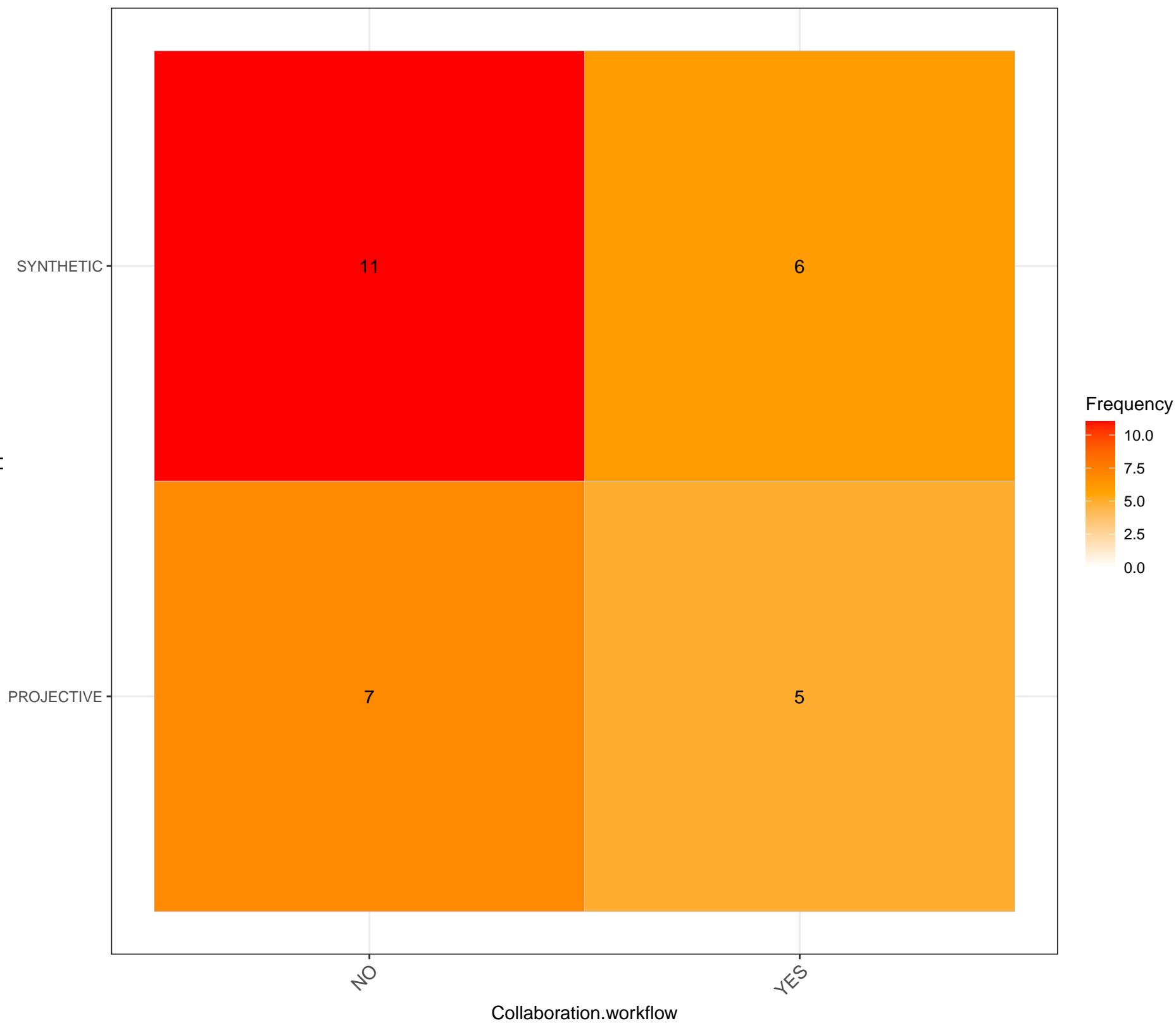
REAL-TIME

Collaboration.types

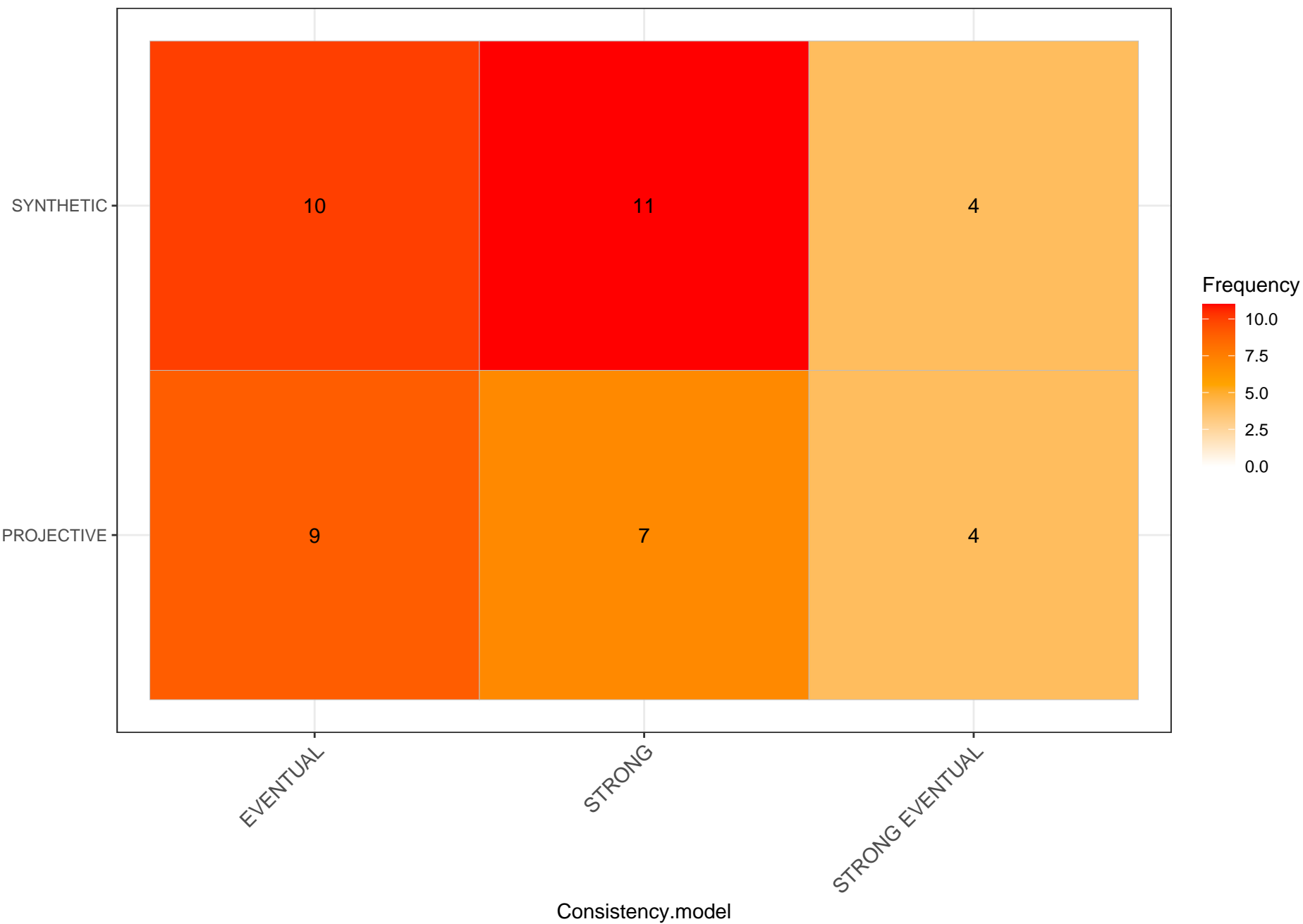
Frequency



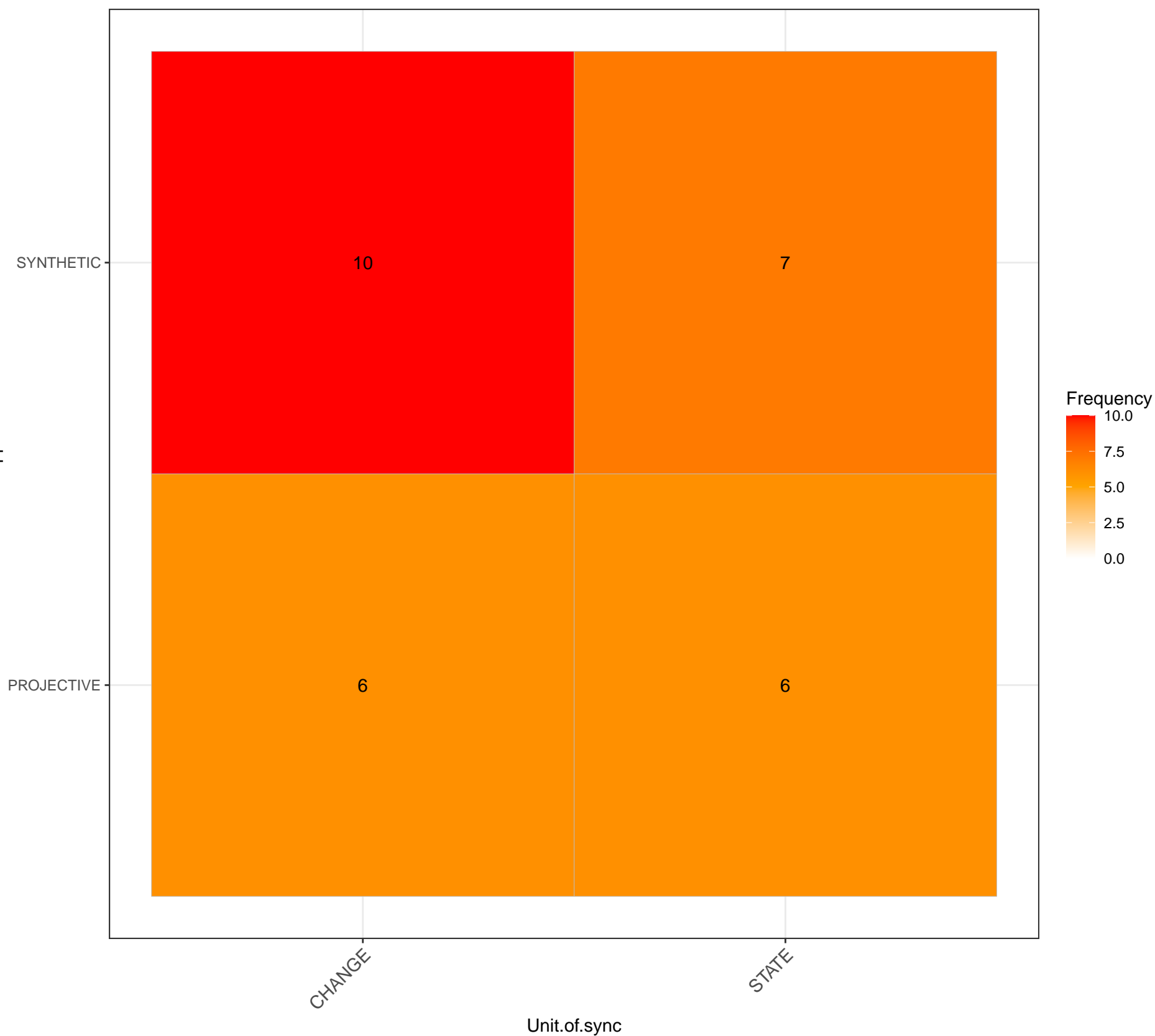
View.support____Collaboration.workflow

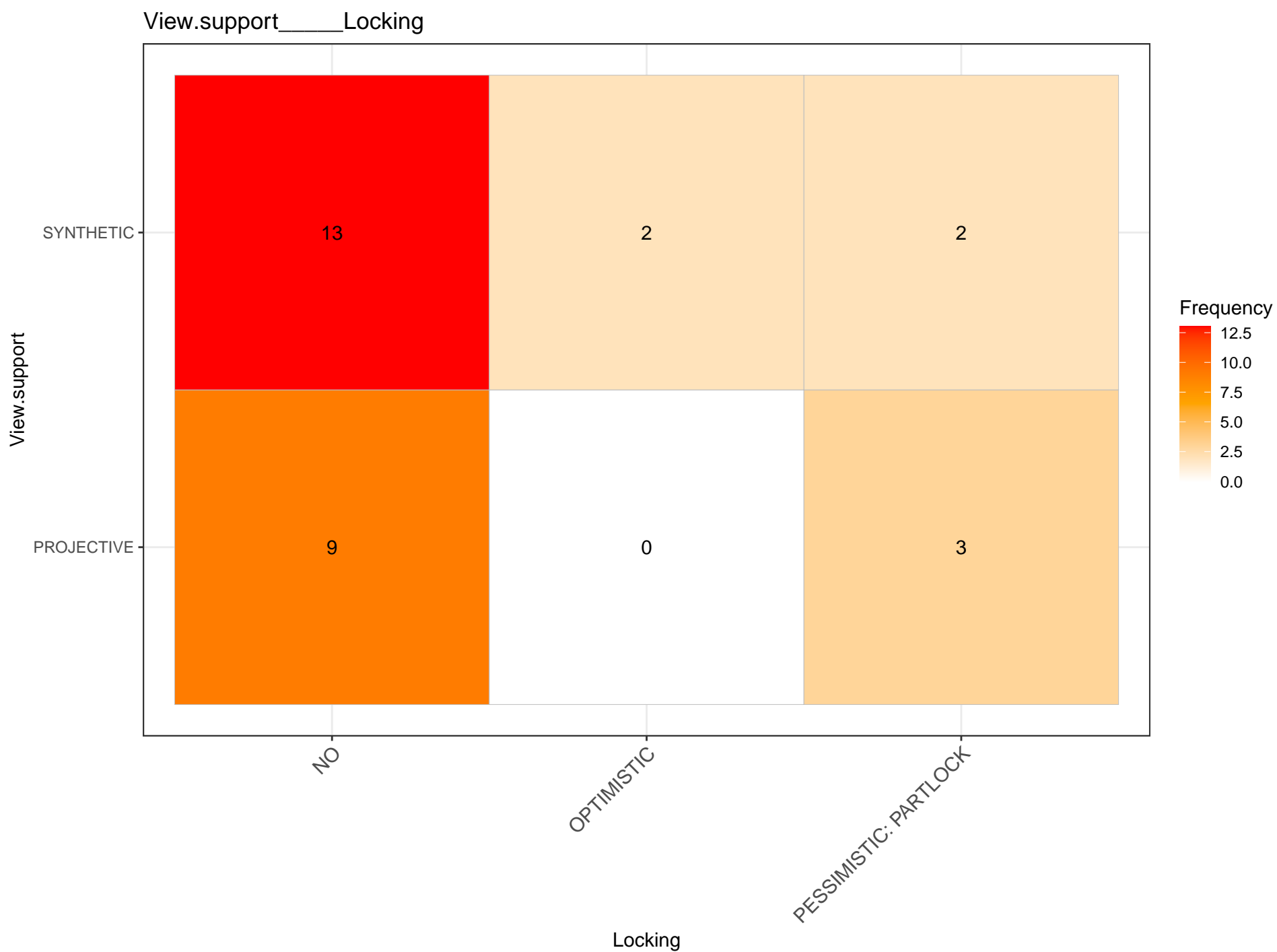


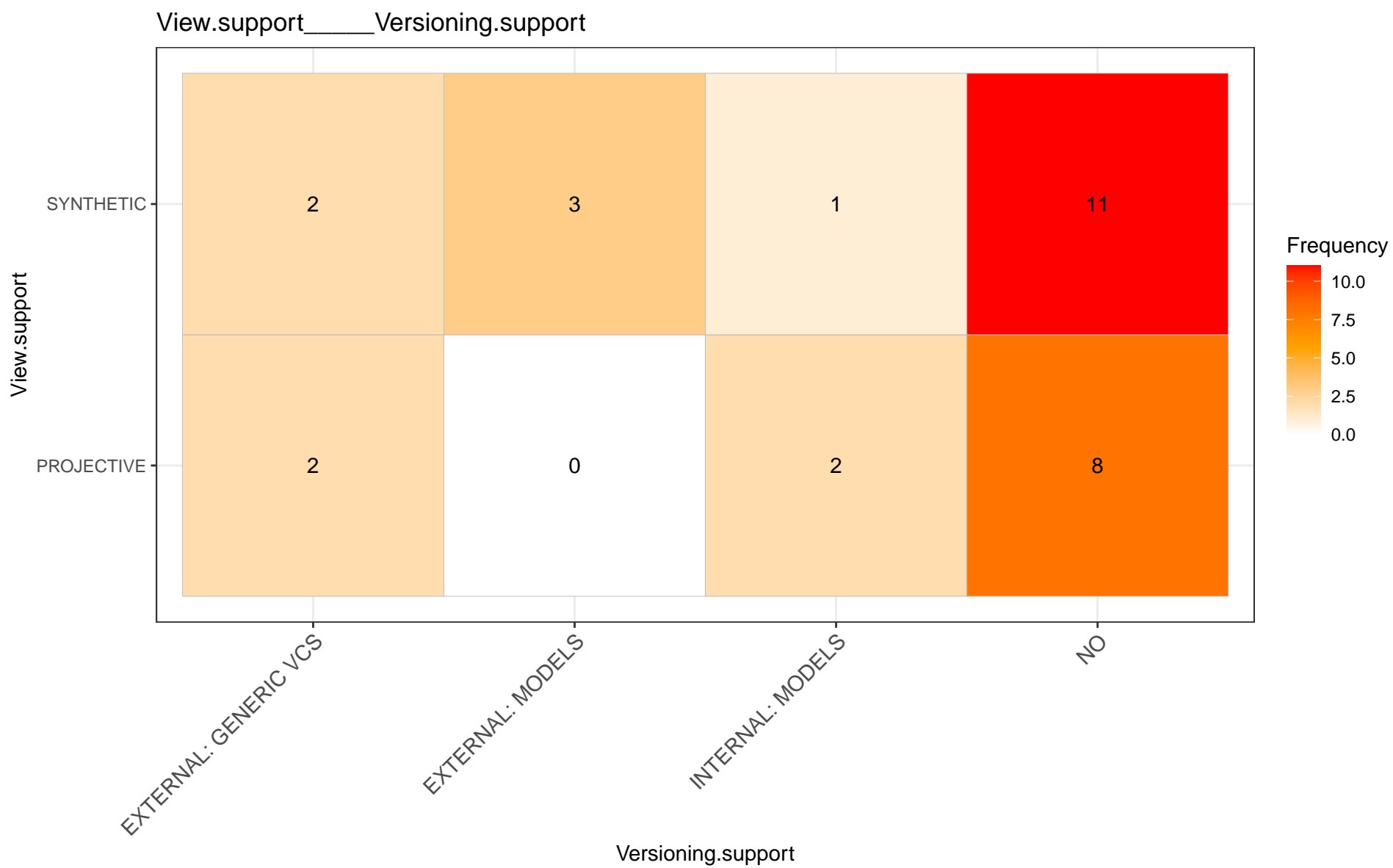
View.support_____Consistency.model



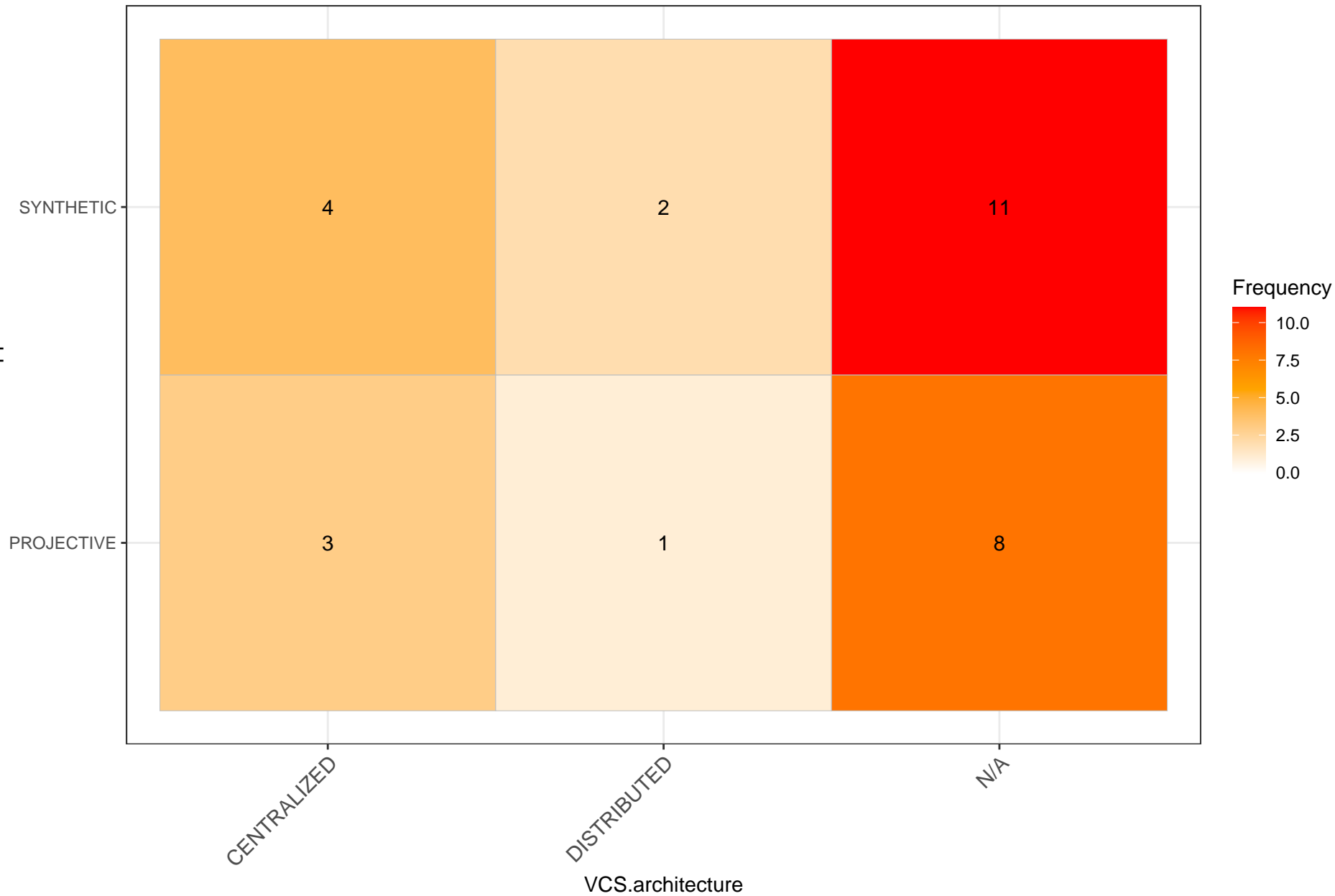
View.support_____Unit.of.sync







View.support____VCS.architecture



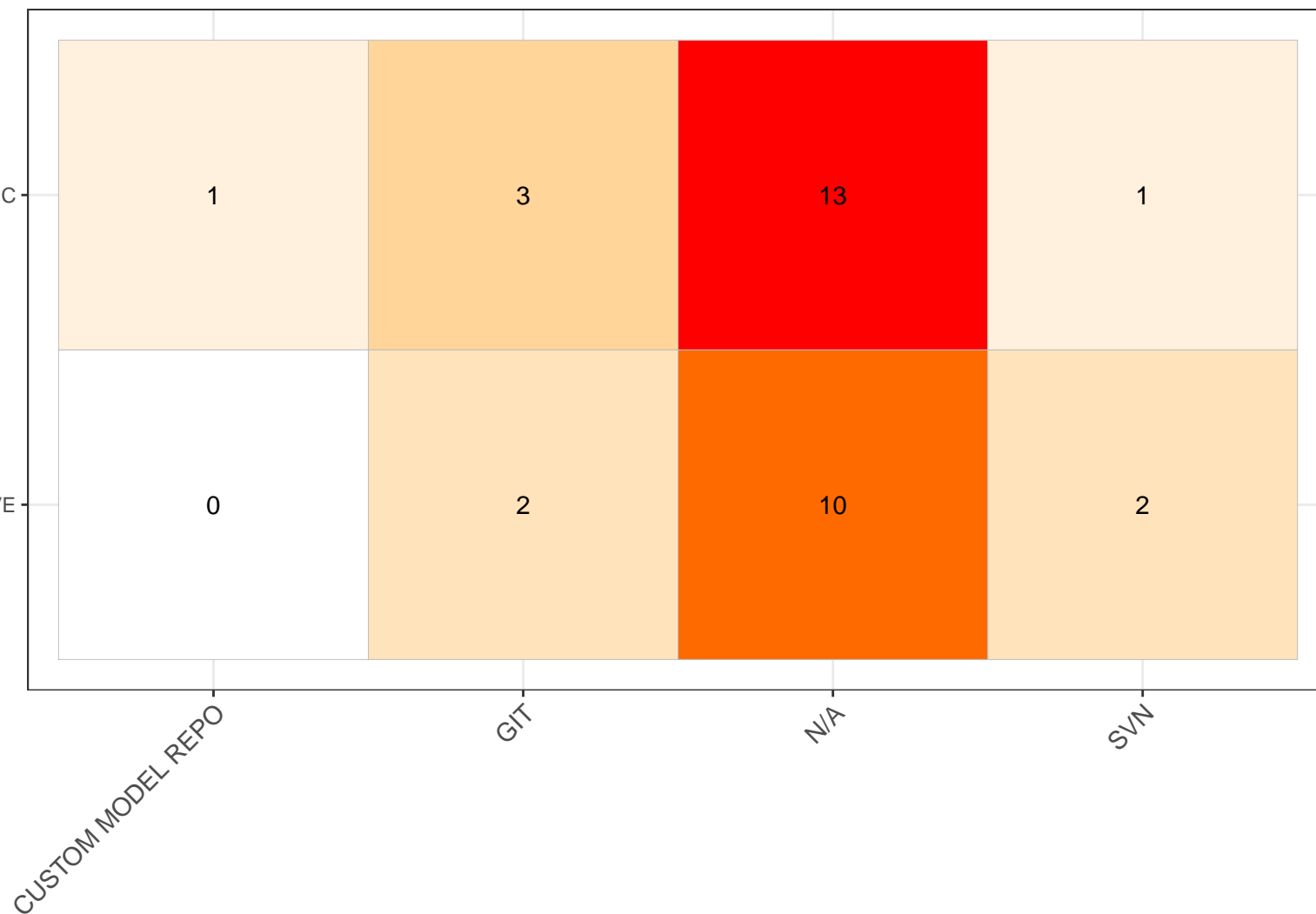
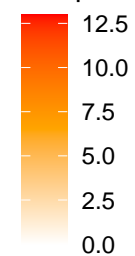
View.support_____External.VCS.means

View.support

SYNTHETIC

PROJECTIVE

Frequency



External.VCS.means

View.support_____Branching

SYNTHETIC

1

16

View.support

PROJECTIVE

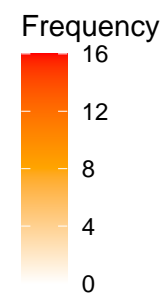
2

10

MULTI-BRANCHING

NO

Branching



View.support____Model.merging.support

SYNTHETIC

11

6

View.support

Frequency

10.0

7.5

5.0

2.5

0.0

PROJECTIVE

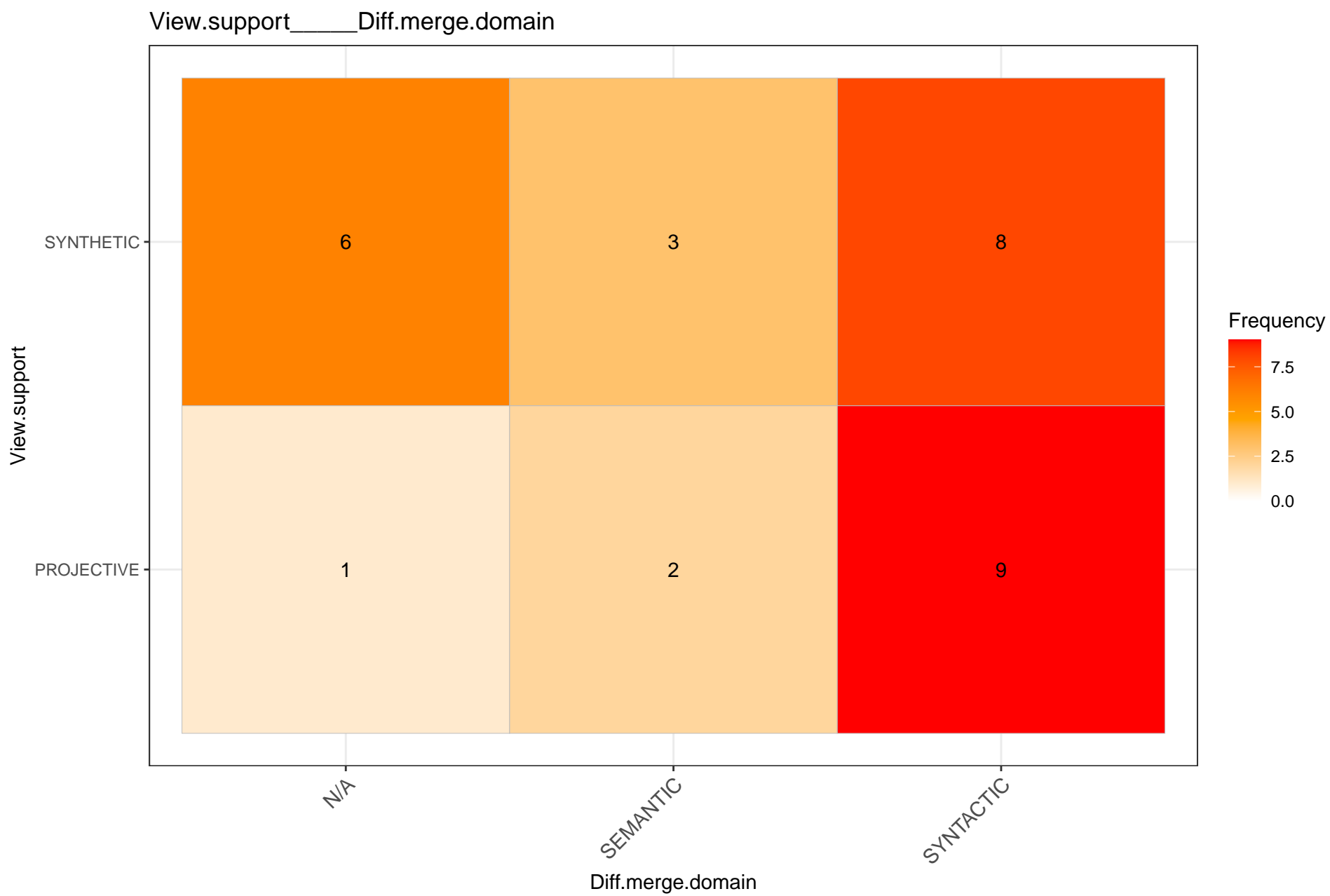
11

1

NO

YES

Model.merging.support



View.support_____Conflict.mgmt.approach

View.support

SYNTHETIC

7

5

5

PROJECTIVE

4

5

3

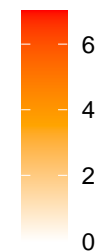
ALLOW&RESOLVE

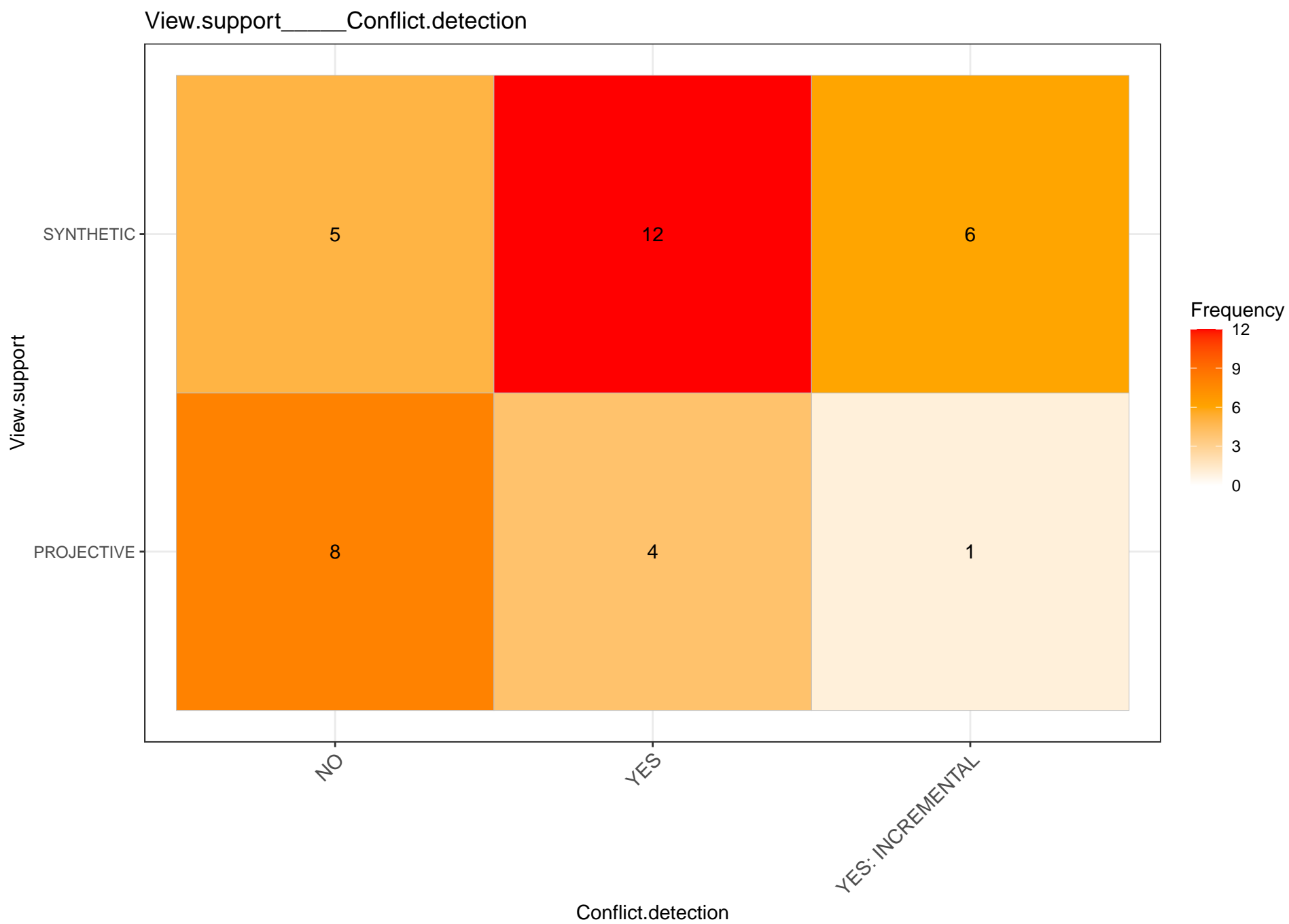
NO

PREVENTIVE

Conflict.mgmt.approach

Frequency





View.support_____Conflict.awareness..User.

SYNTHETIC

9

1

7

View.support

PROJECTIVE

10

1

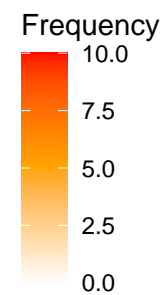
1

NO

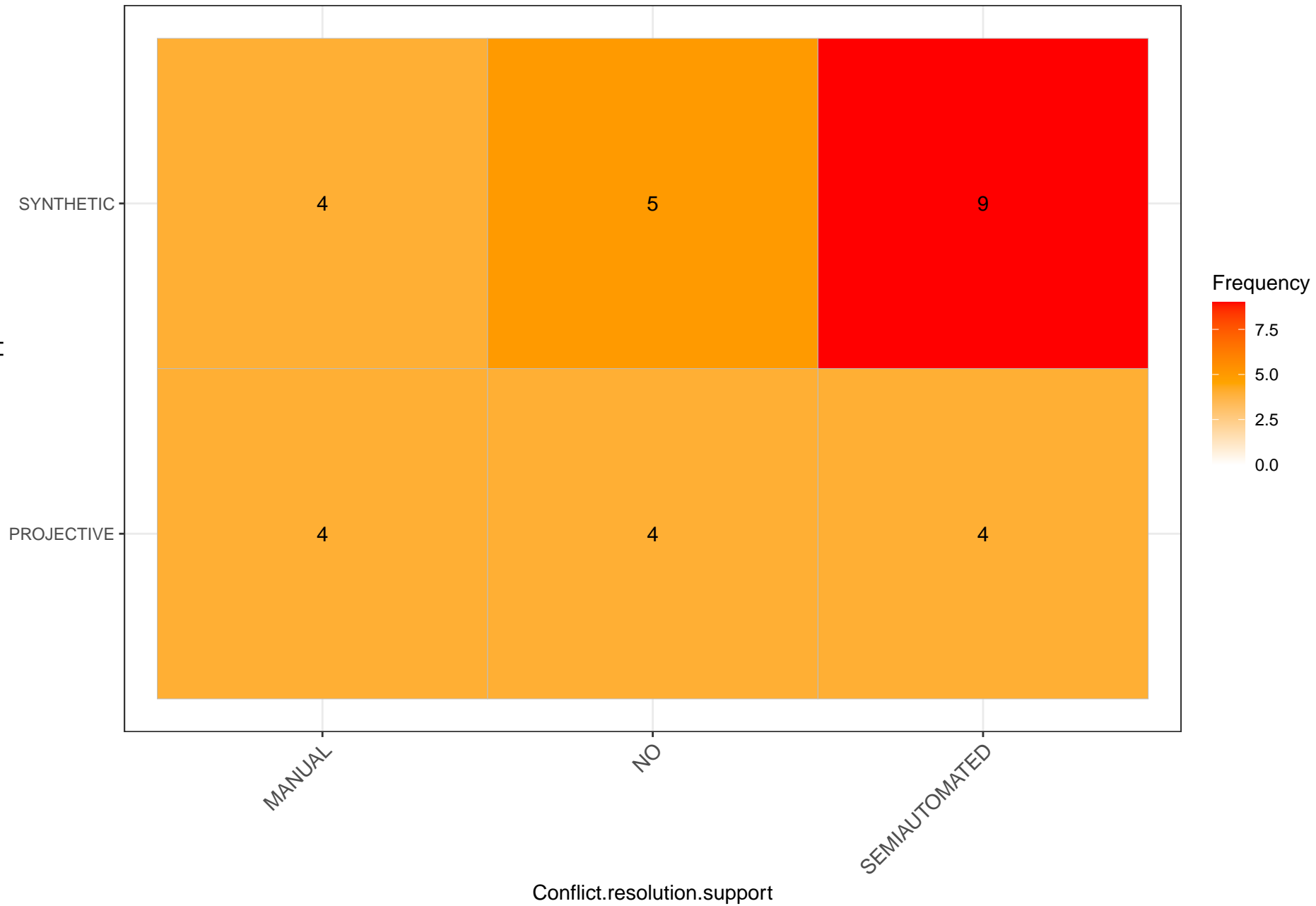
PROMPT ACTION

WARNING

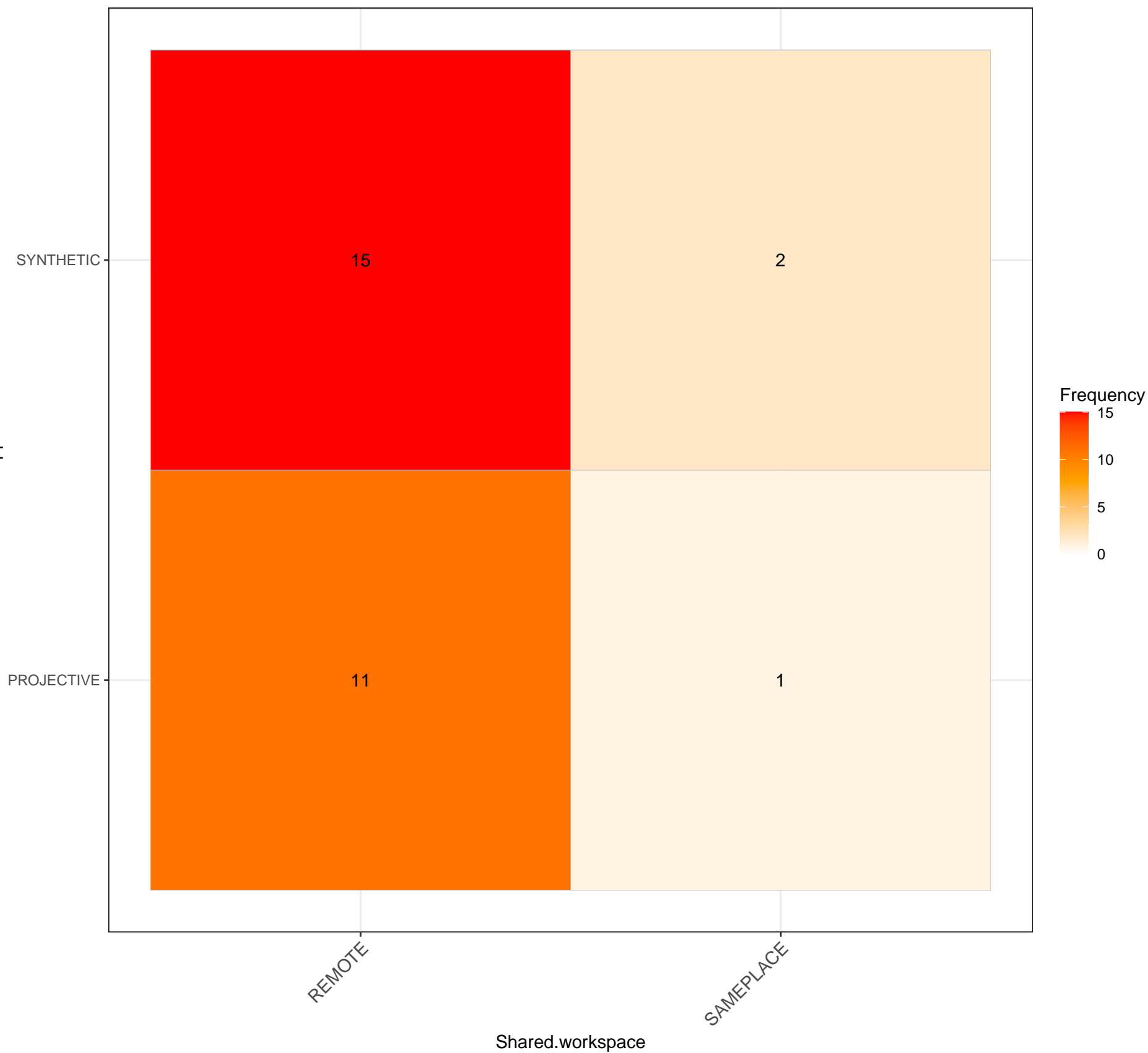
Conflict.awareness..User.

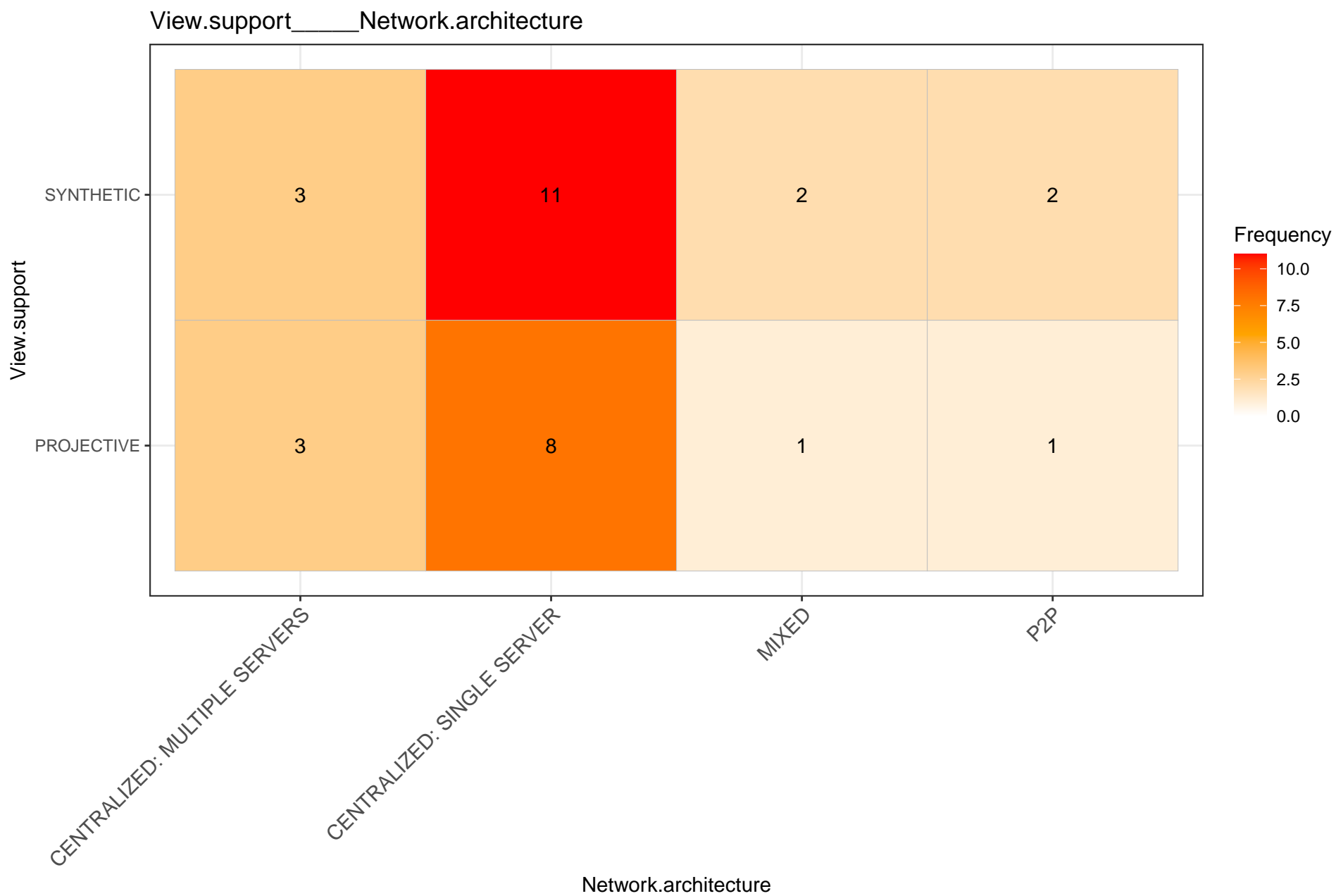


View.support_____Conflict.resolution.support



View.support_____Shared.workspace





View.support_____Communication.type

View.support

SYNTHETIC

14

17

PROJECTIVE

7

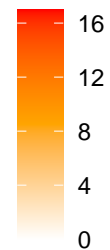
12

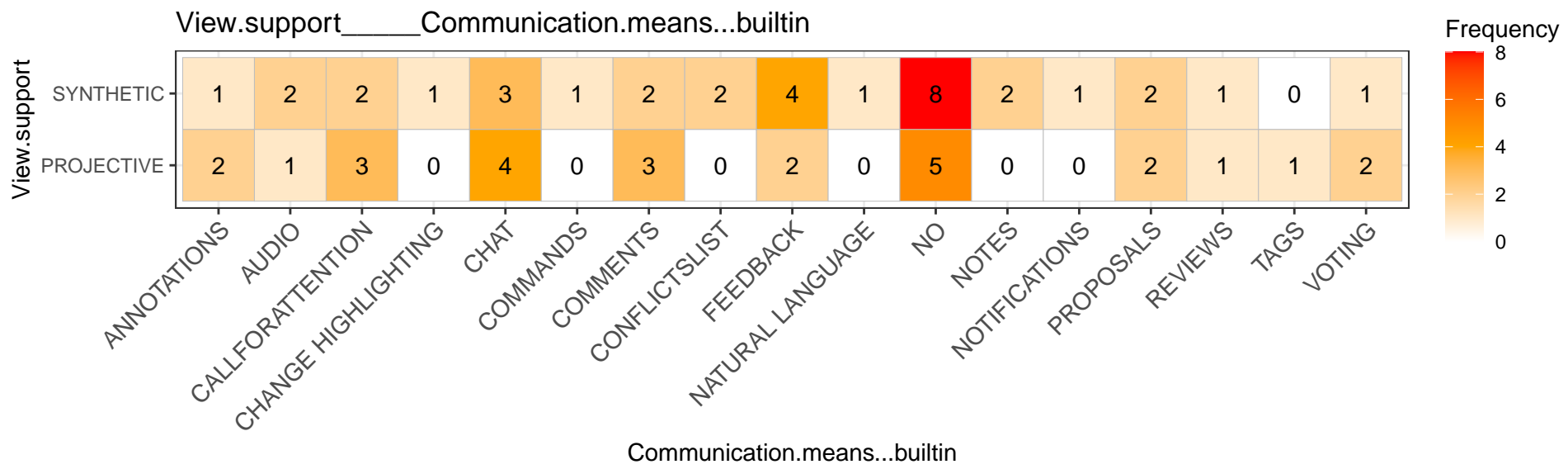
ASYNCHRONOUS

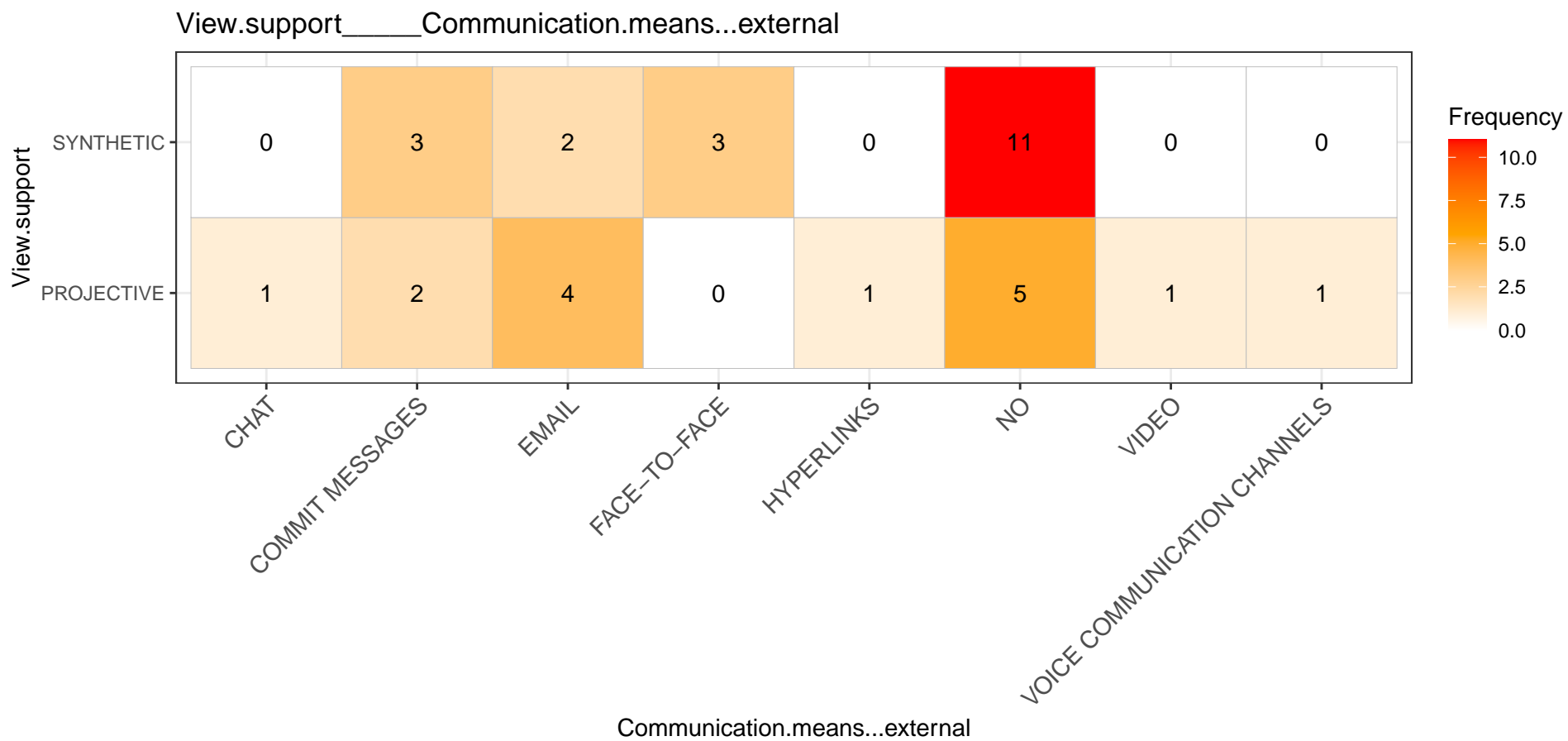
SYNCHRONOUS

Communication.type

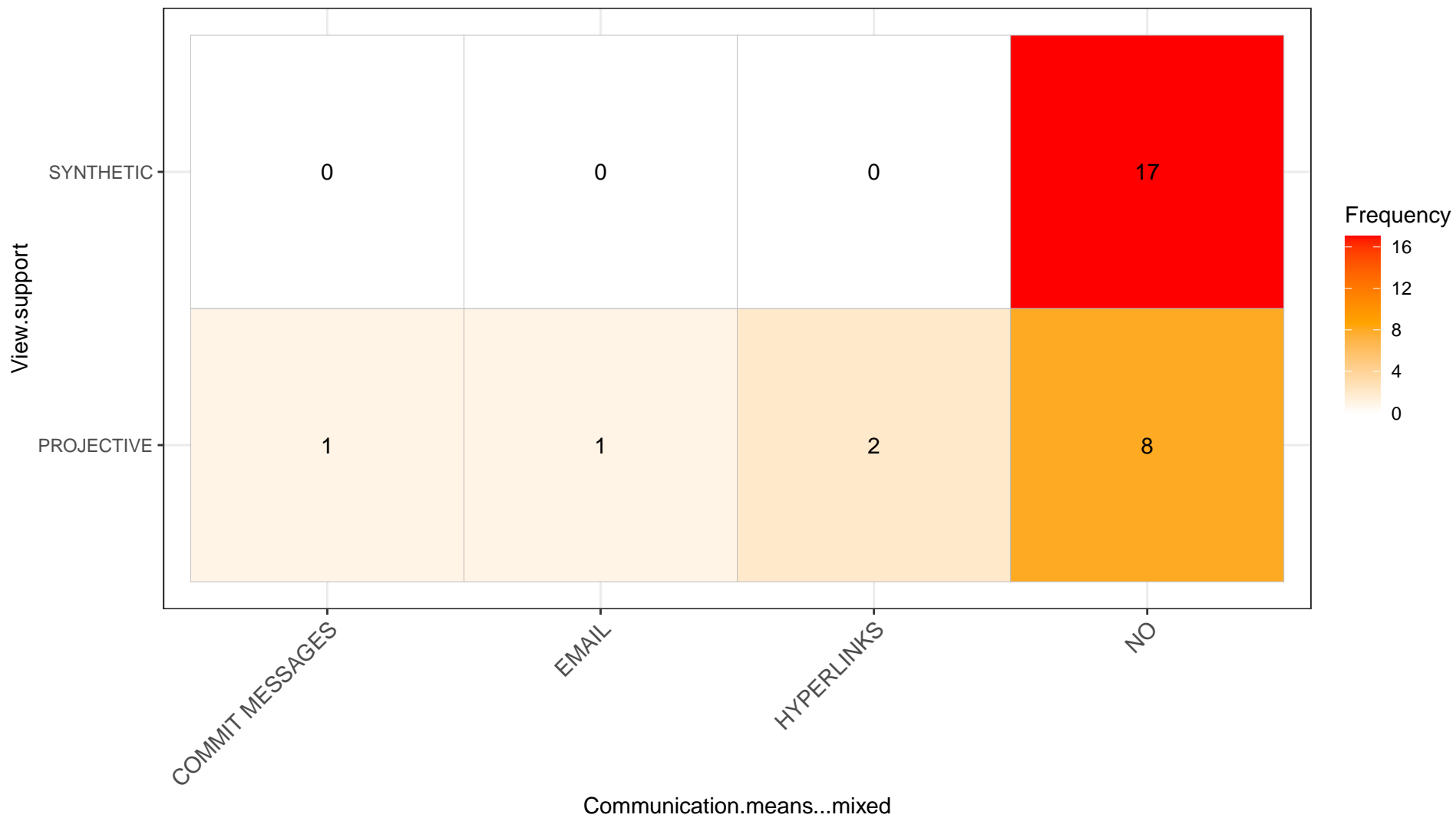
Frequency

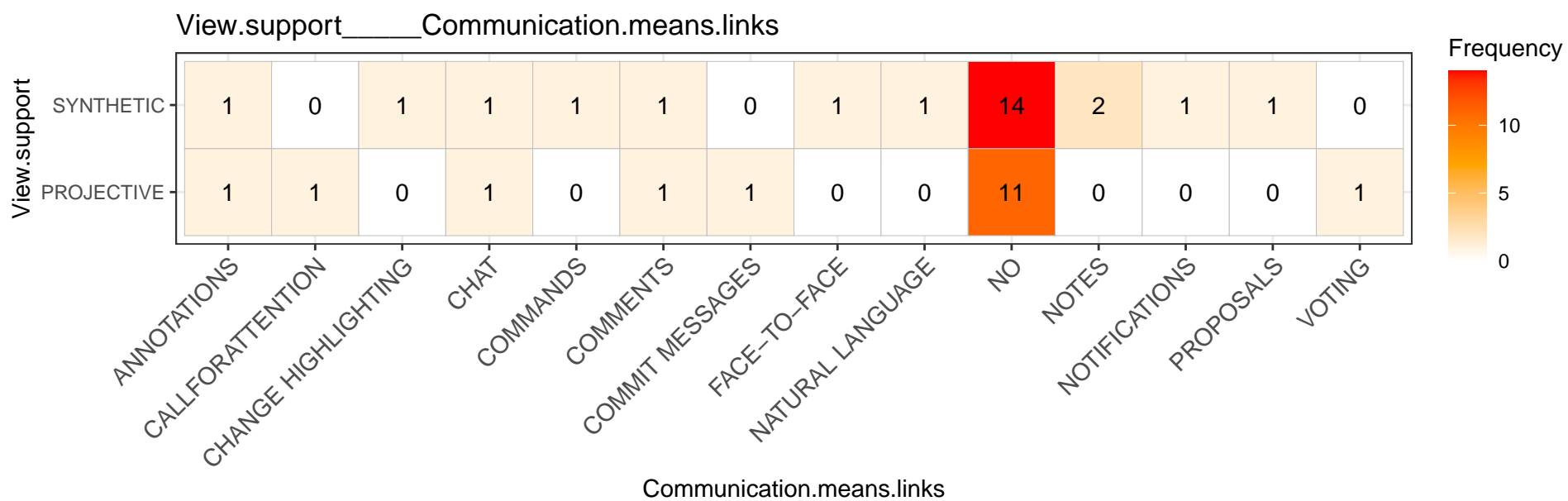


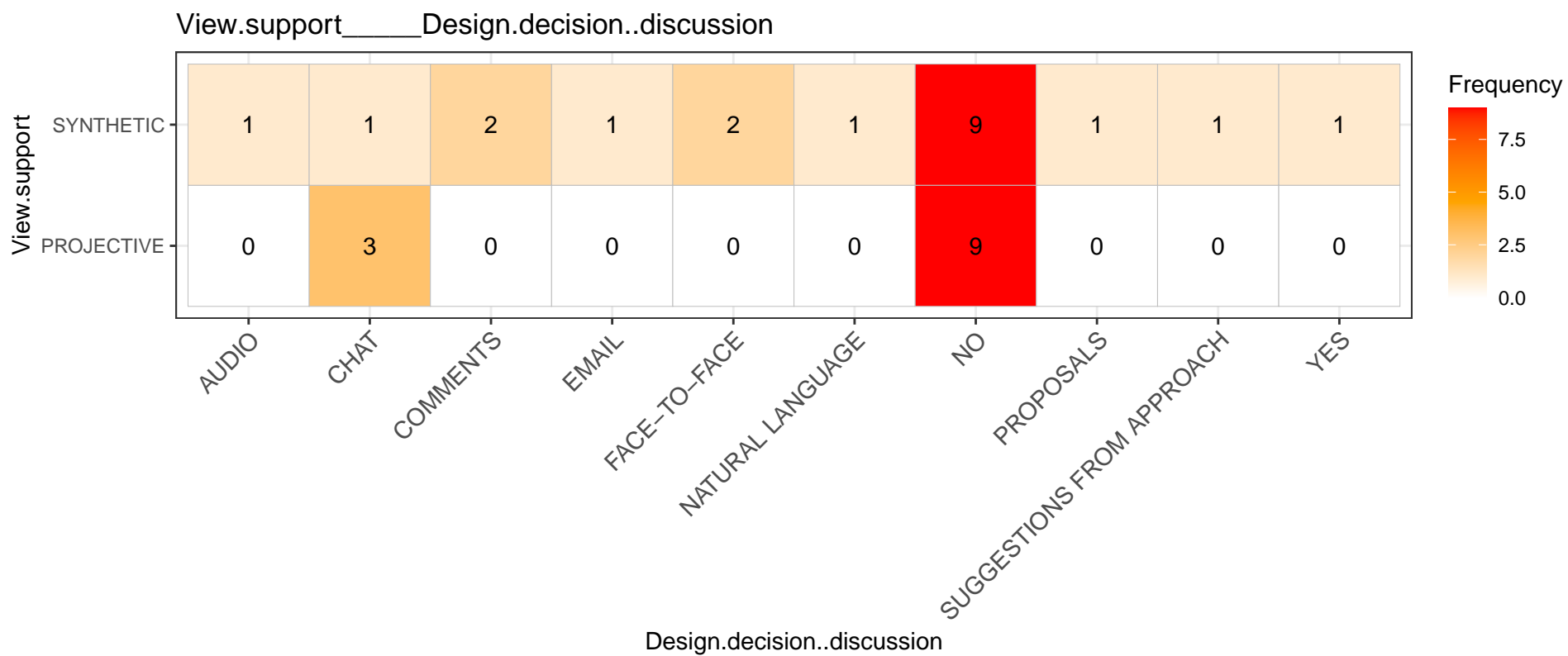


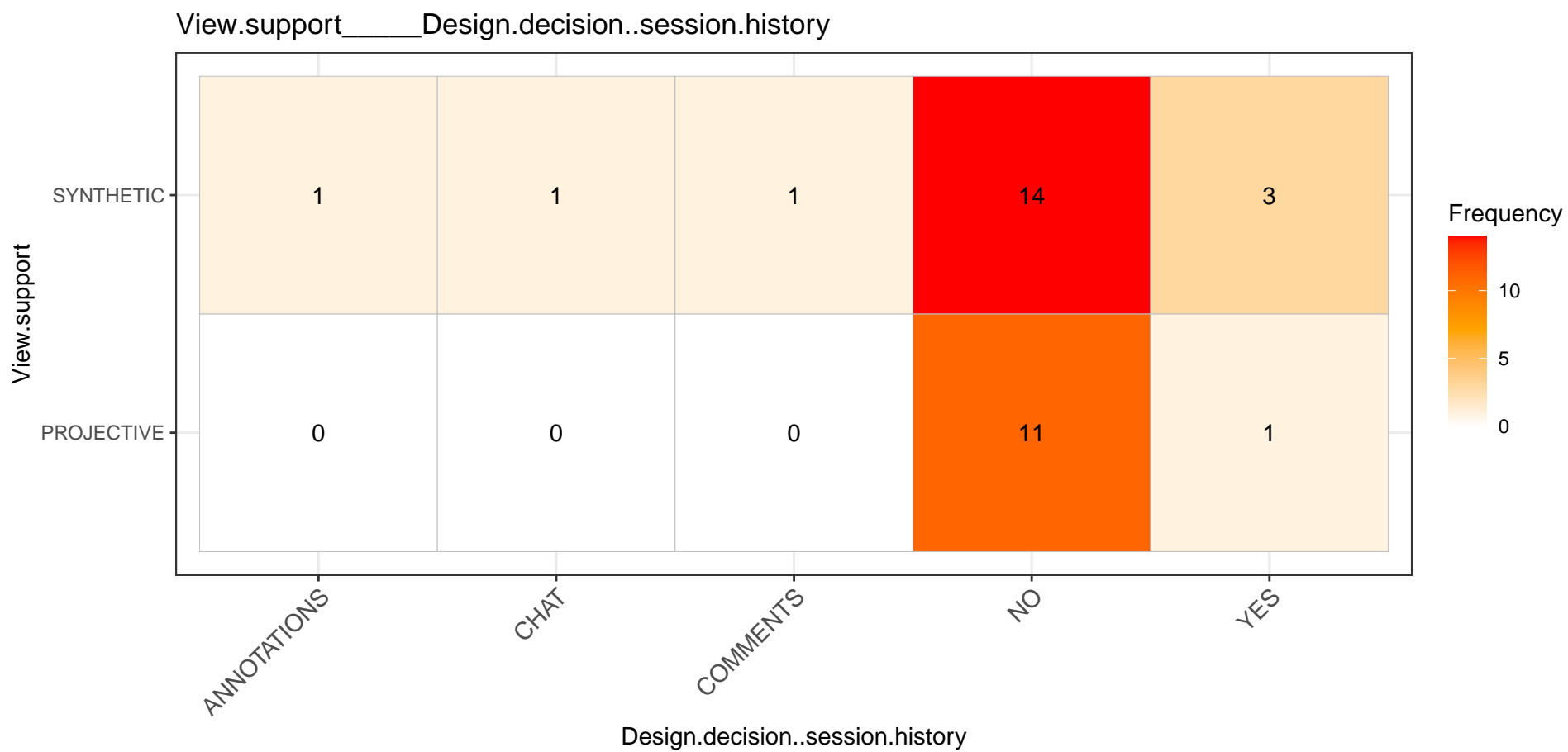


View.support_____Communication.means...mixed









View.support_____Stakeholder.types

View.support

SYNTHETIC

7

17

PROJECTIVE

4

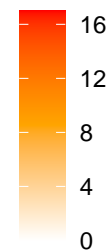
12

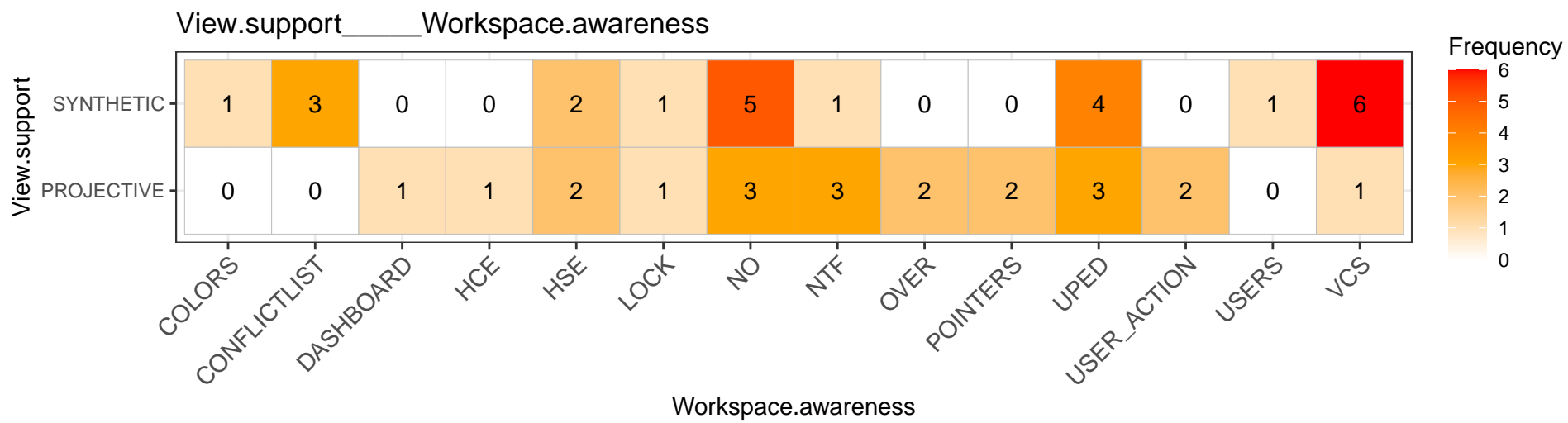
NONTECH

TECH

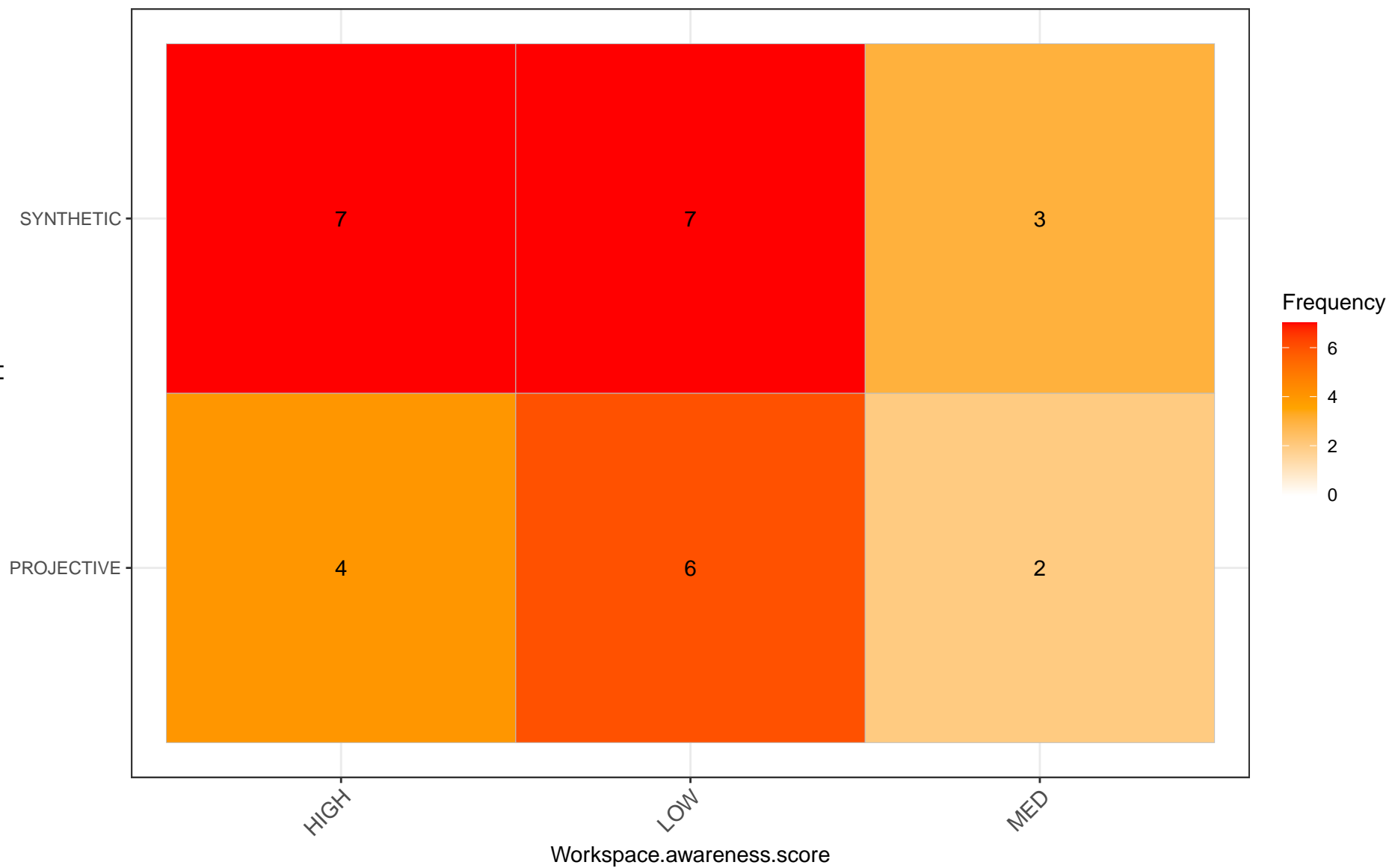
Stakeholder.types

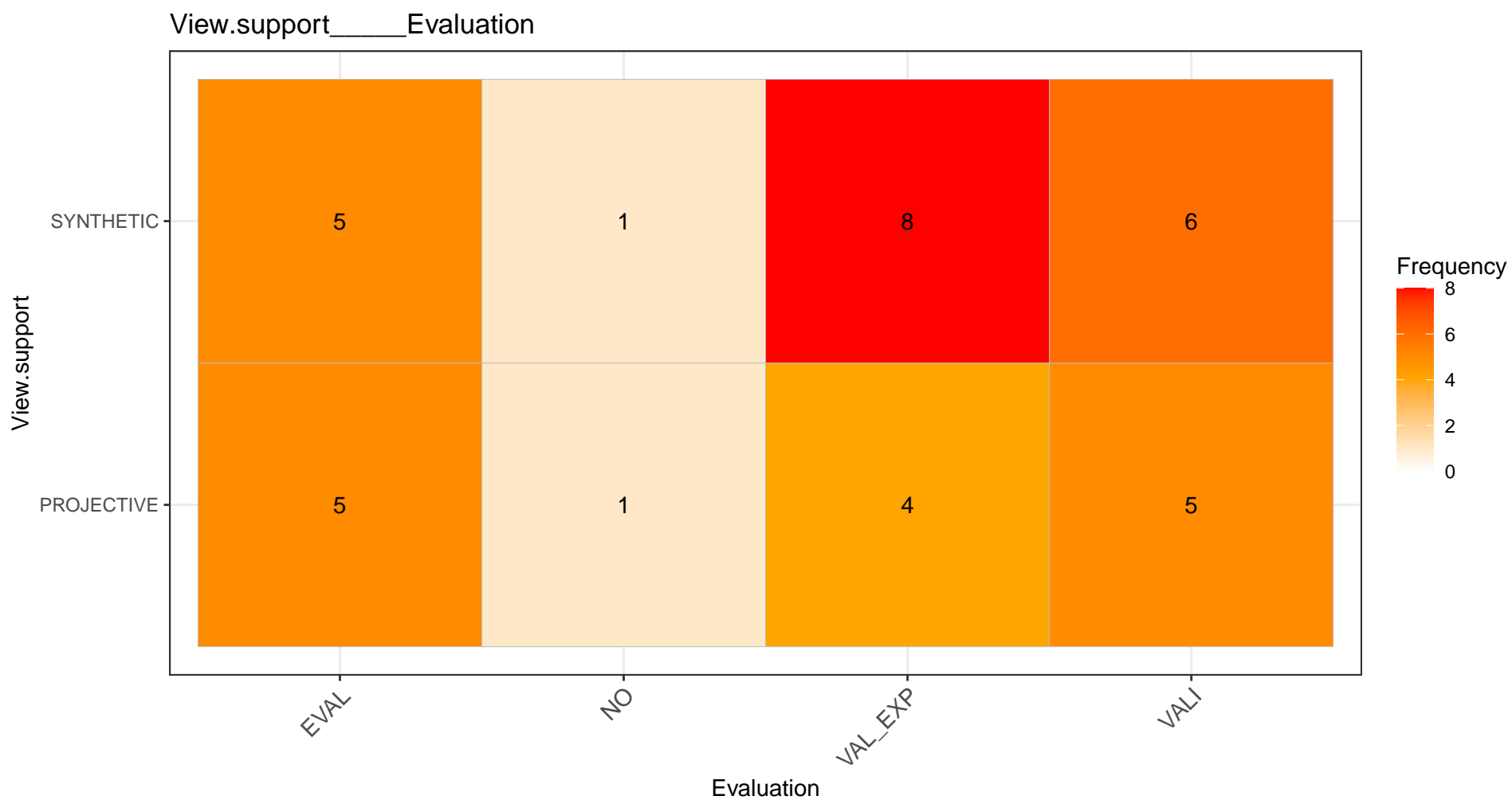
Frequency



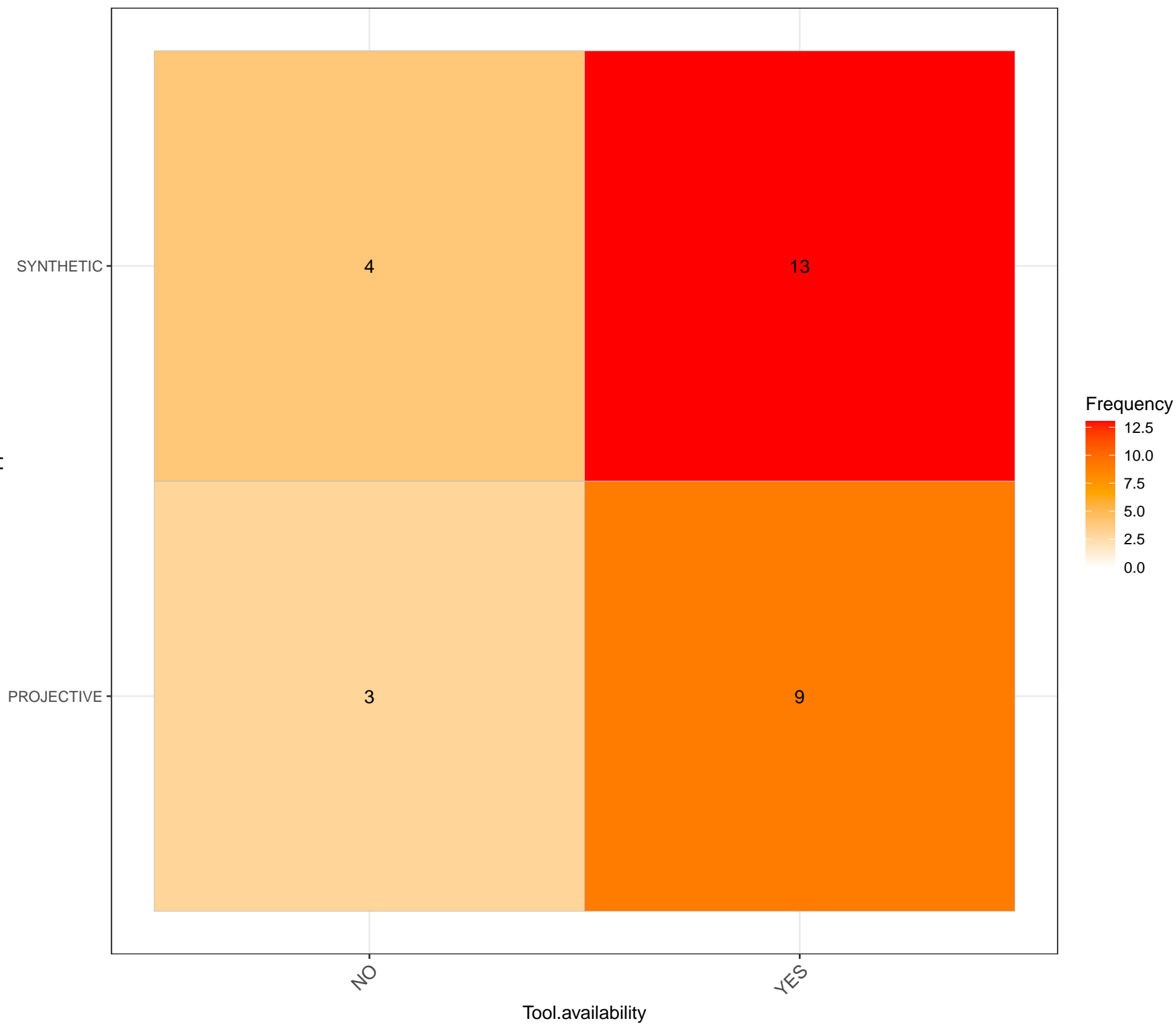


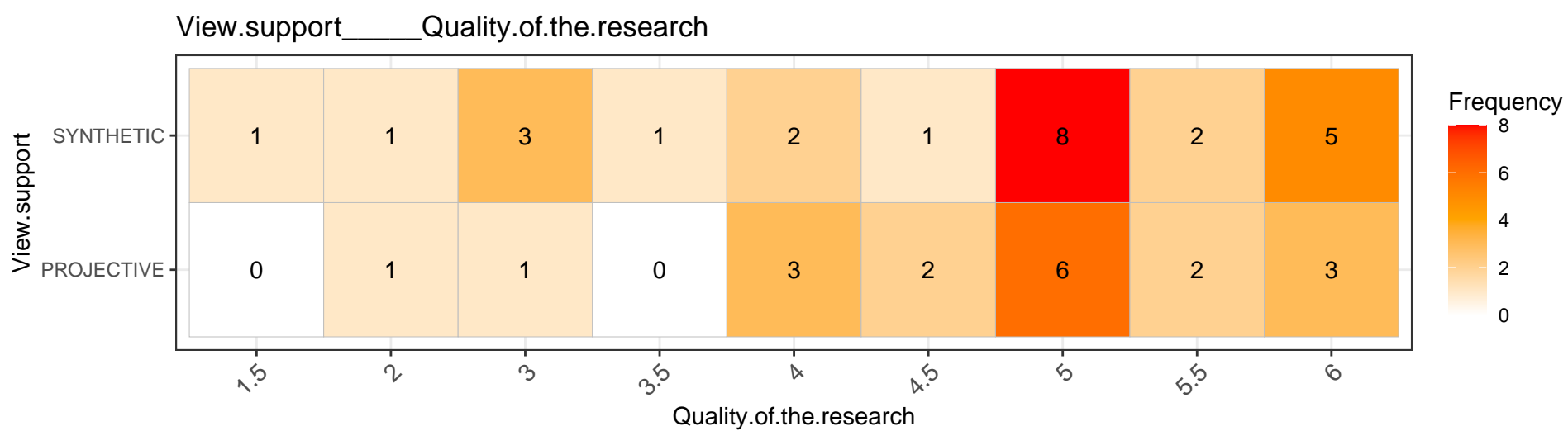
View.support_____Workspace.awareness.score

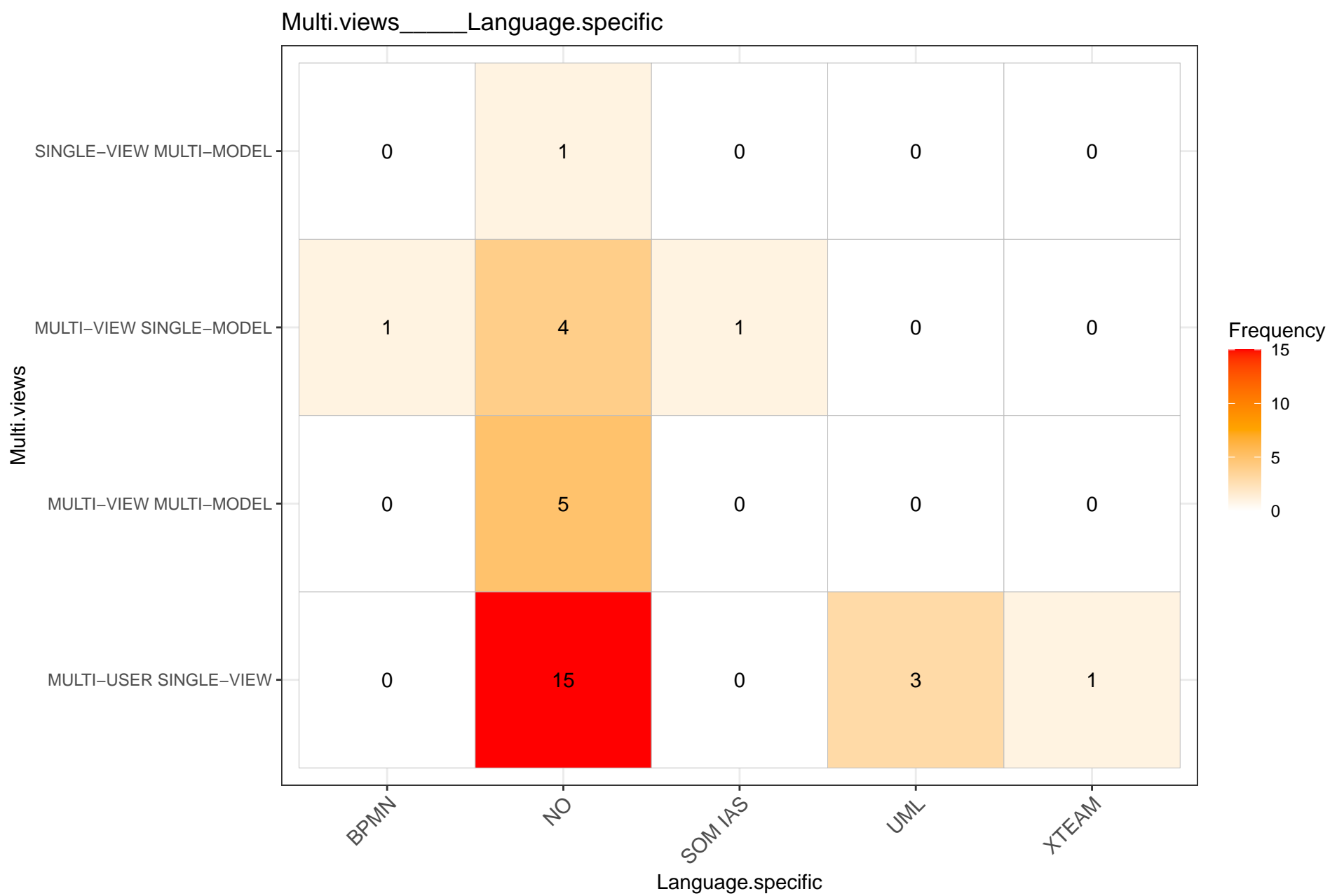


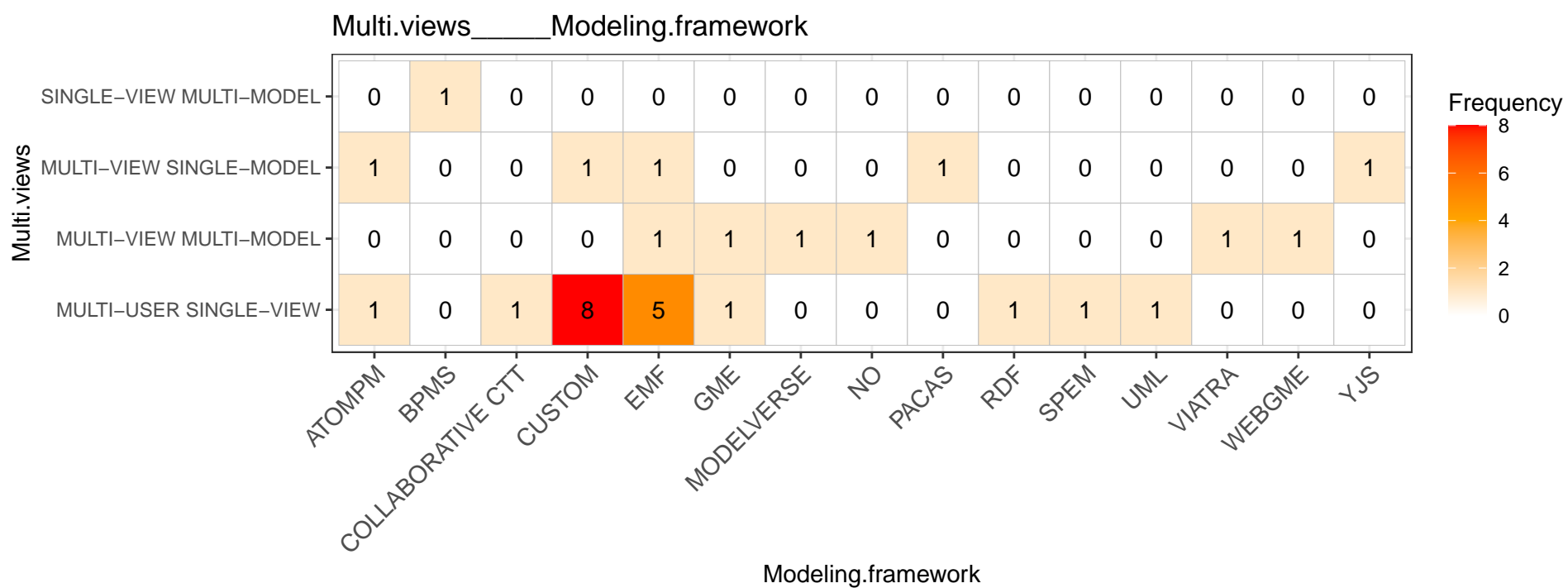


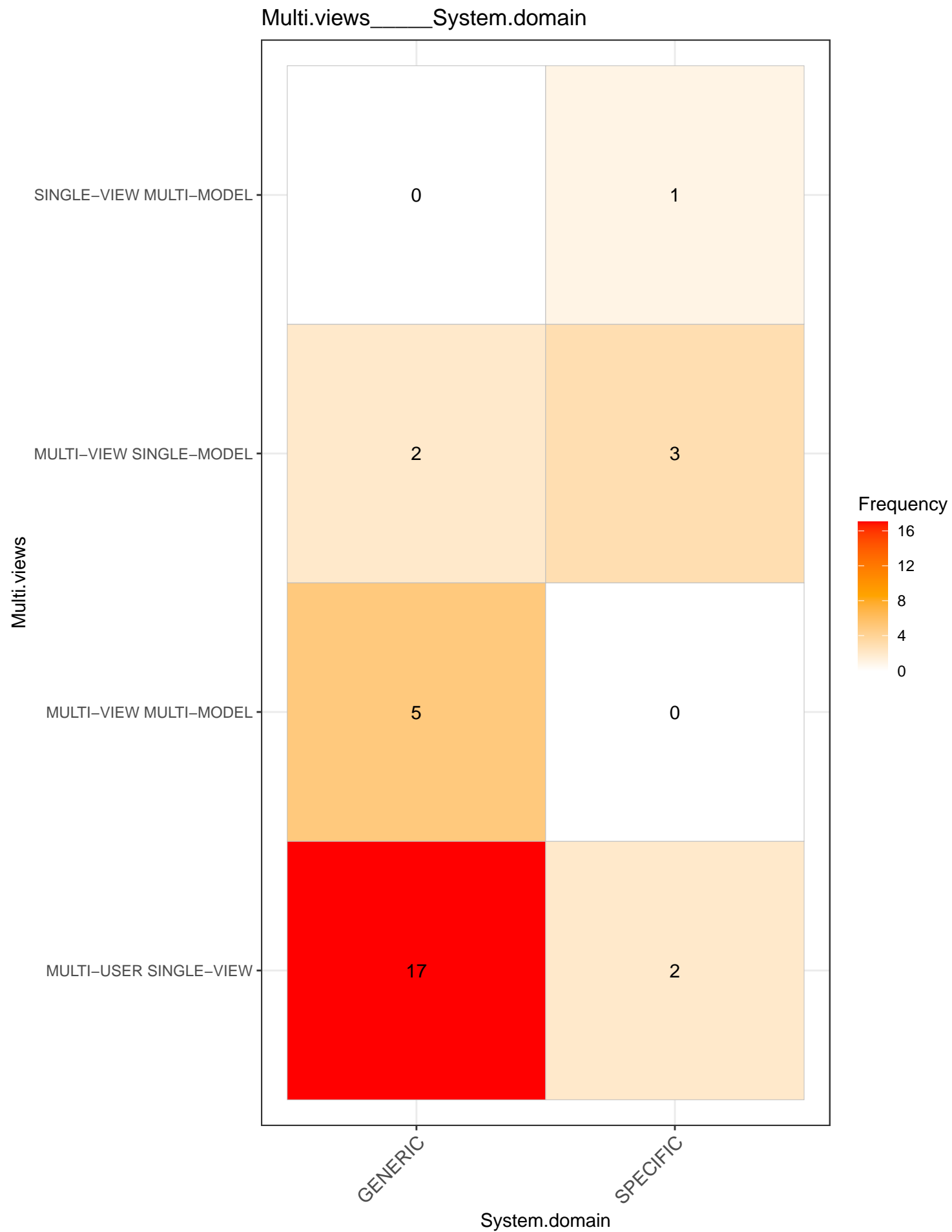
View.support____Tool.availability

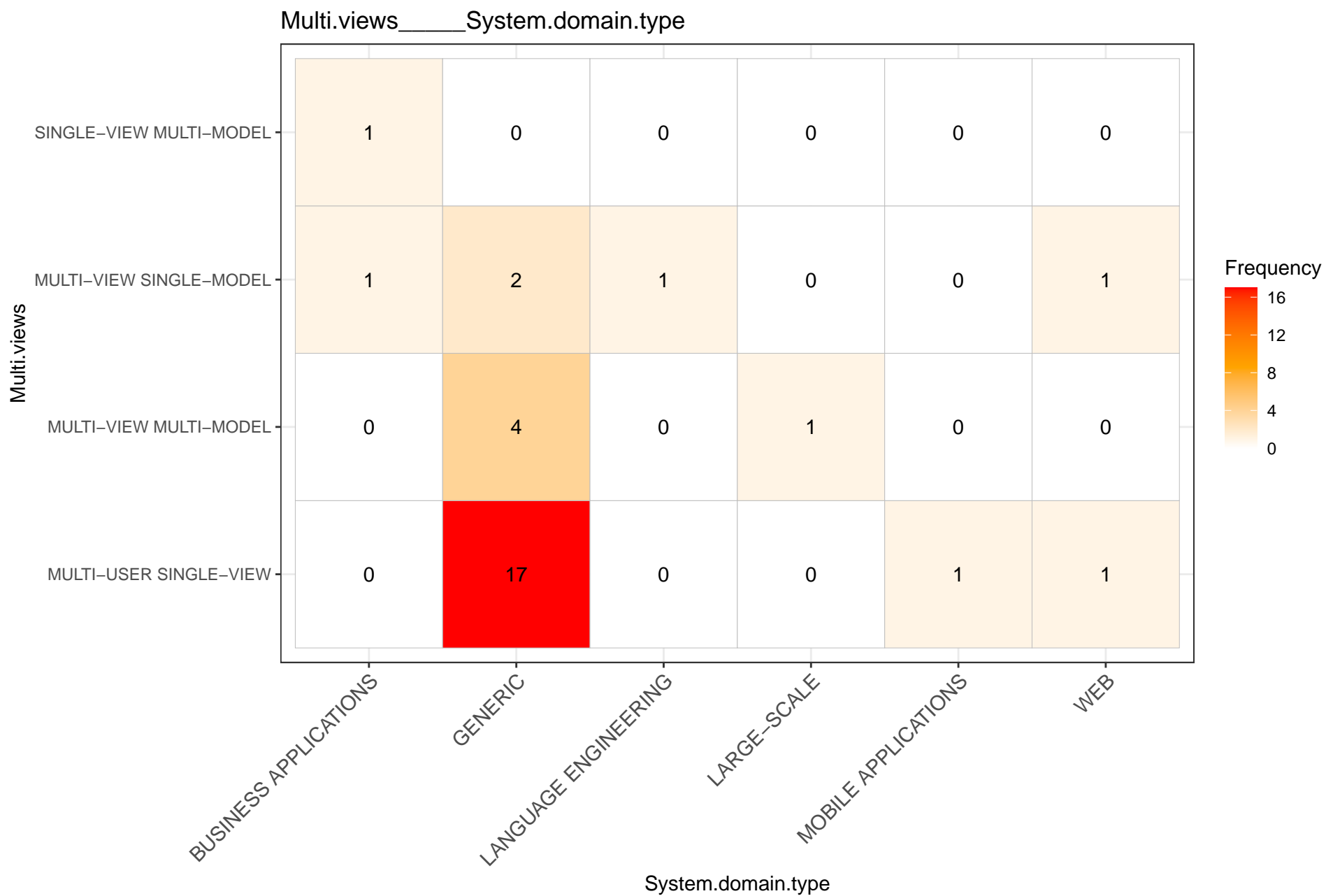


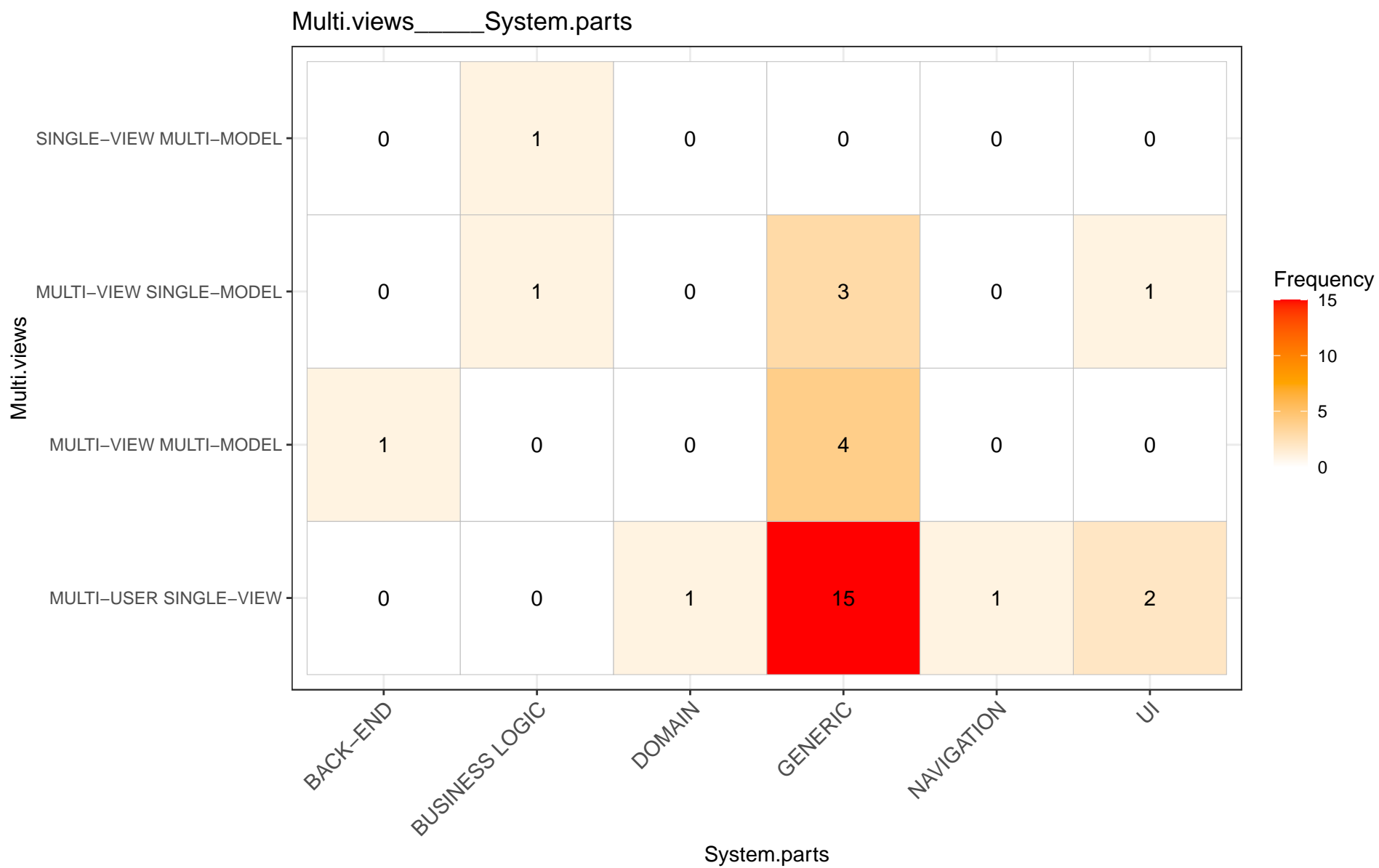


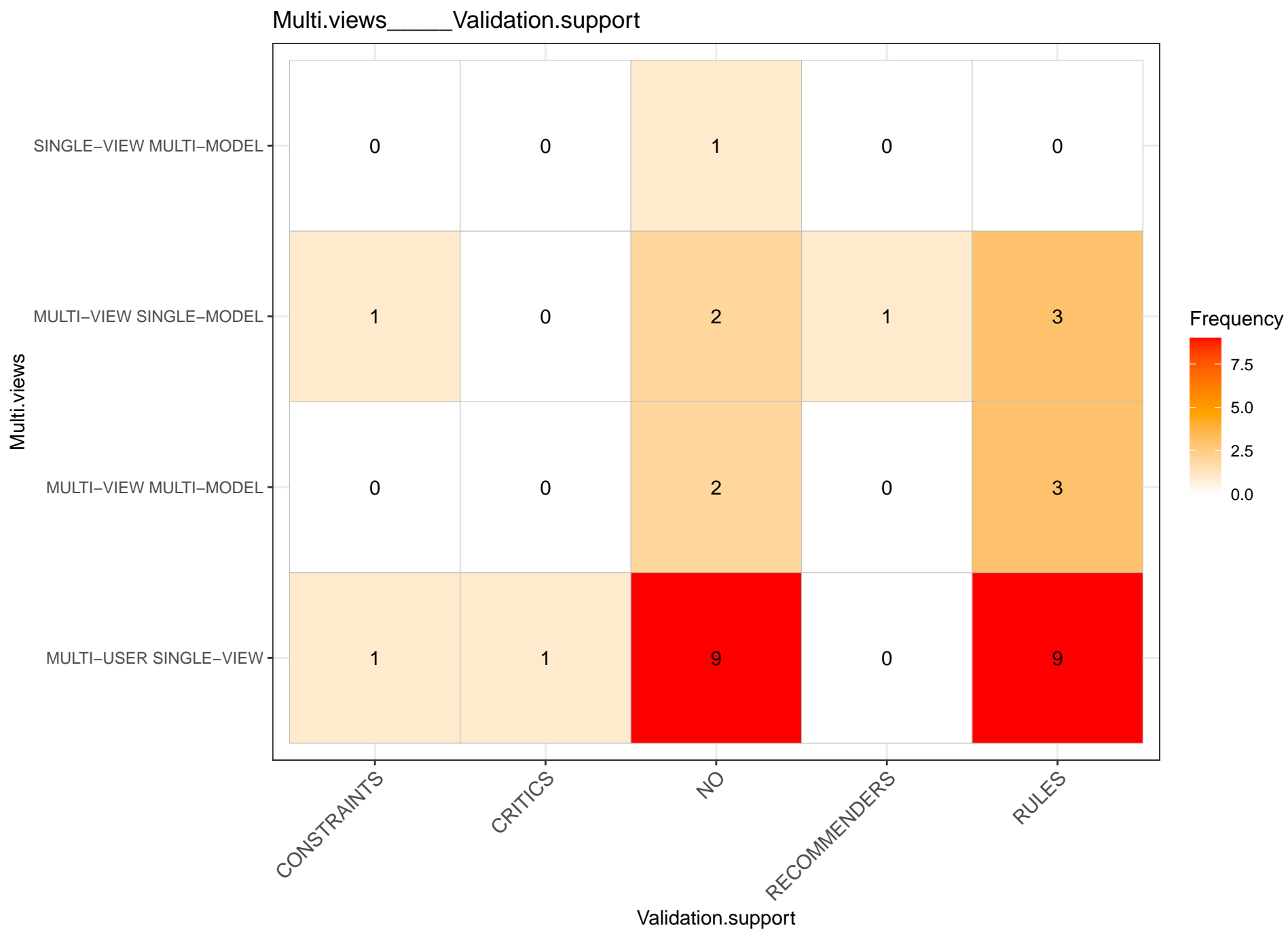


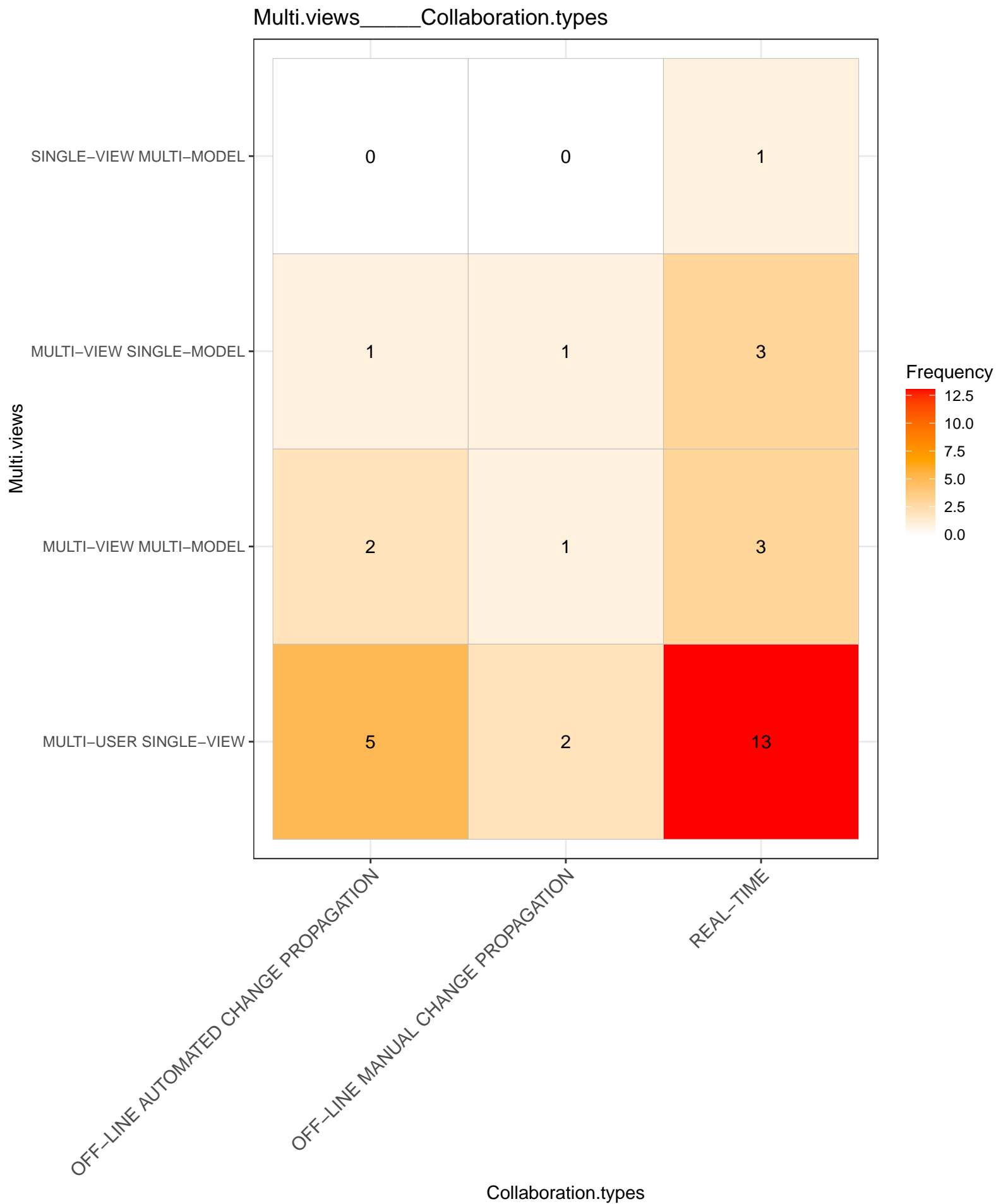




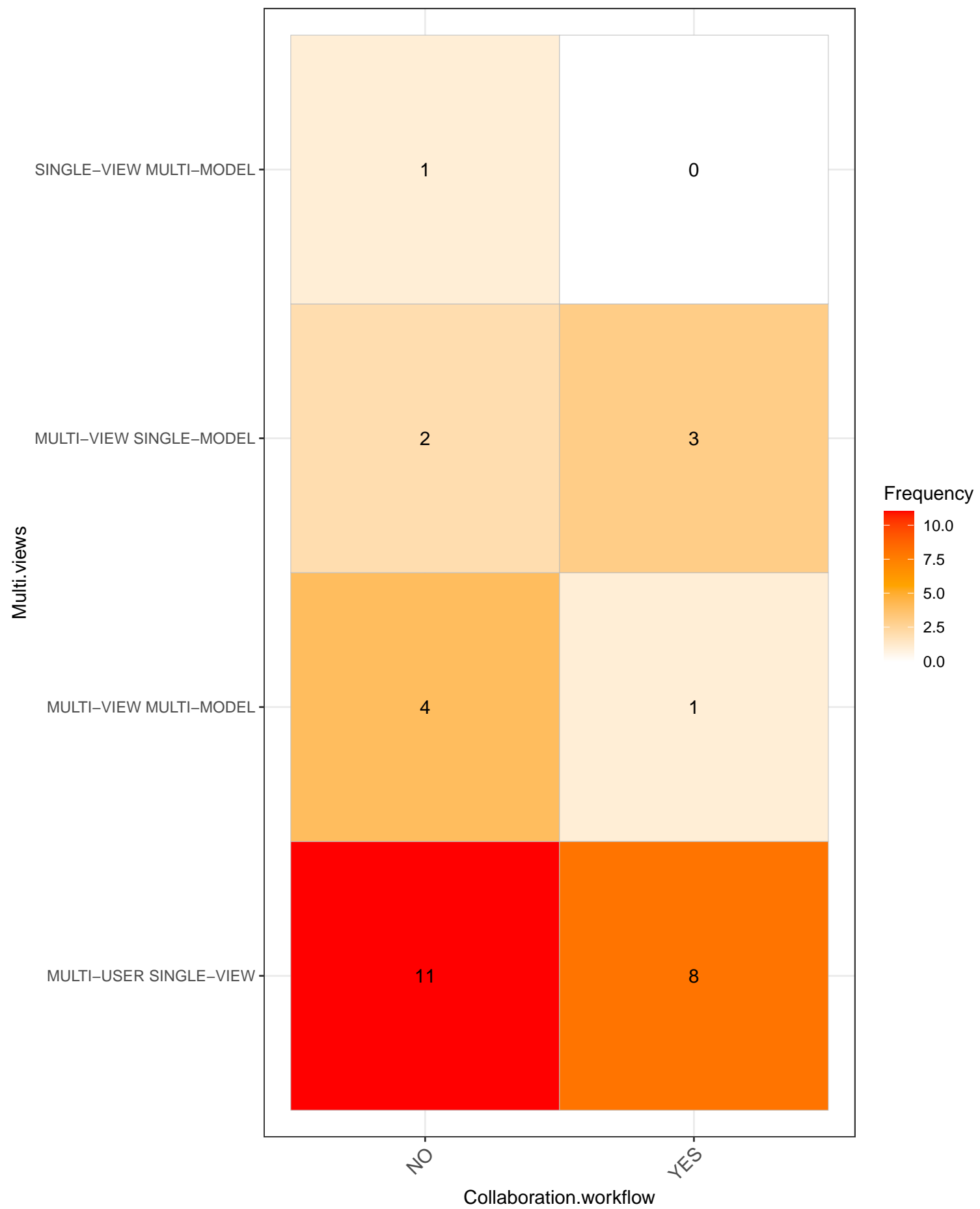




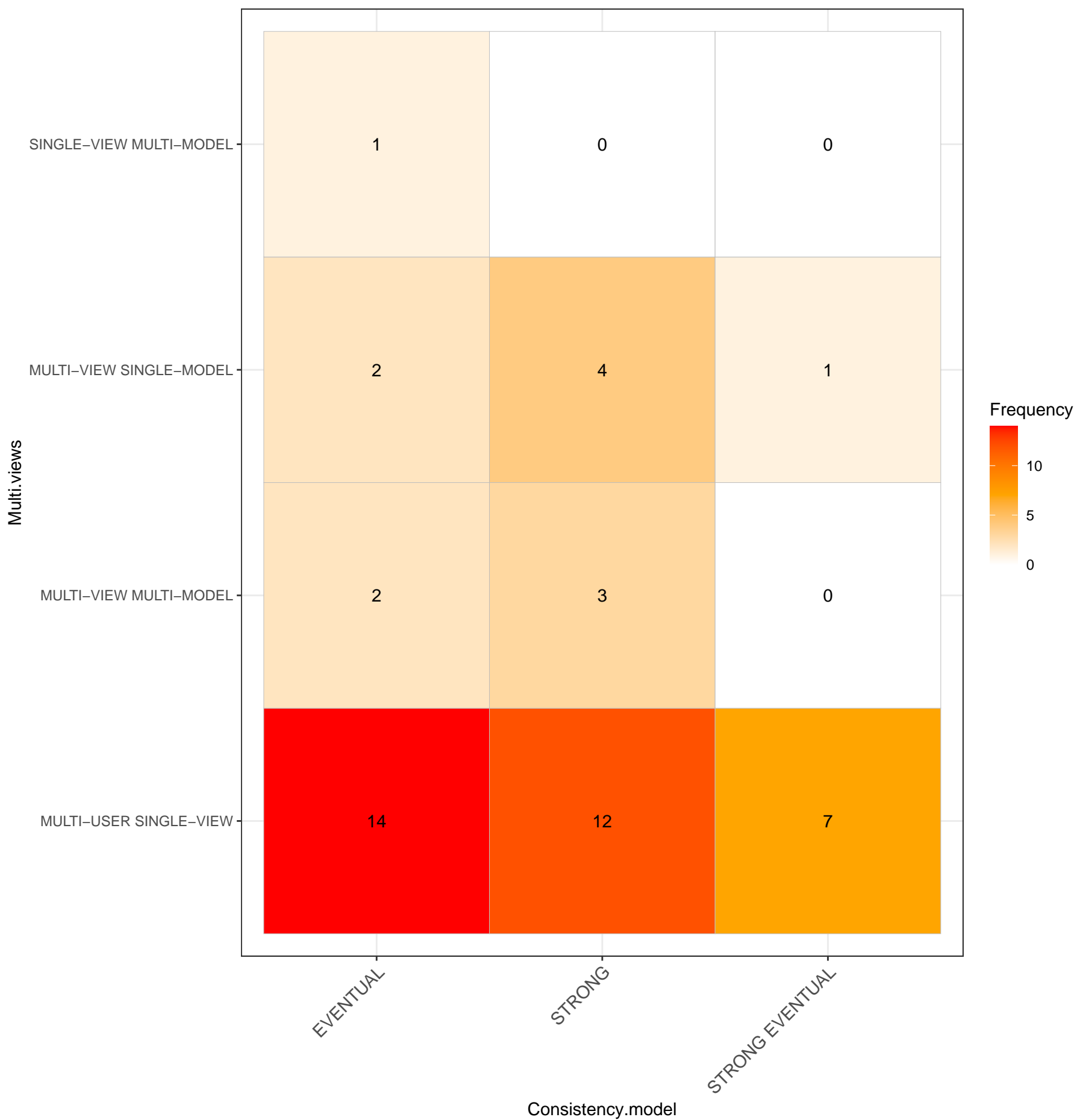


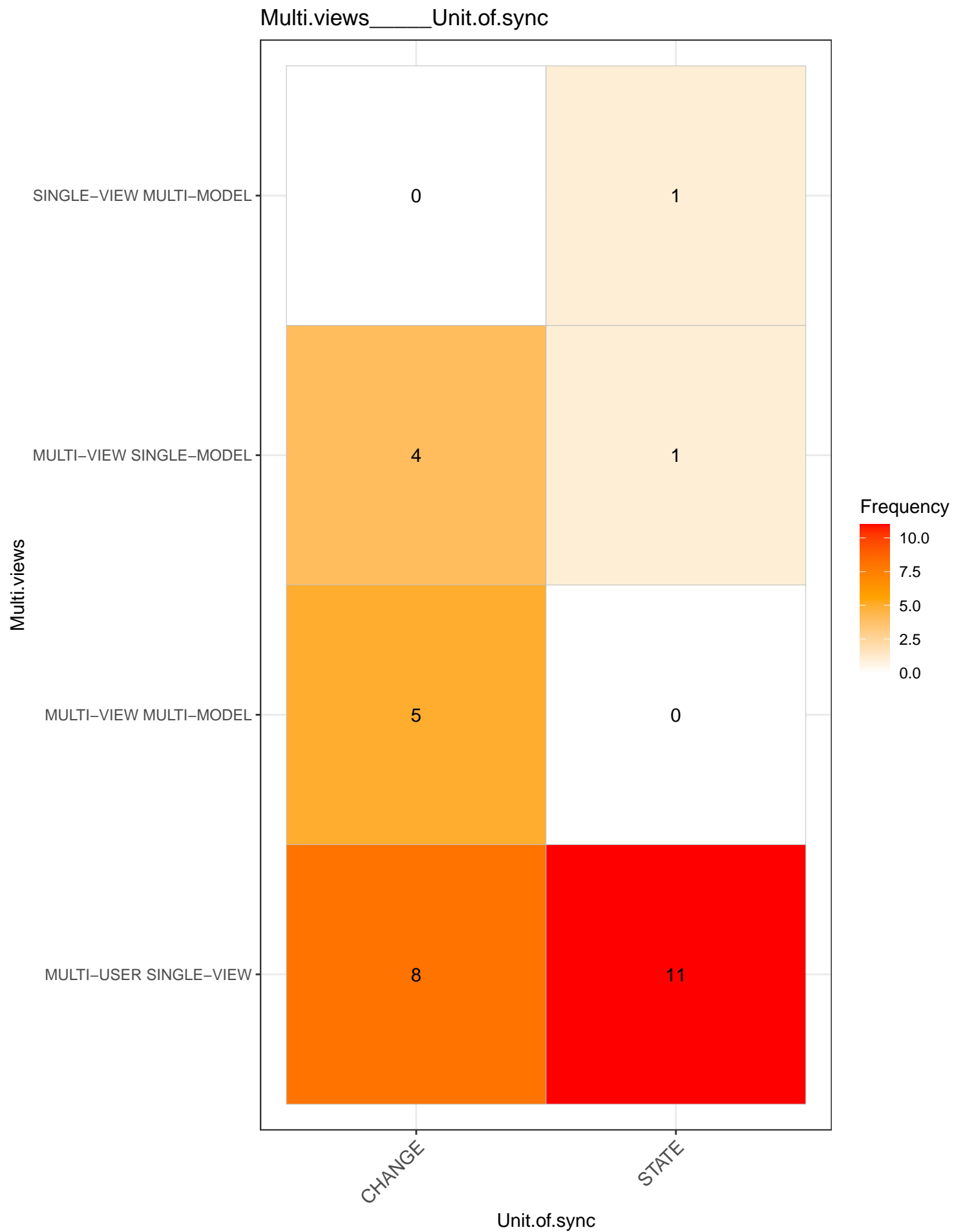


Multi.views Collaboration.workflow

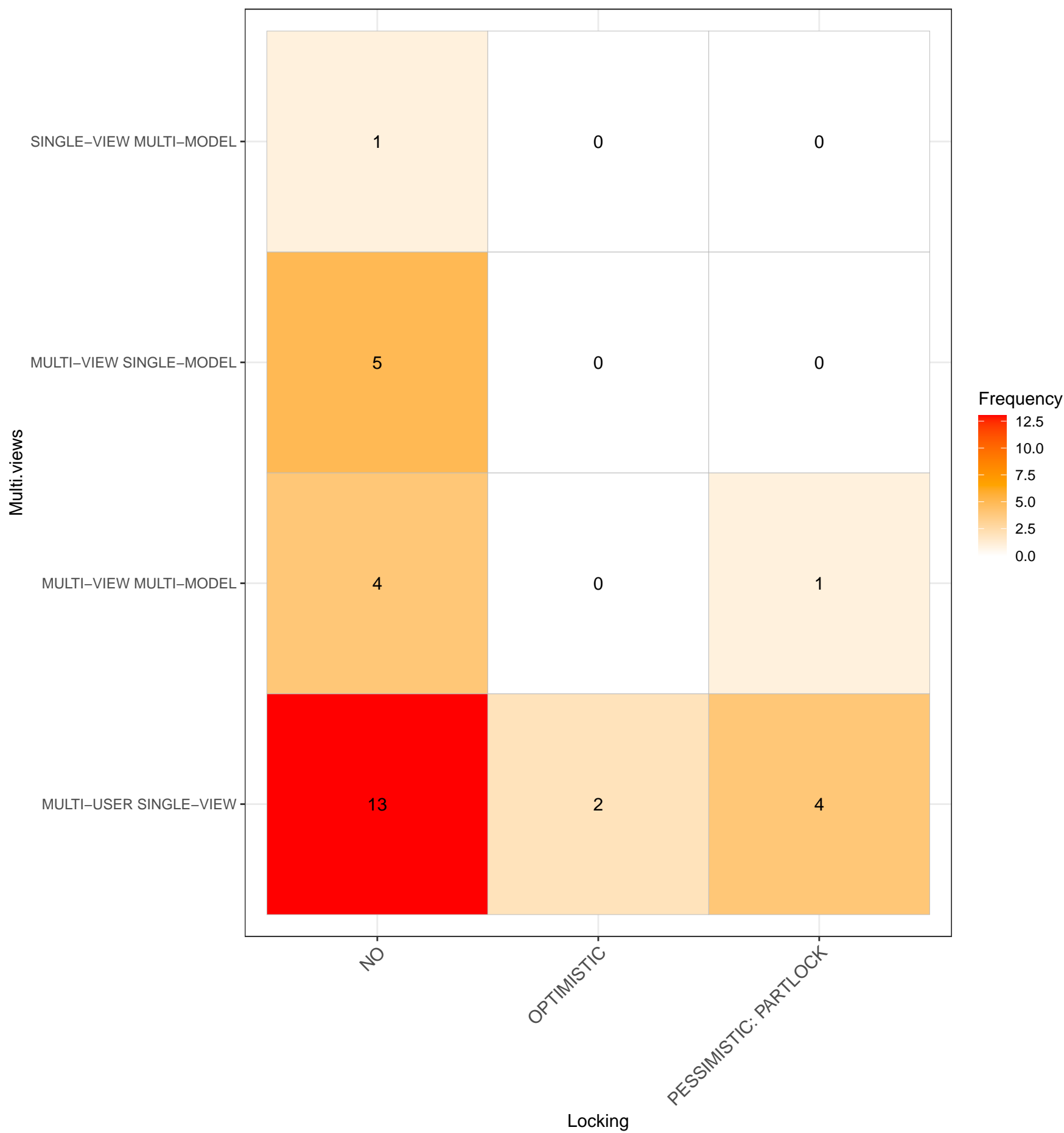


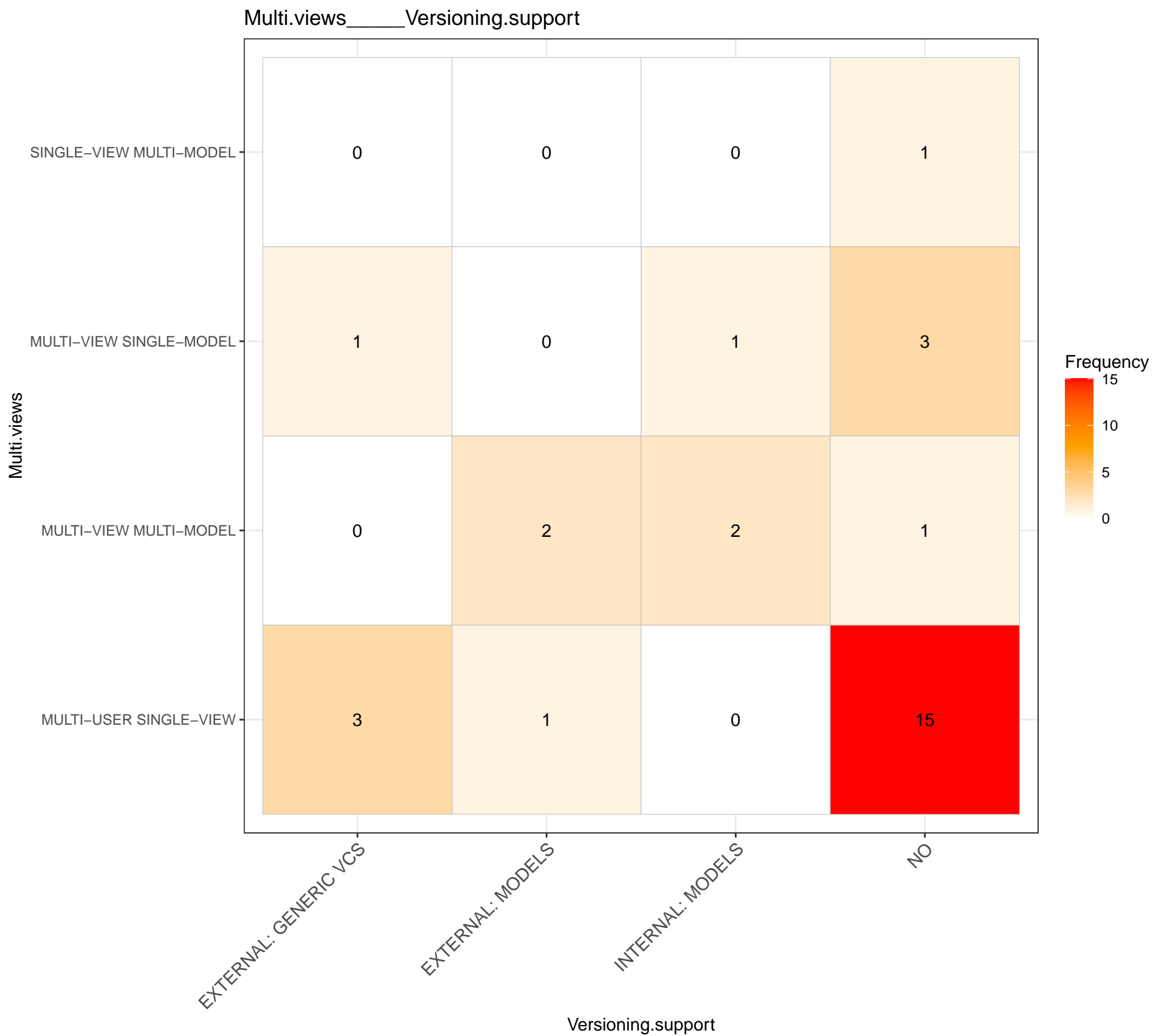
Multi.views_____Consistency.model



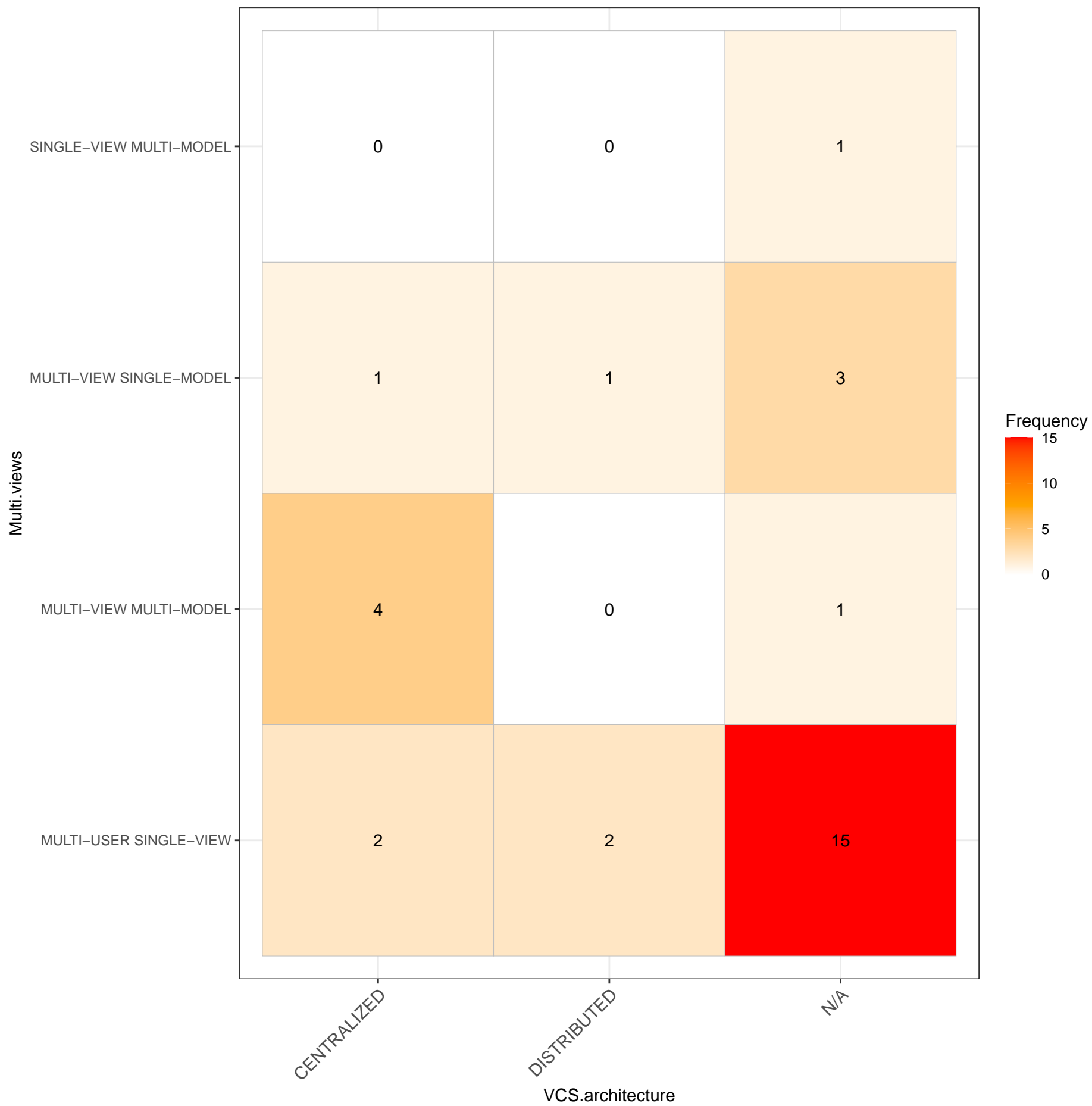


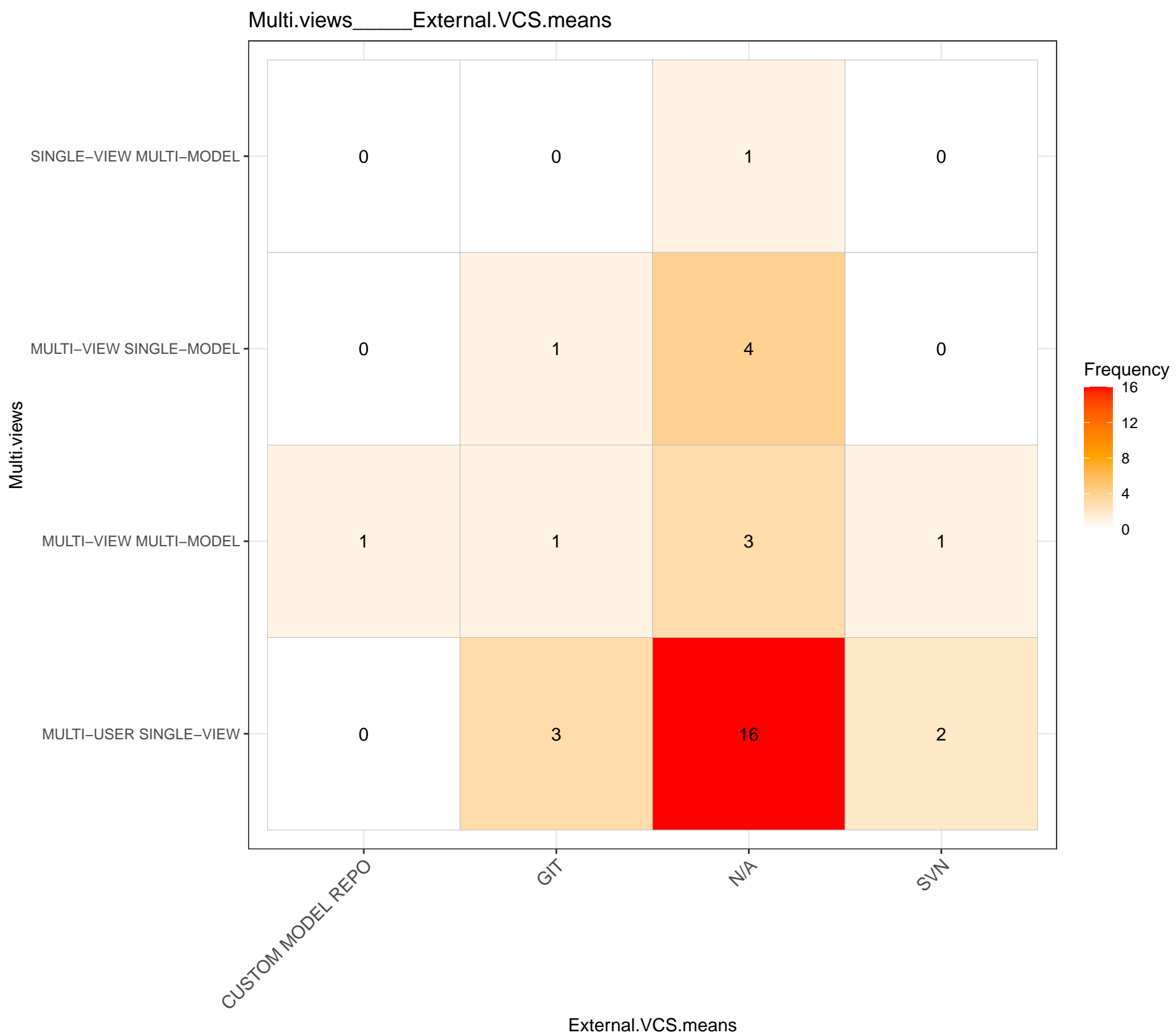
Multi.views_____Locking

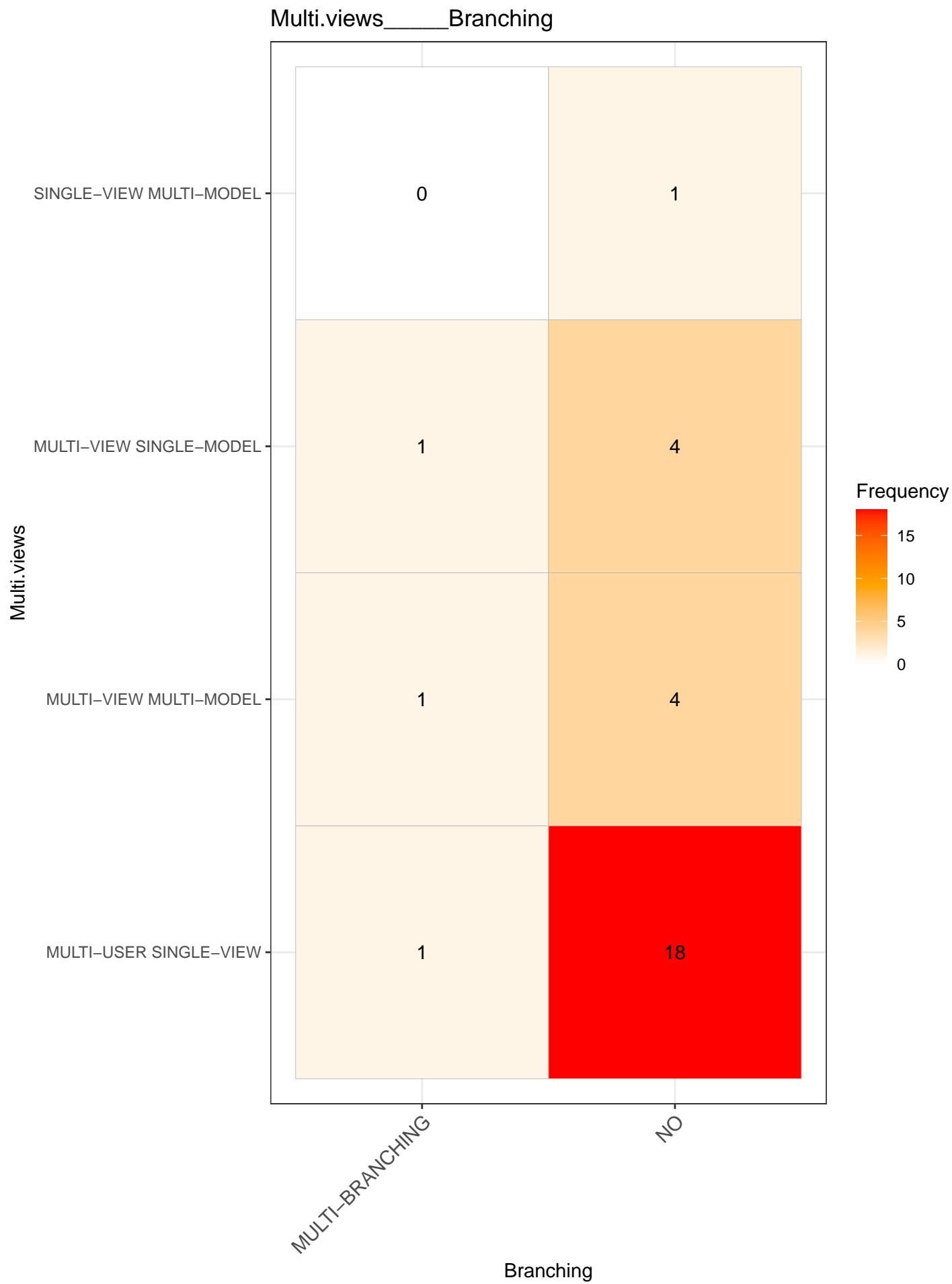


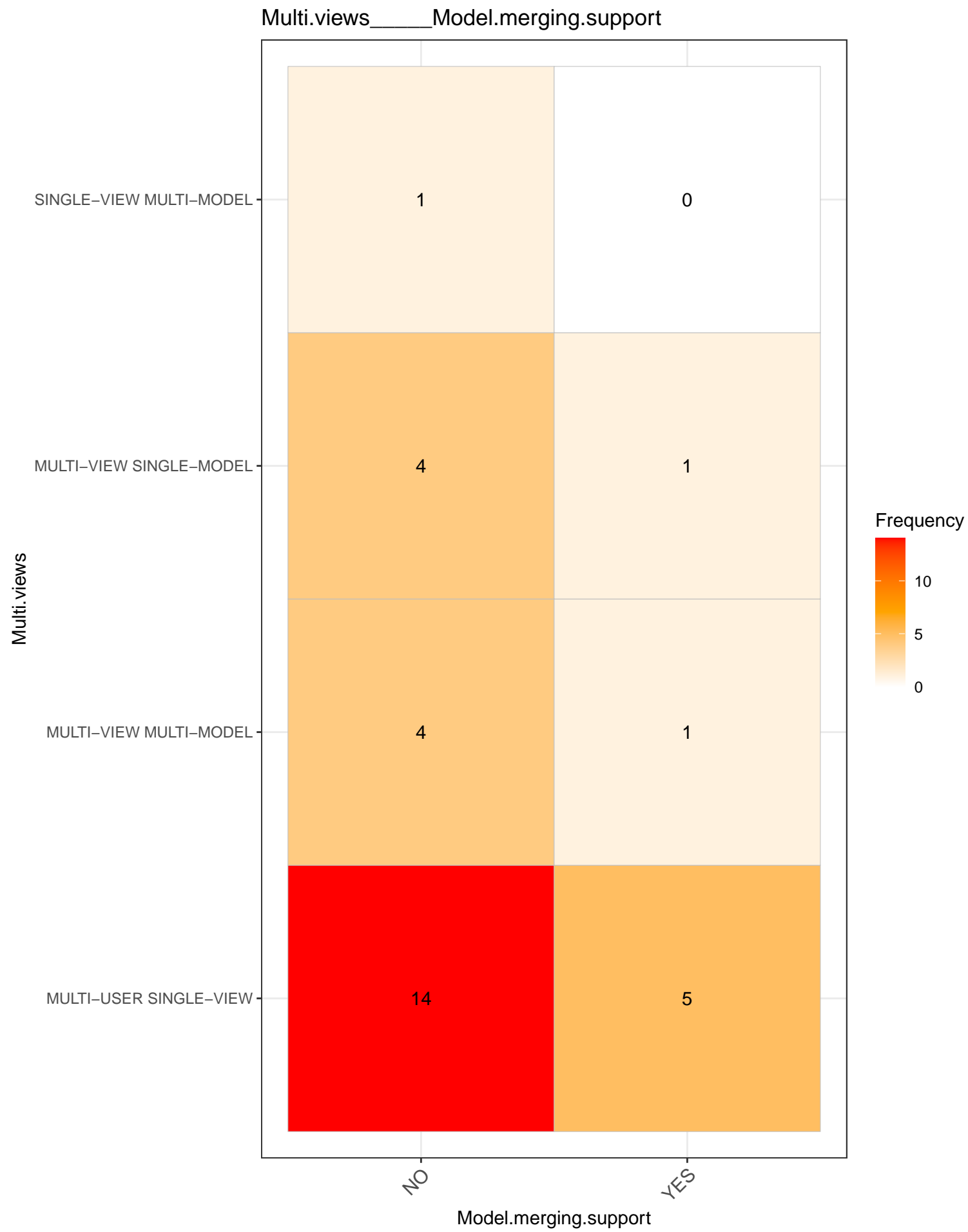


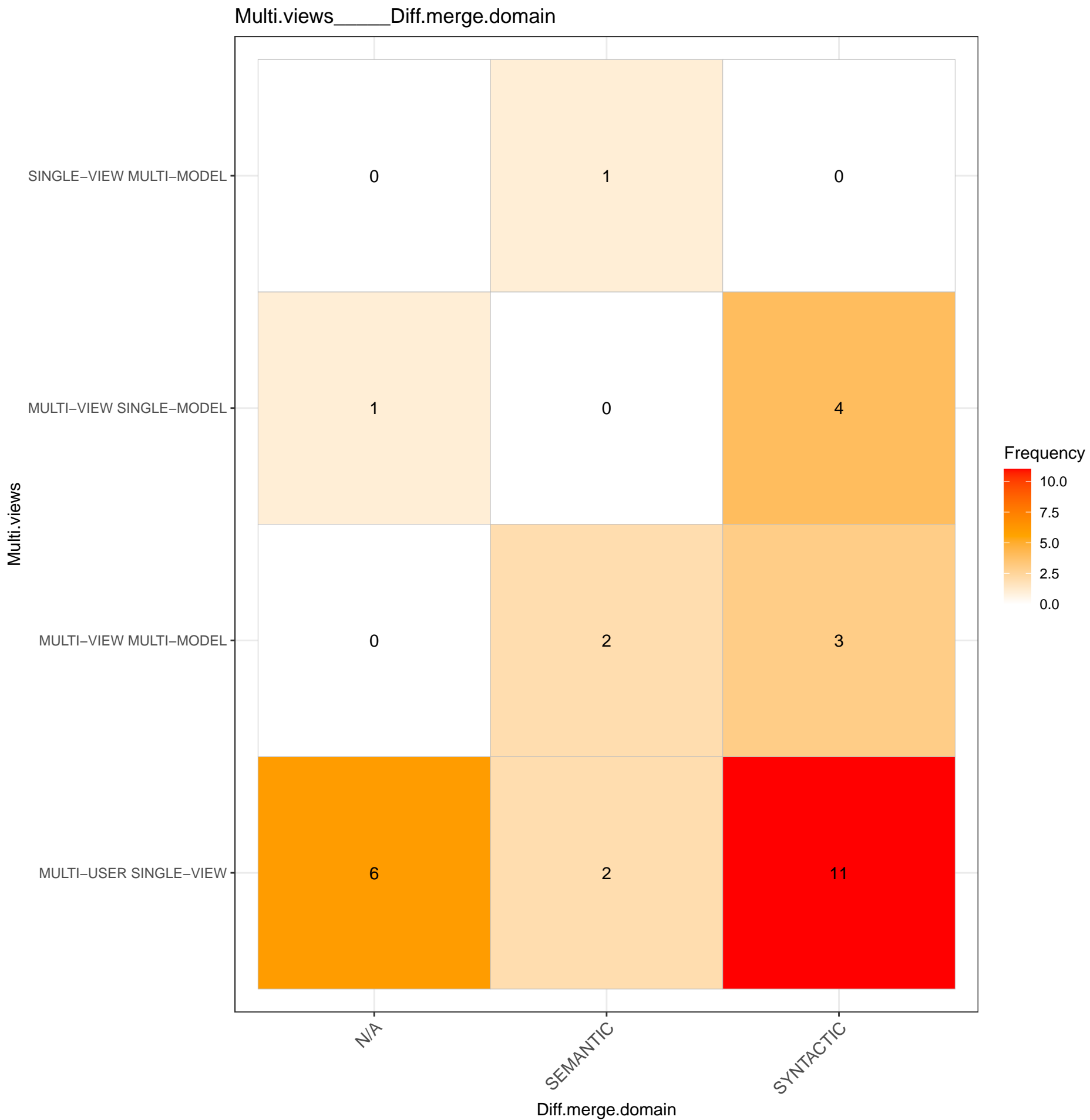
Multi.views_____VCS.architecture



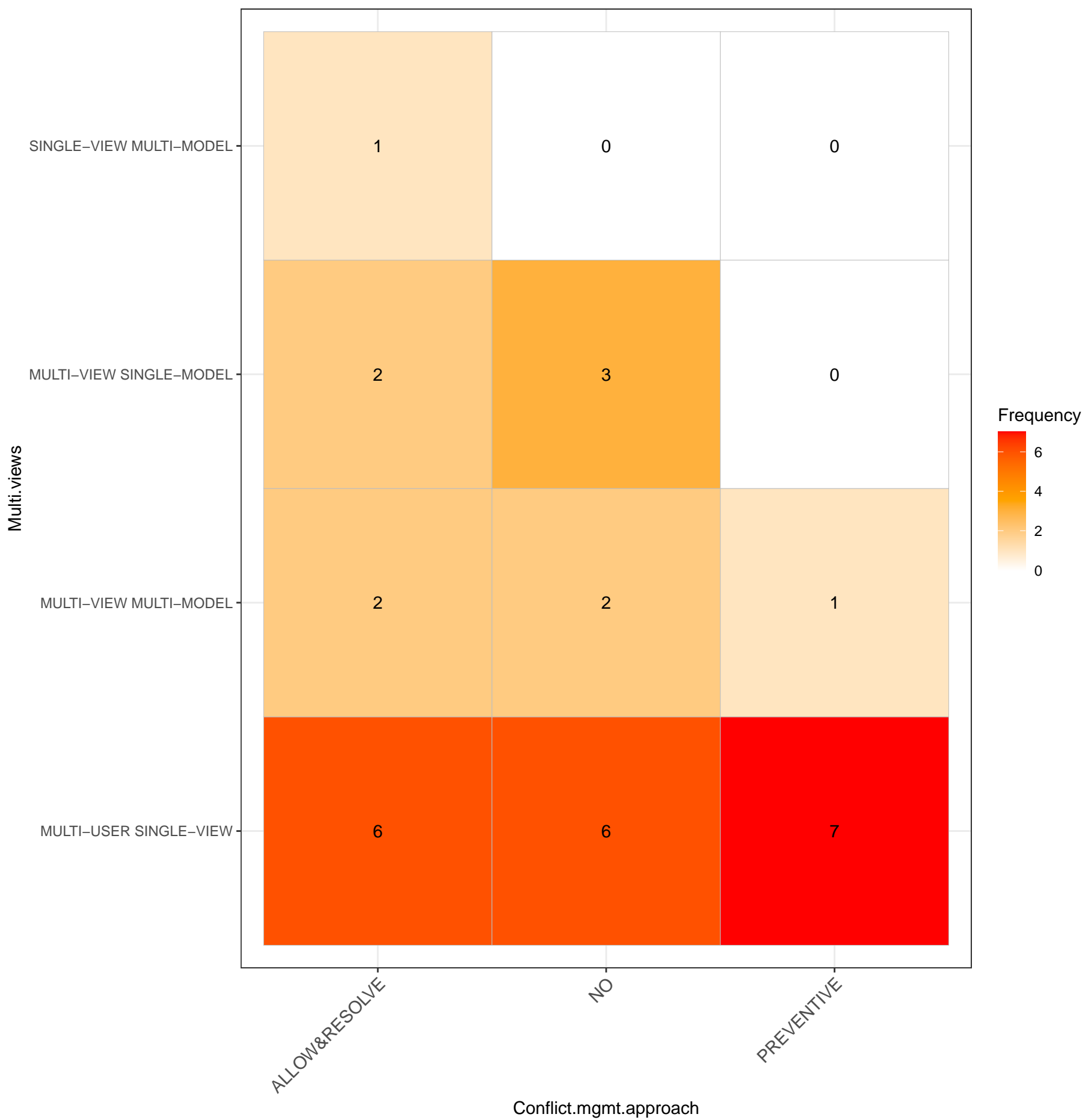




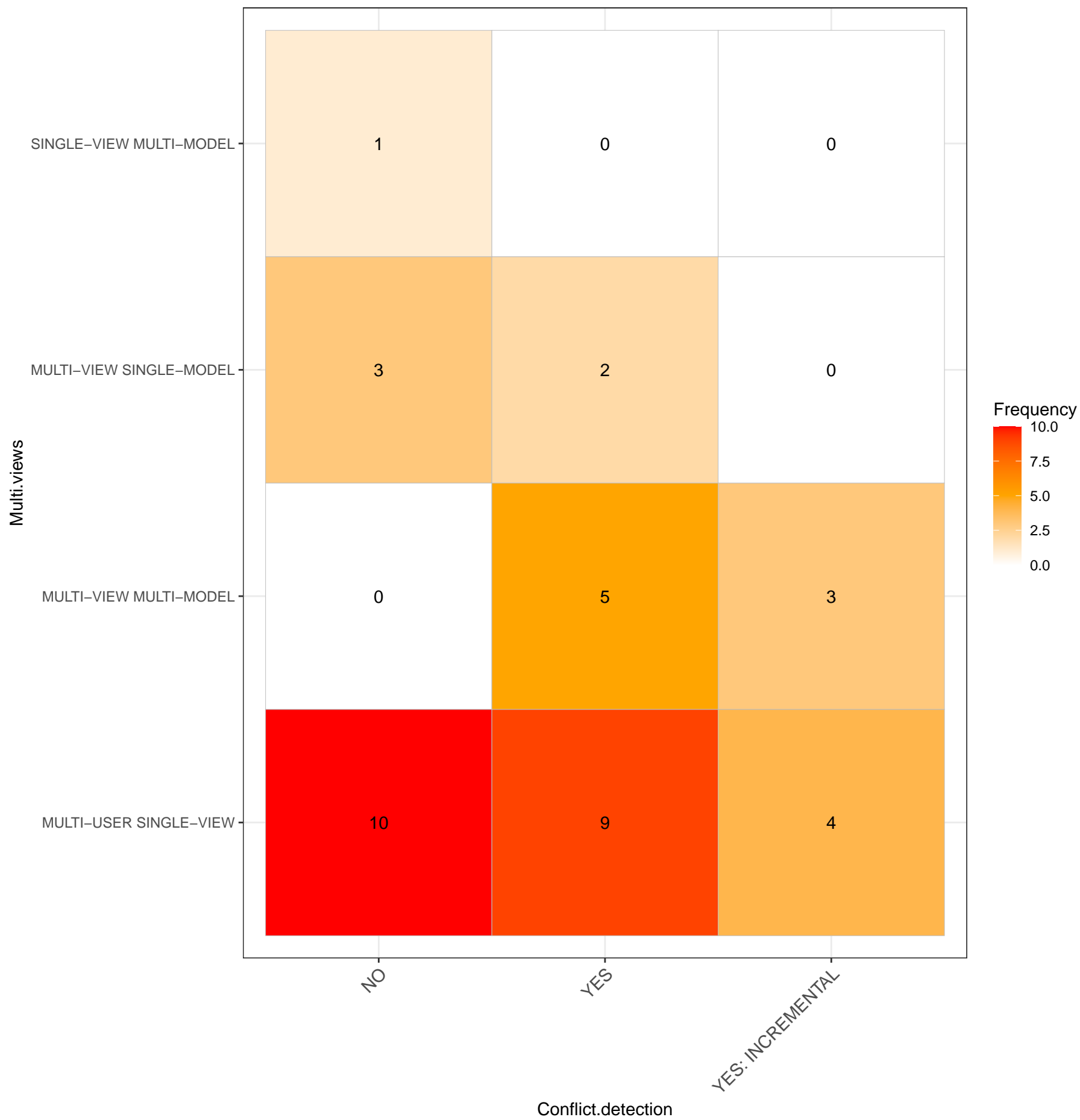




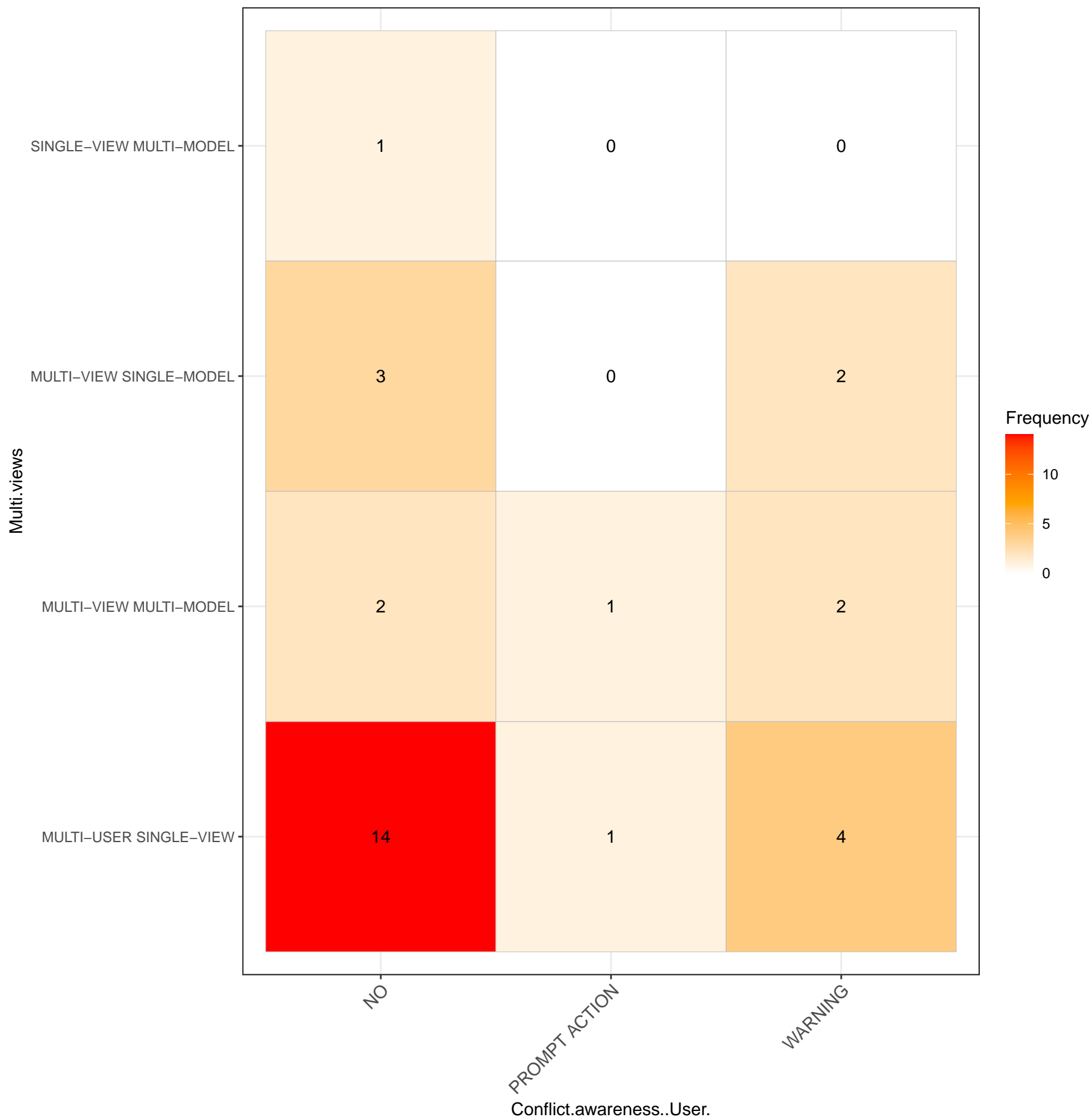
Multi.views_____Conflict.mgmt.approach



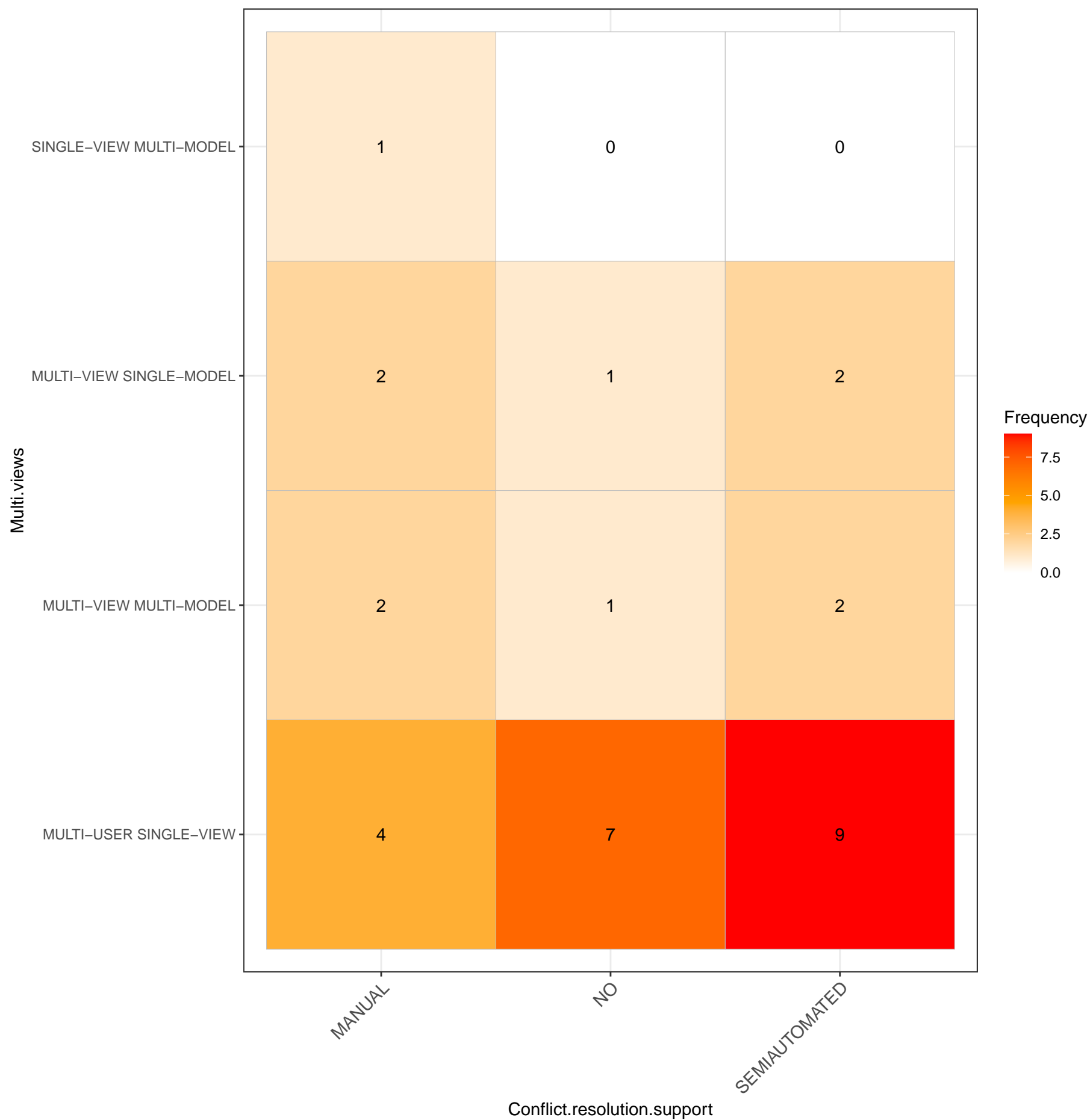
Multi.views_____Conflict.detection

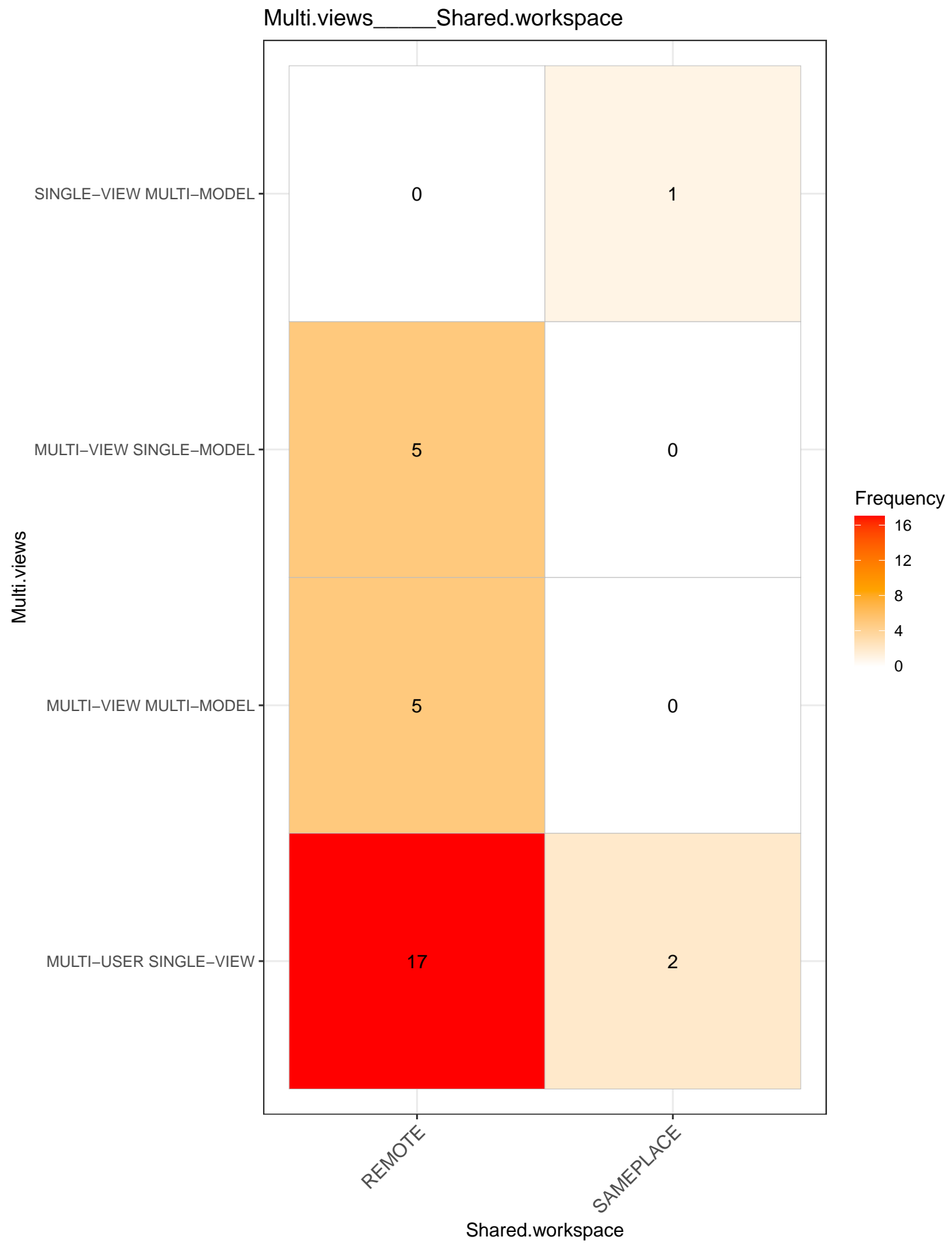


Multi.views_____Conflict.awareness..User.

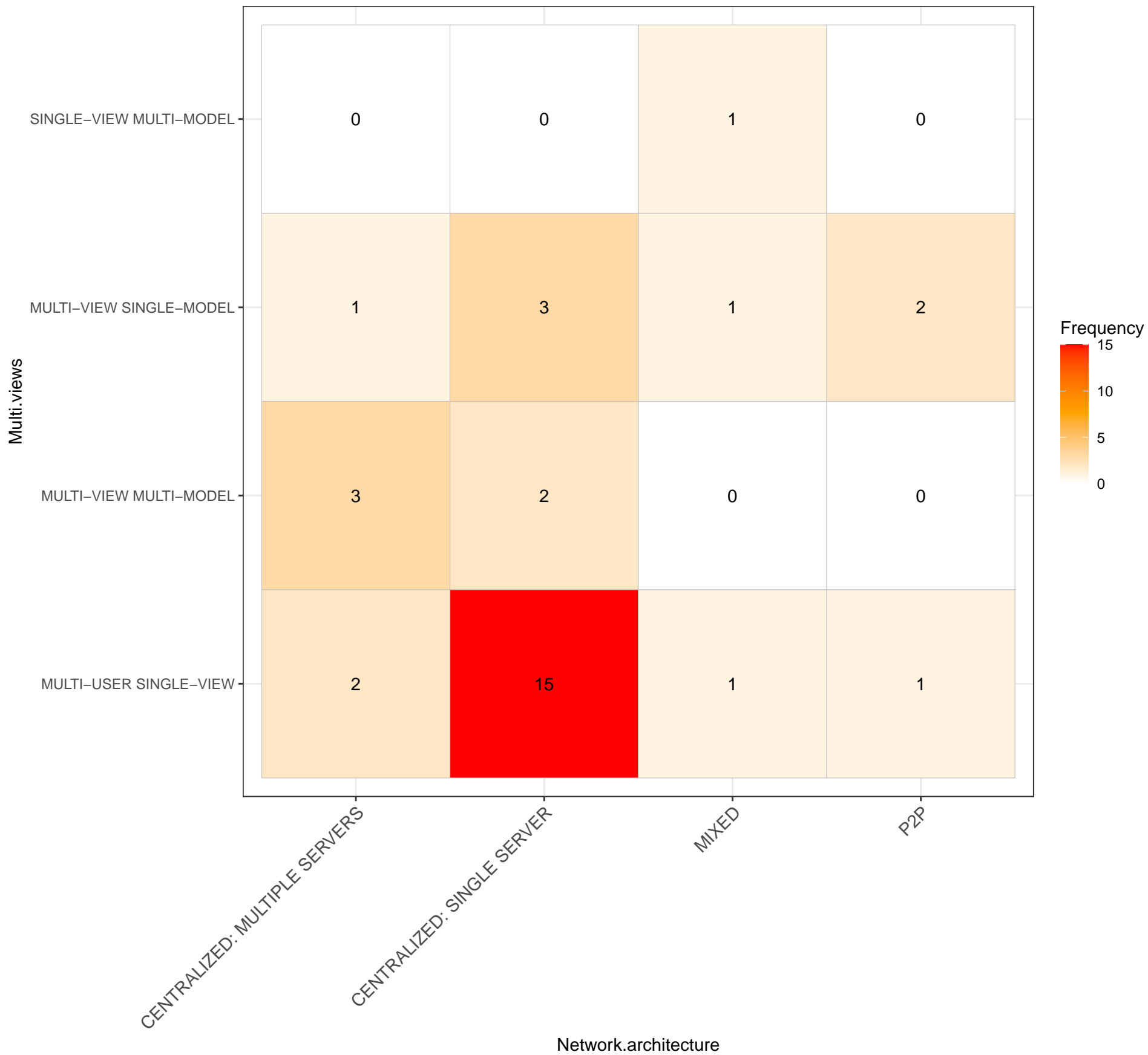


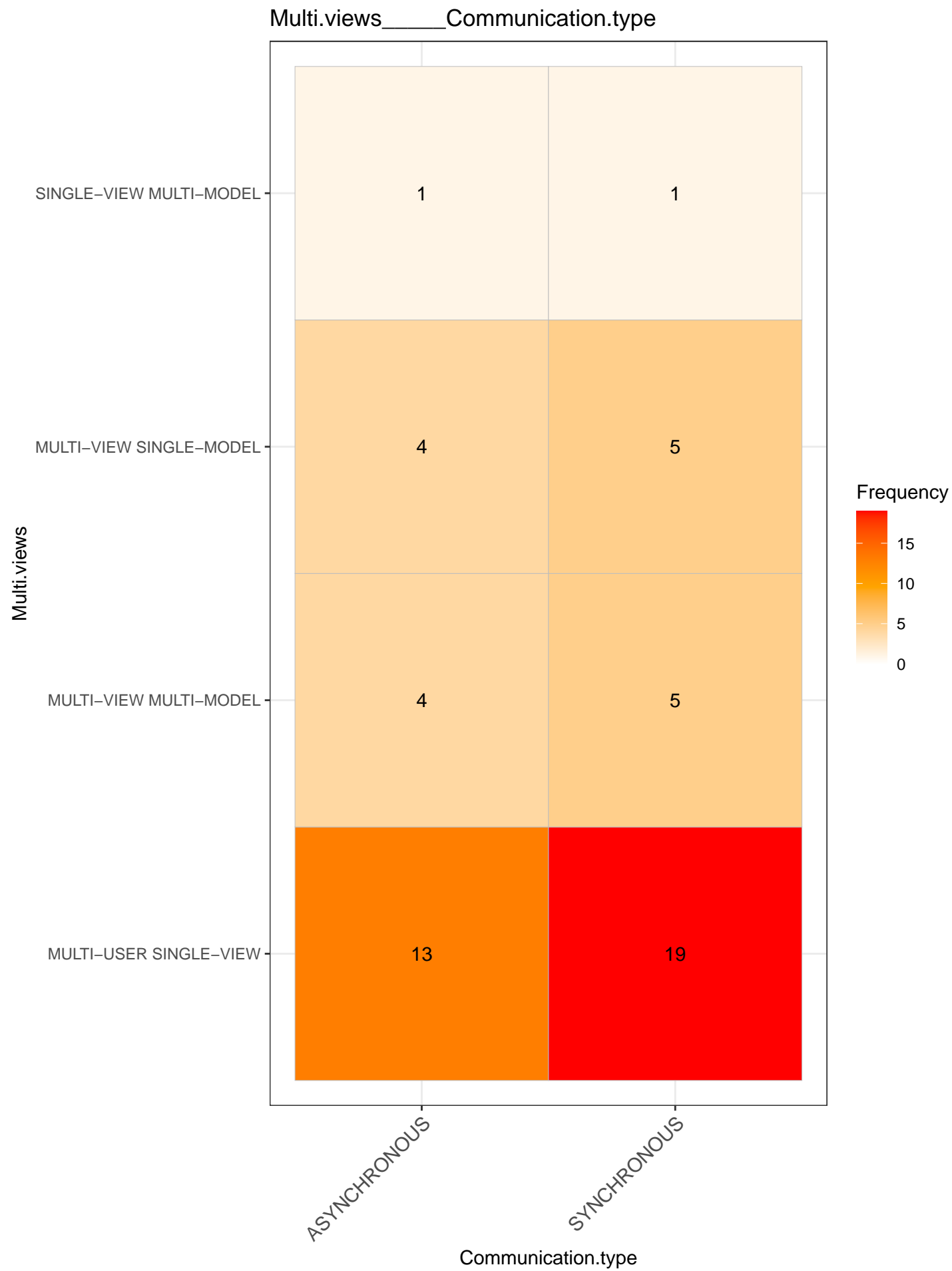
Multi.views_____Conflict.resolution.support

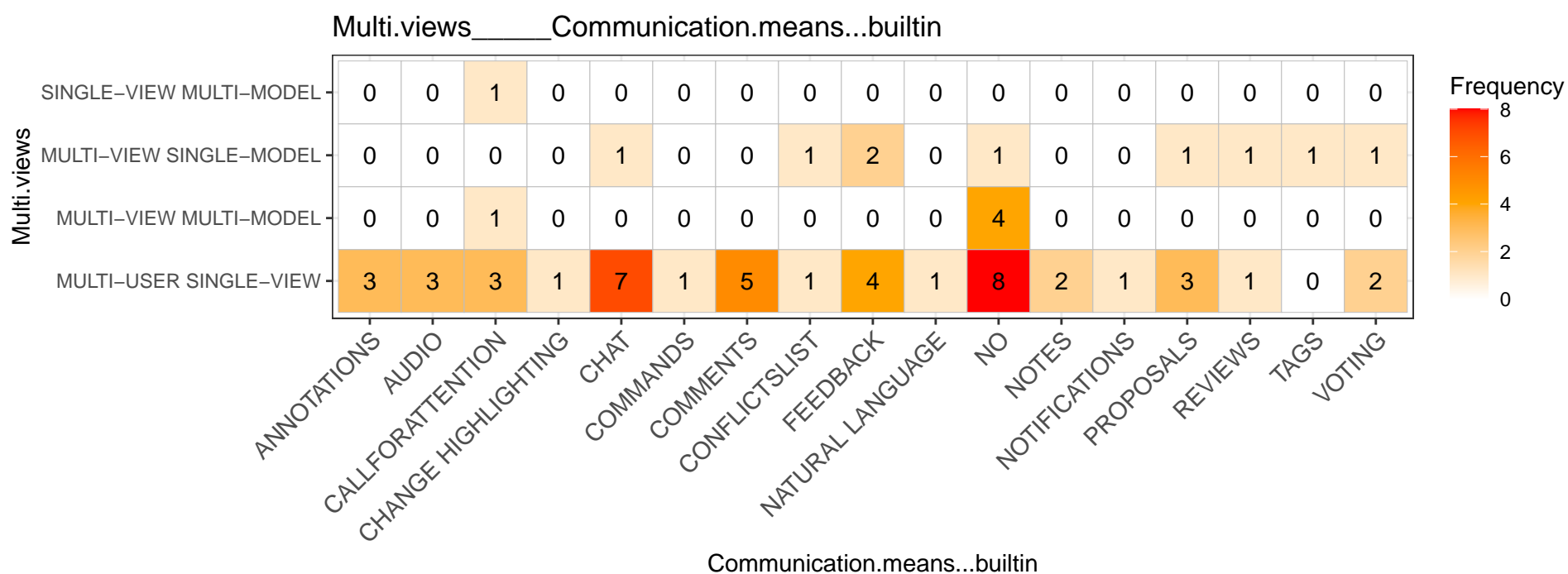


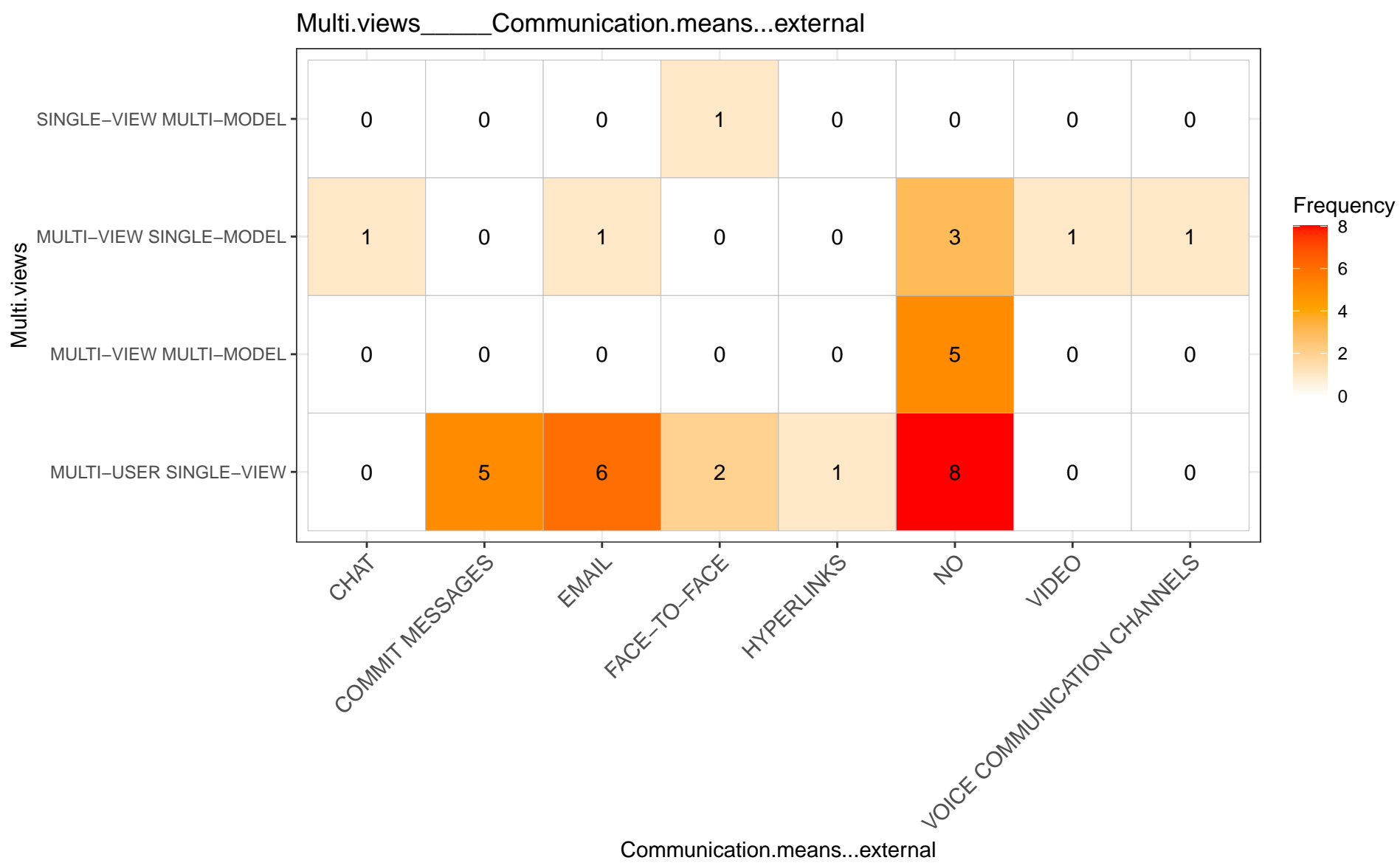


Multi.views____Network.architecture

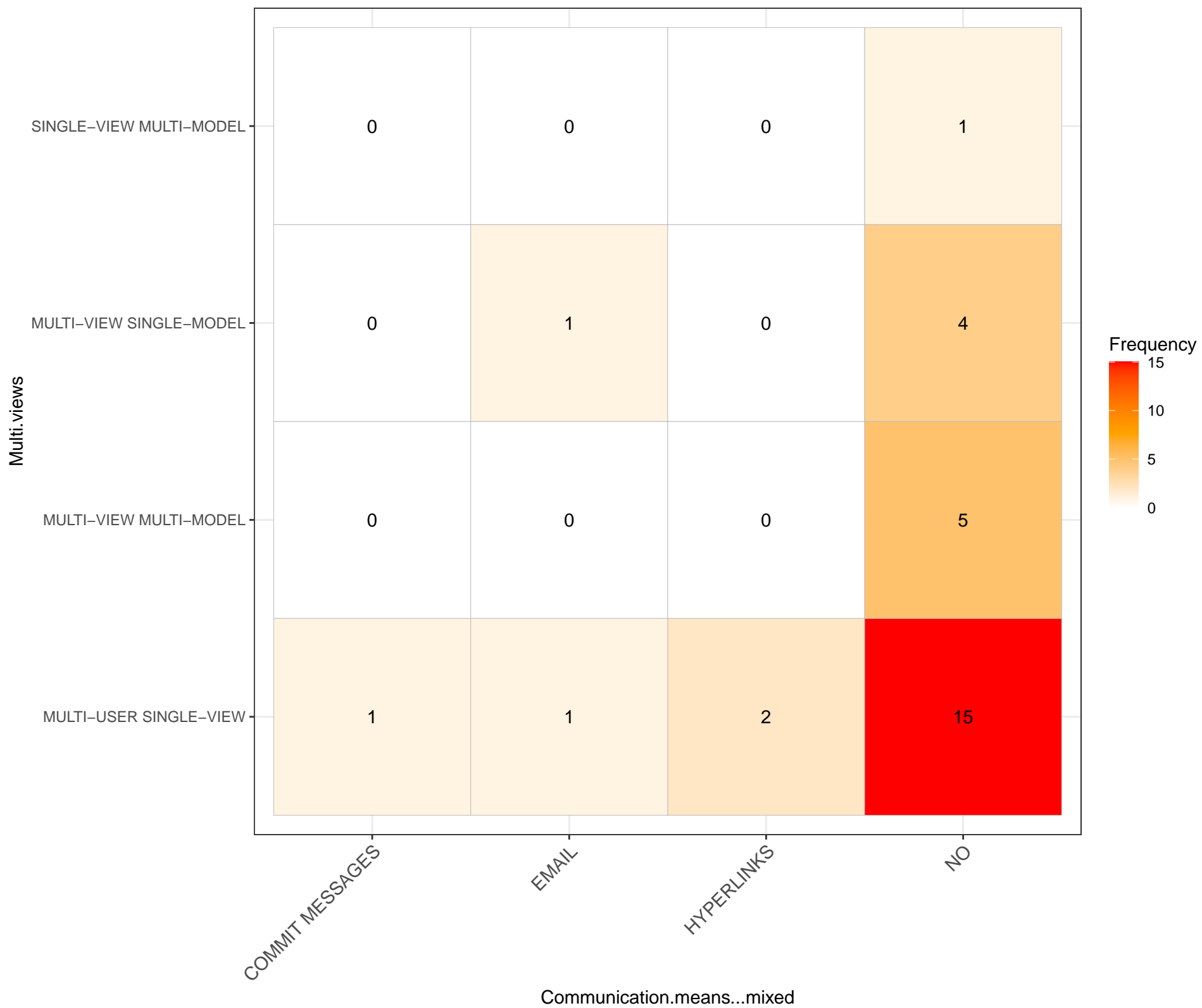


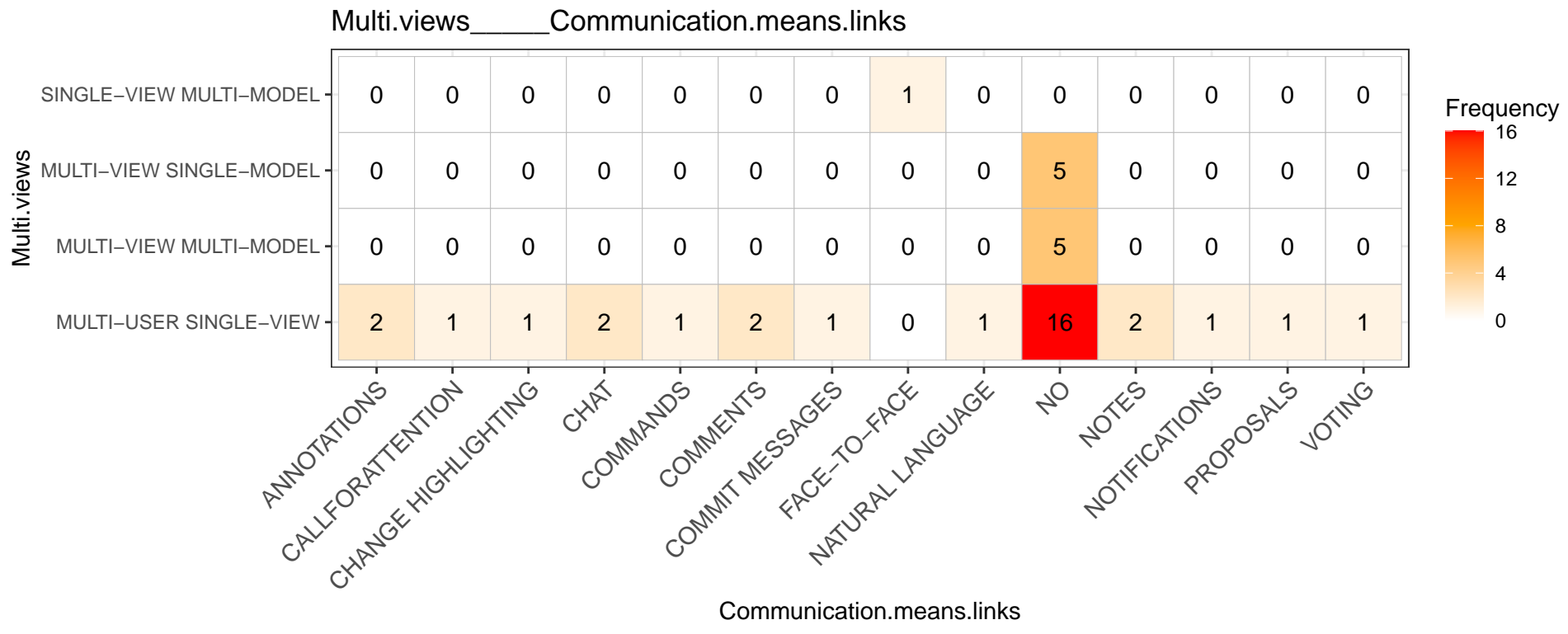


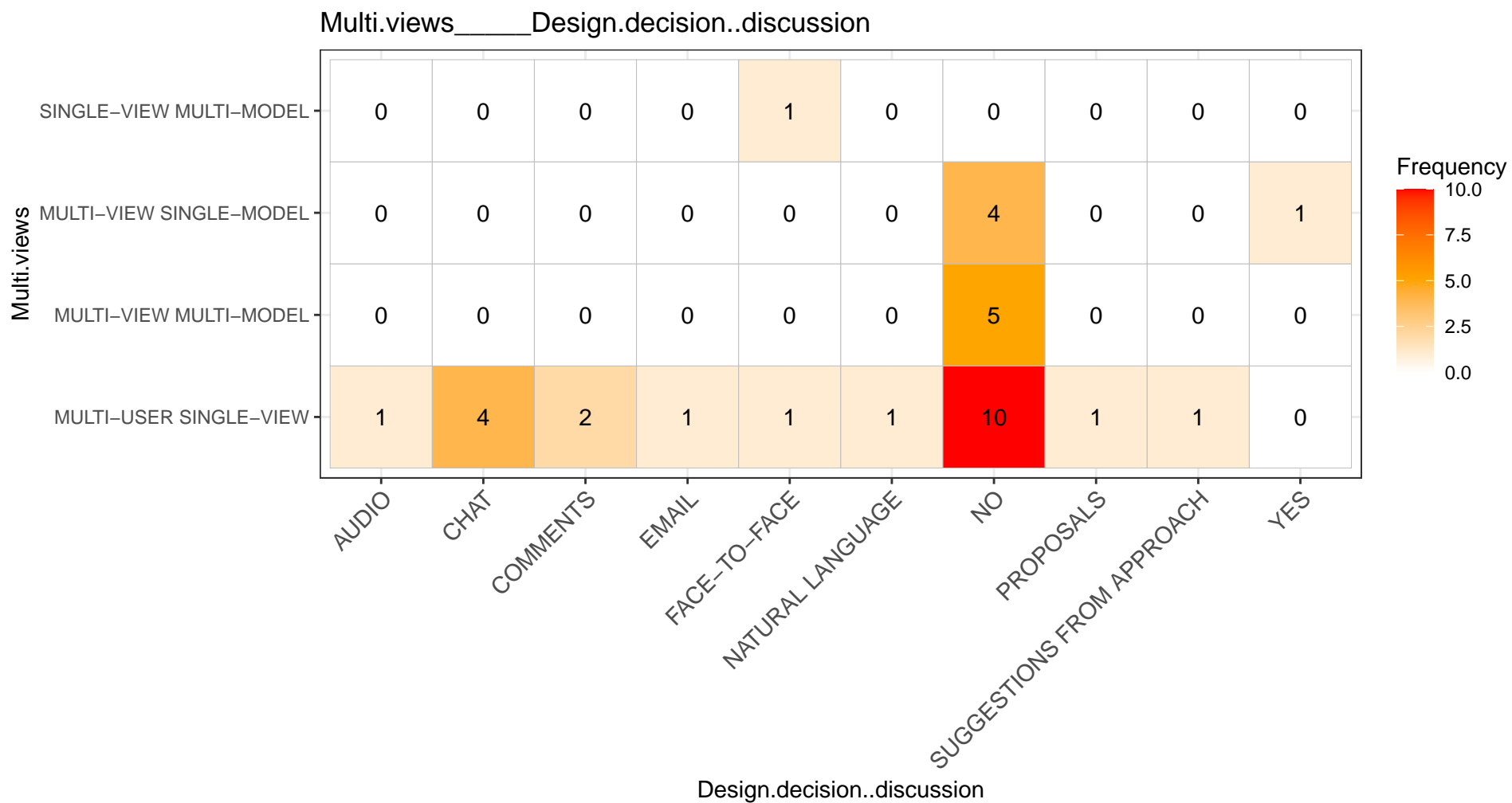


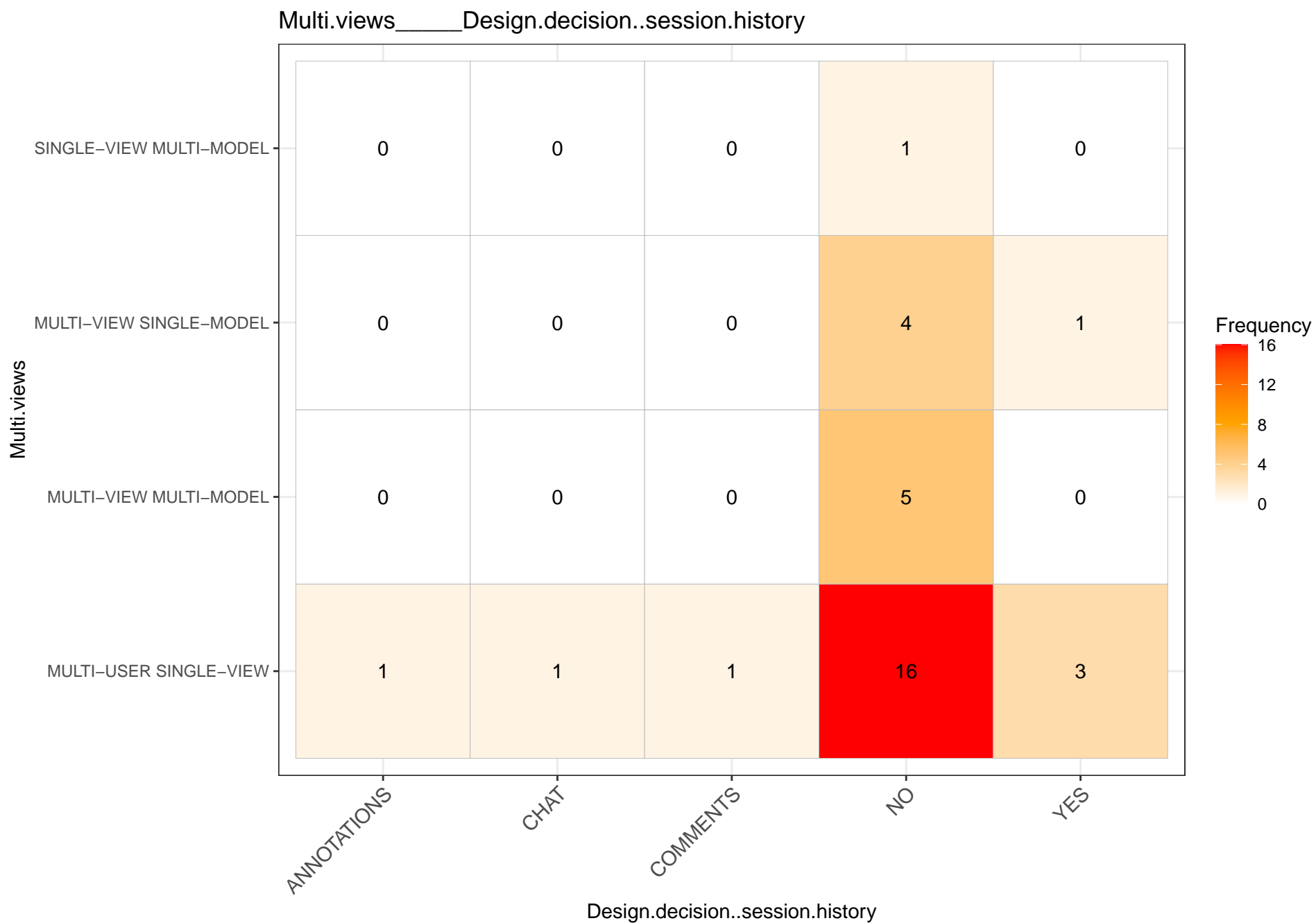


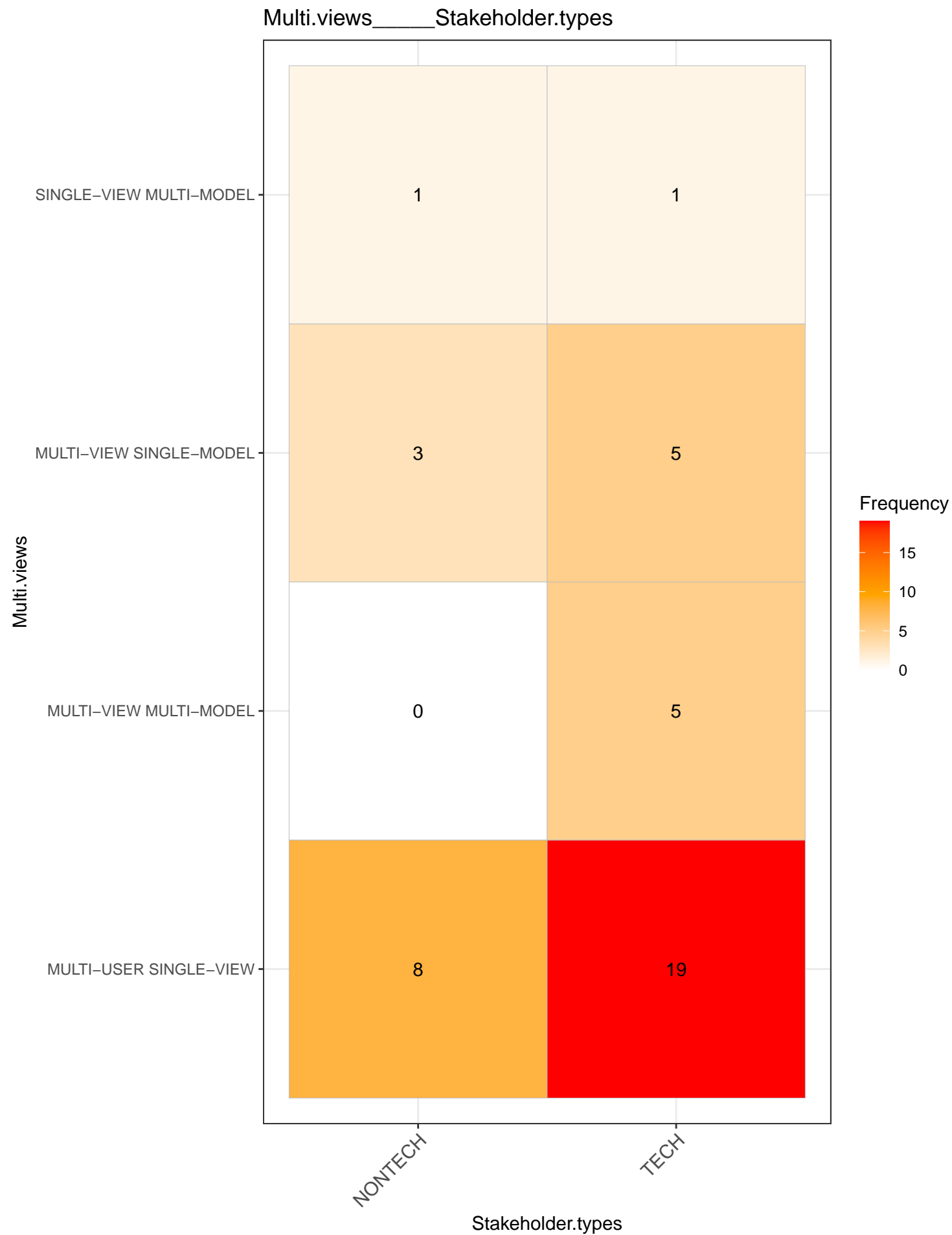
Multi.views_____Communication.means...mixed

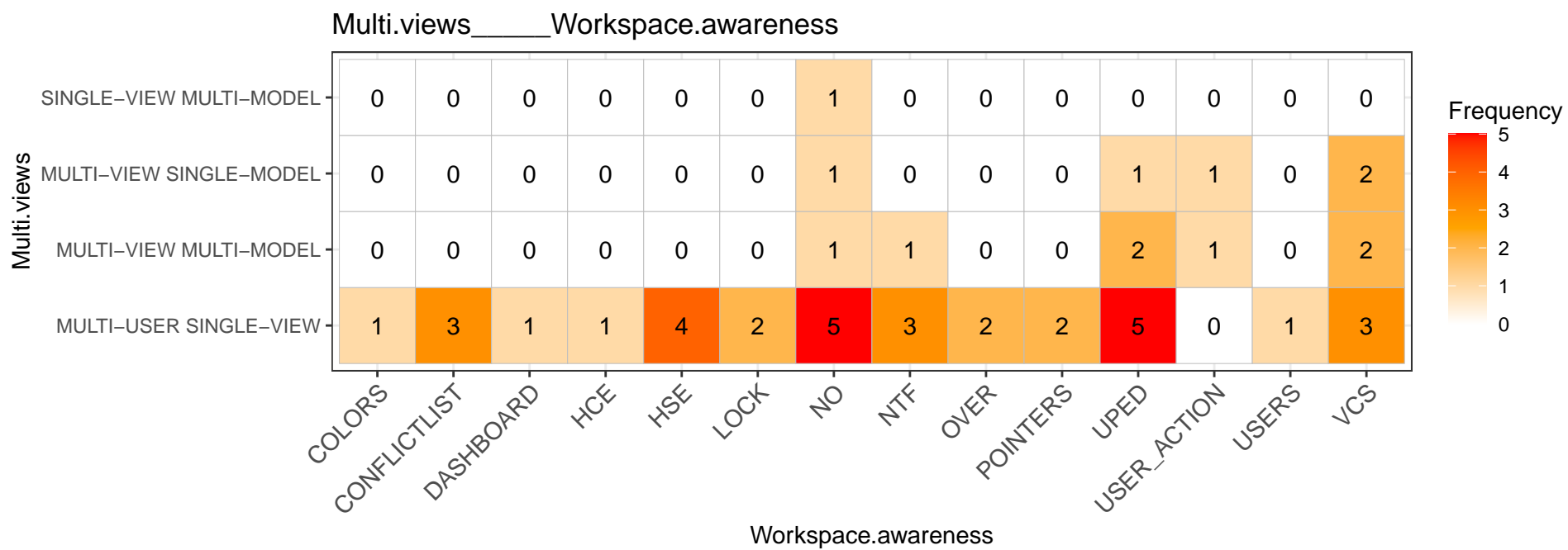




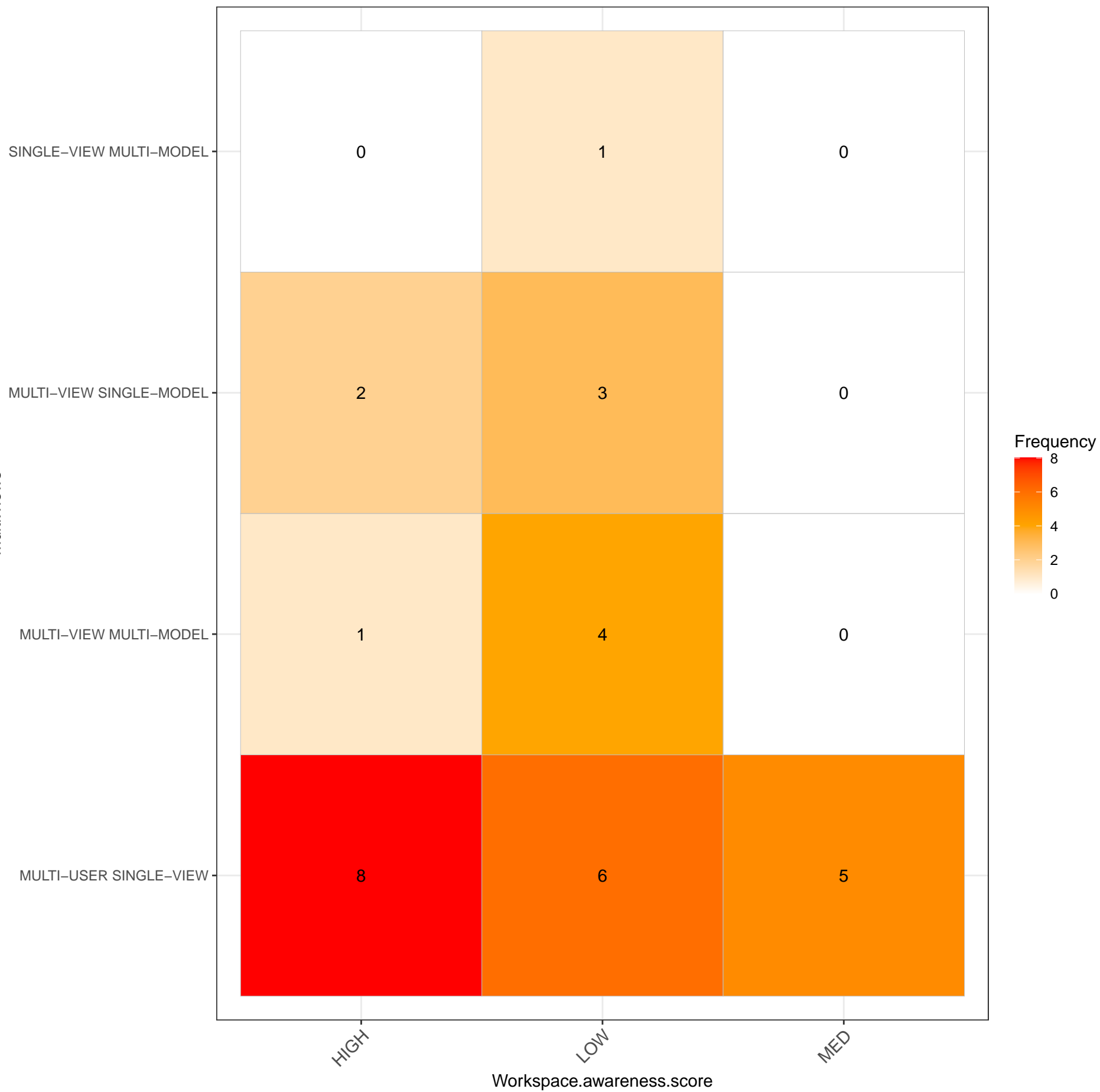


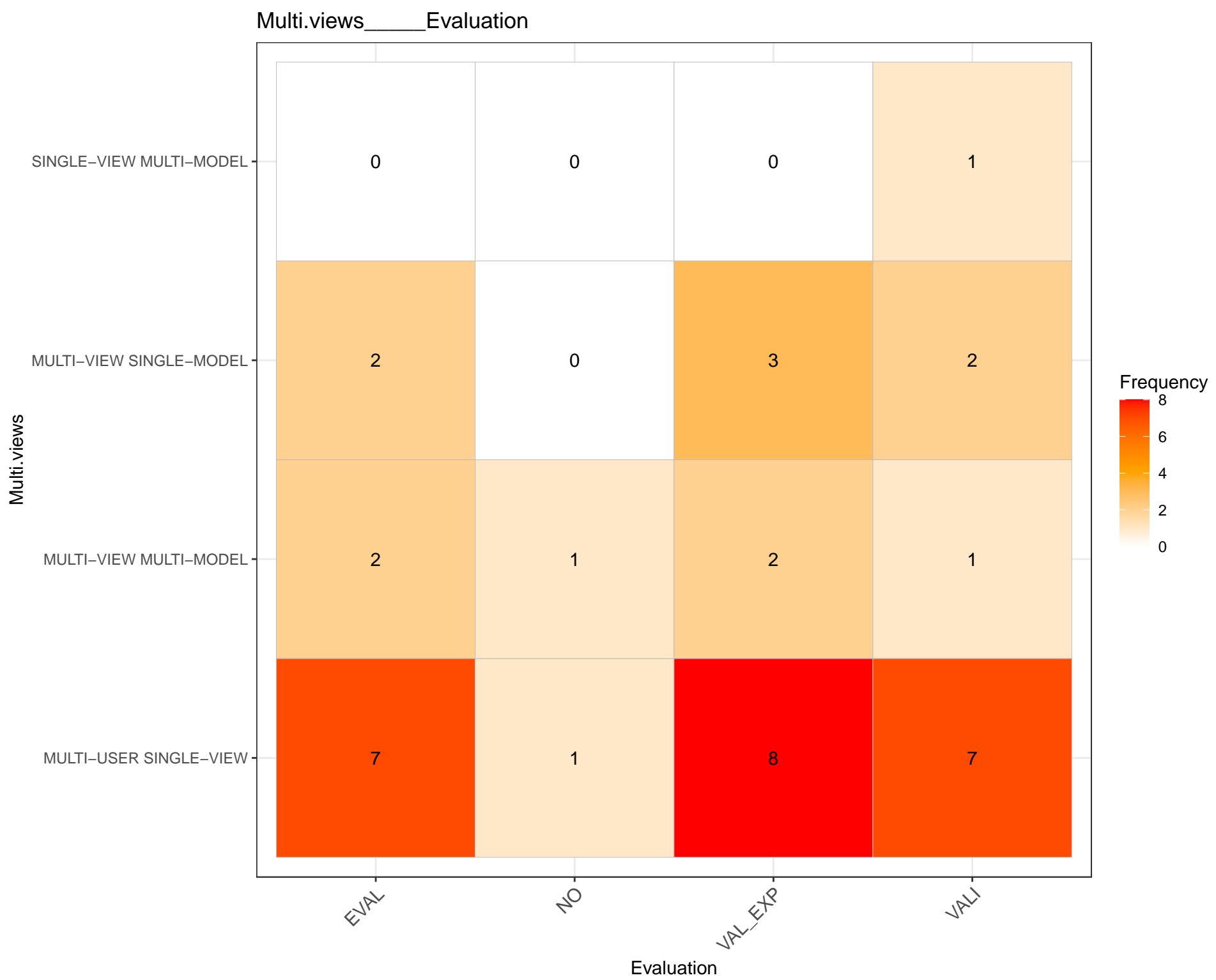


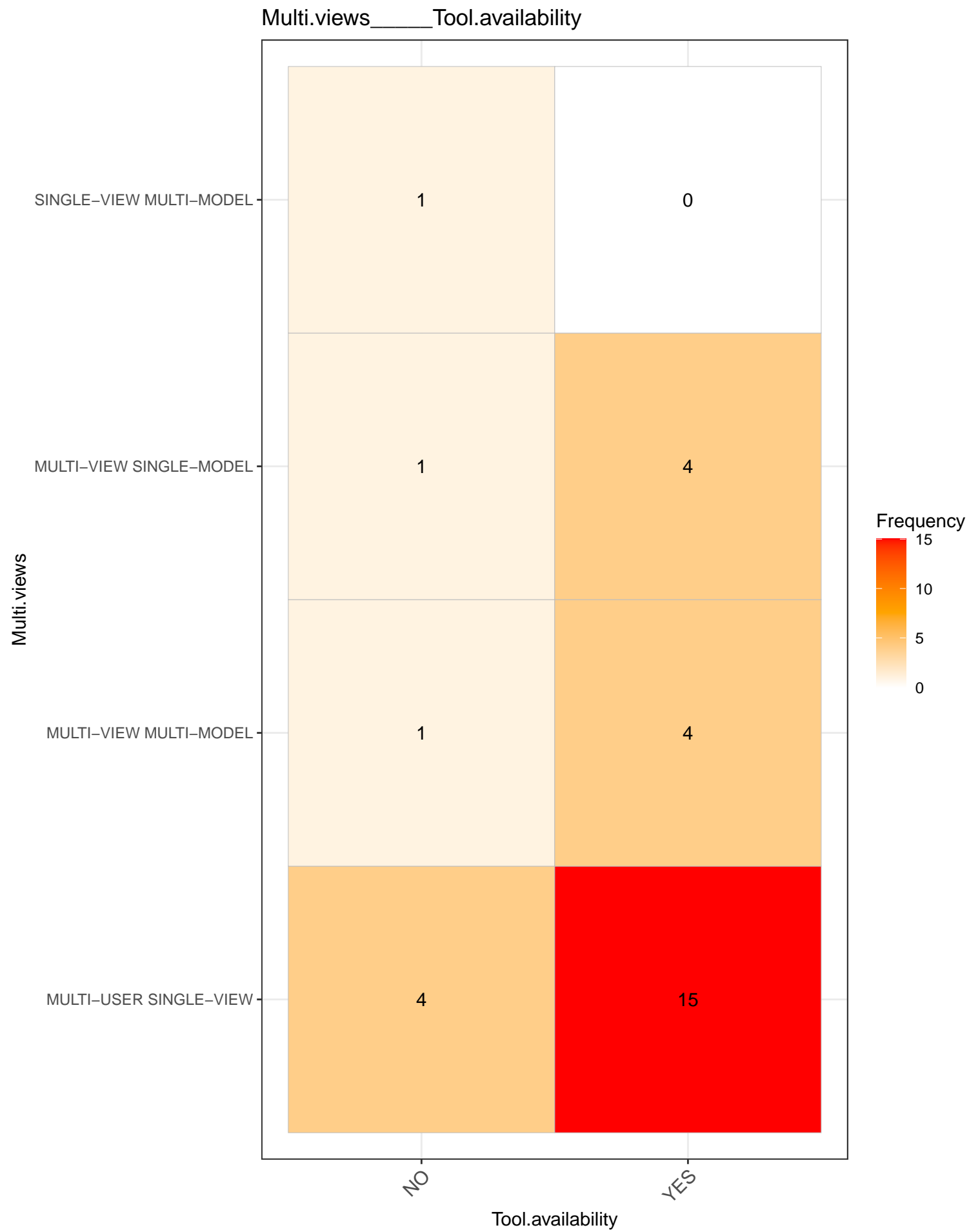


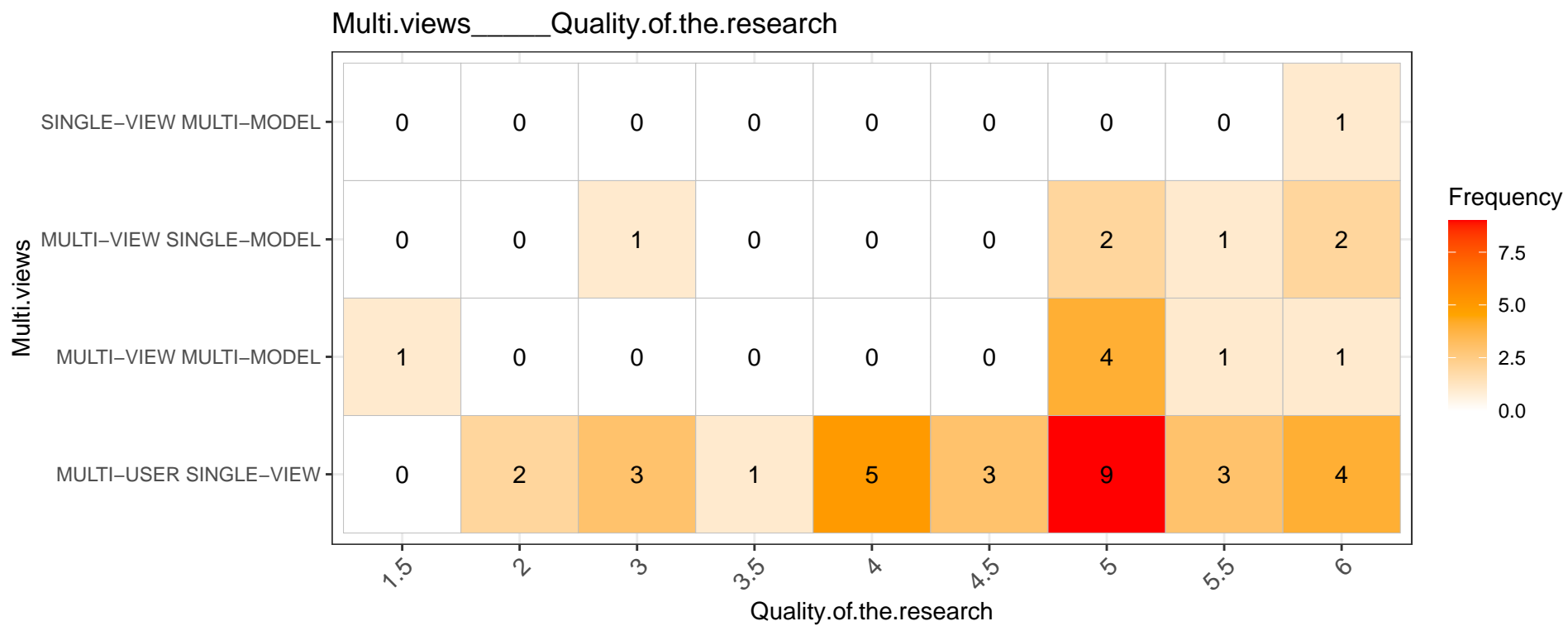


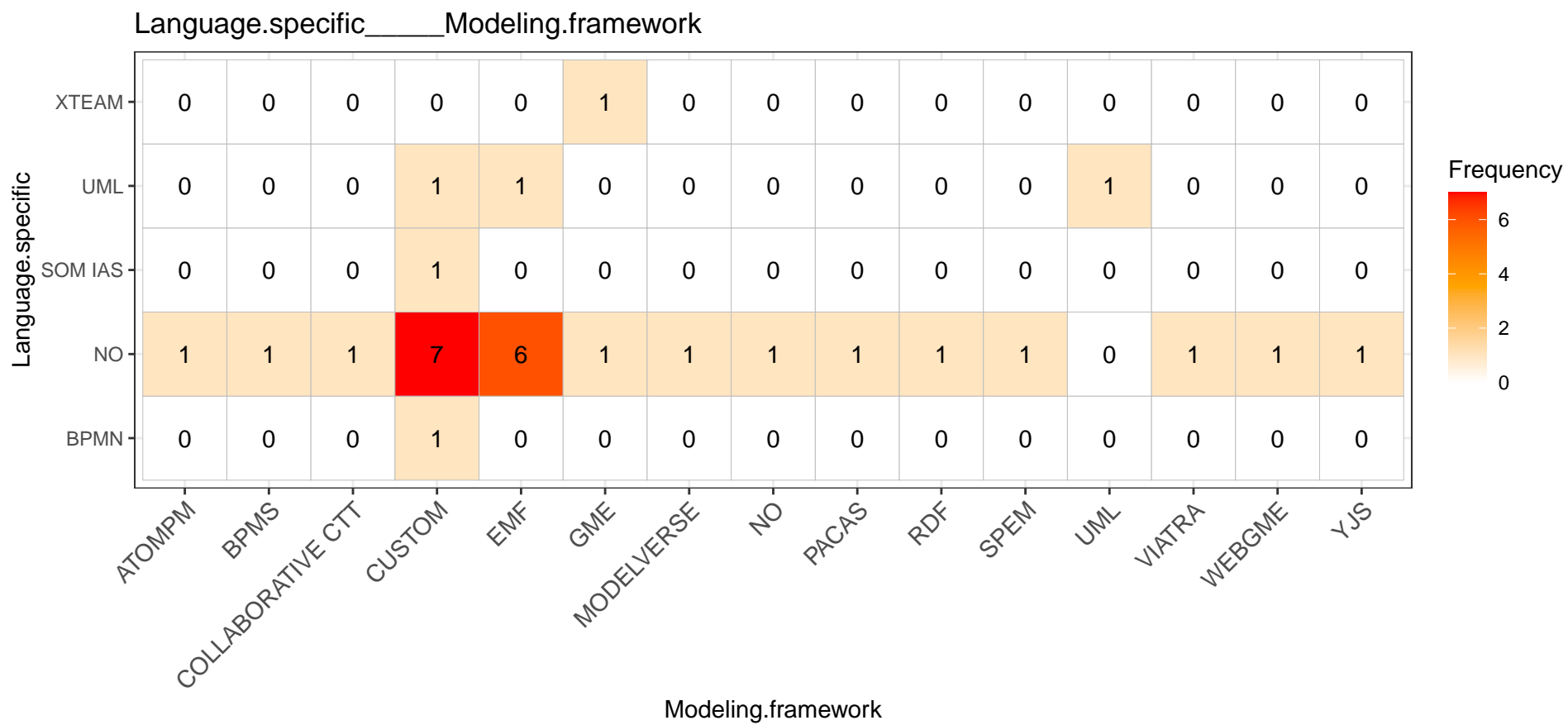
Multi.views_____Workspace.awareness.score

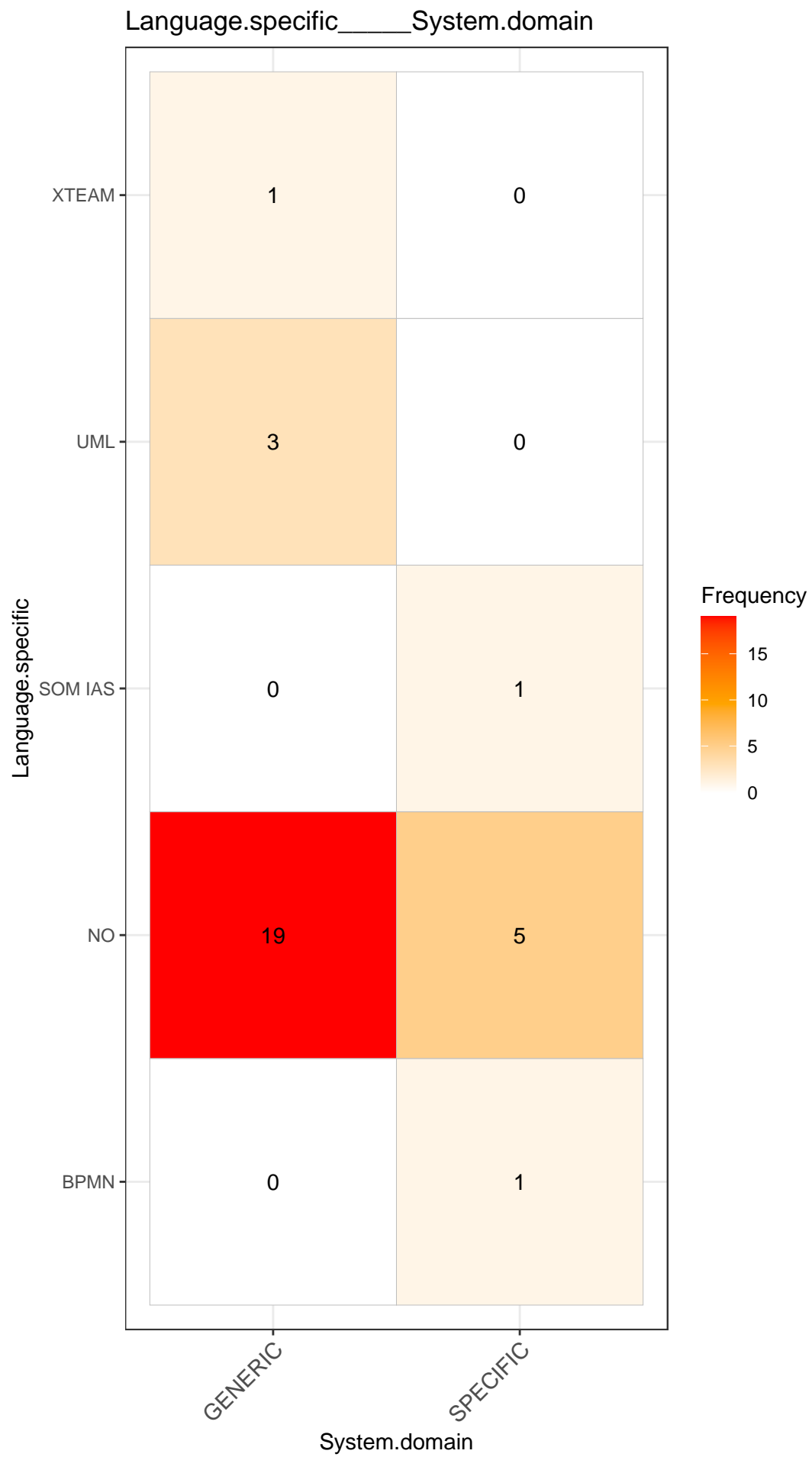




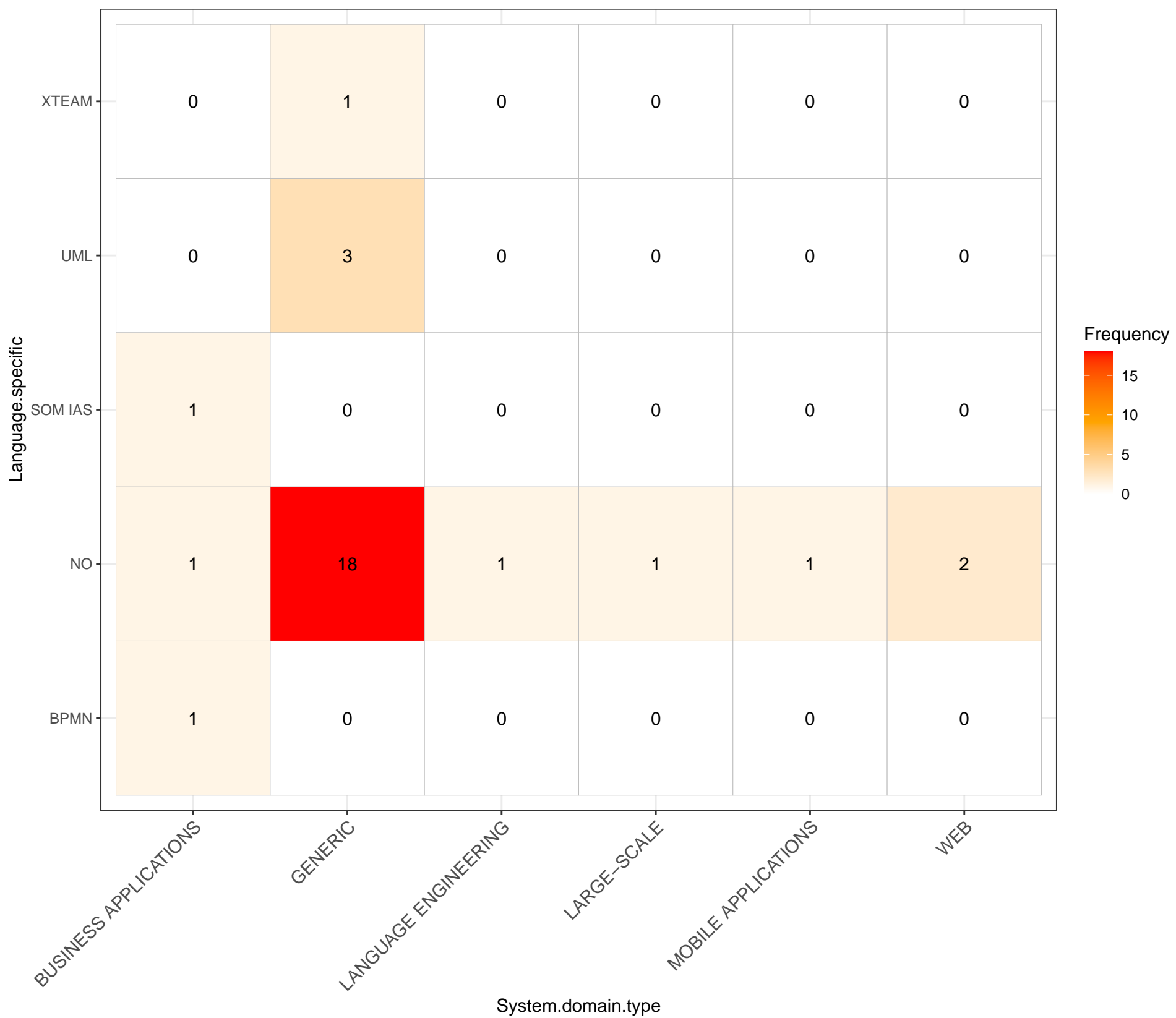




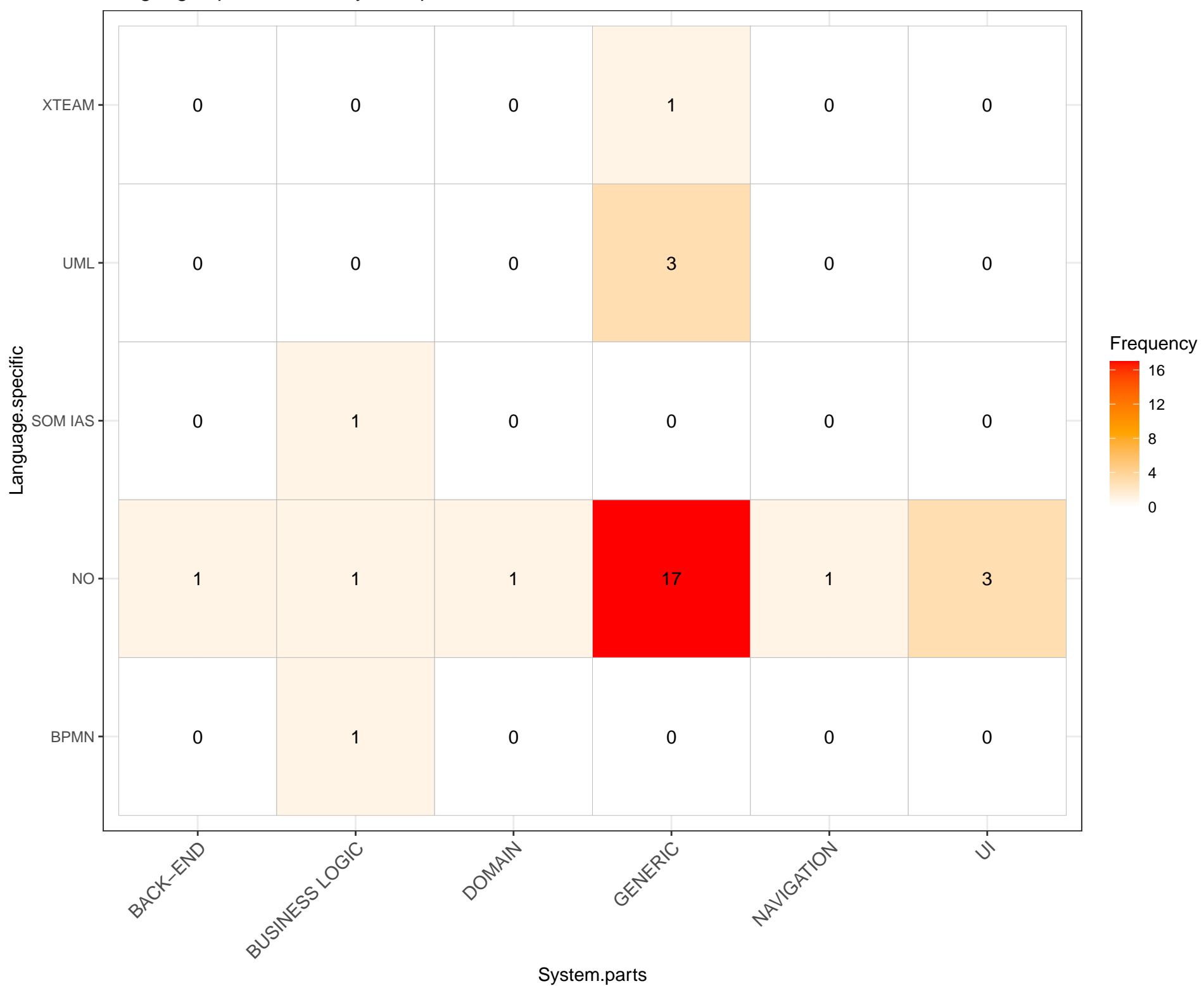




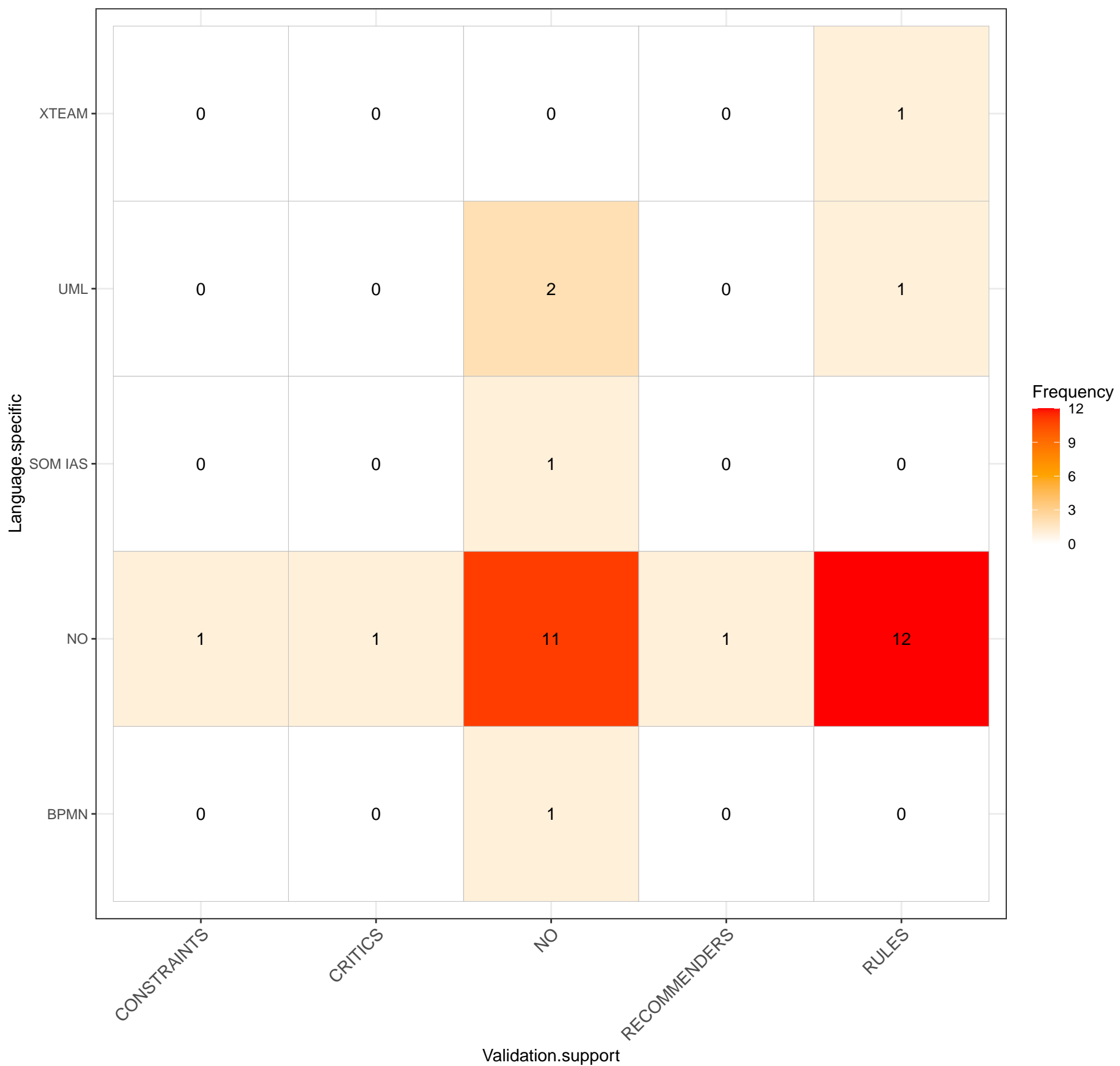
Language.specific_____System.domain.type

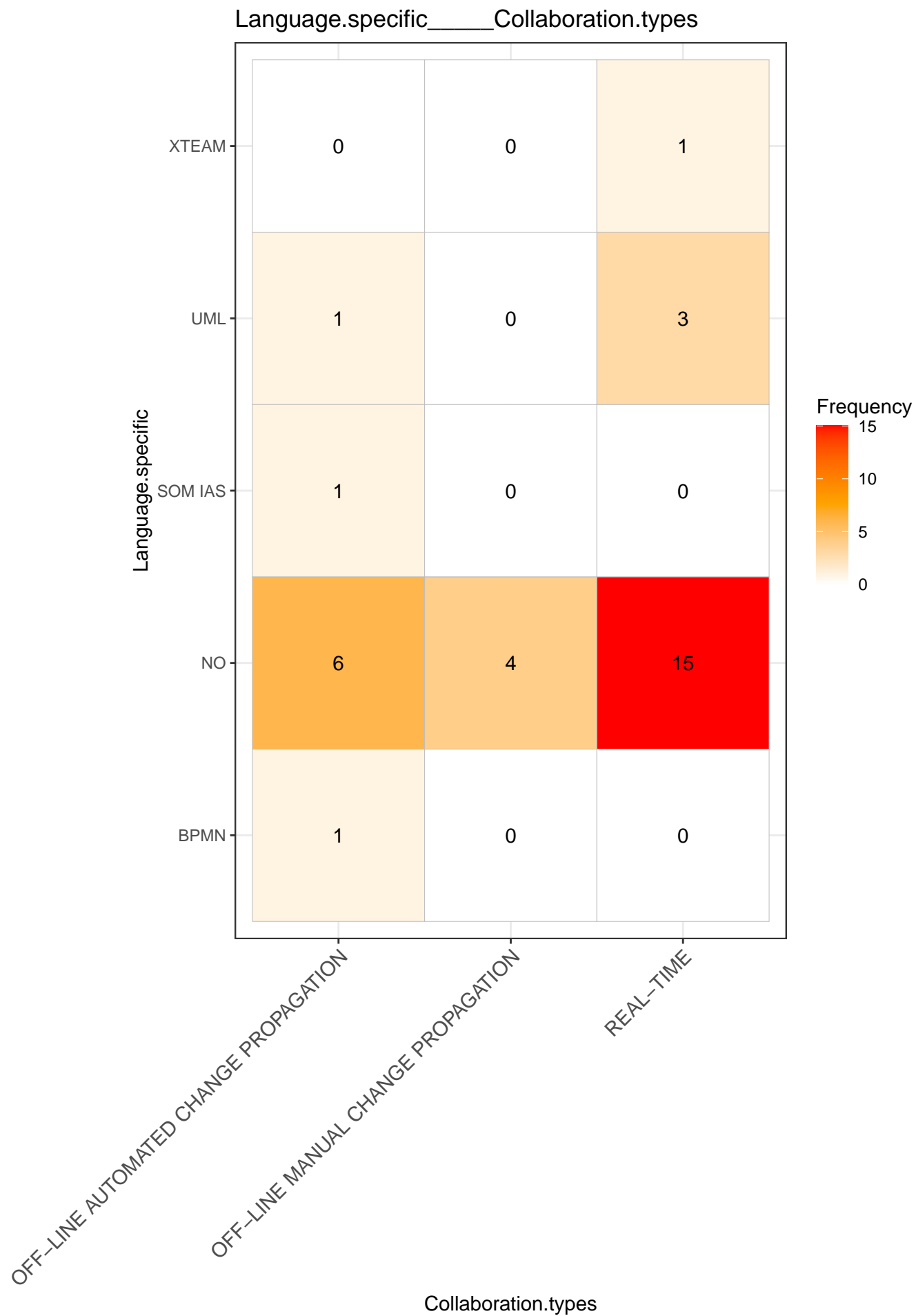


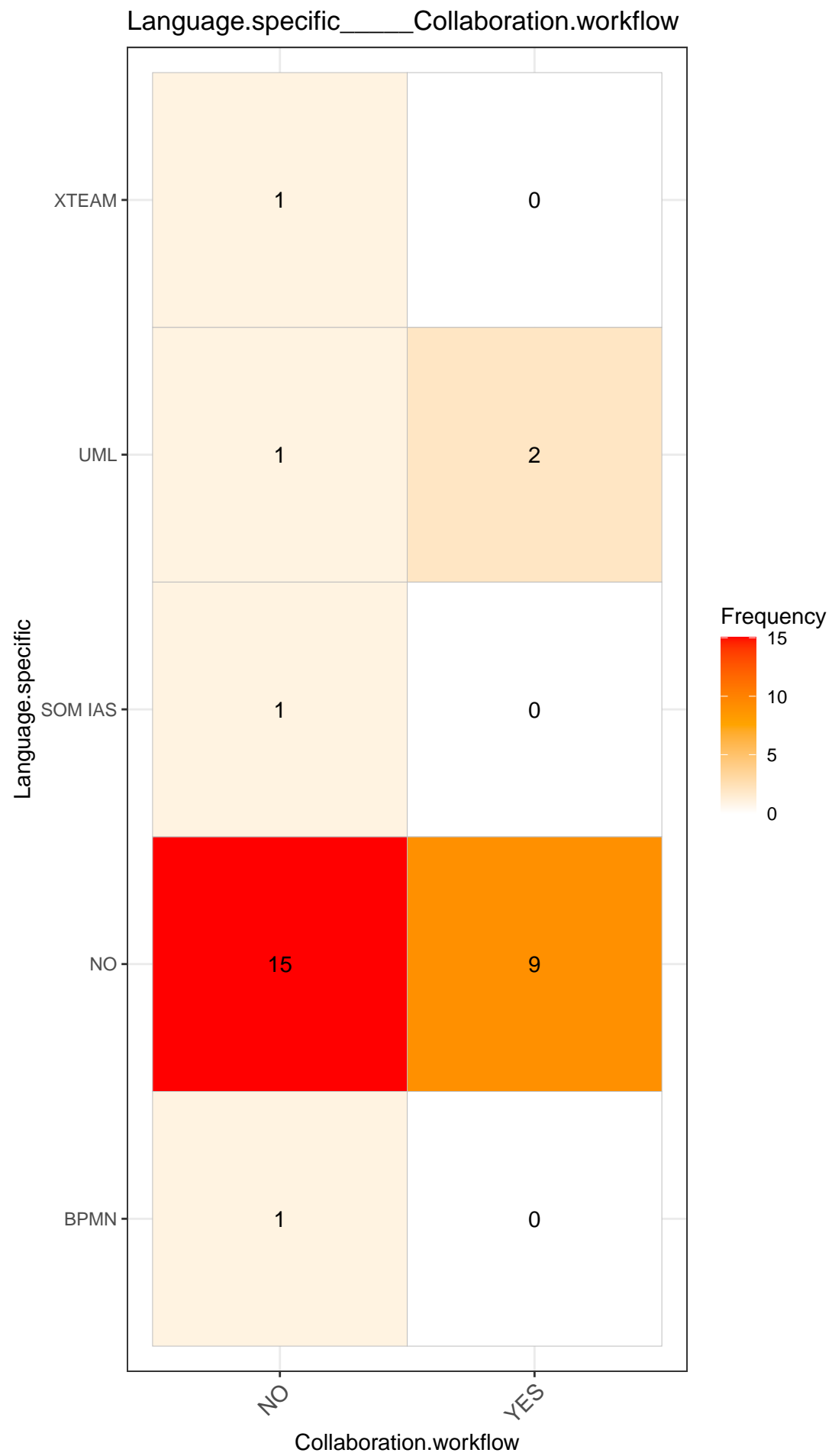
Language.specific____System.parts

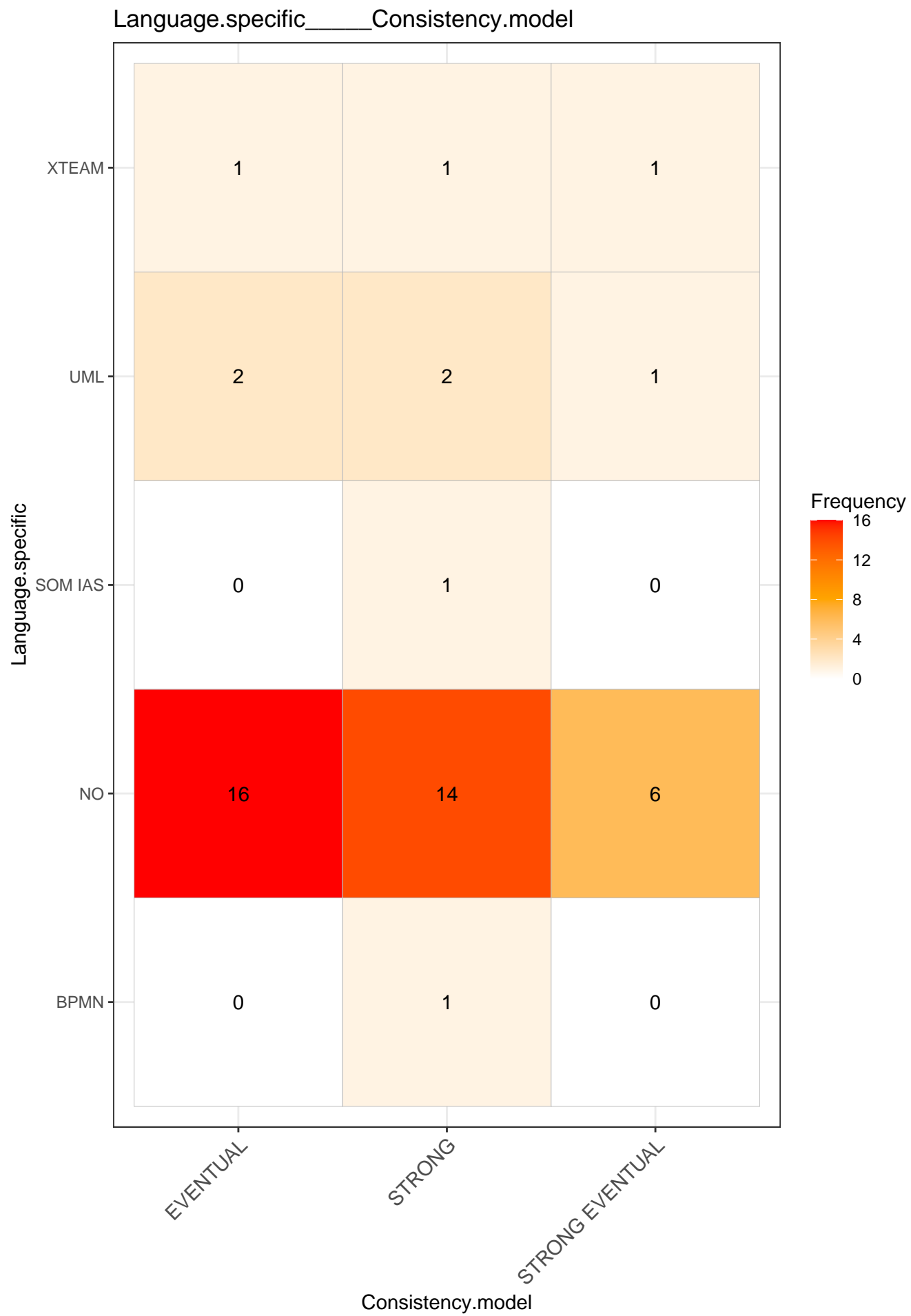


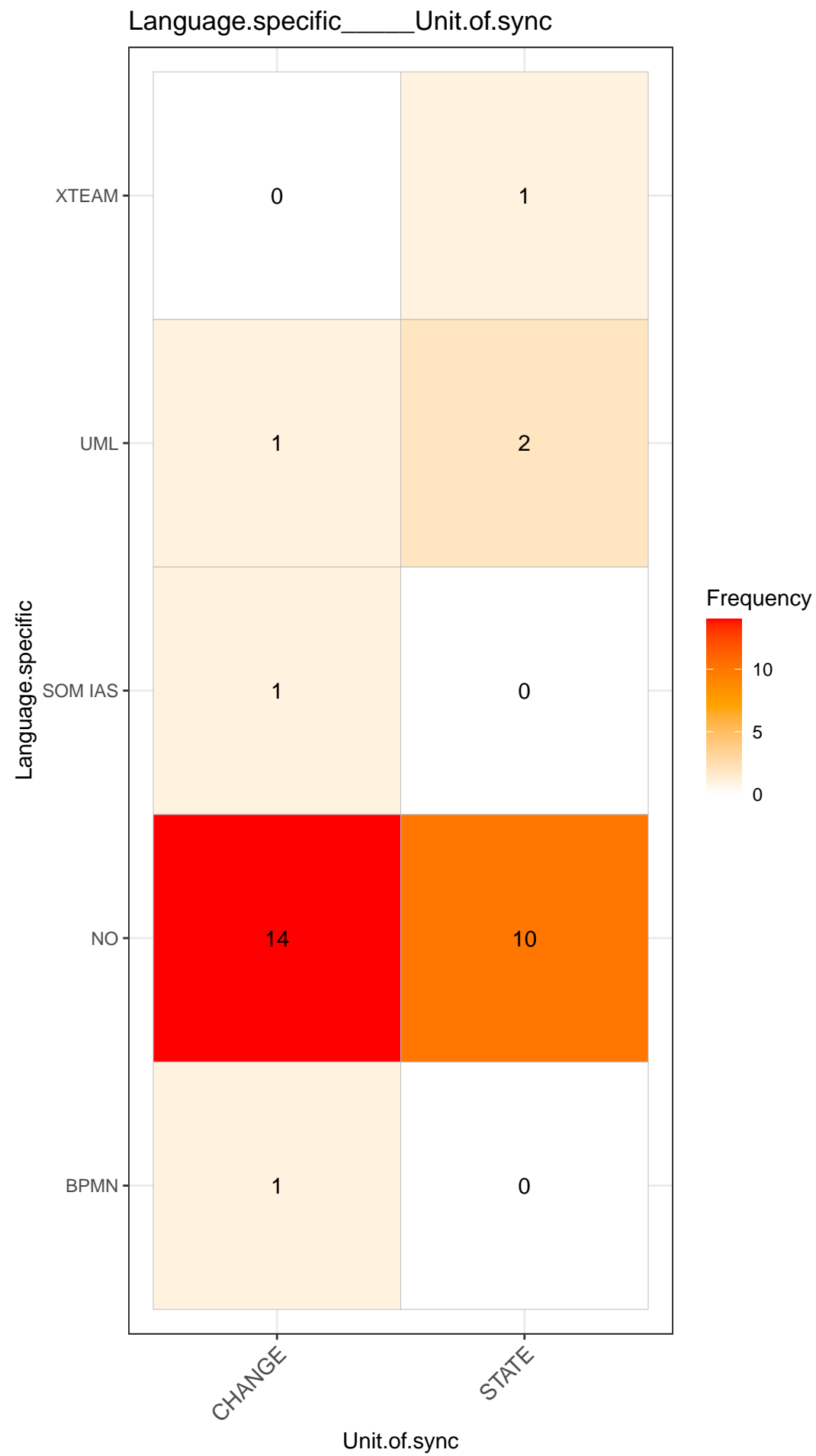
Language.specific_____Validation.support

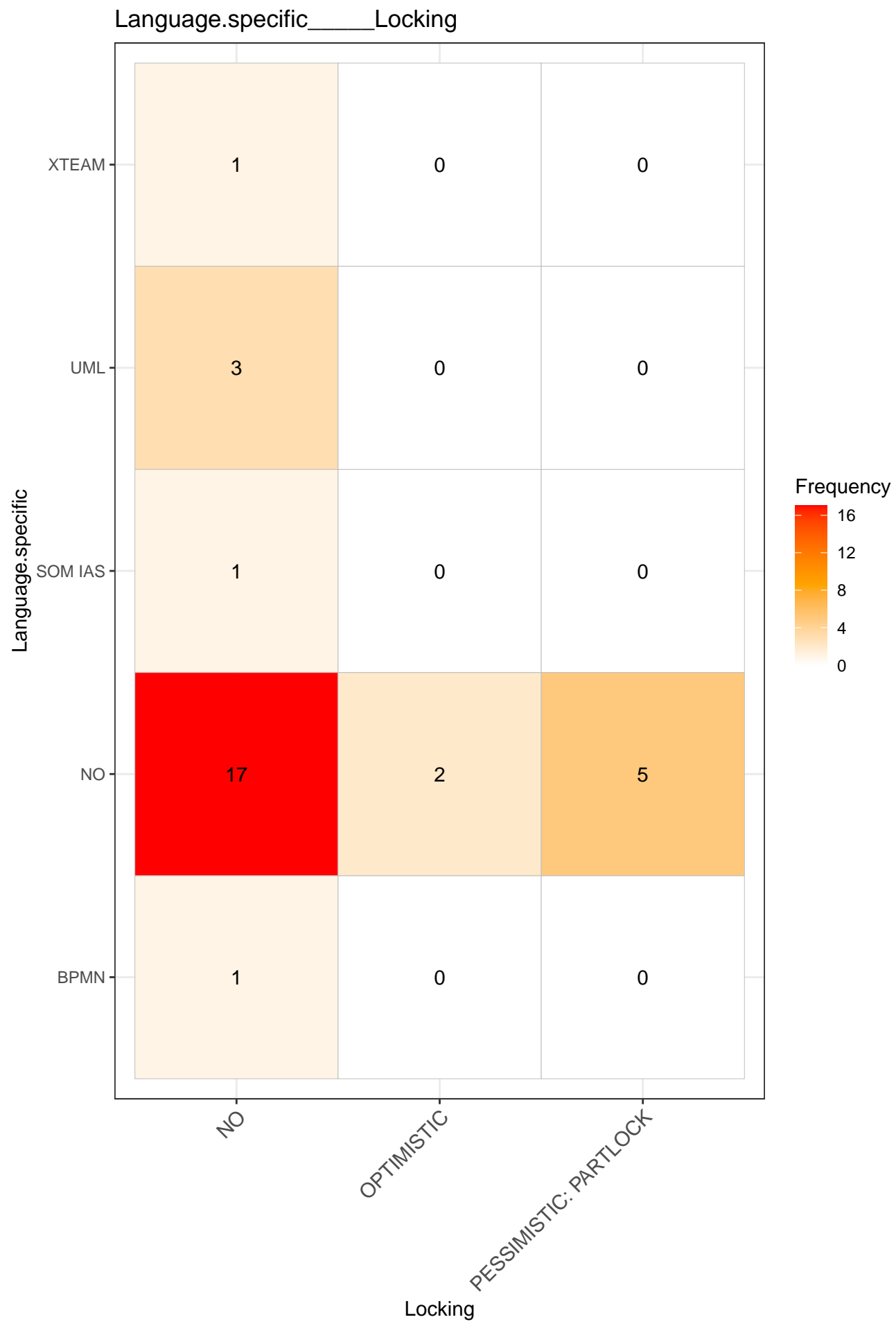


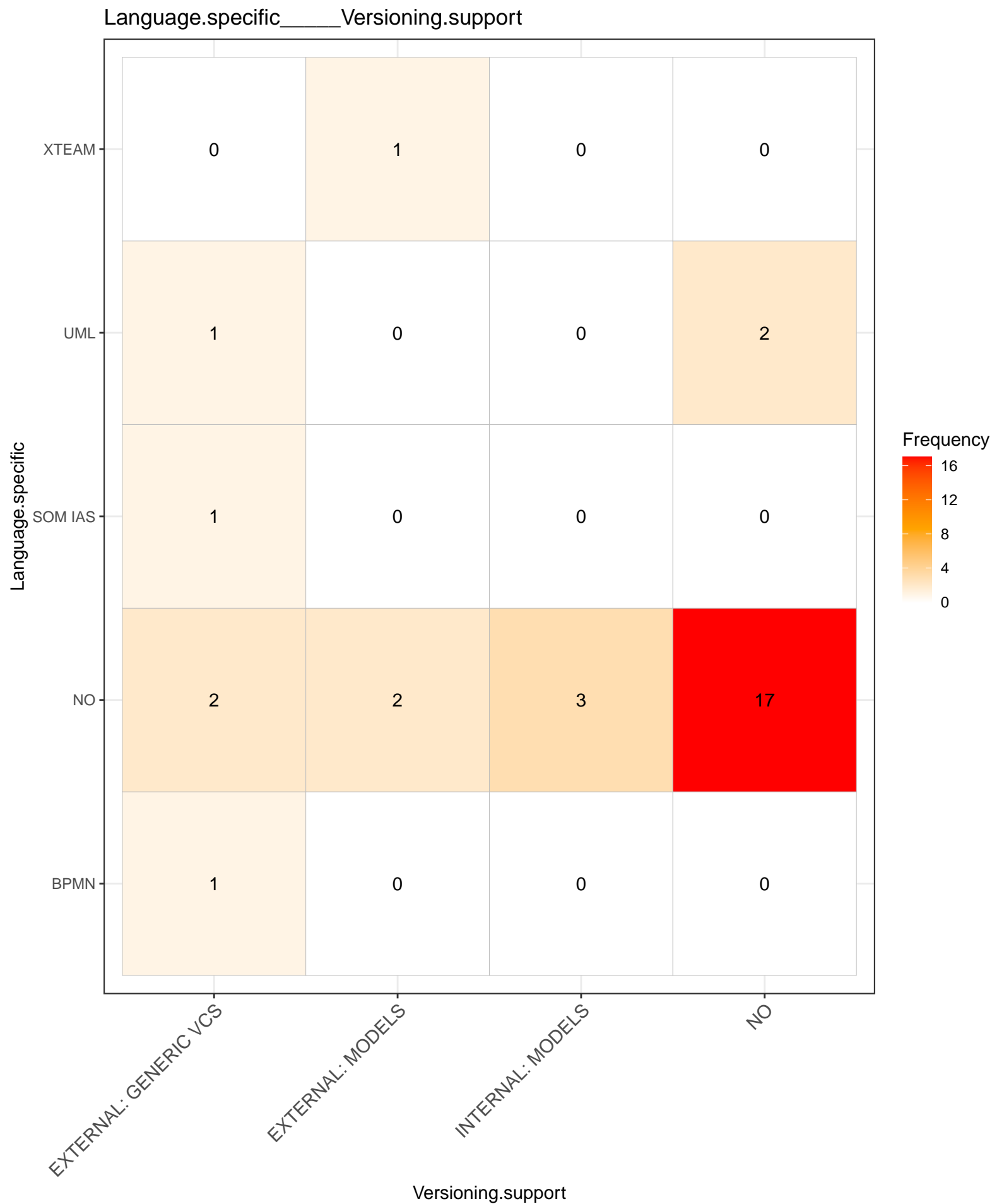


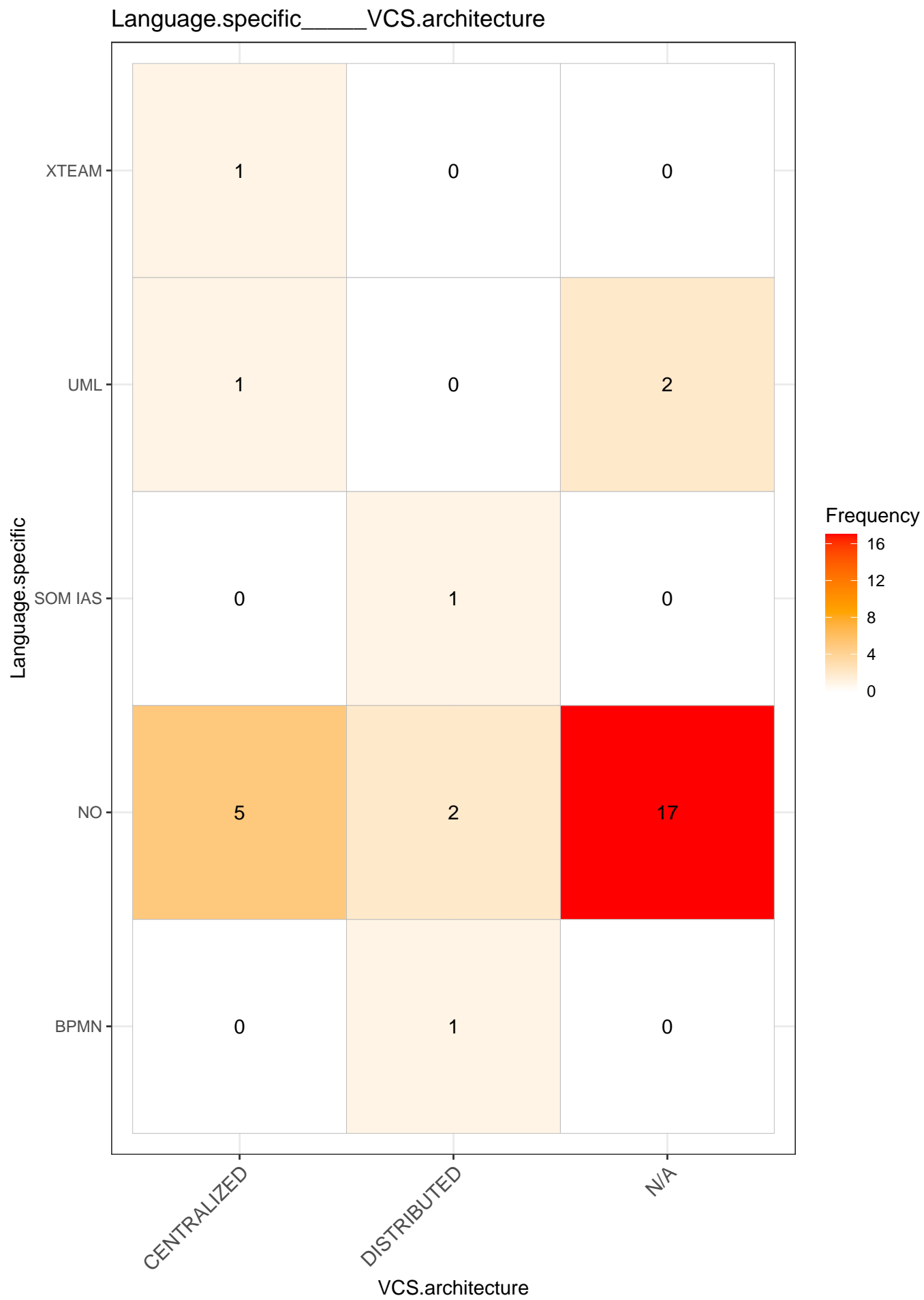




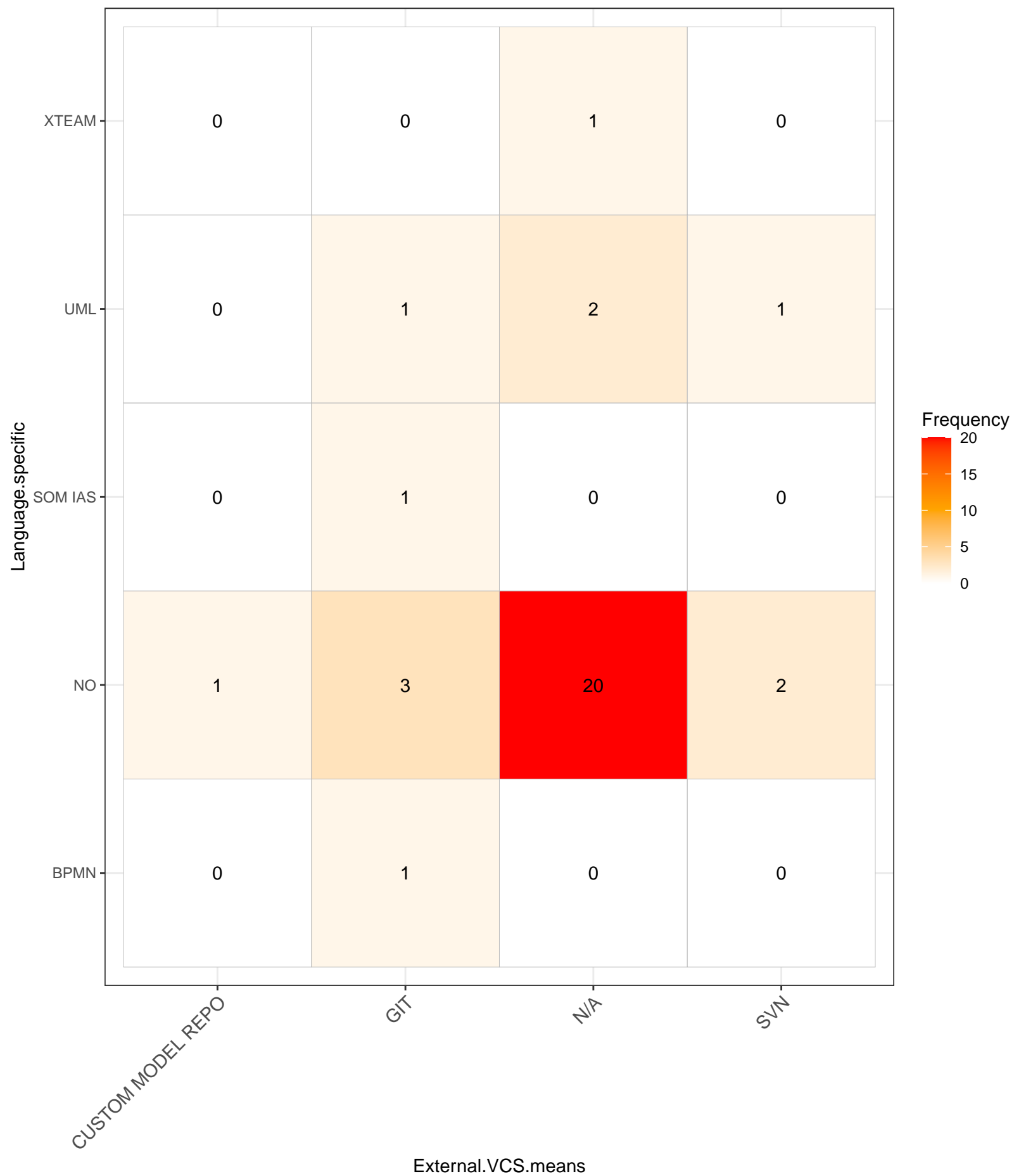


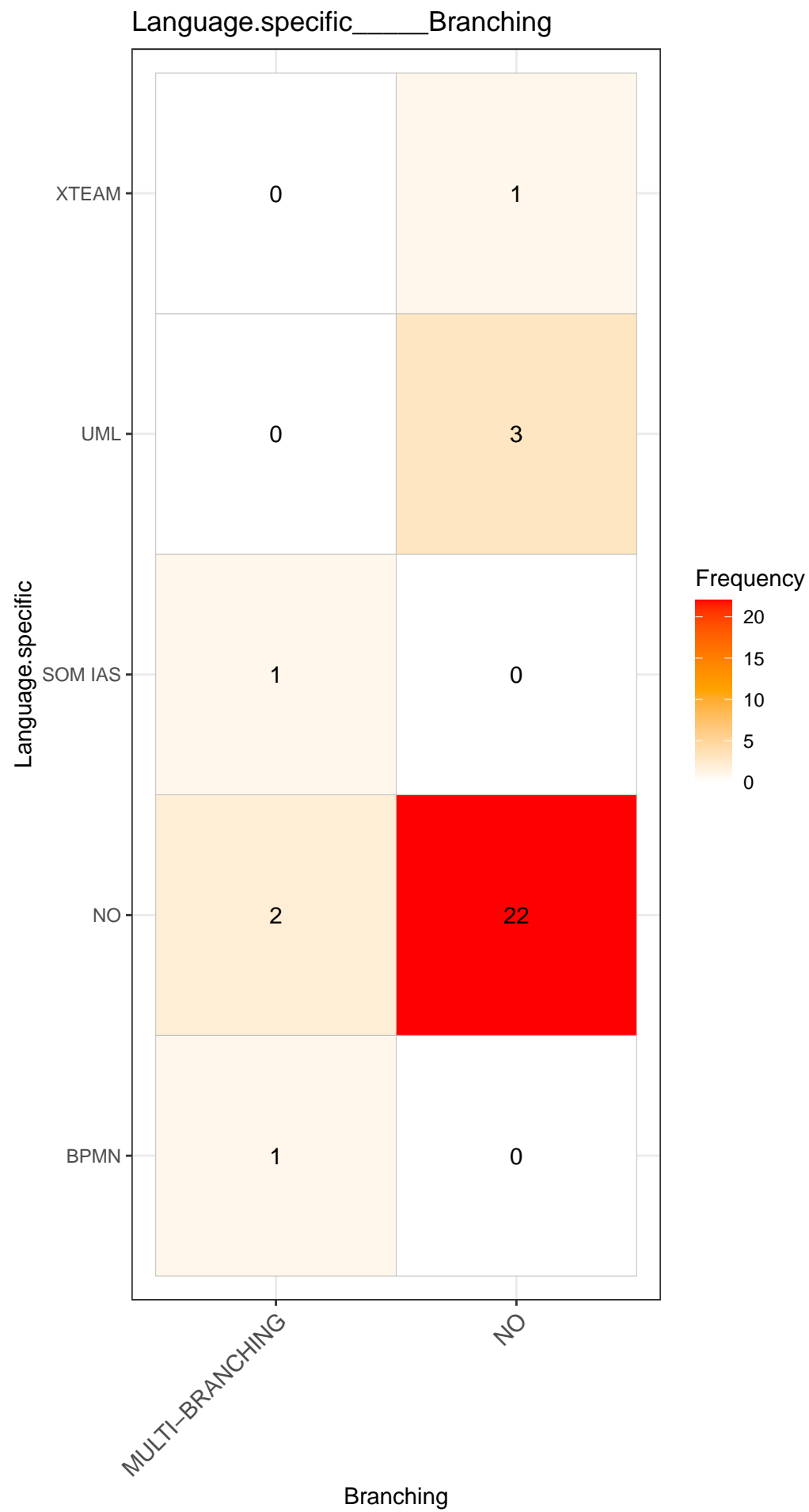


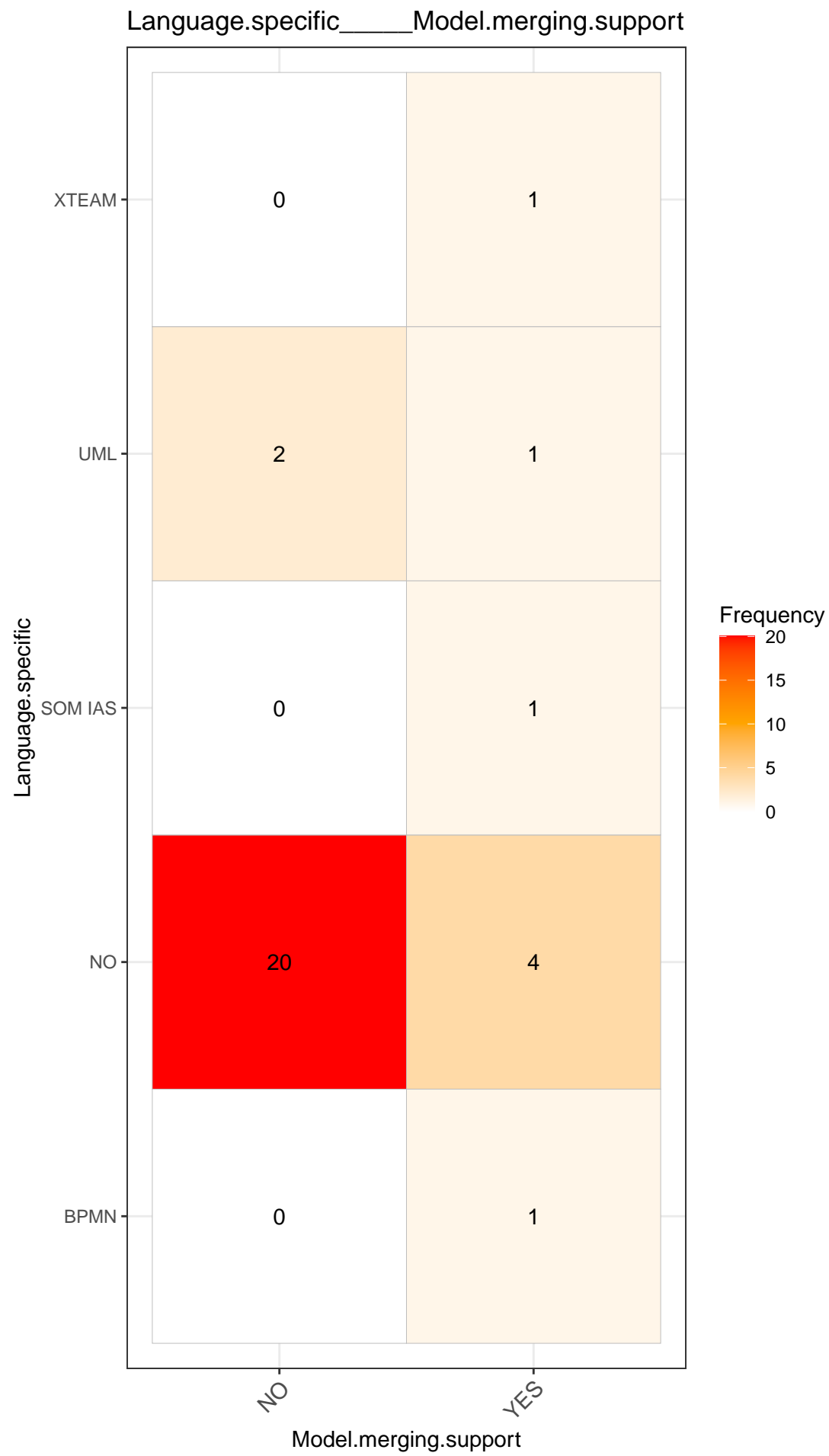


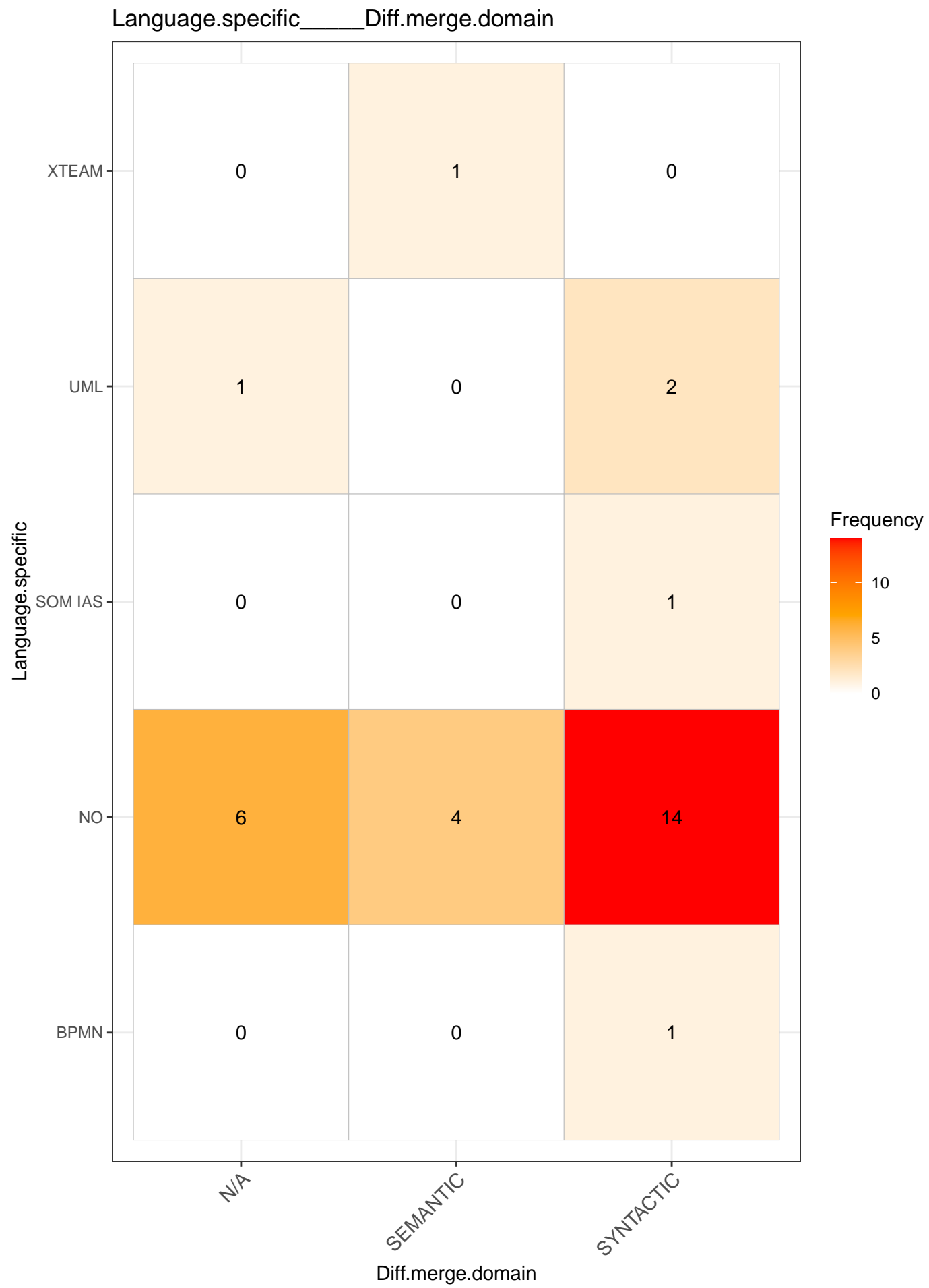


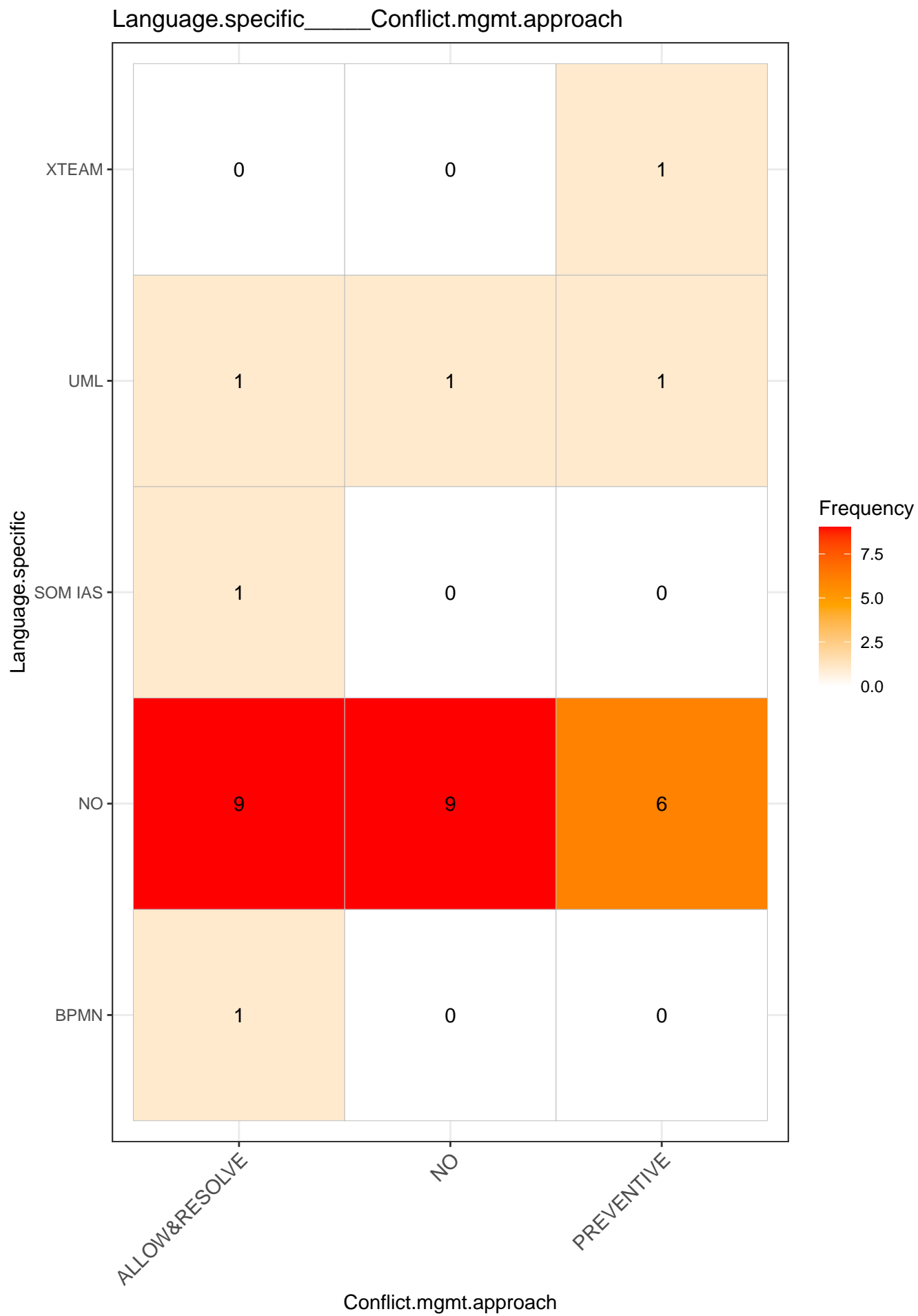
Language.specific_____External.VCS.means

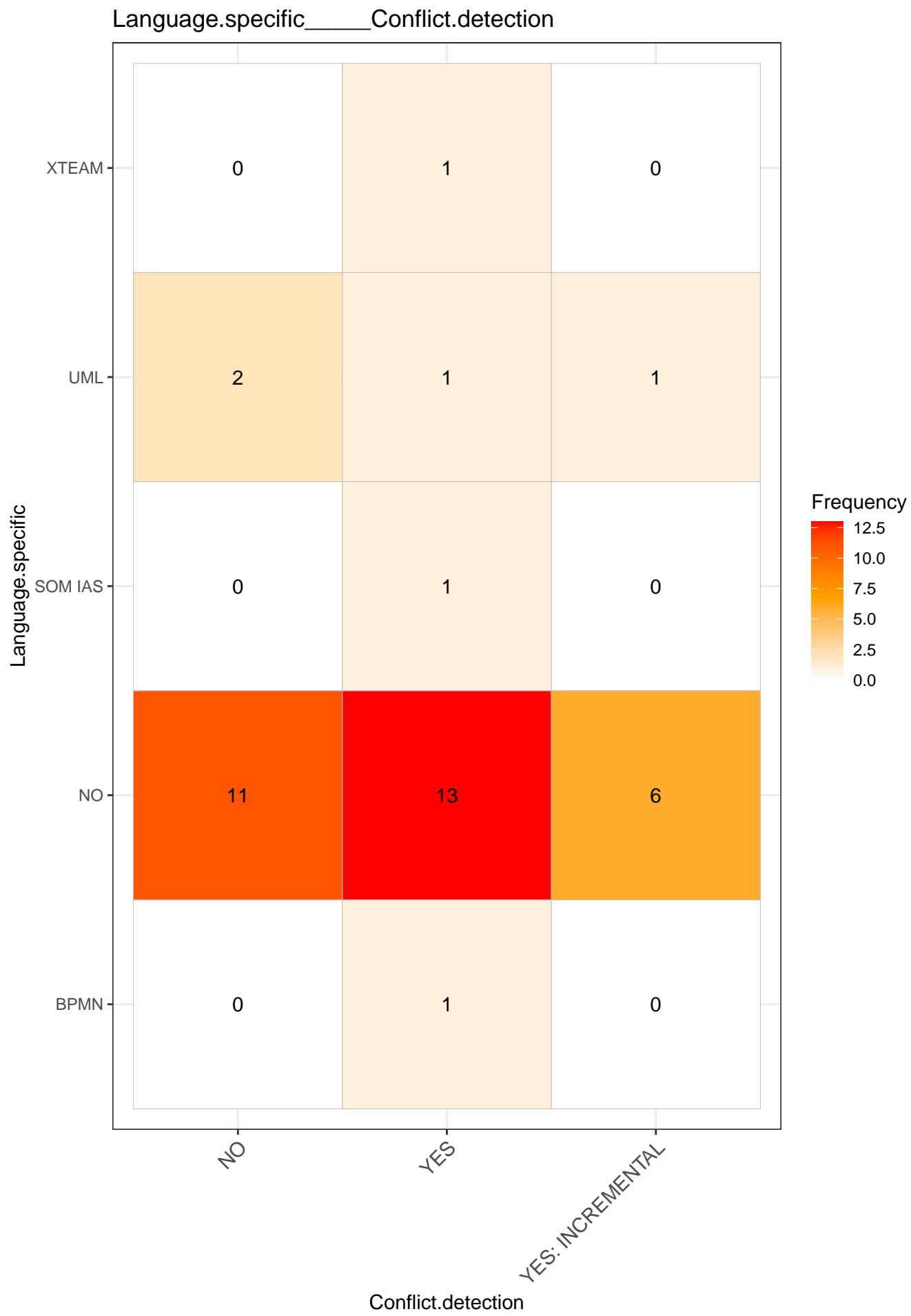


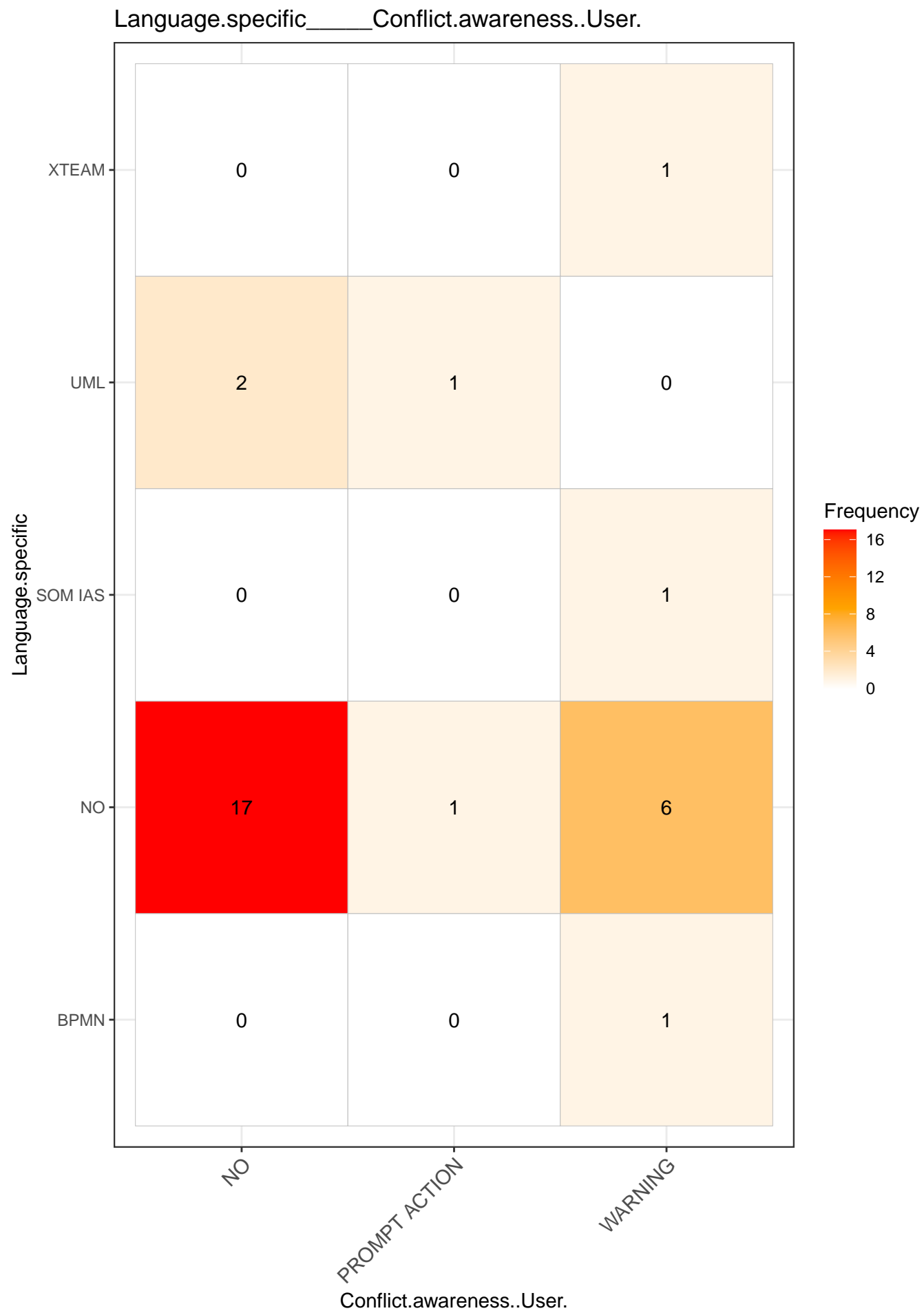


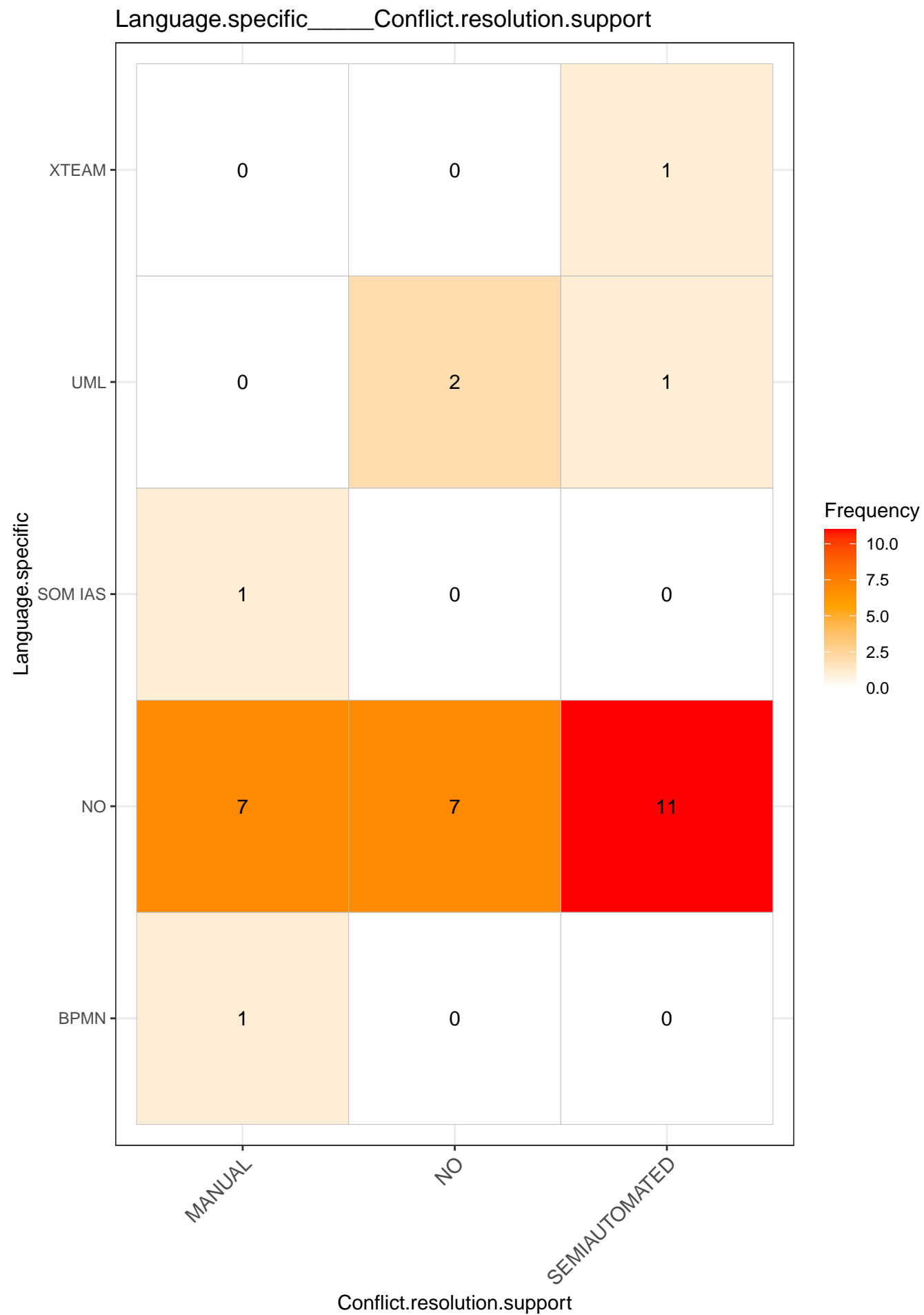


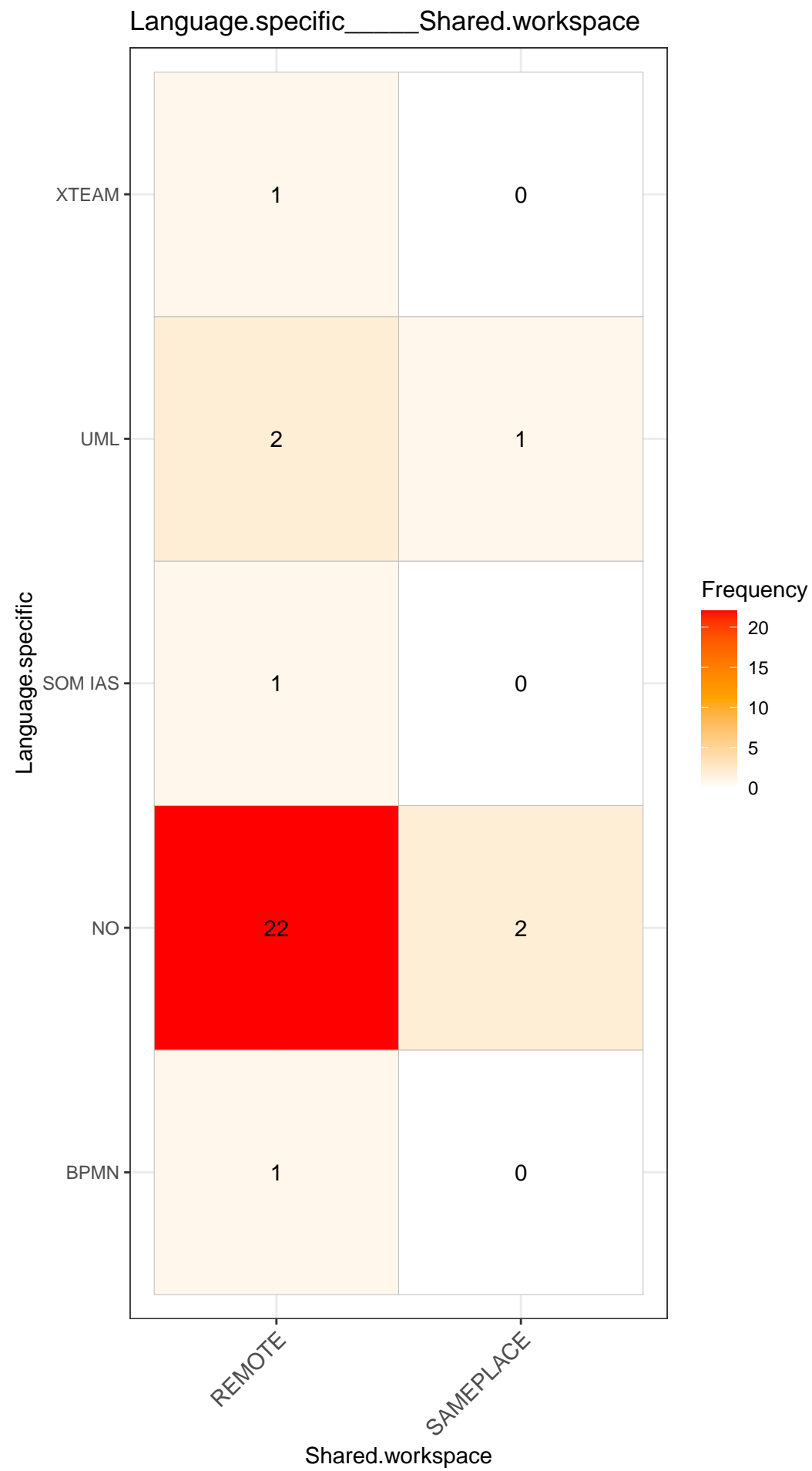




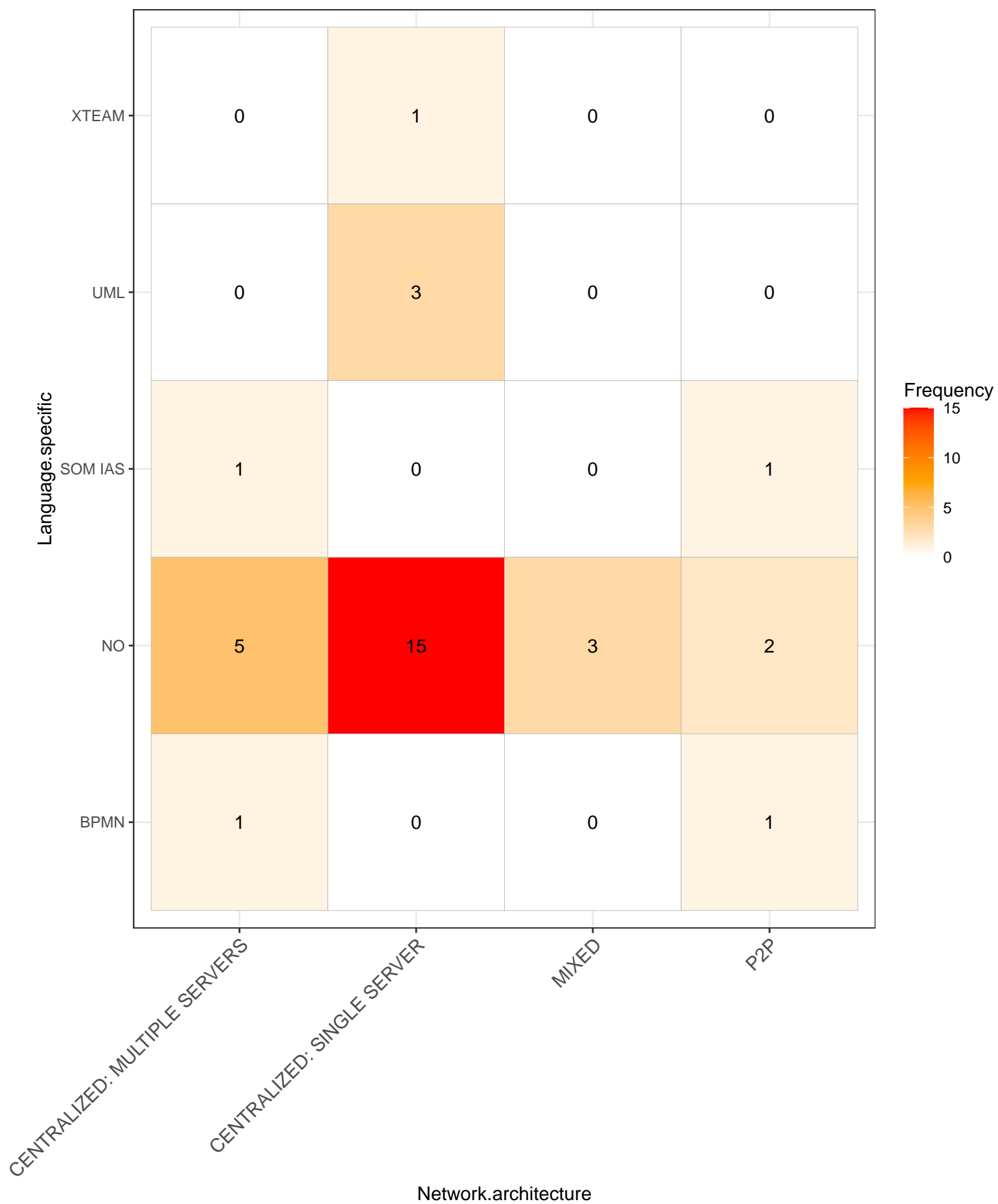


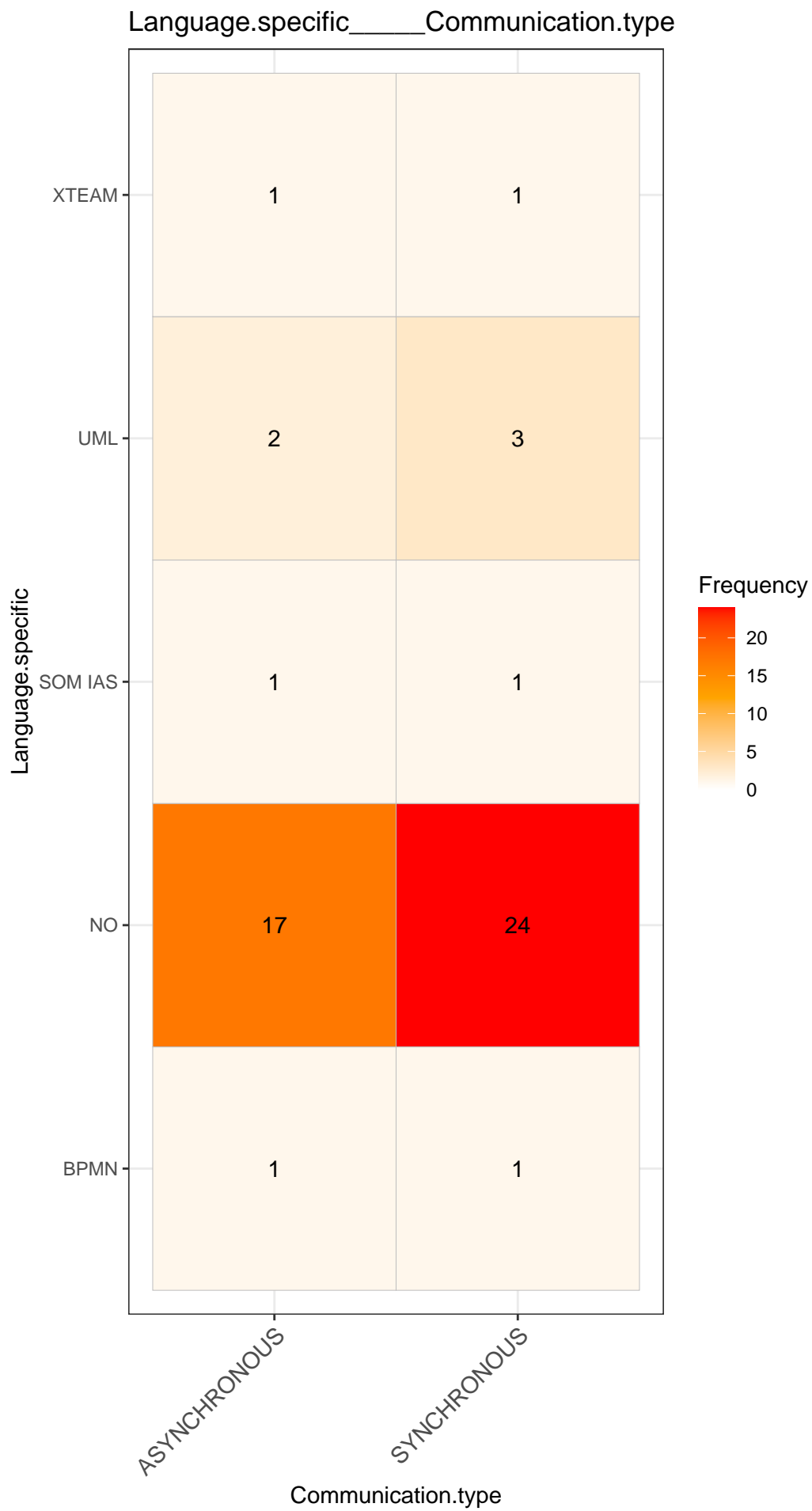


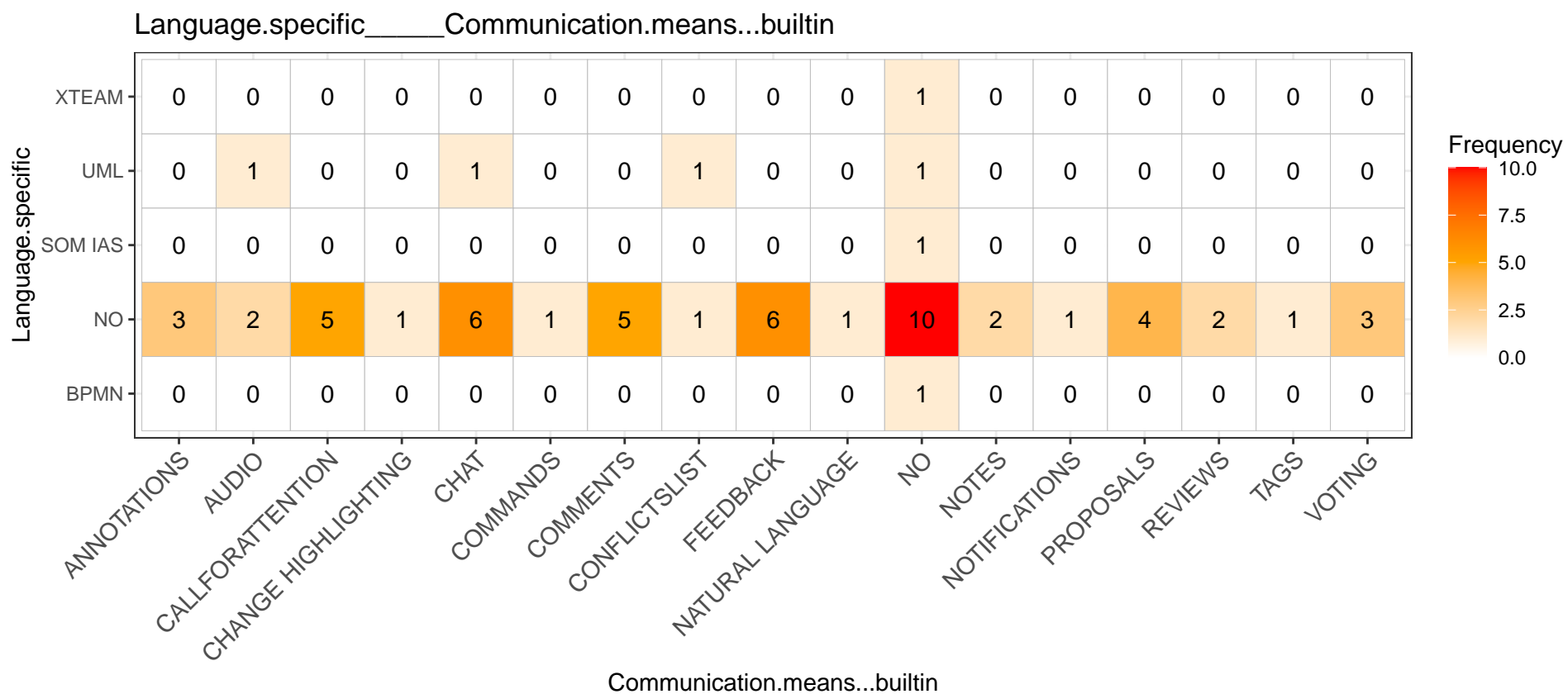


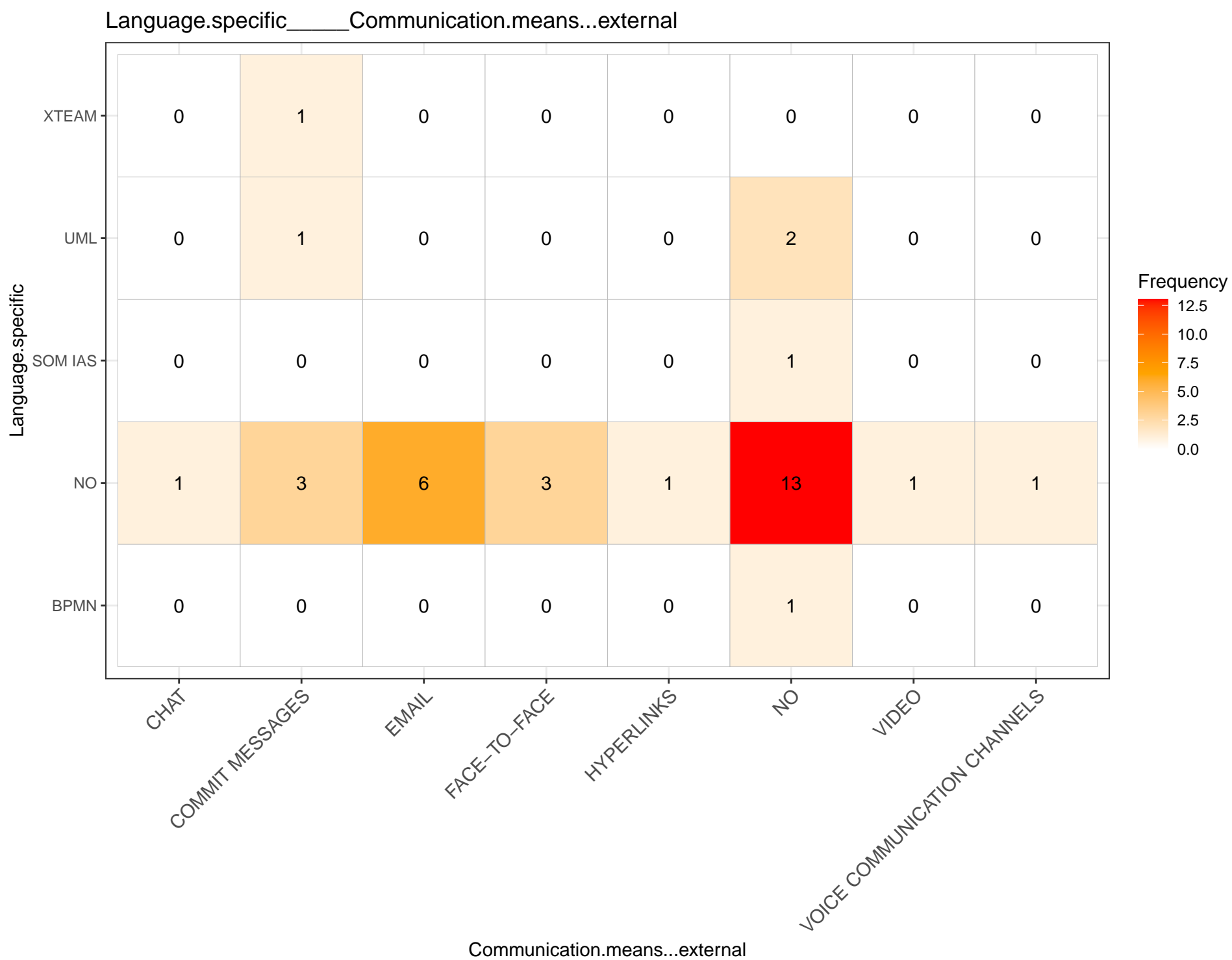


Language.specific_____Network.architecture

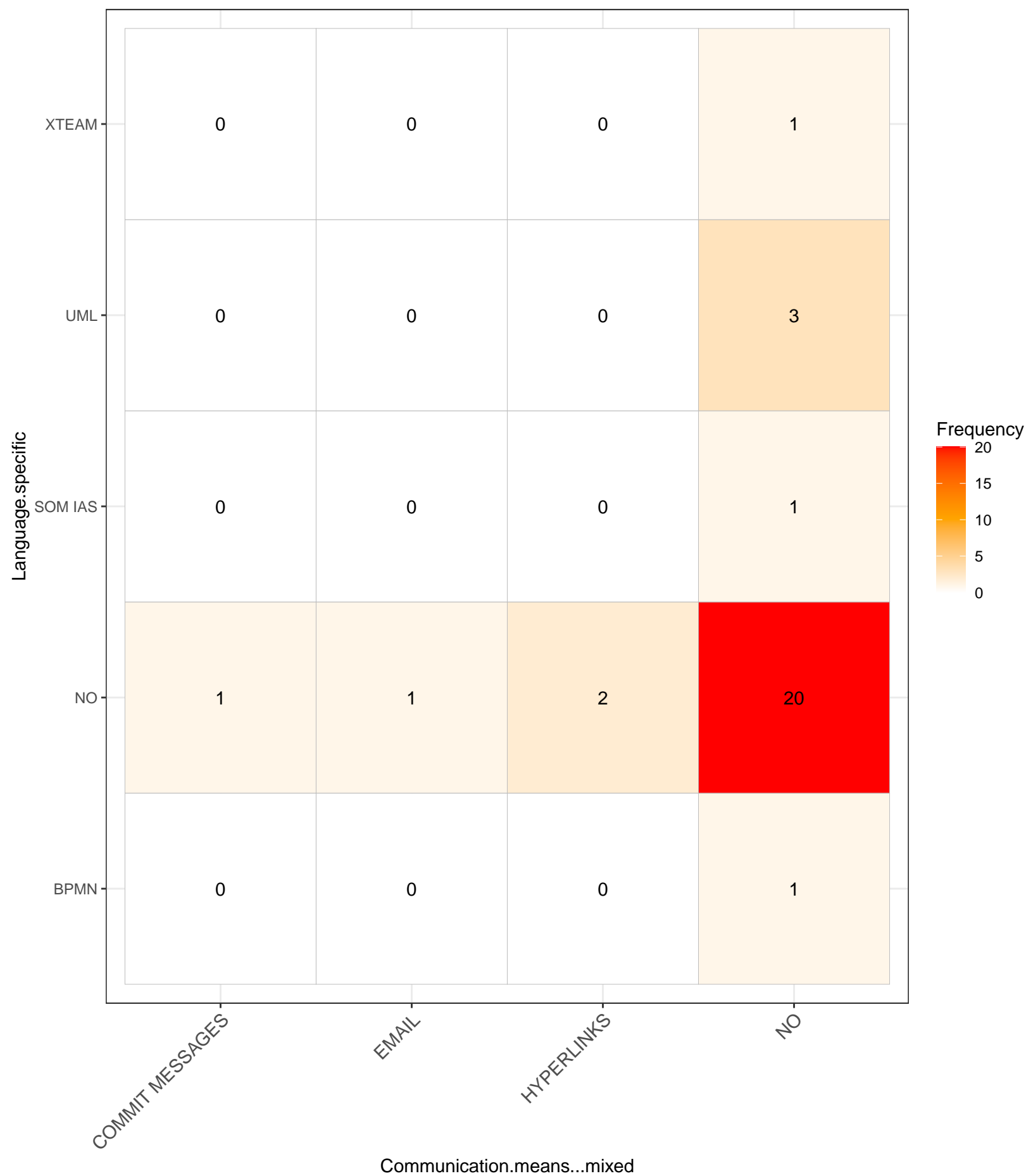


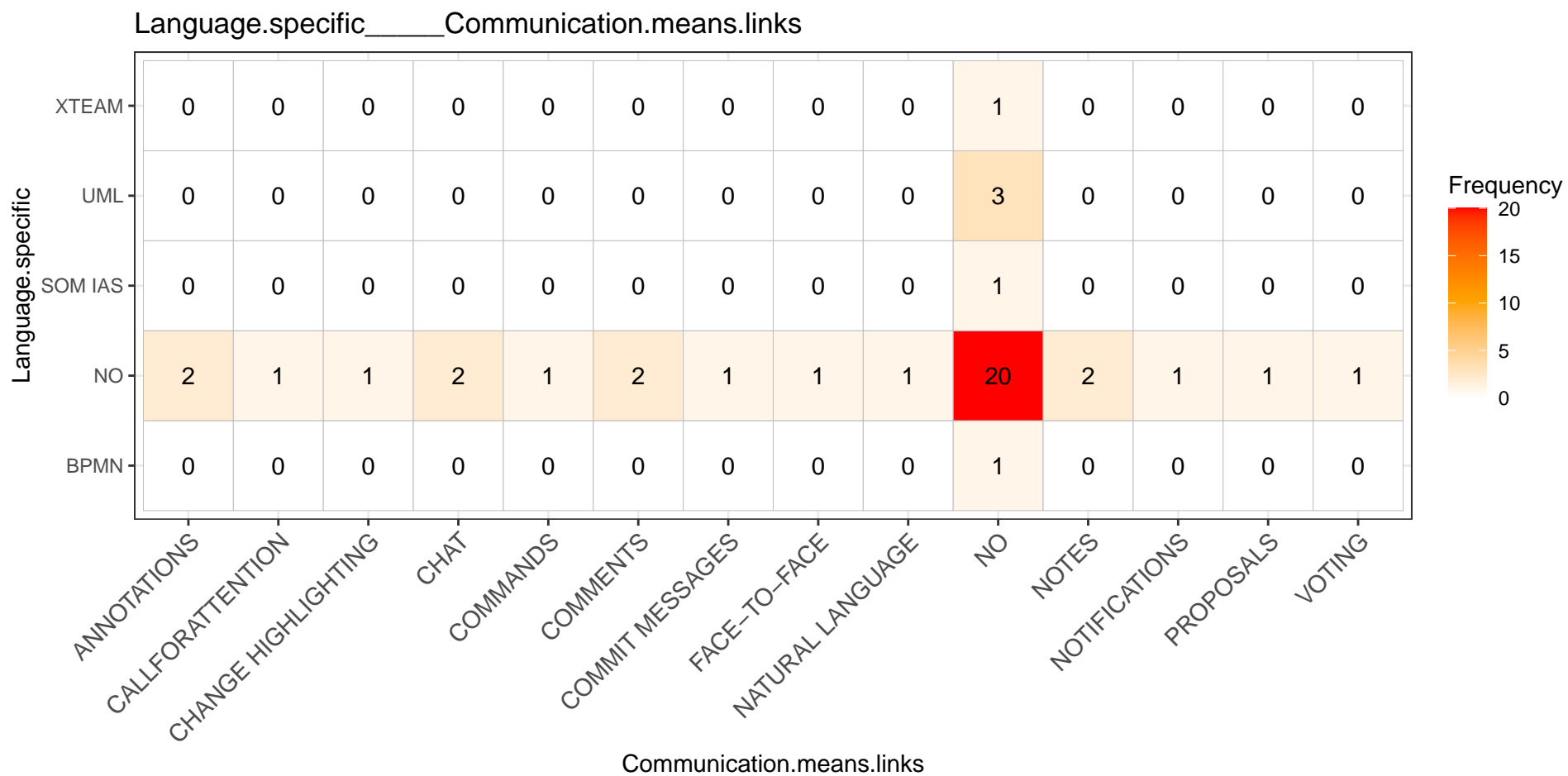


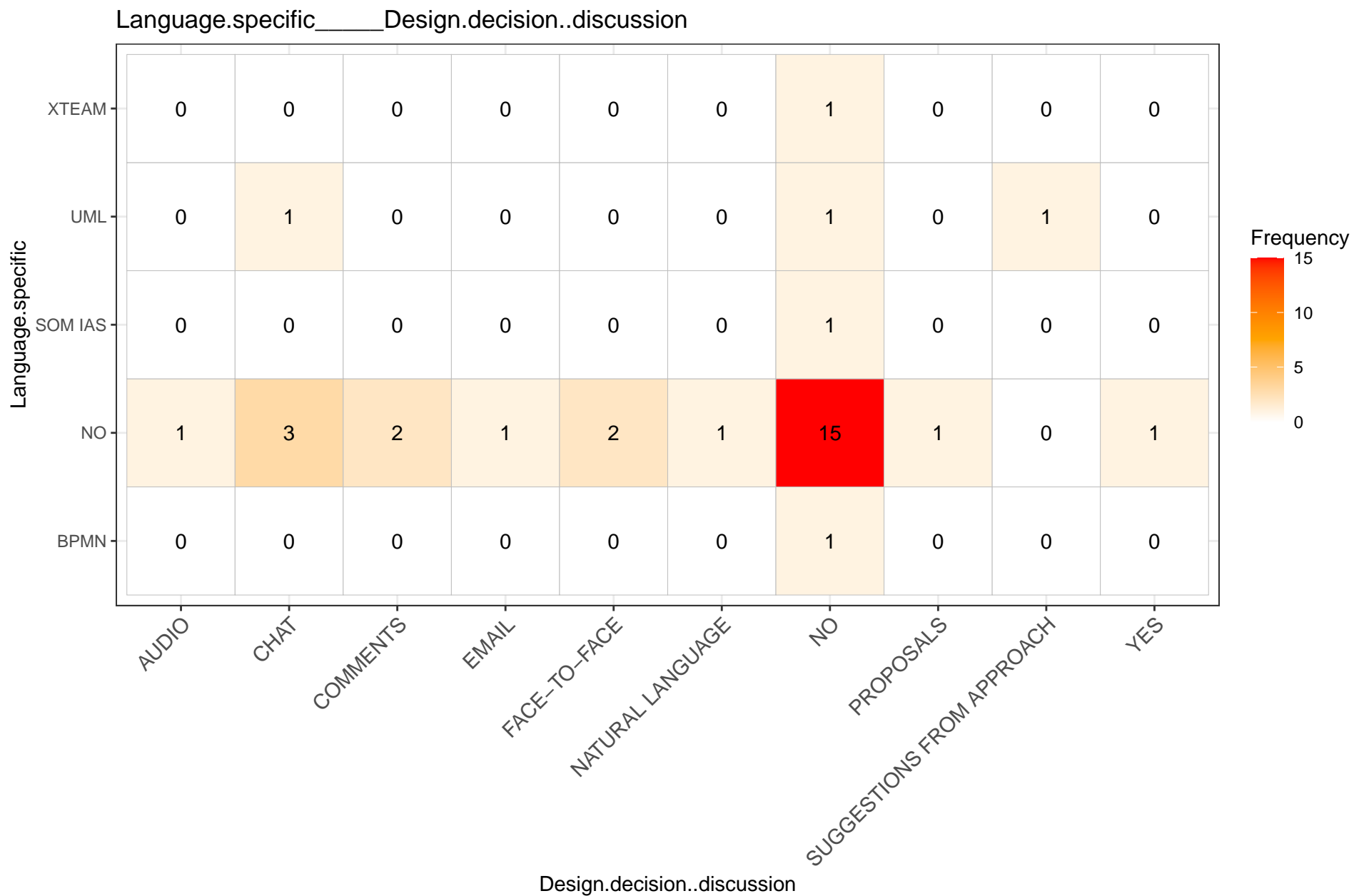




Language.specific_____Communication.means...mixed







Language.specific_____Design.decision..session.history

Language.specific

XTEAM

UML

SOM IAS

NO

BPMN

ANNOTATIONS

CHAT

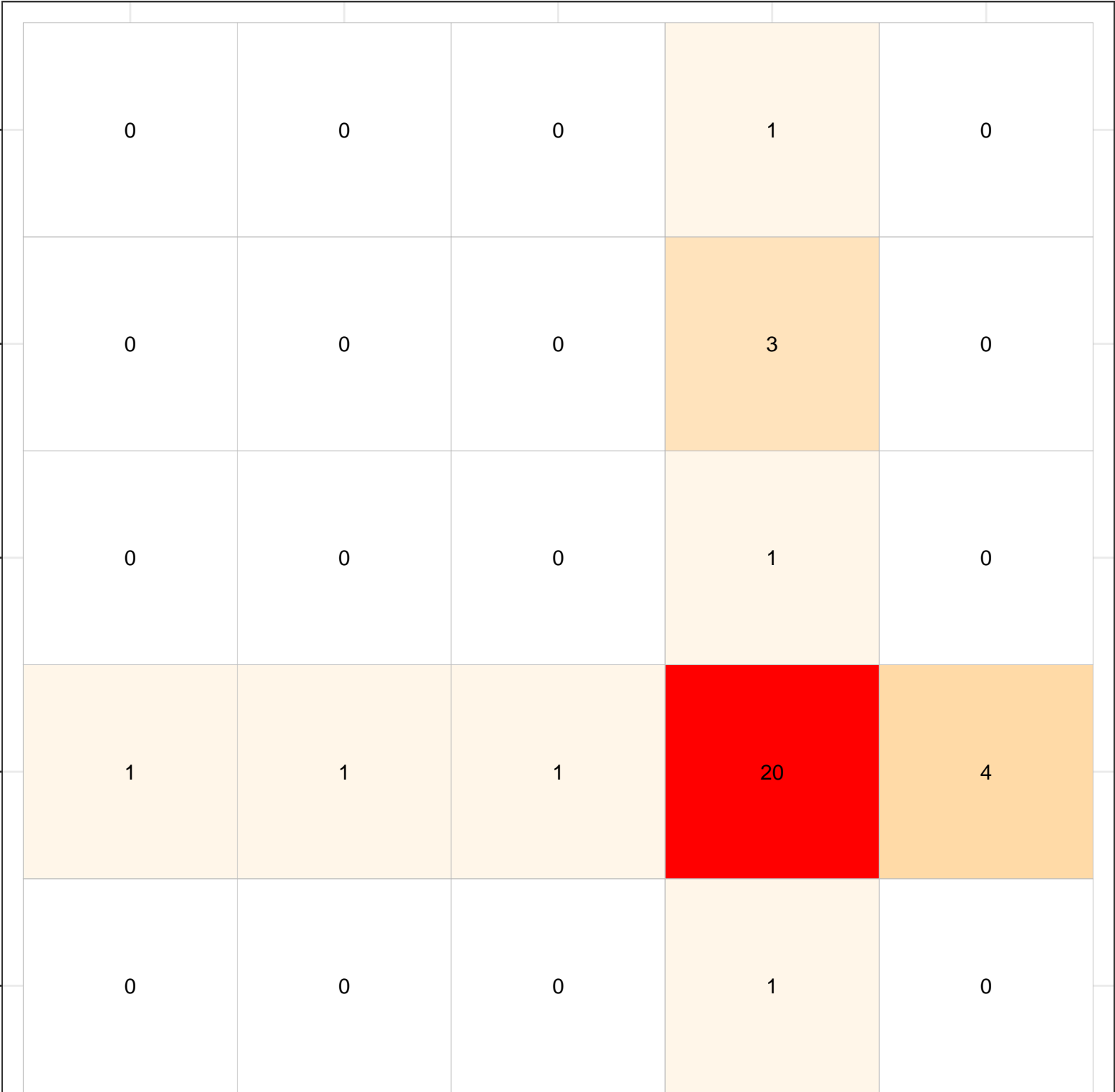
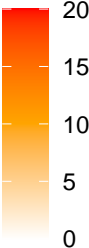
COMMENTS

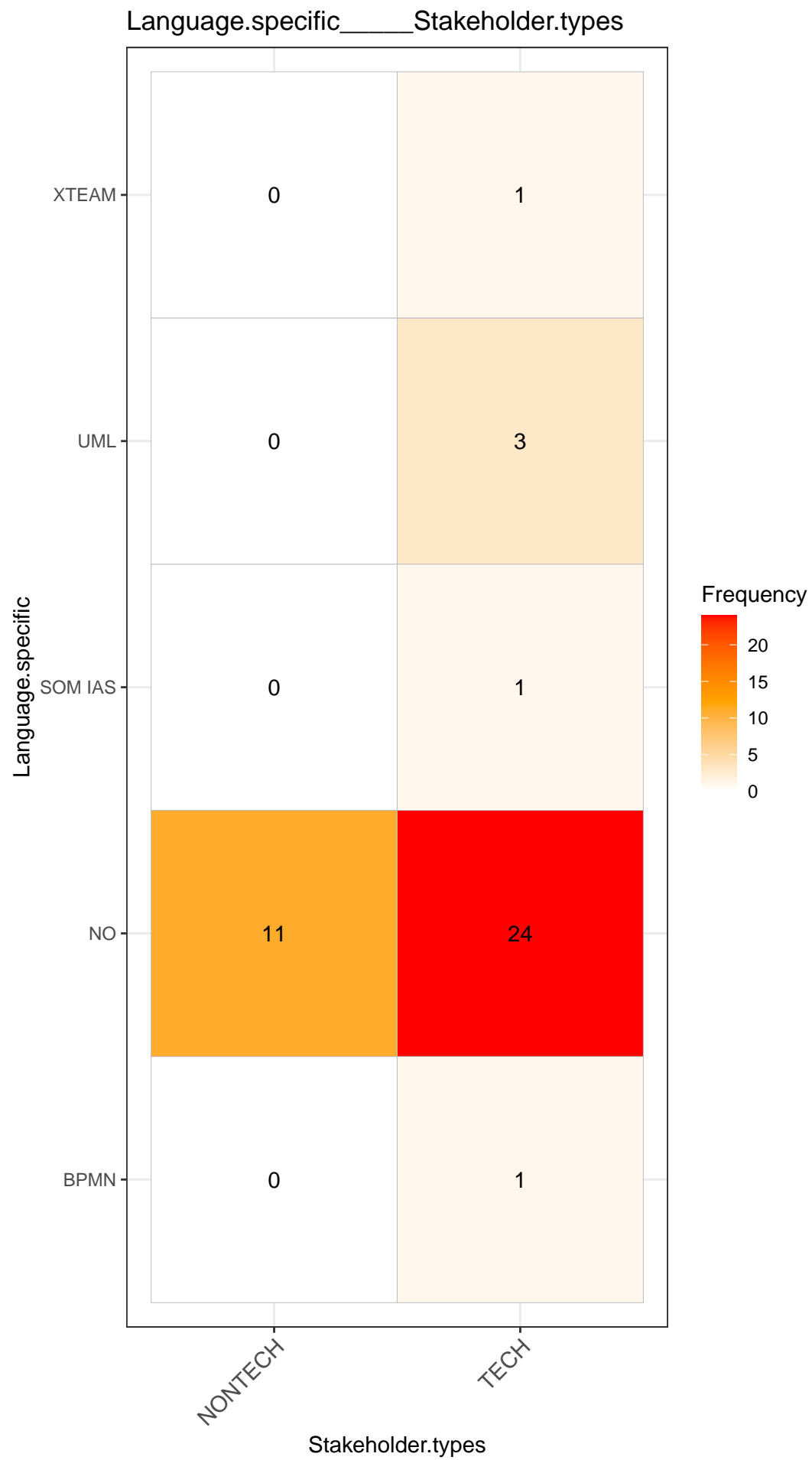
NO

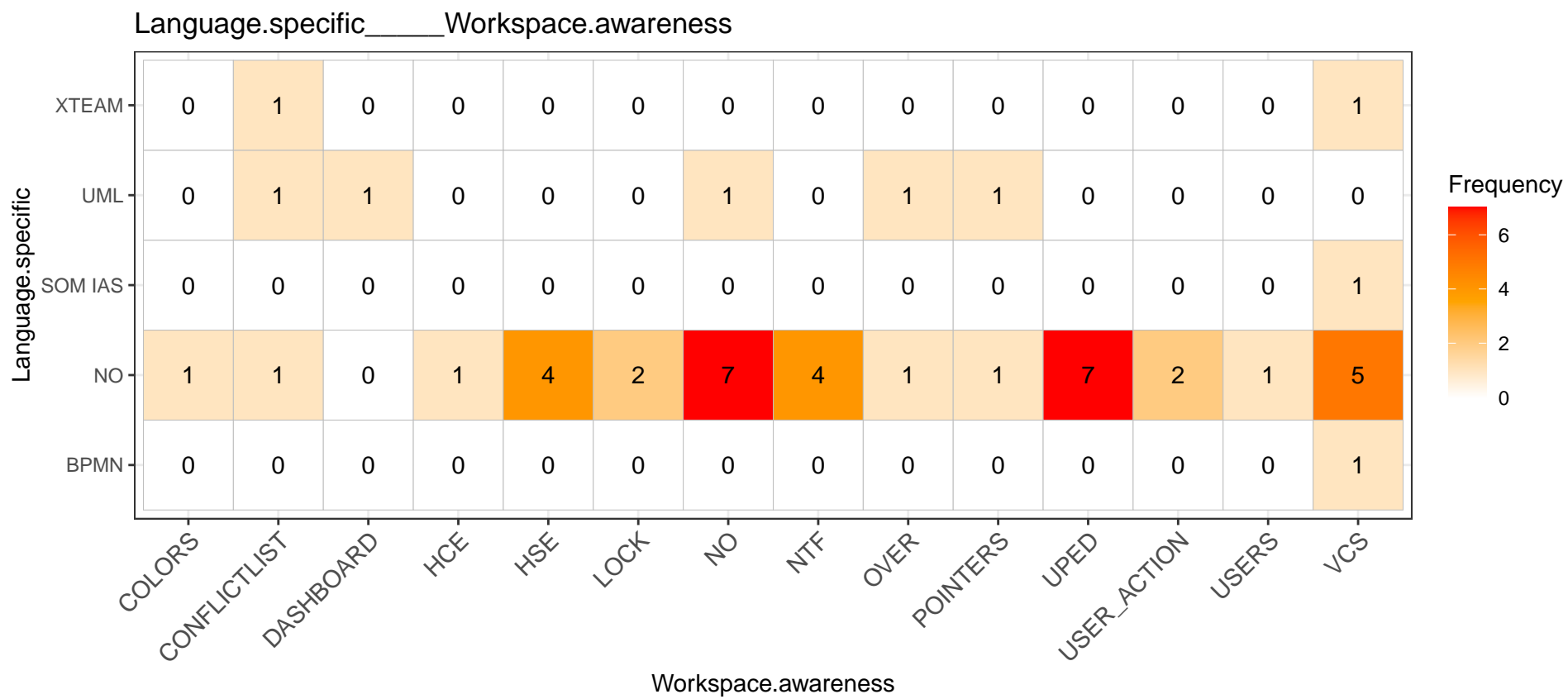
YES

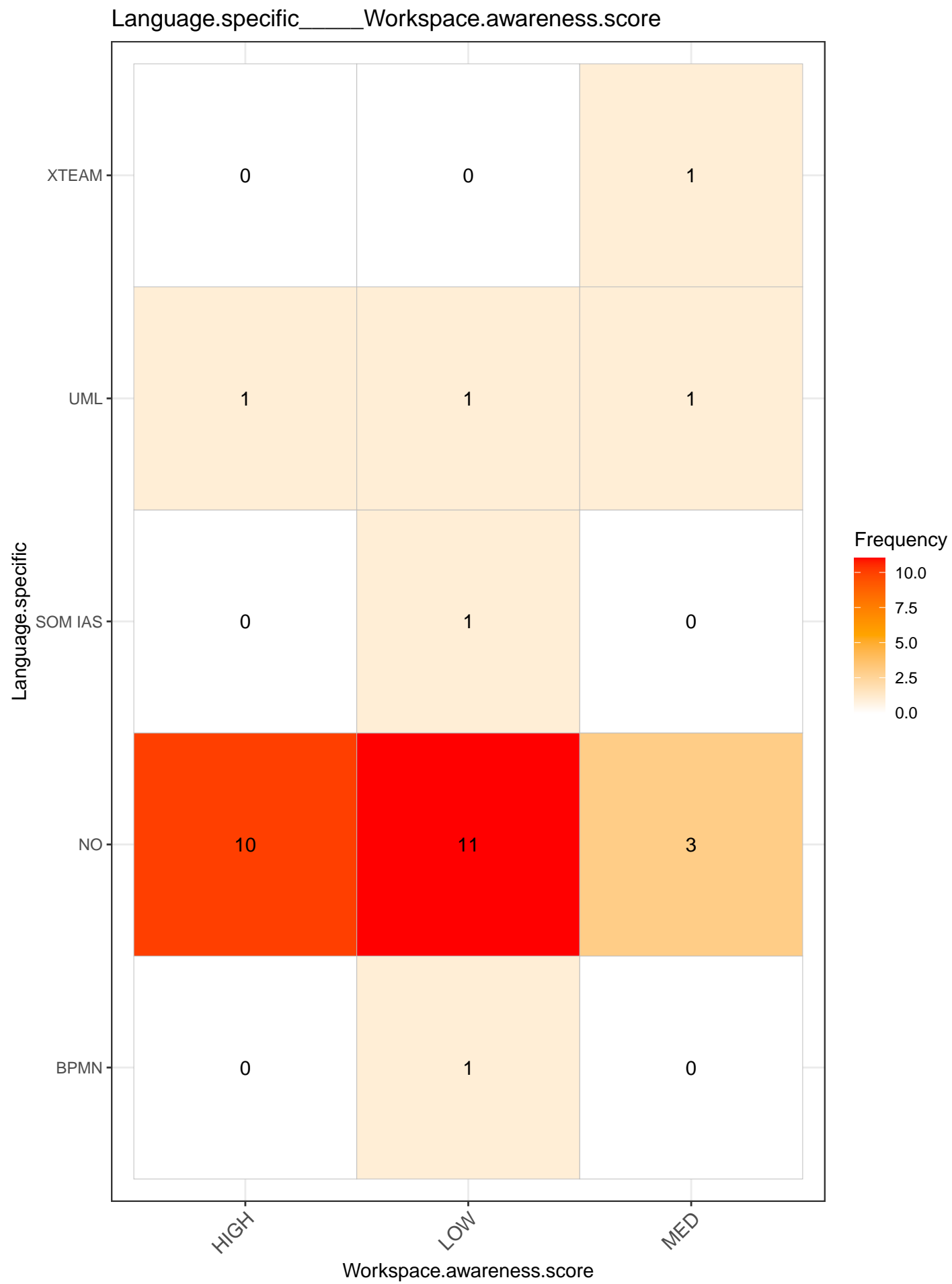
Design.decision..session.history

Frequency

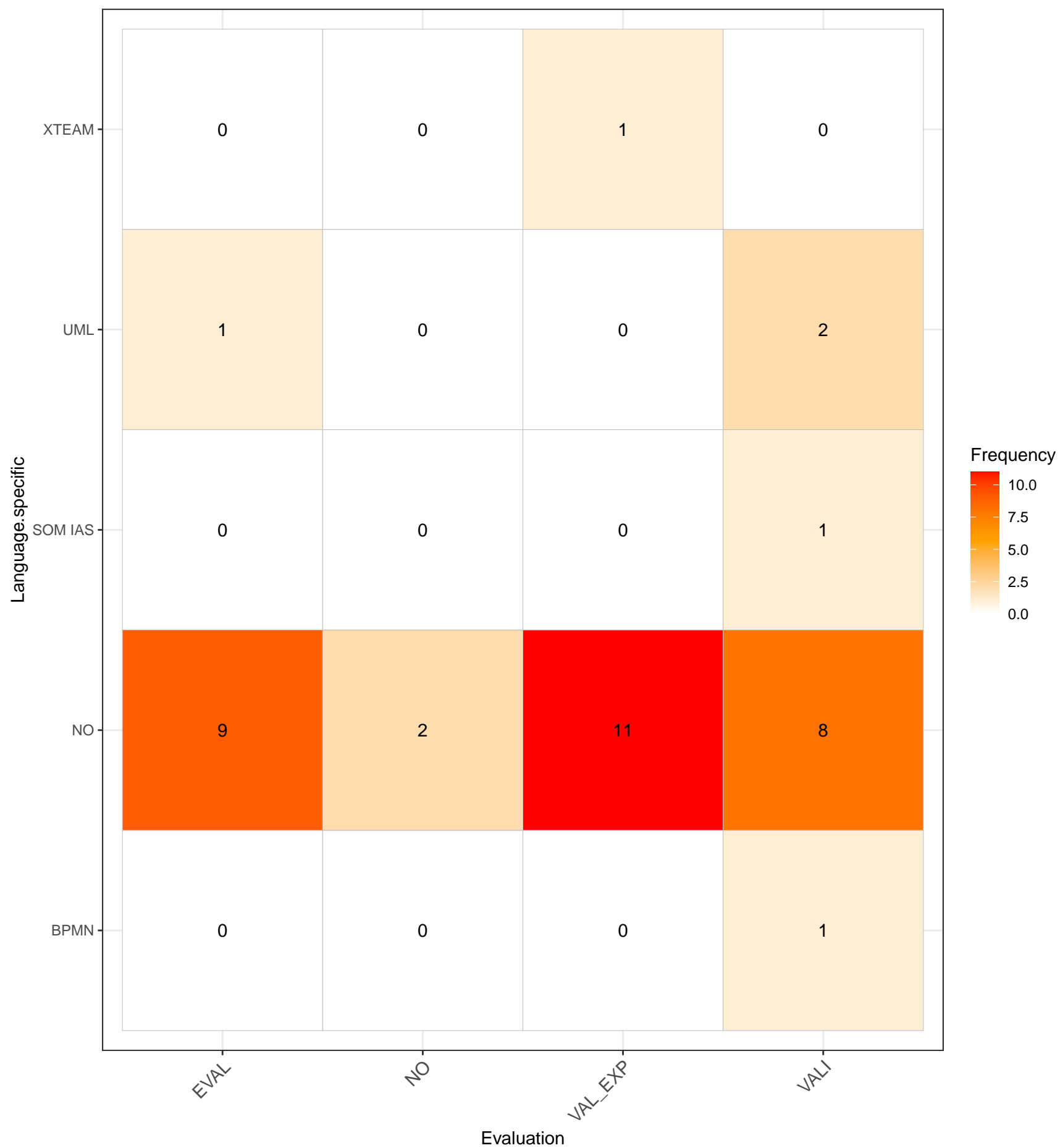


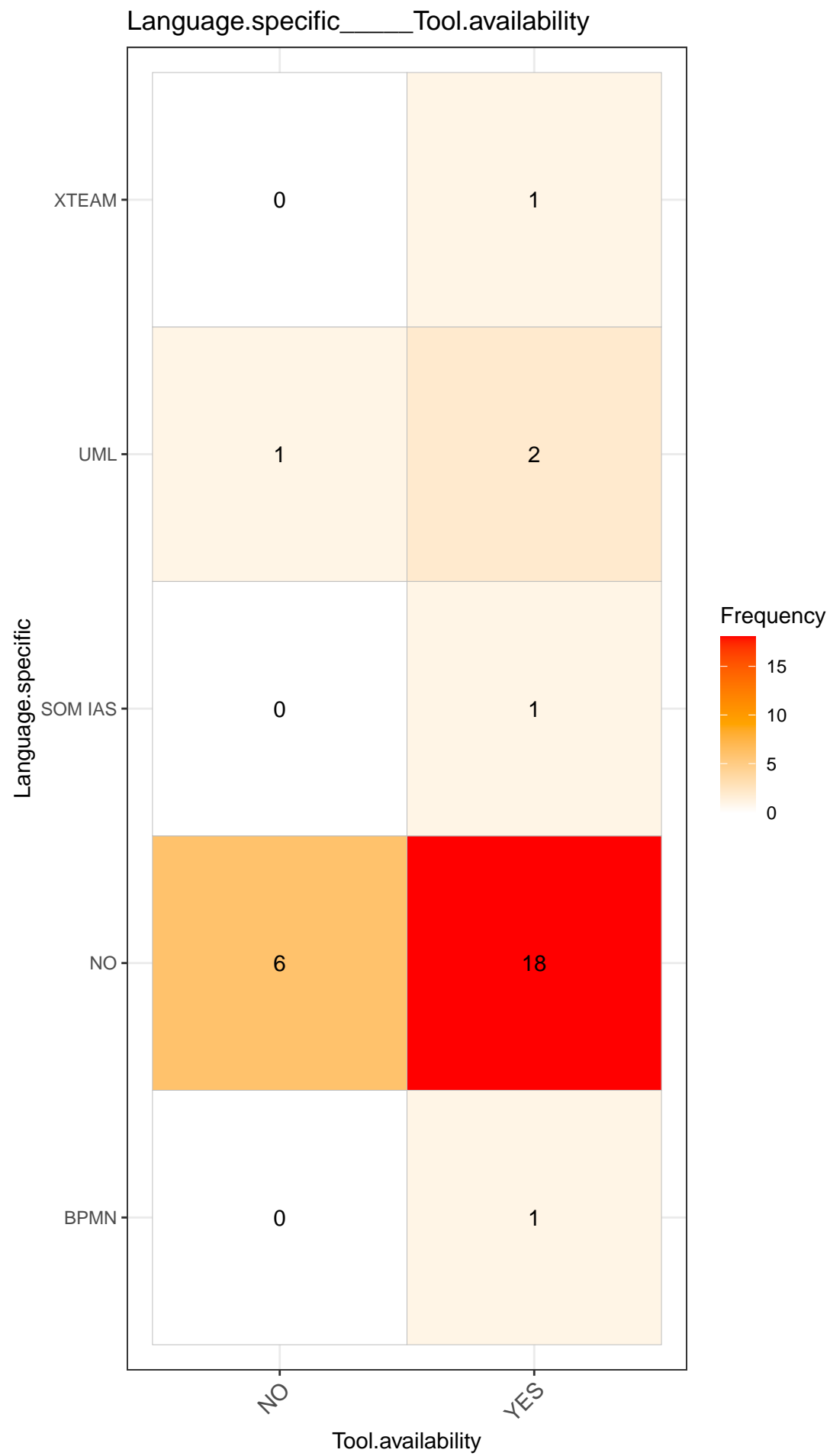


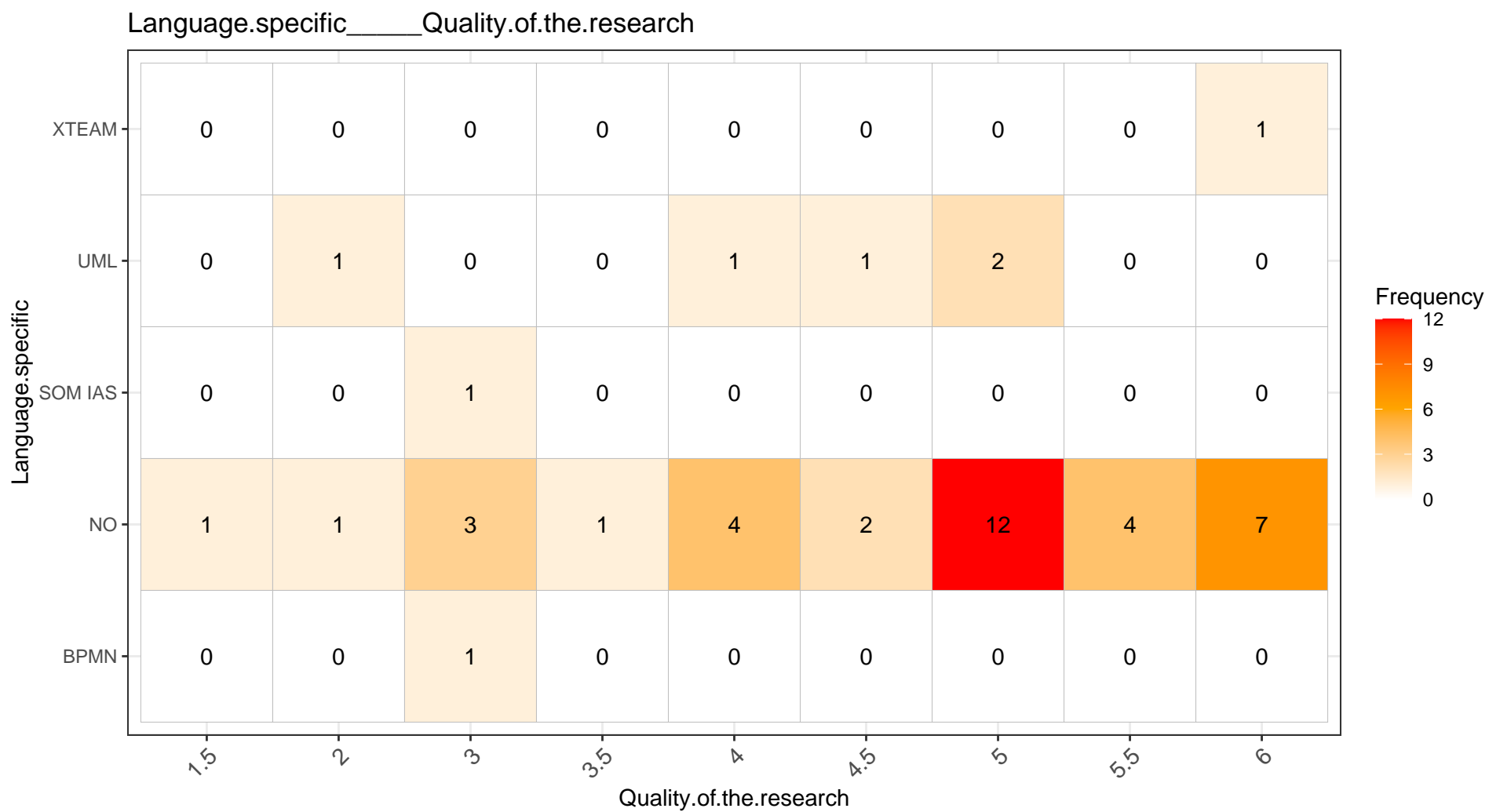


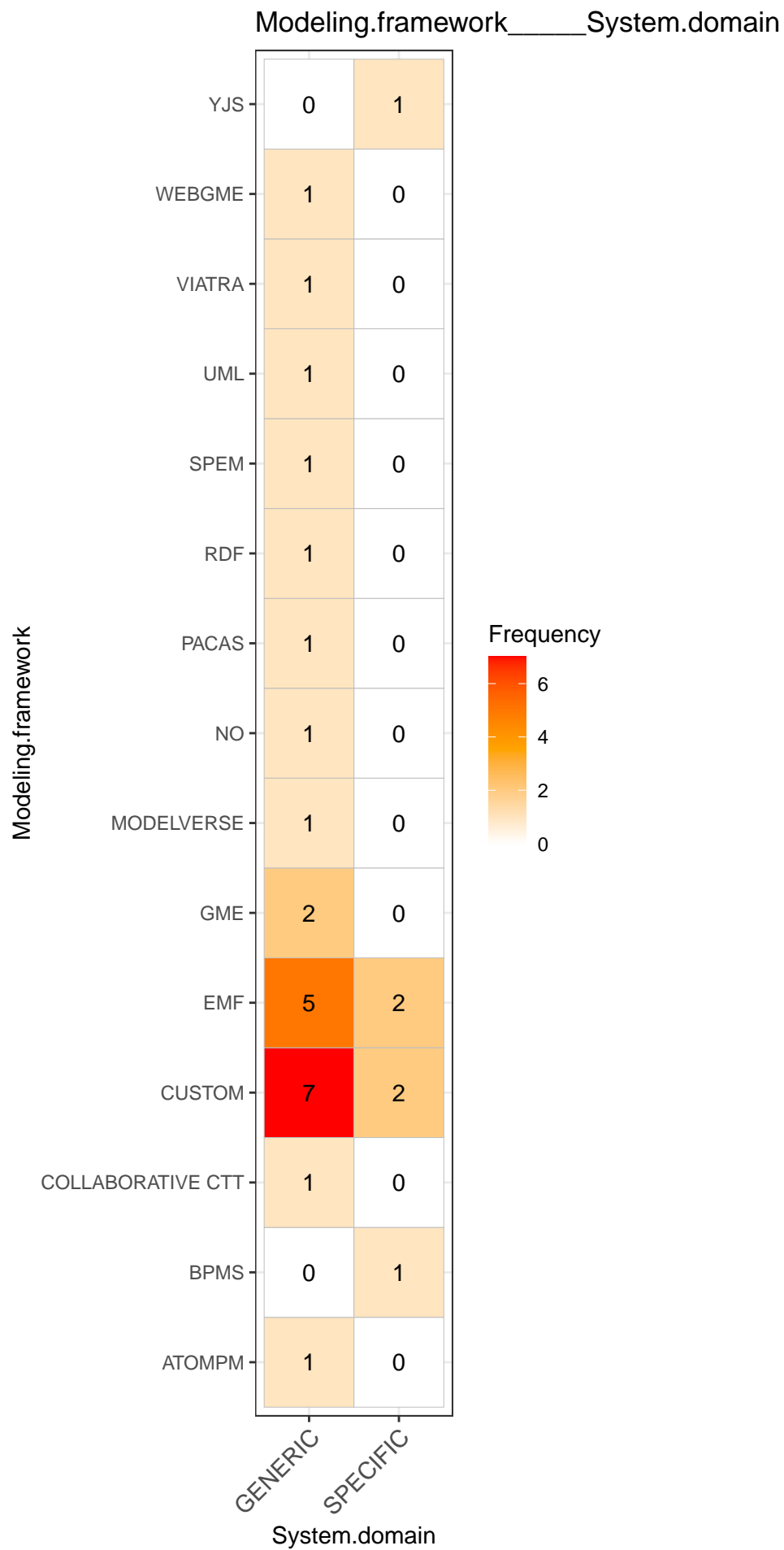


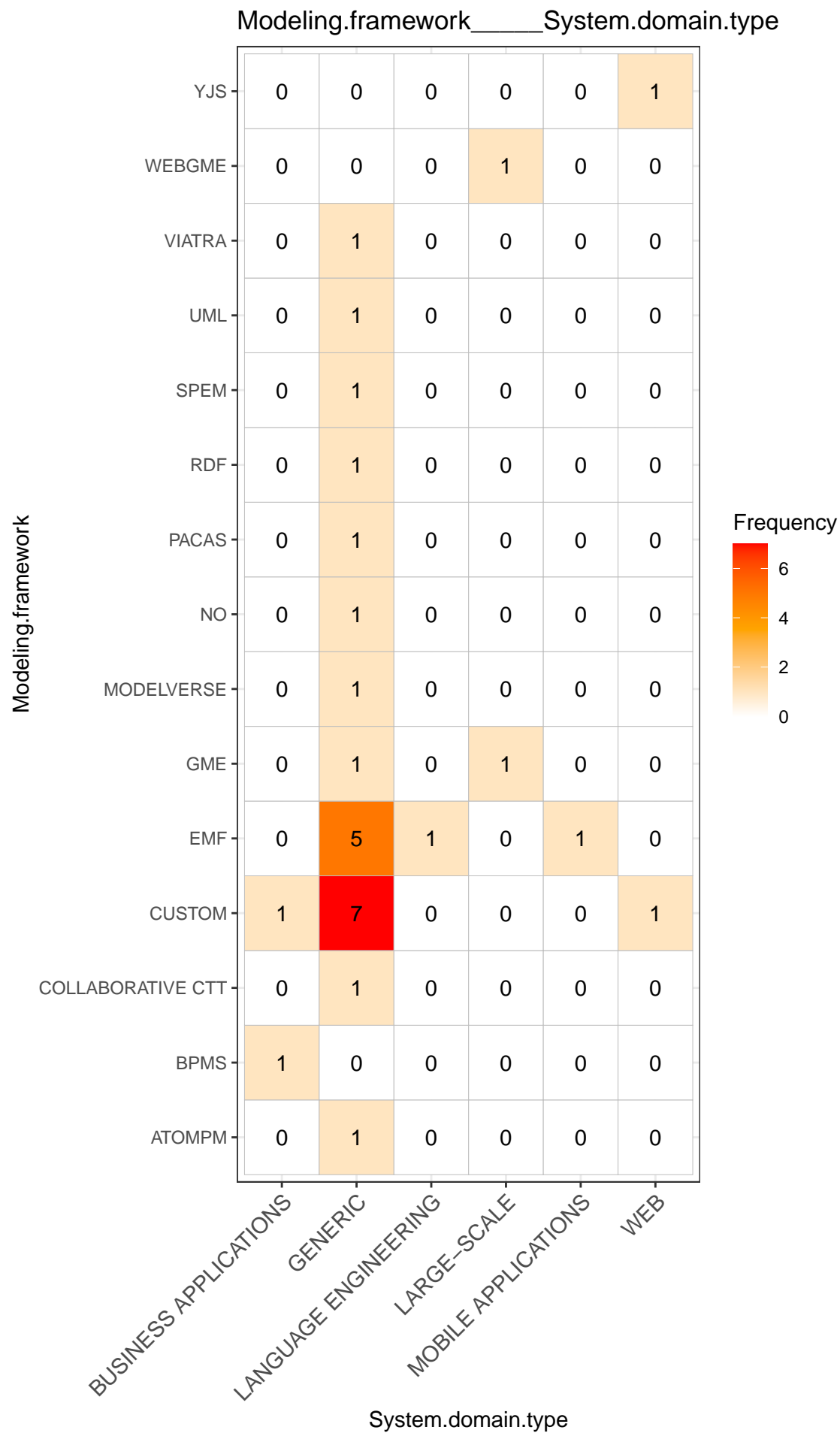
Language-specific Evaluation

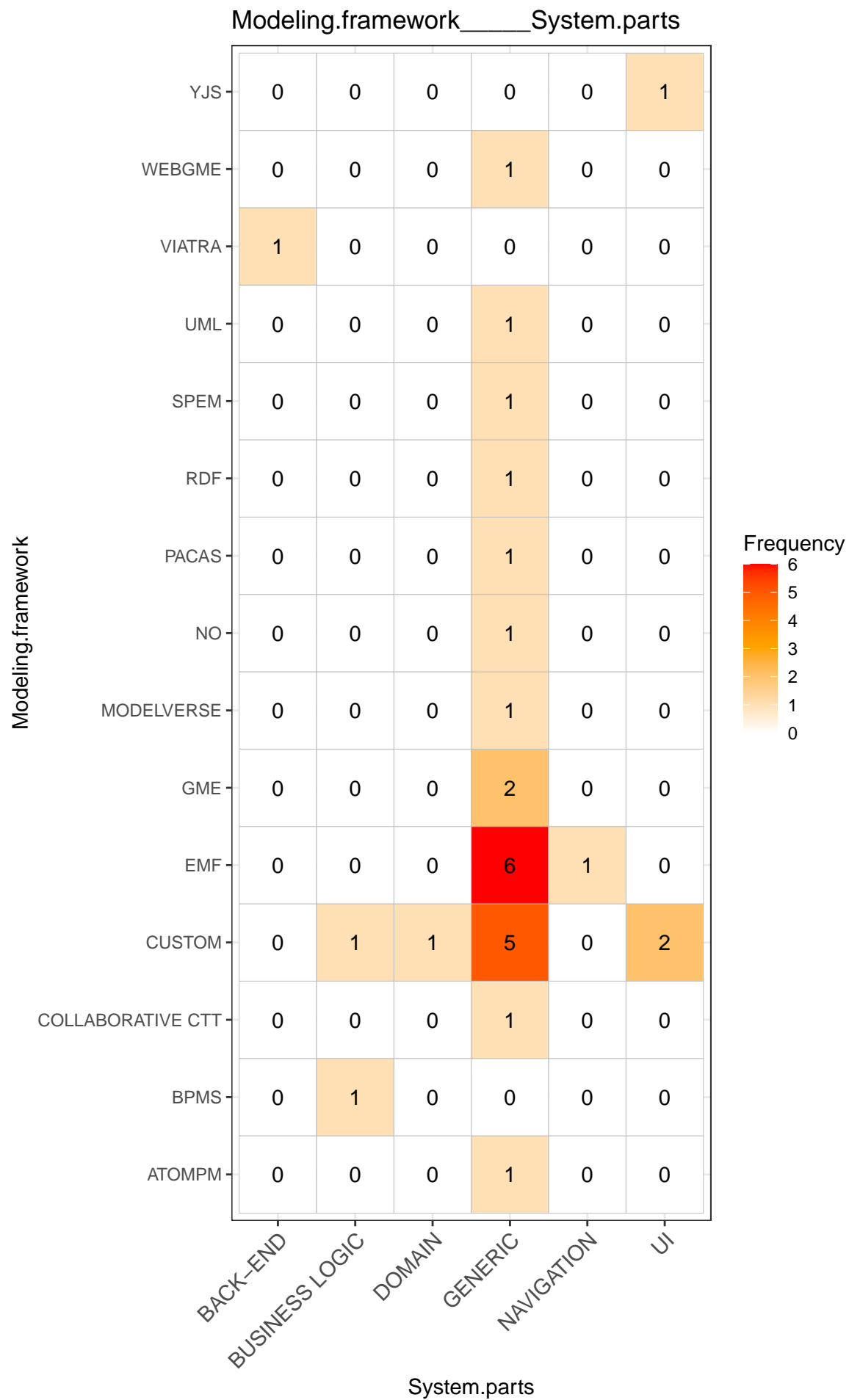


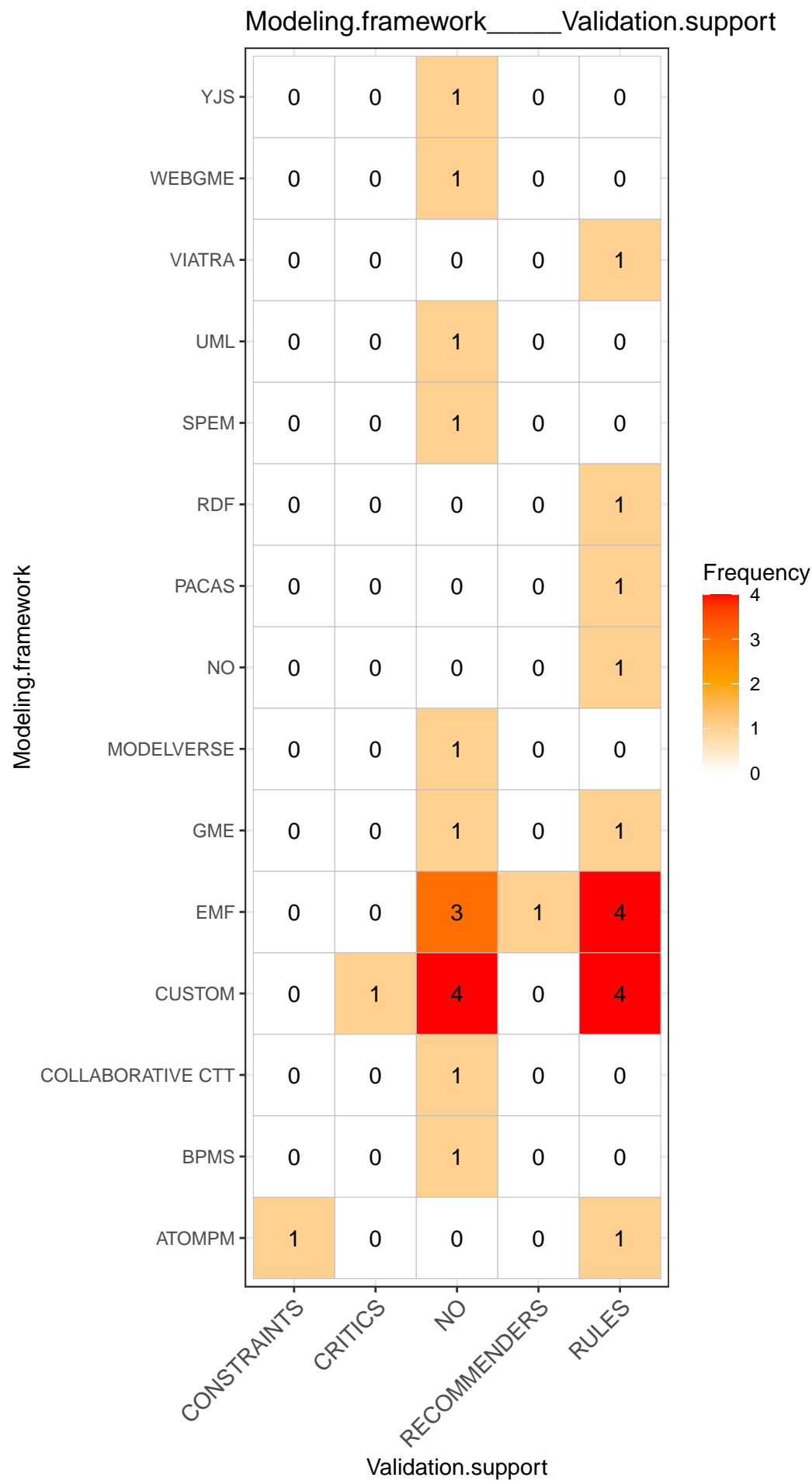


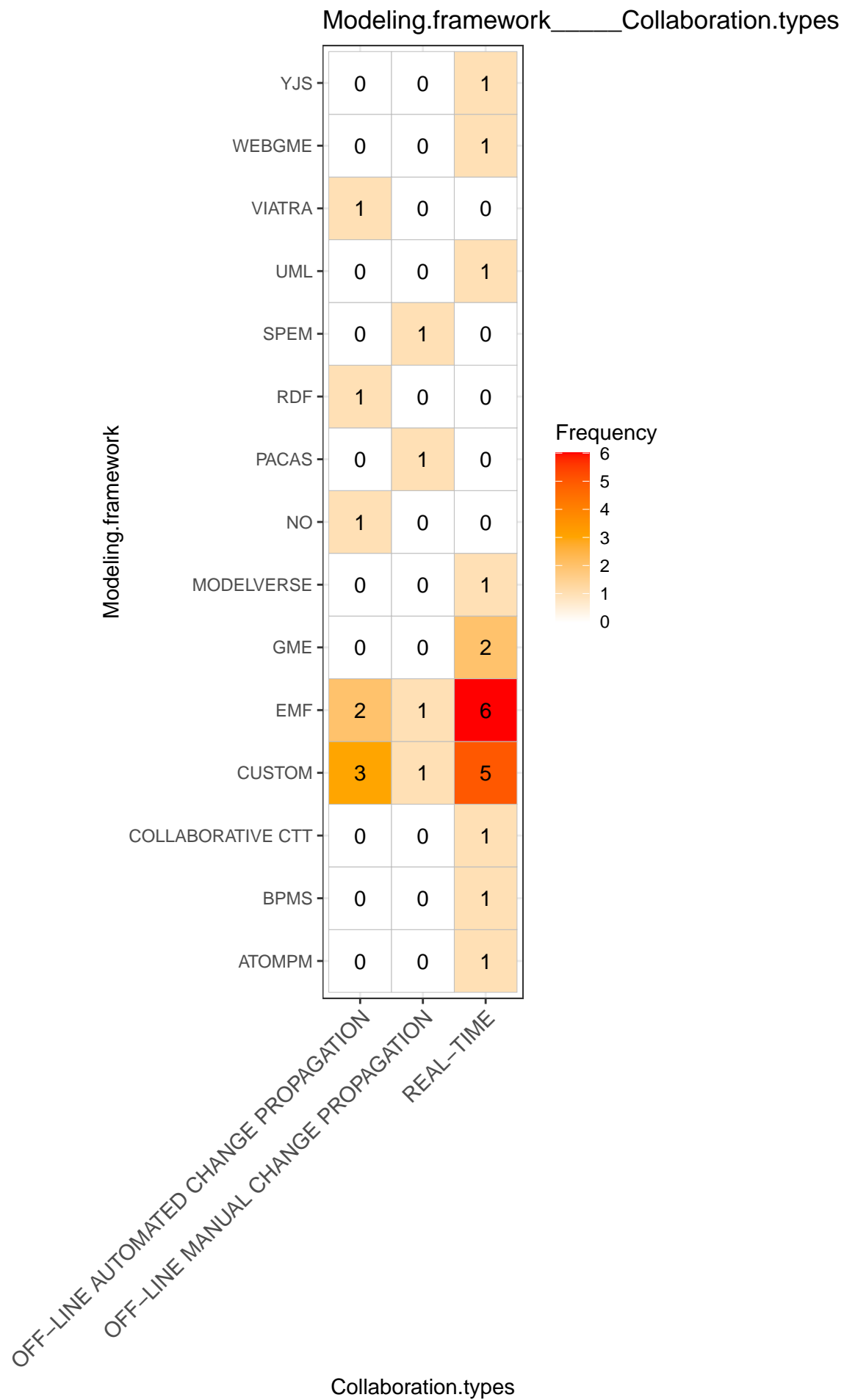


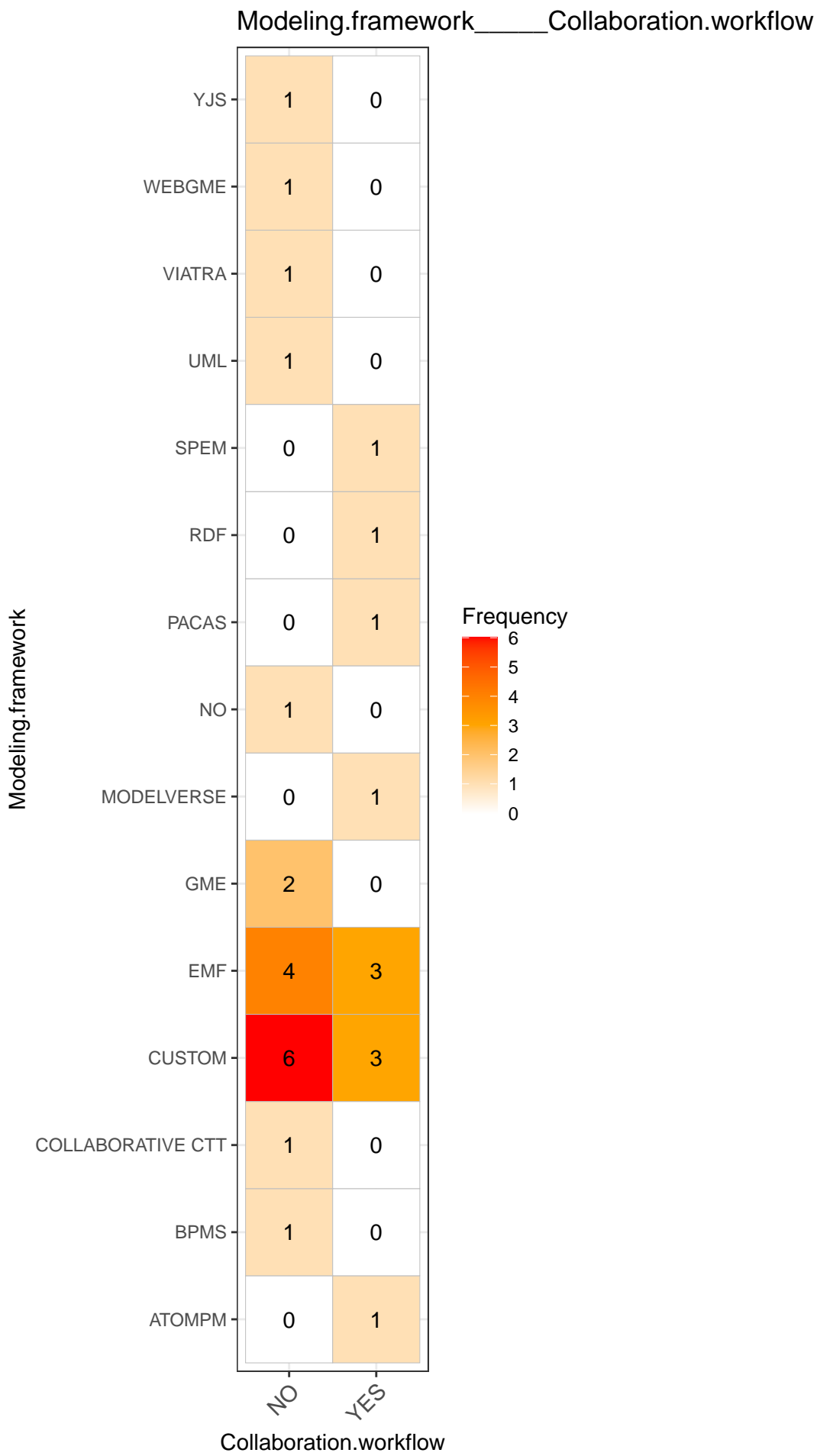


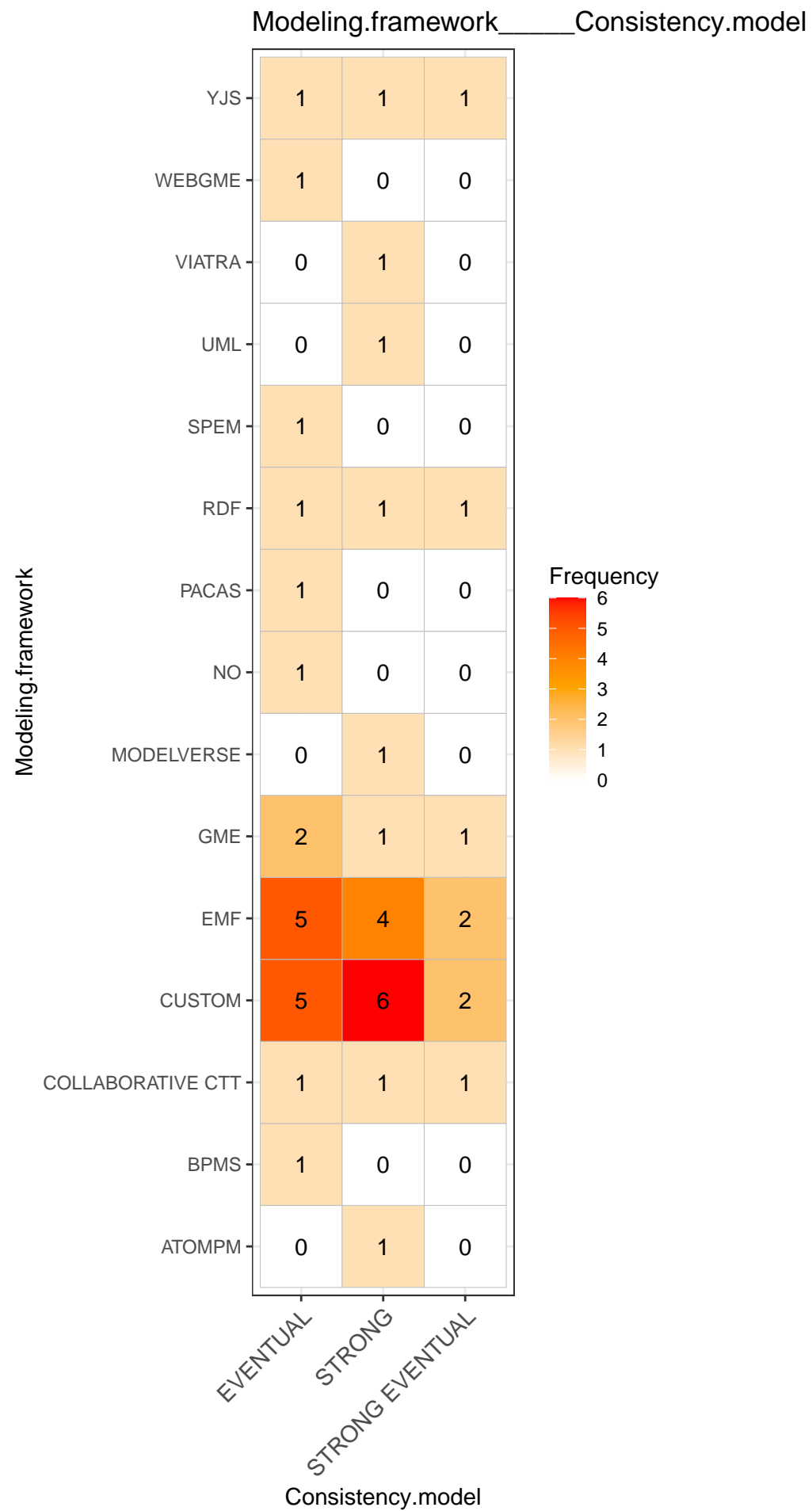


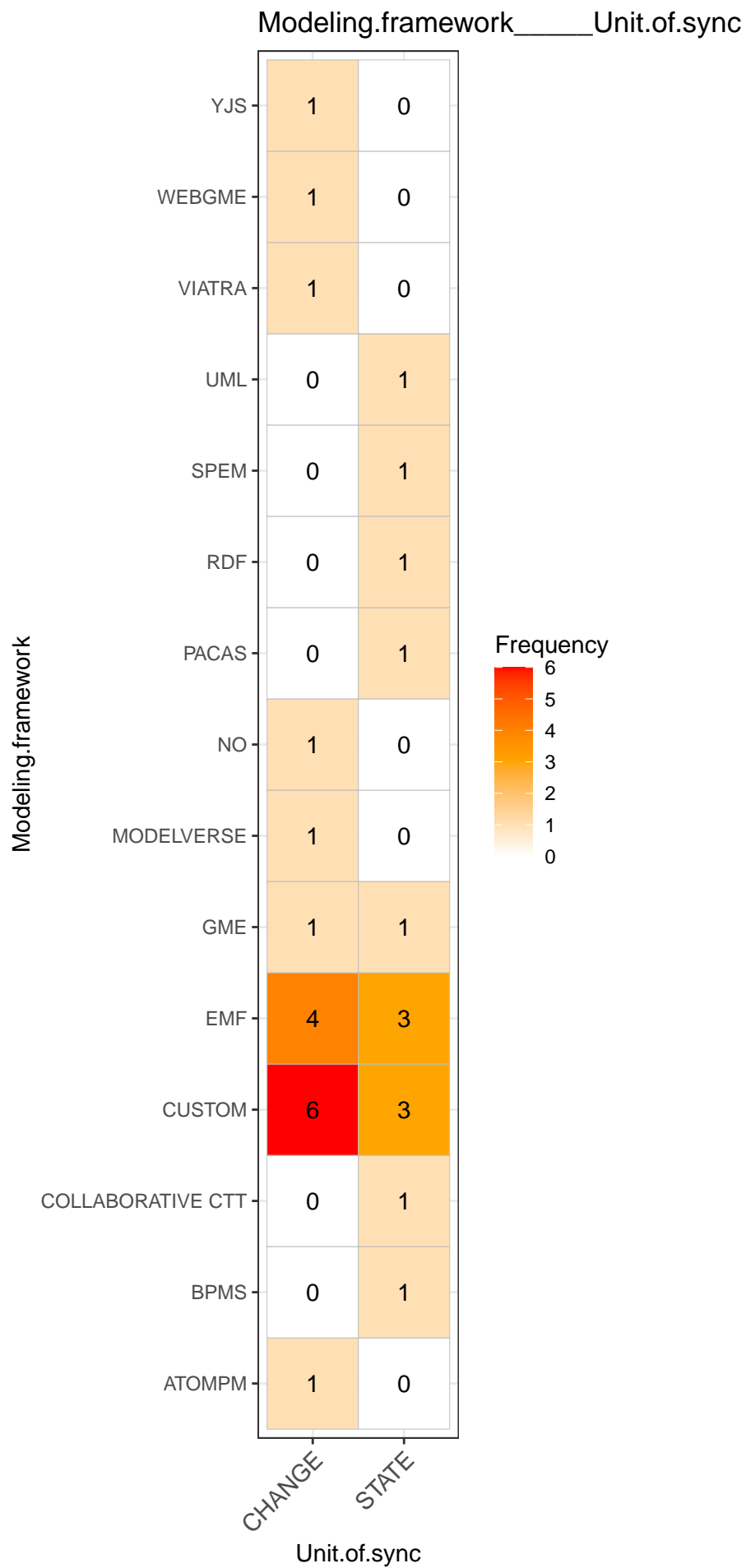


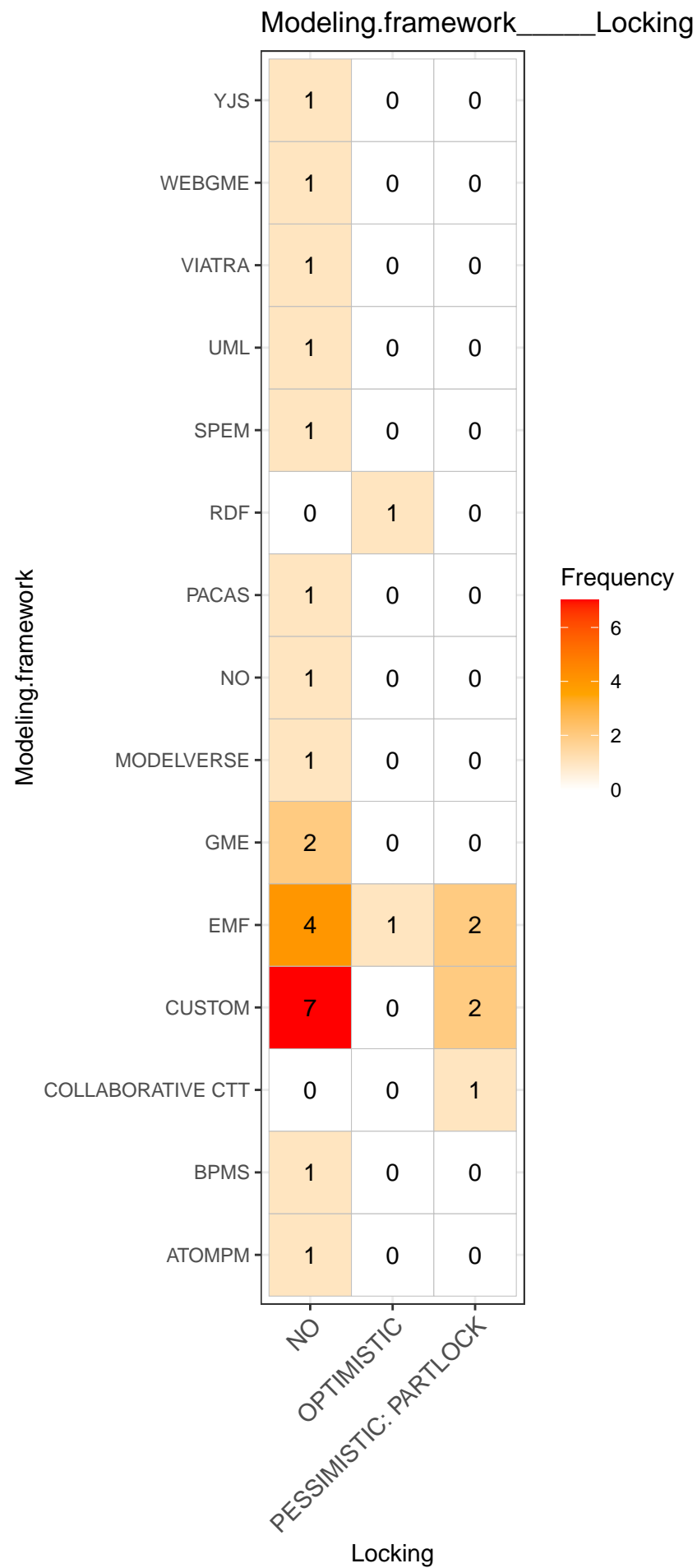


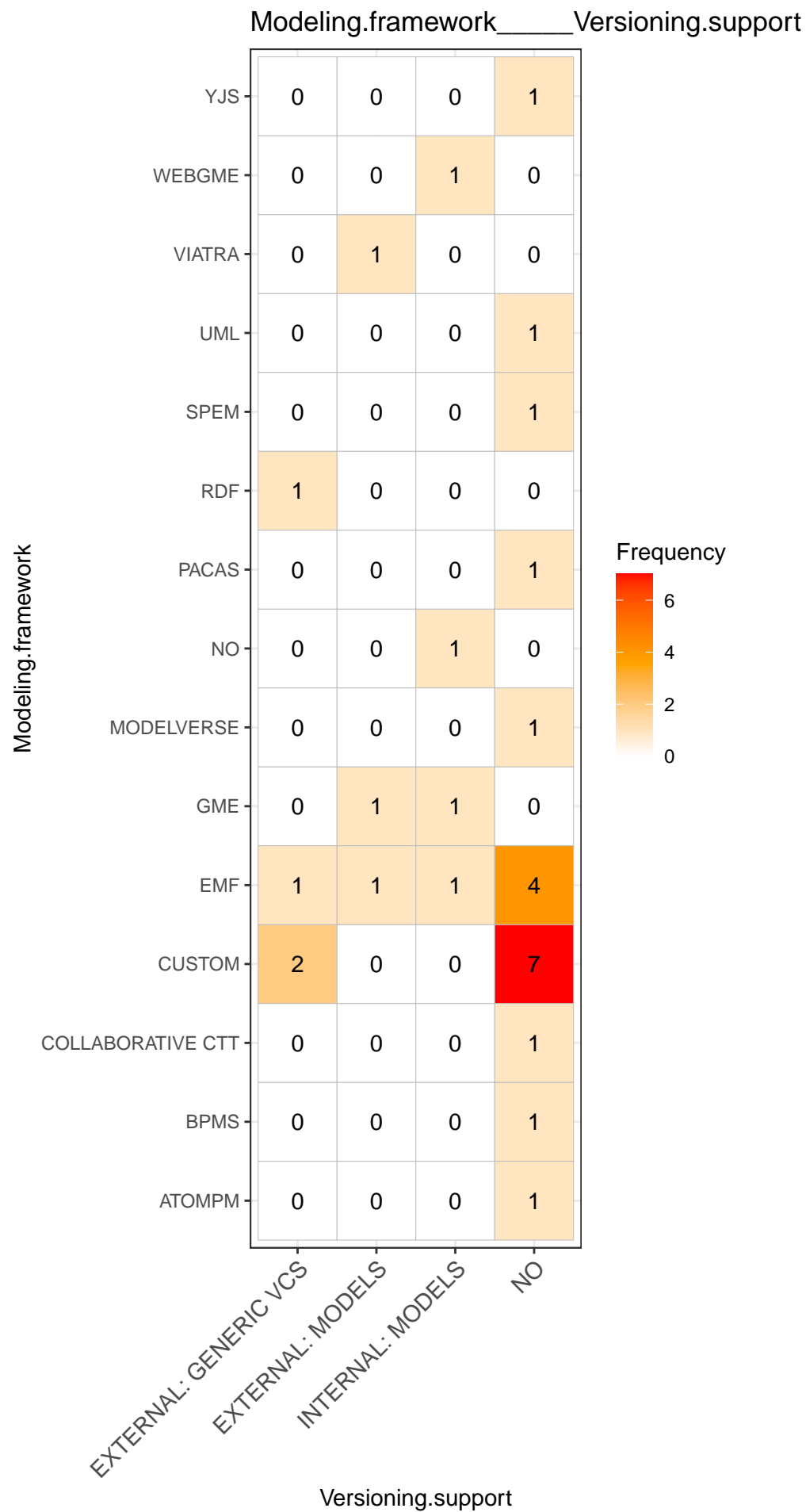


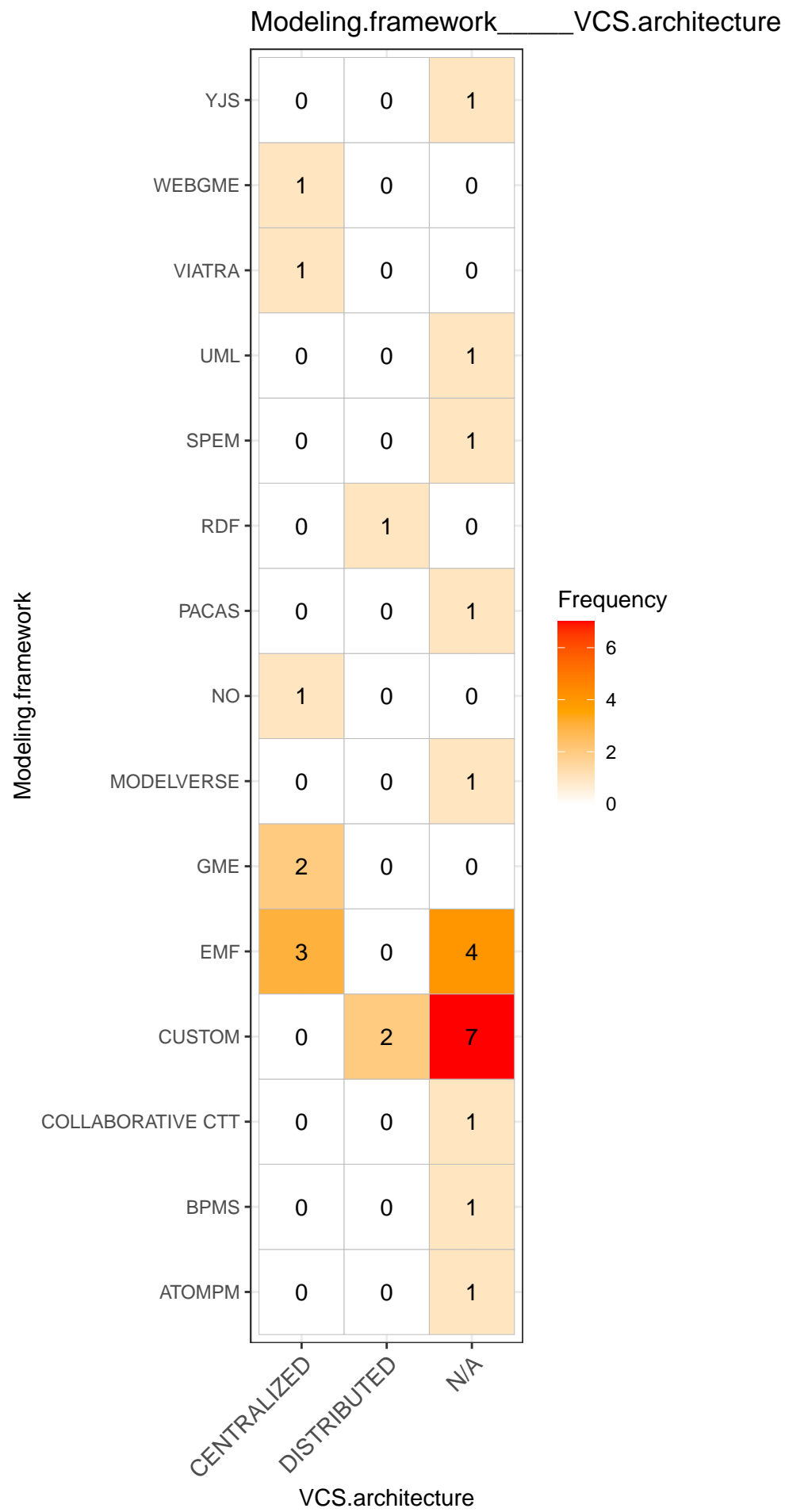


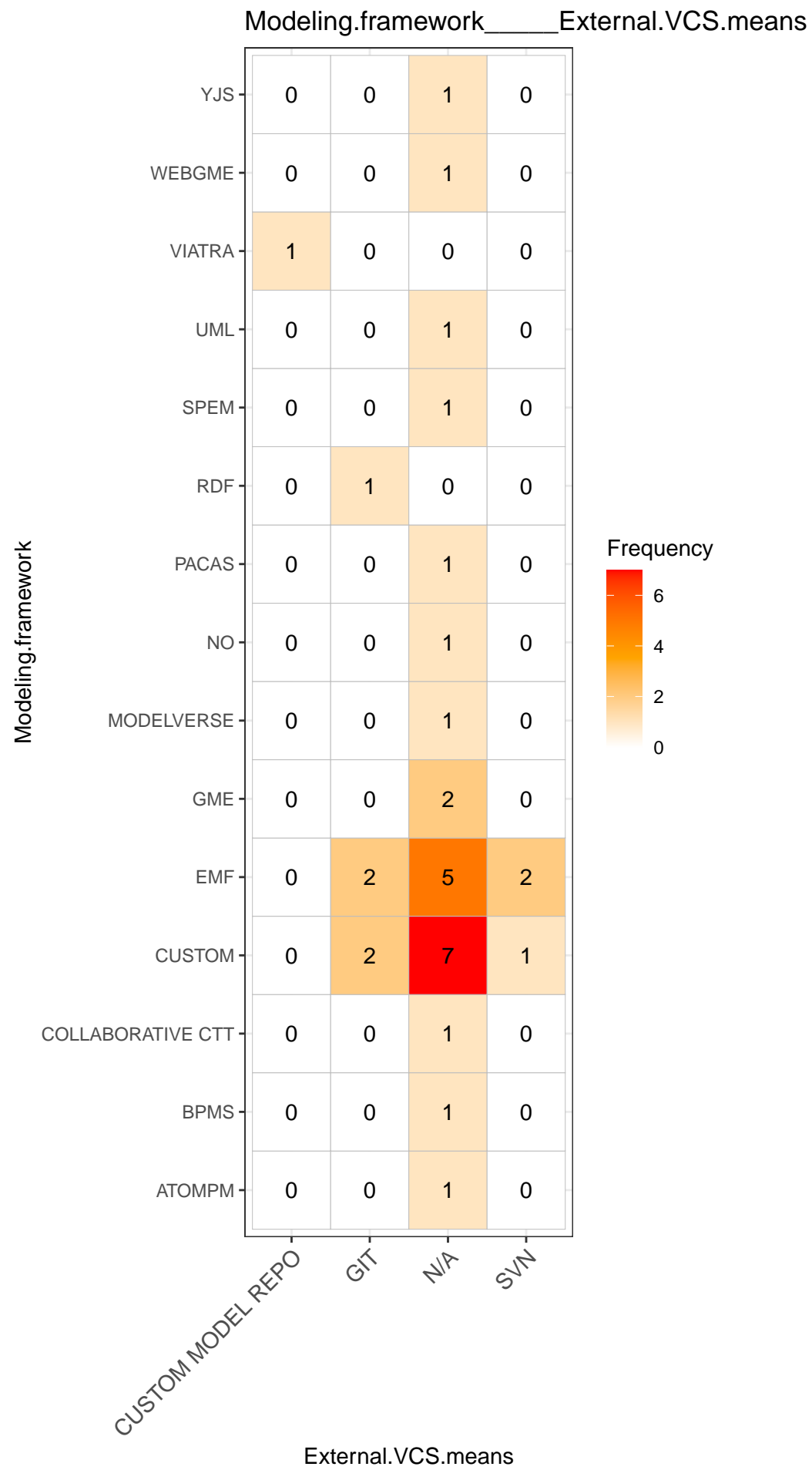


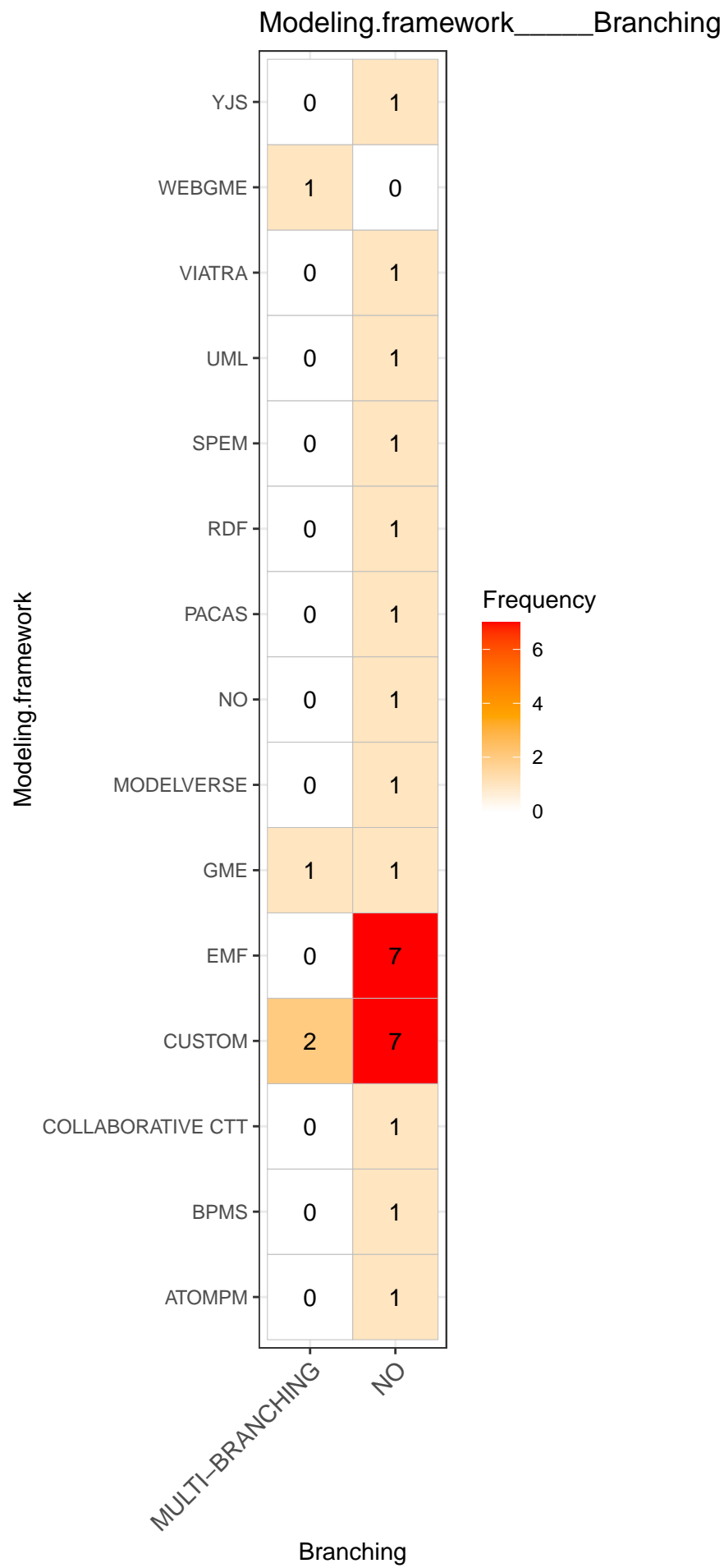


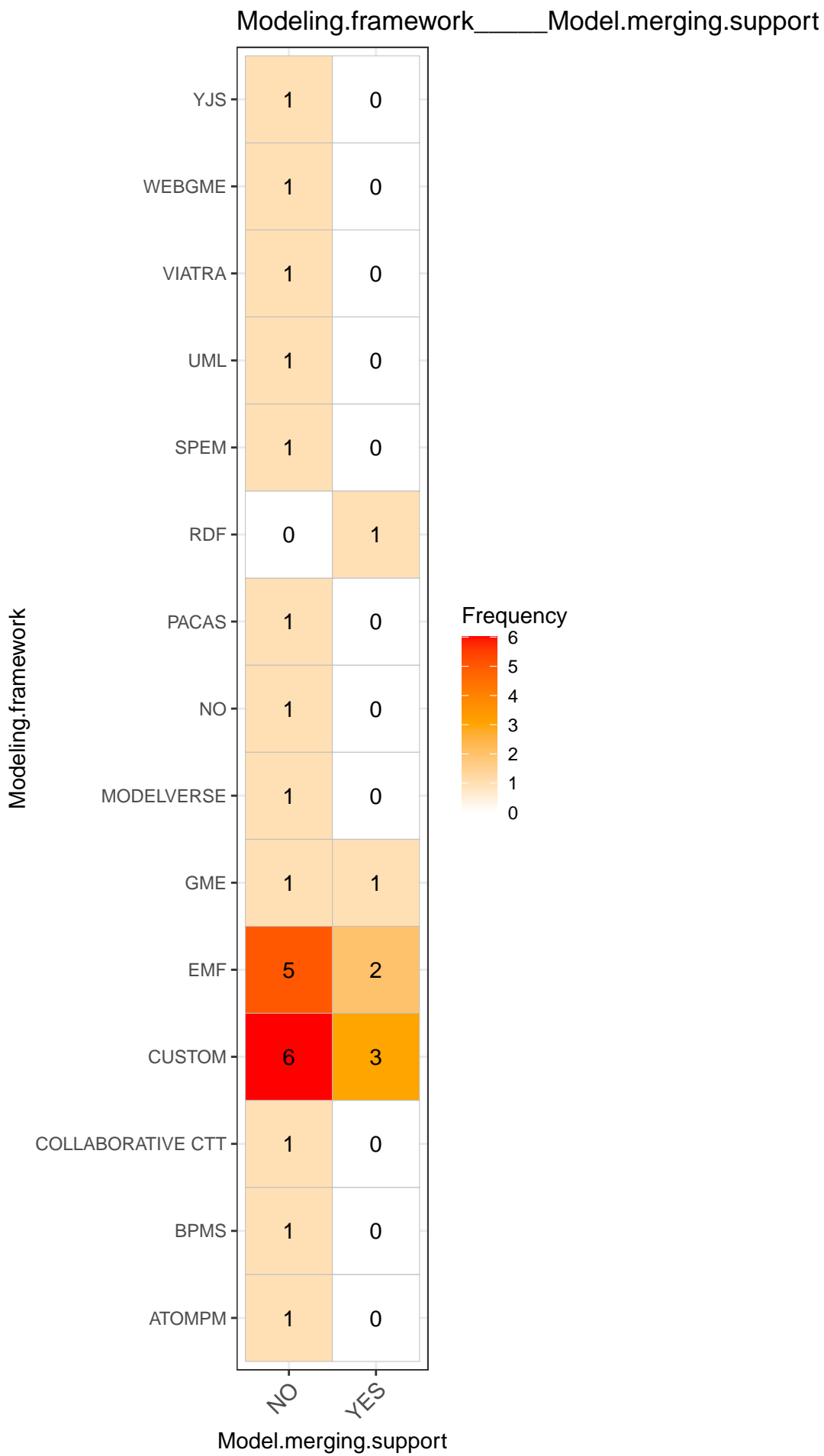


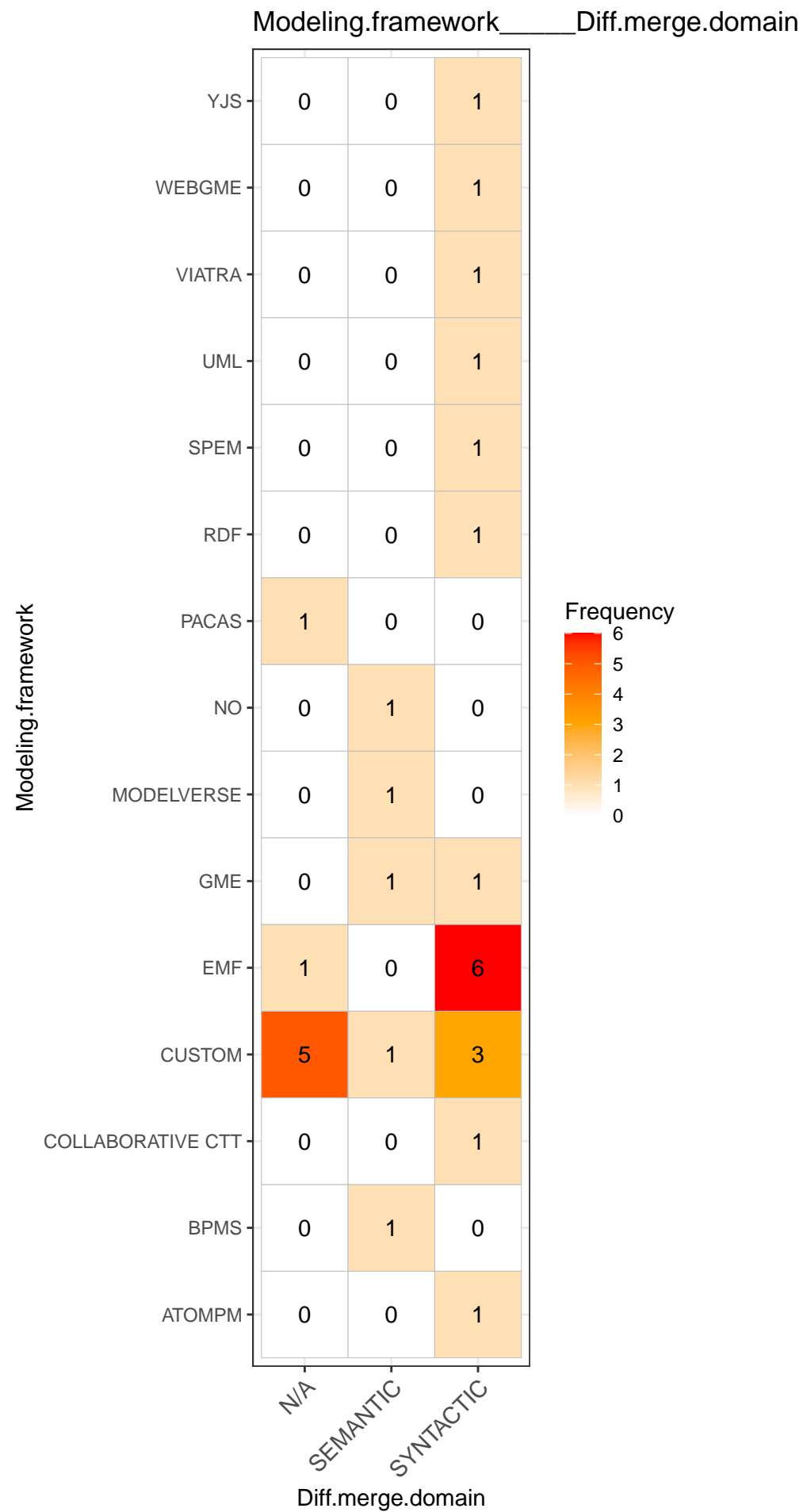


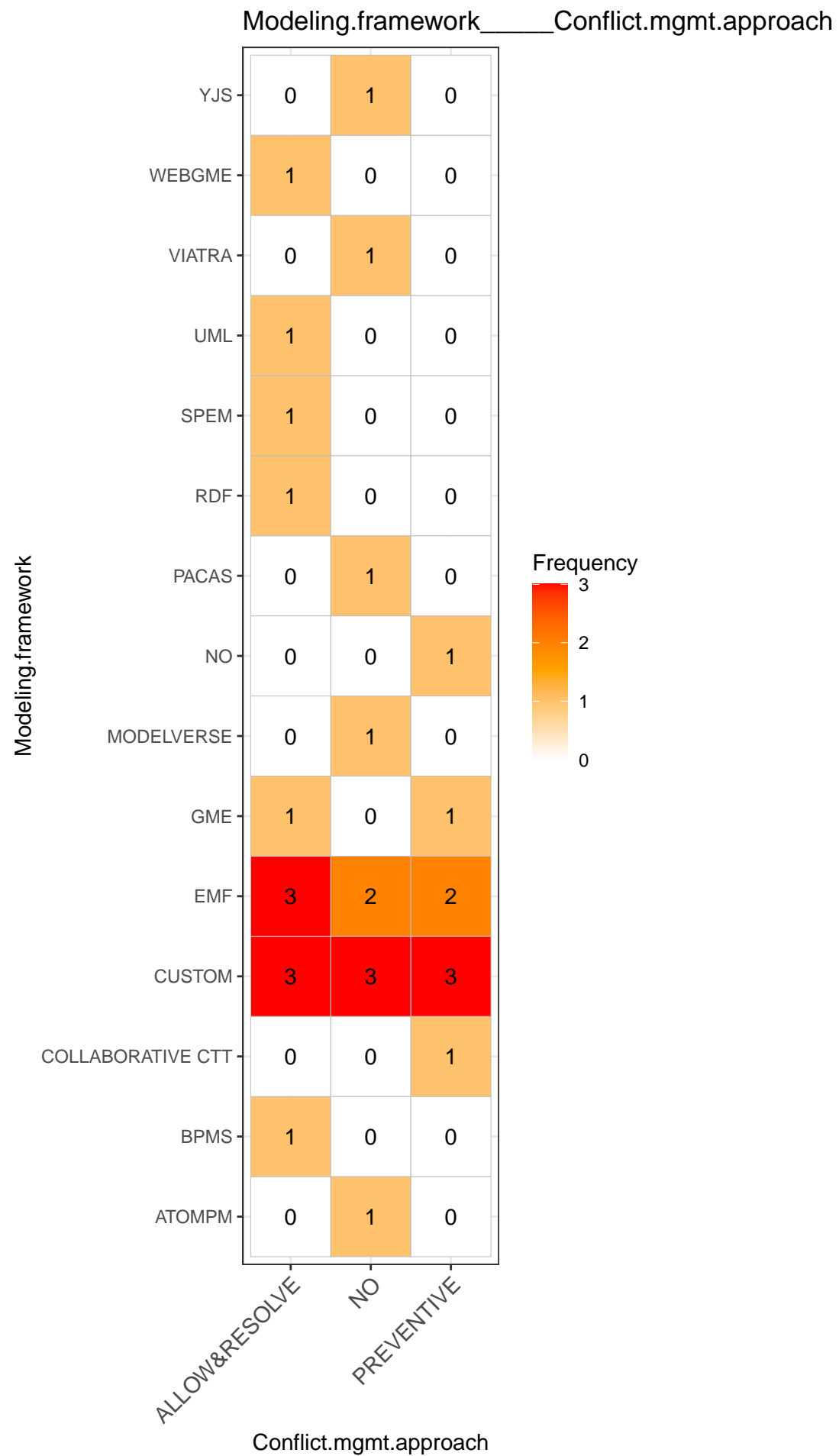


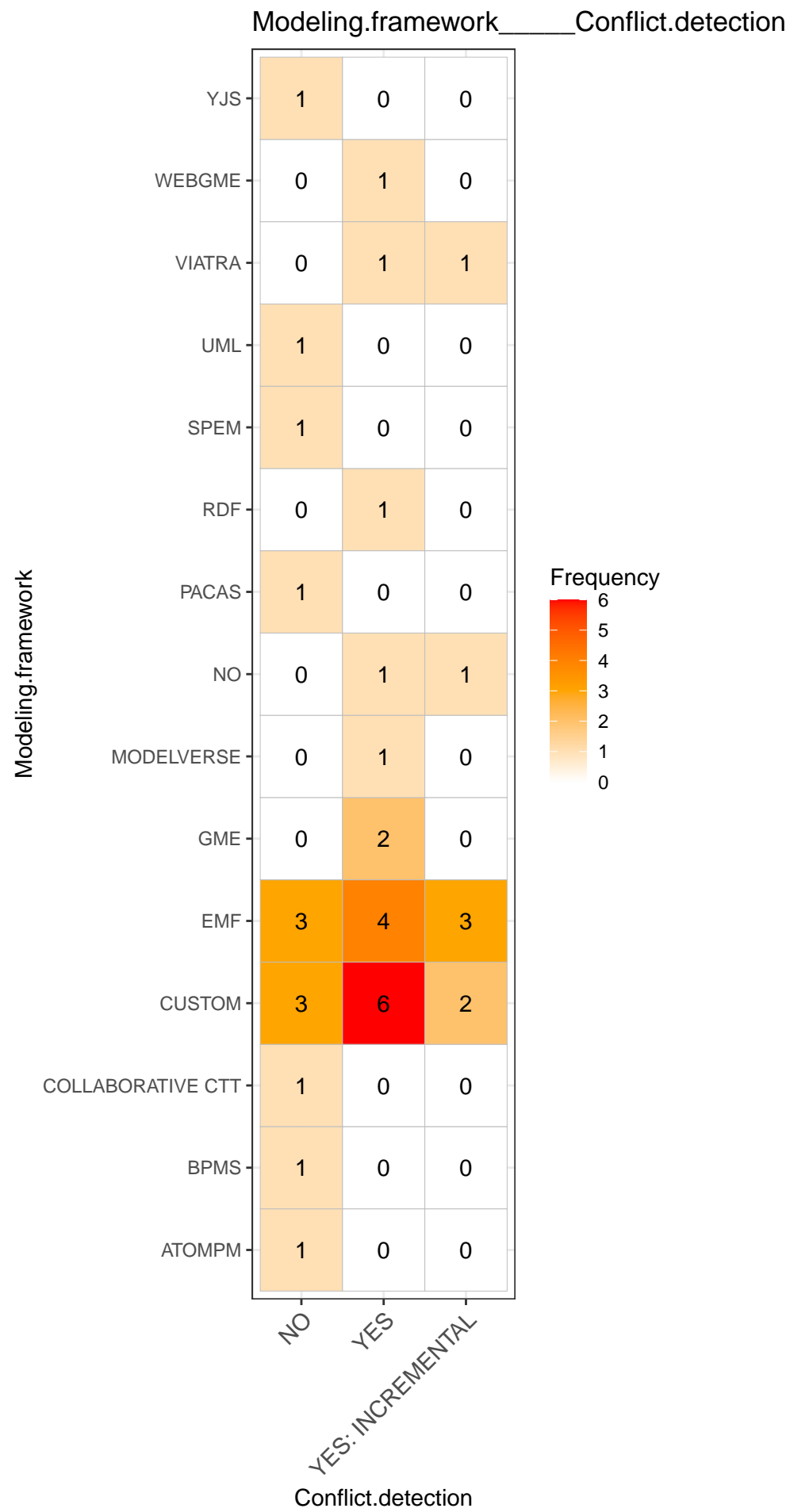


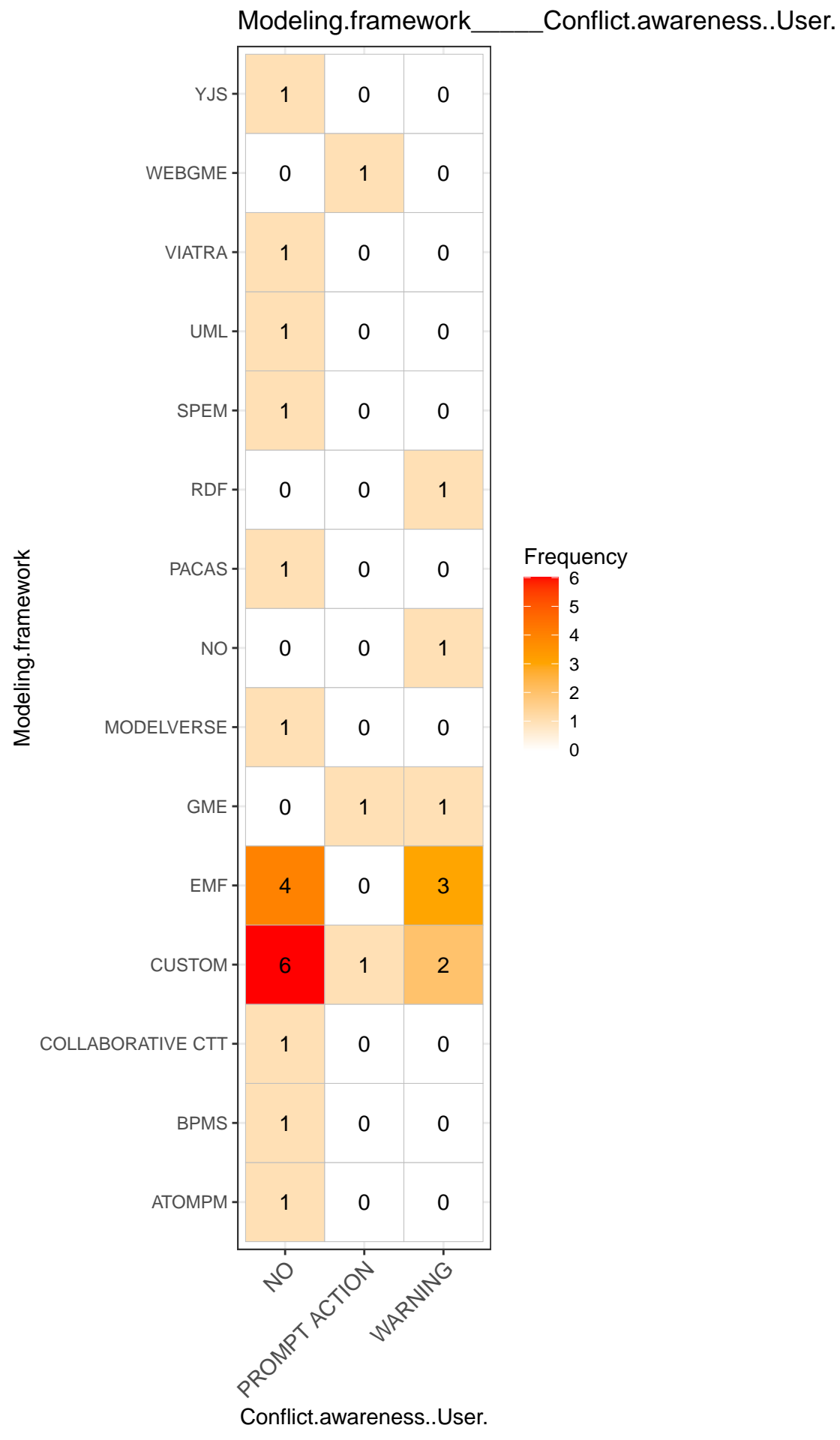


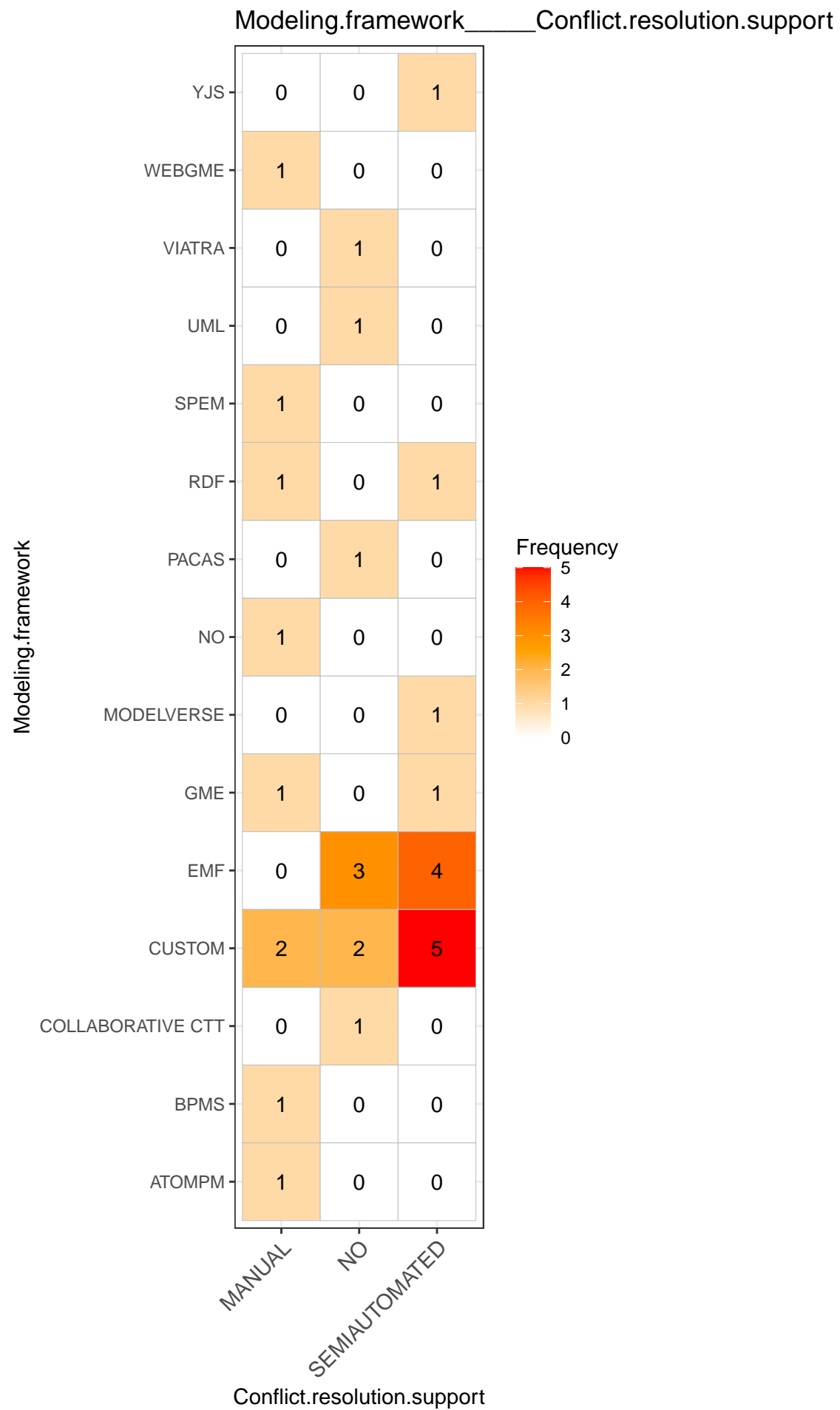


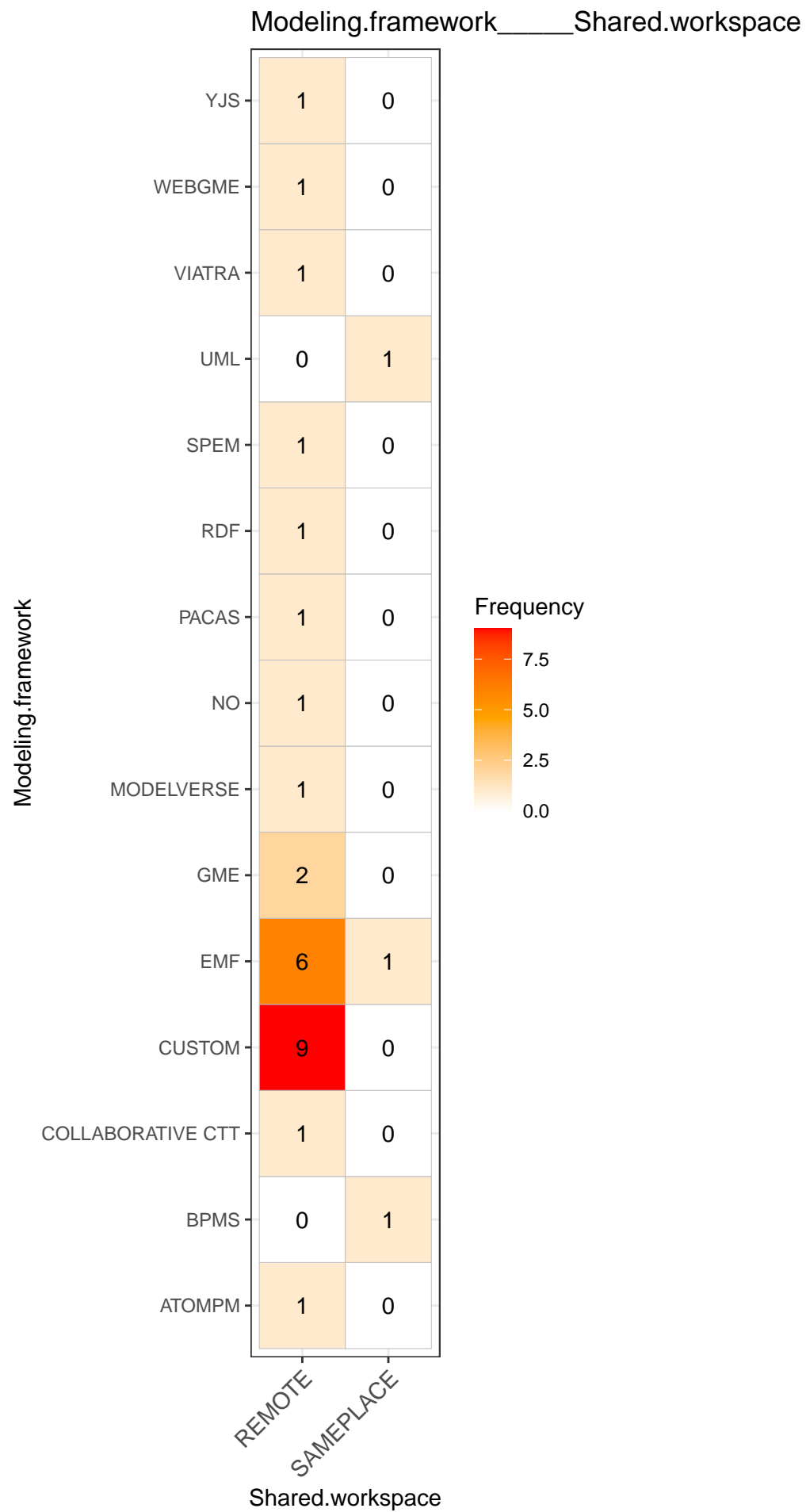


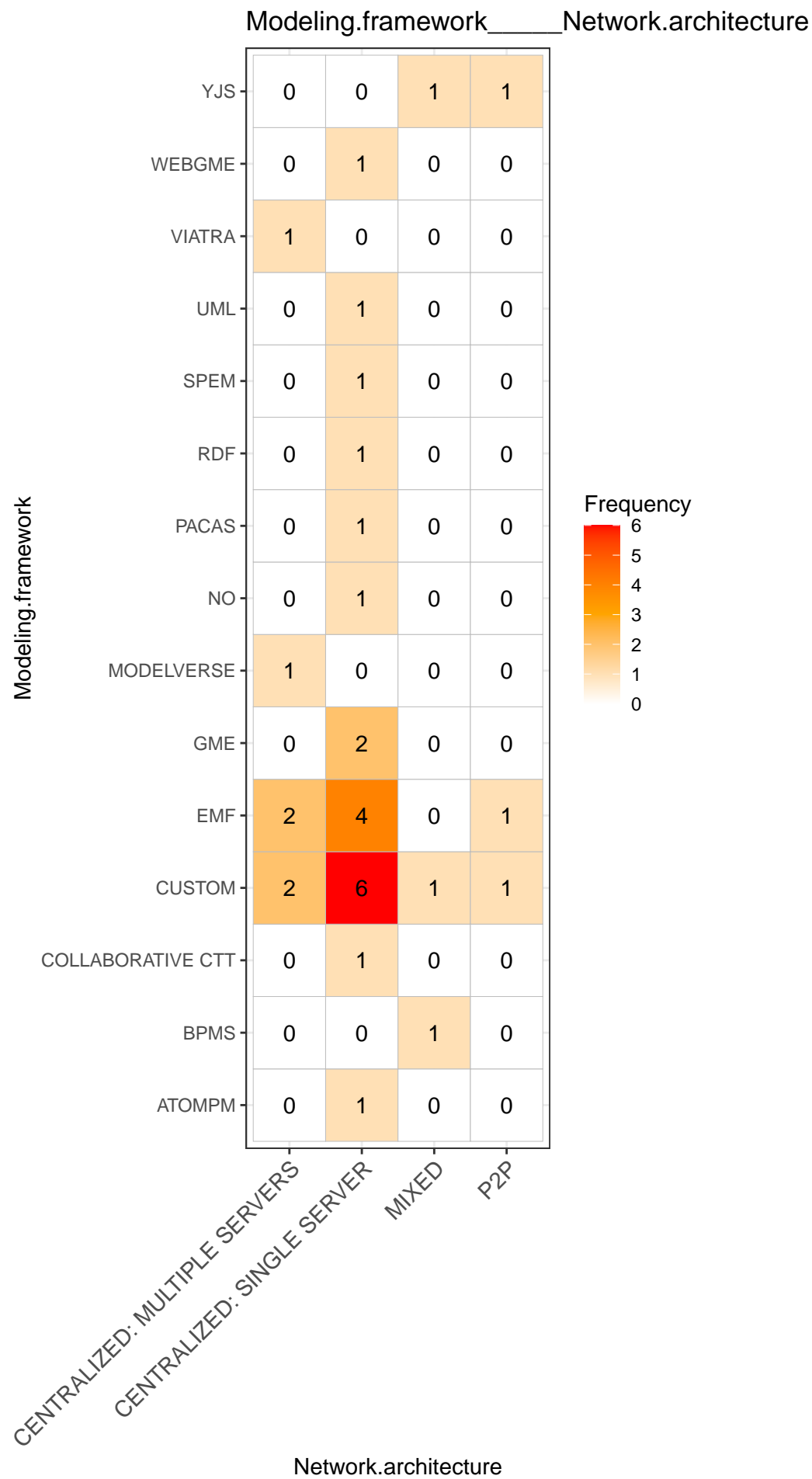


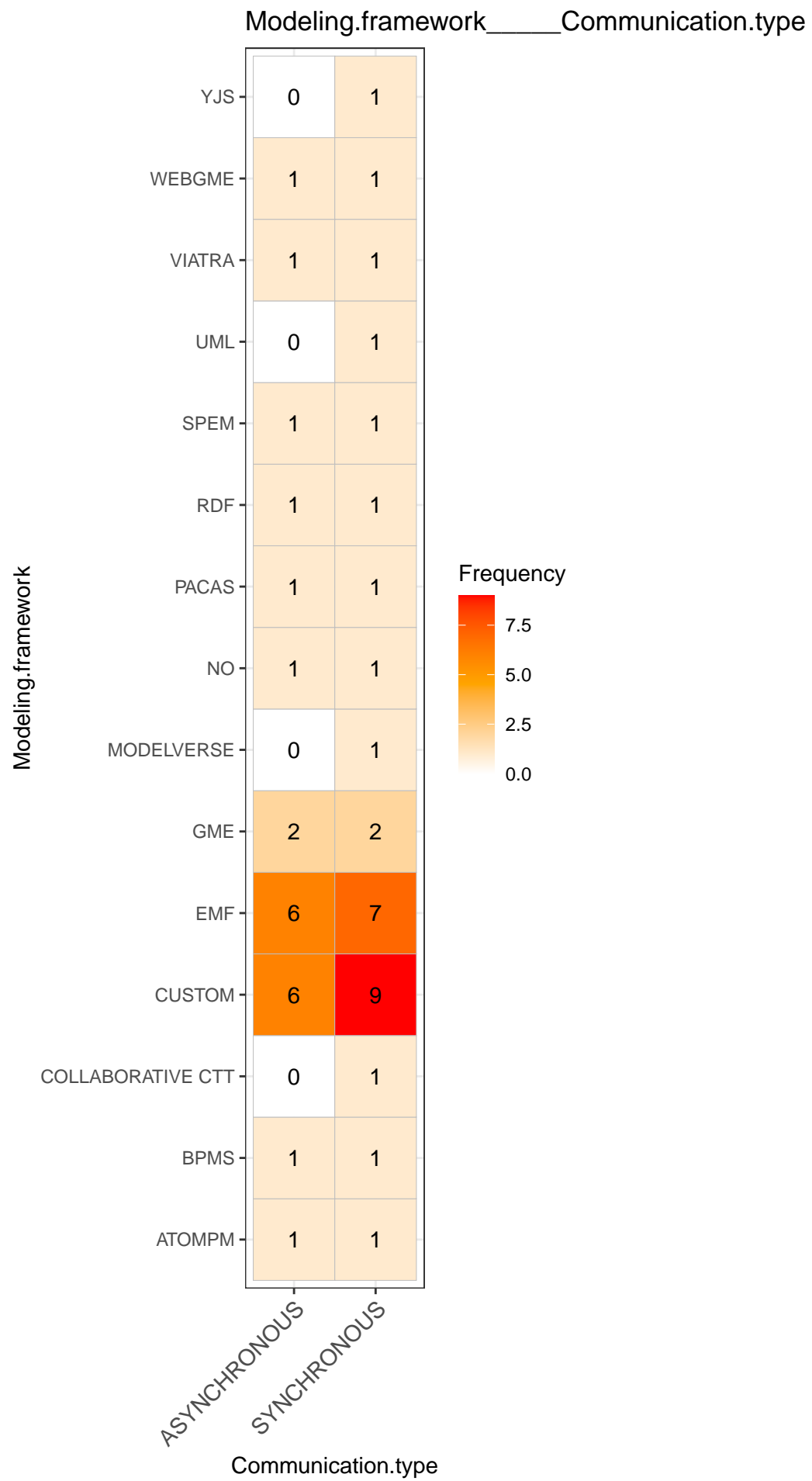




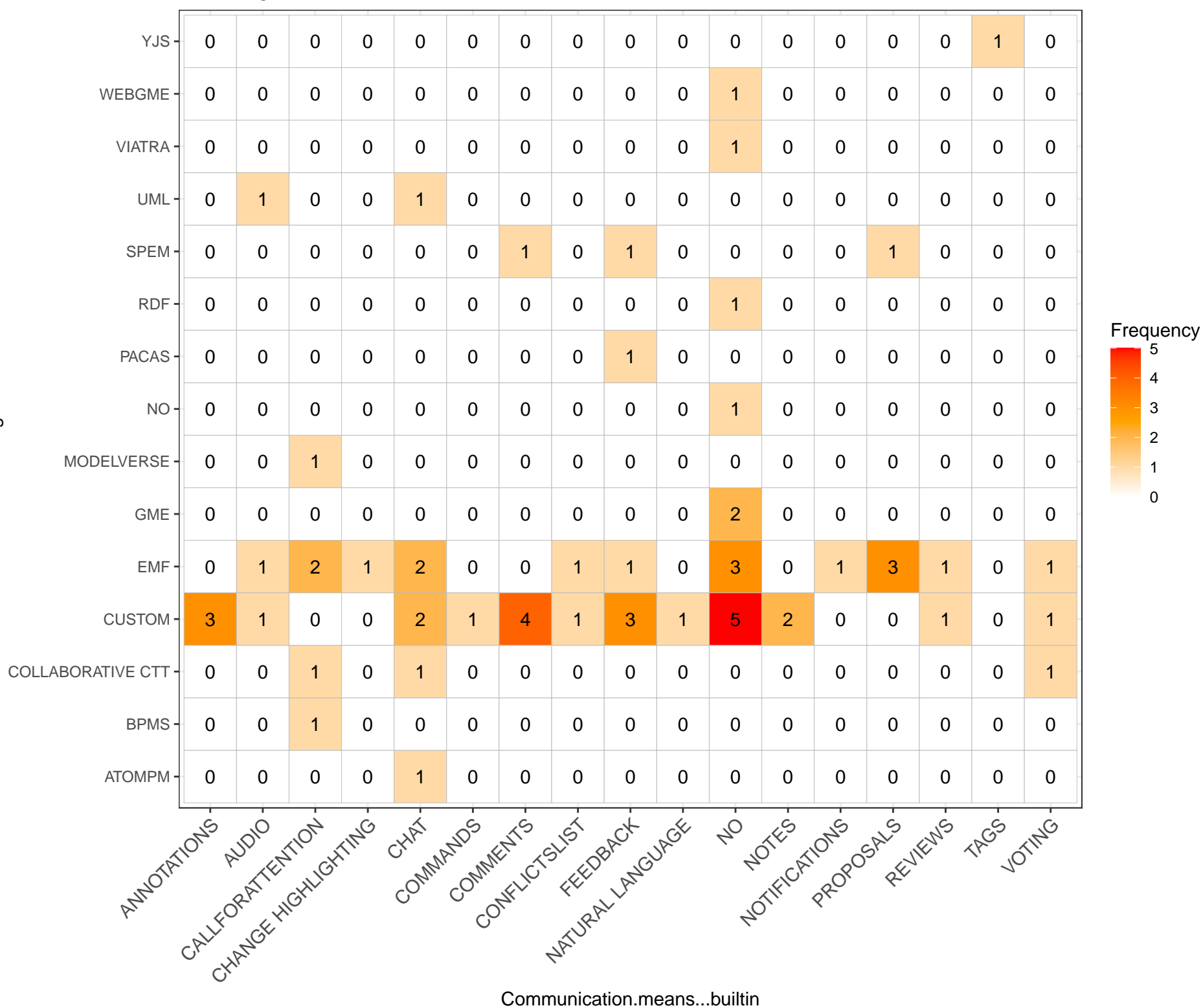


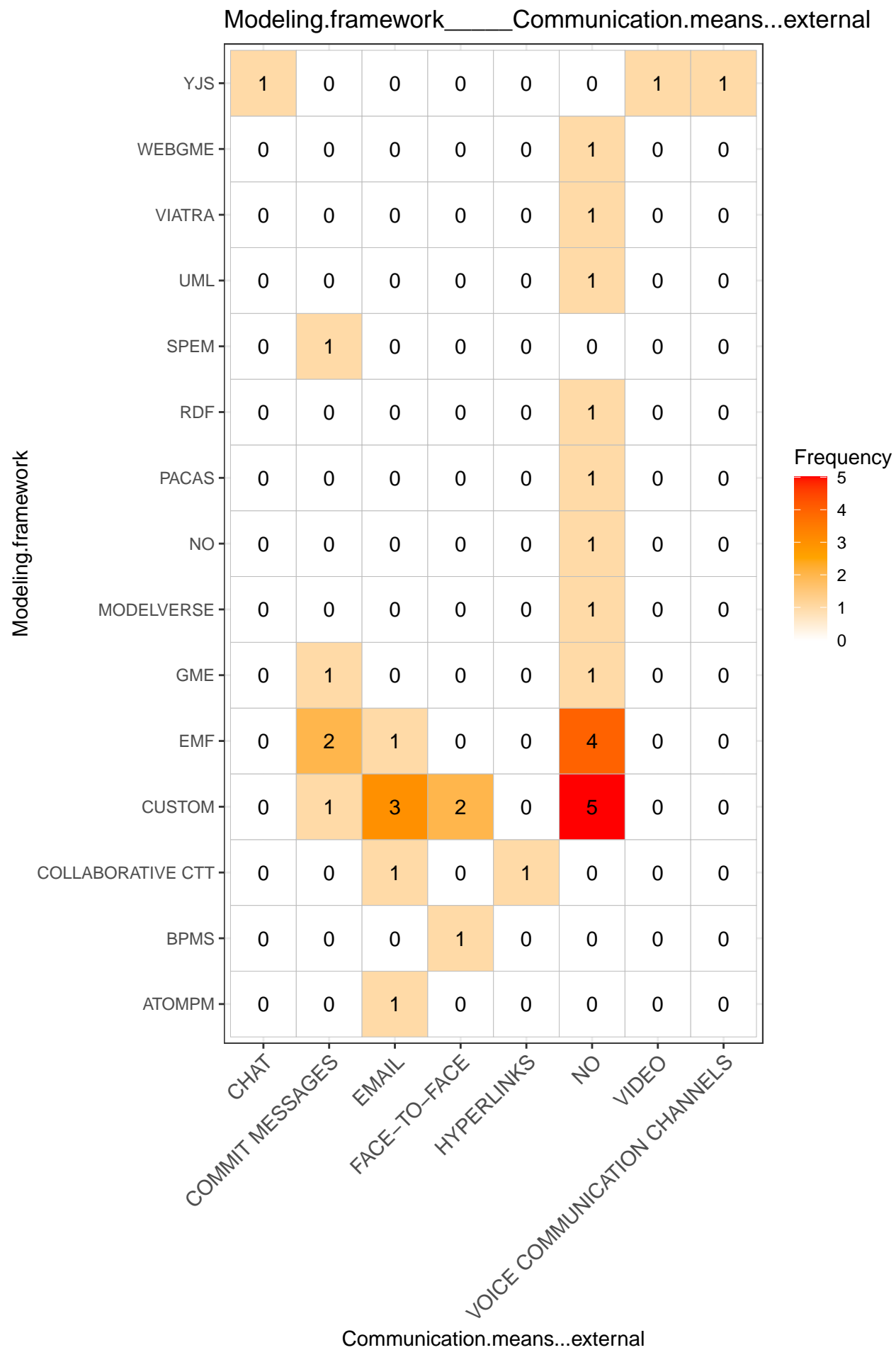


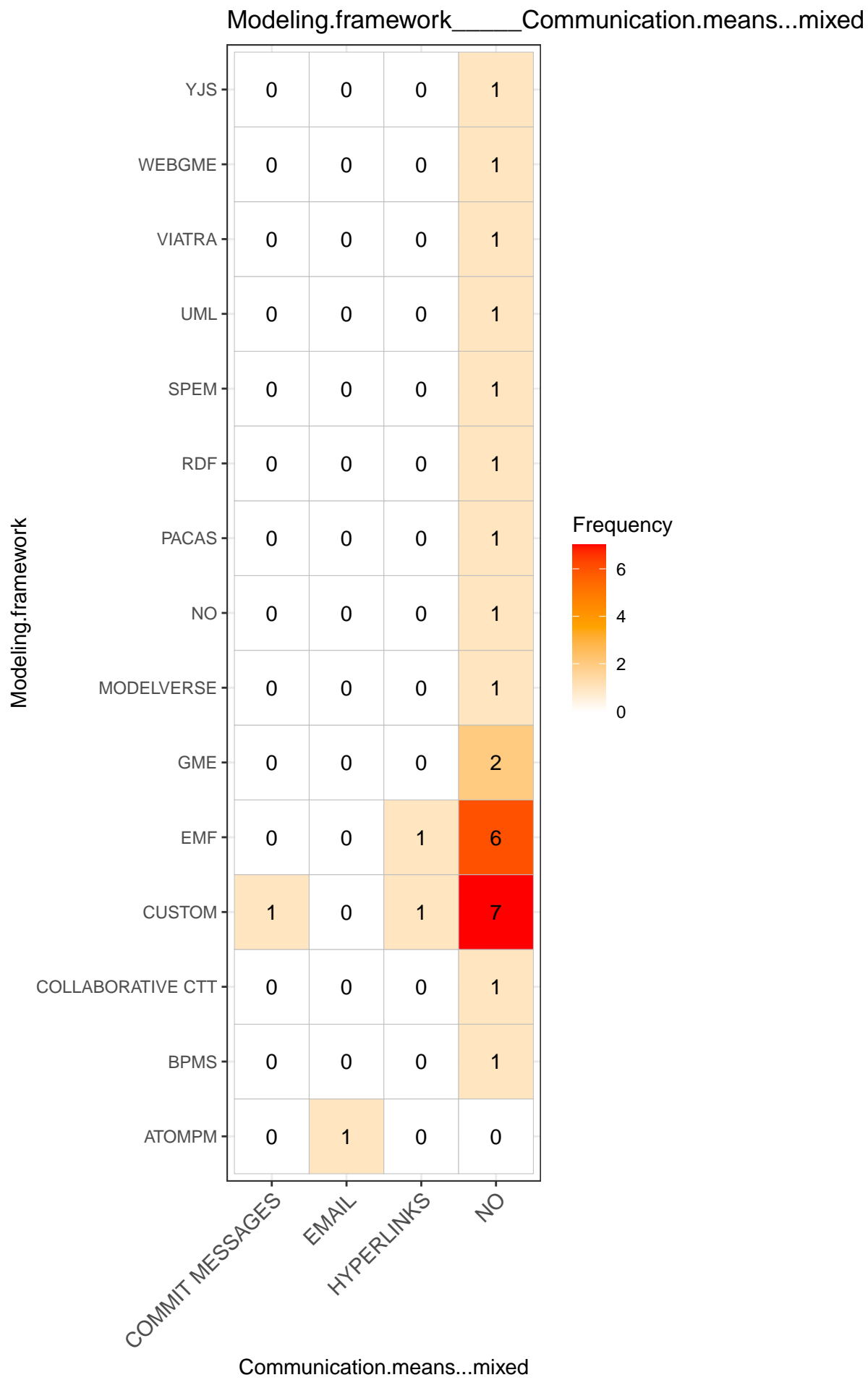


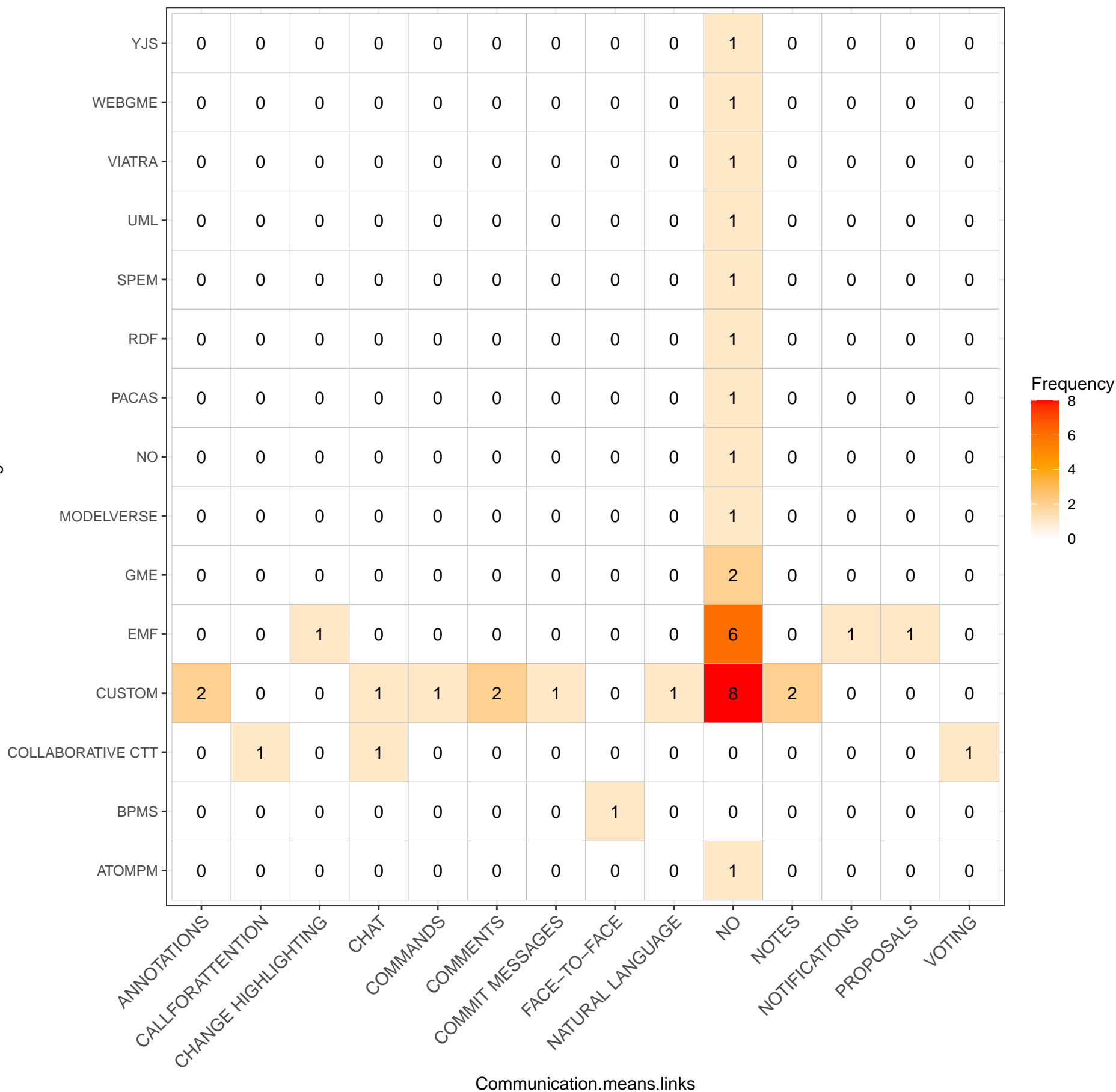


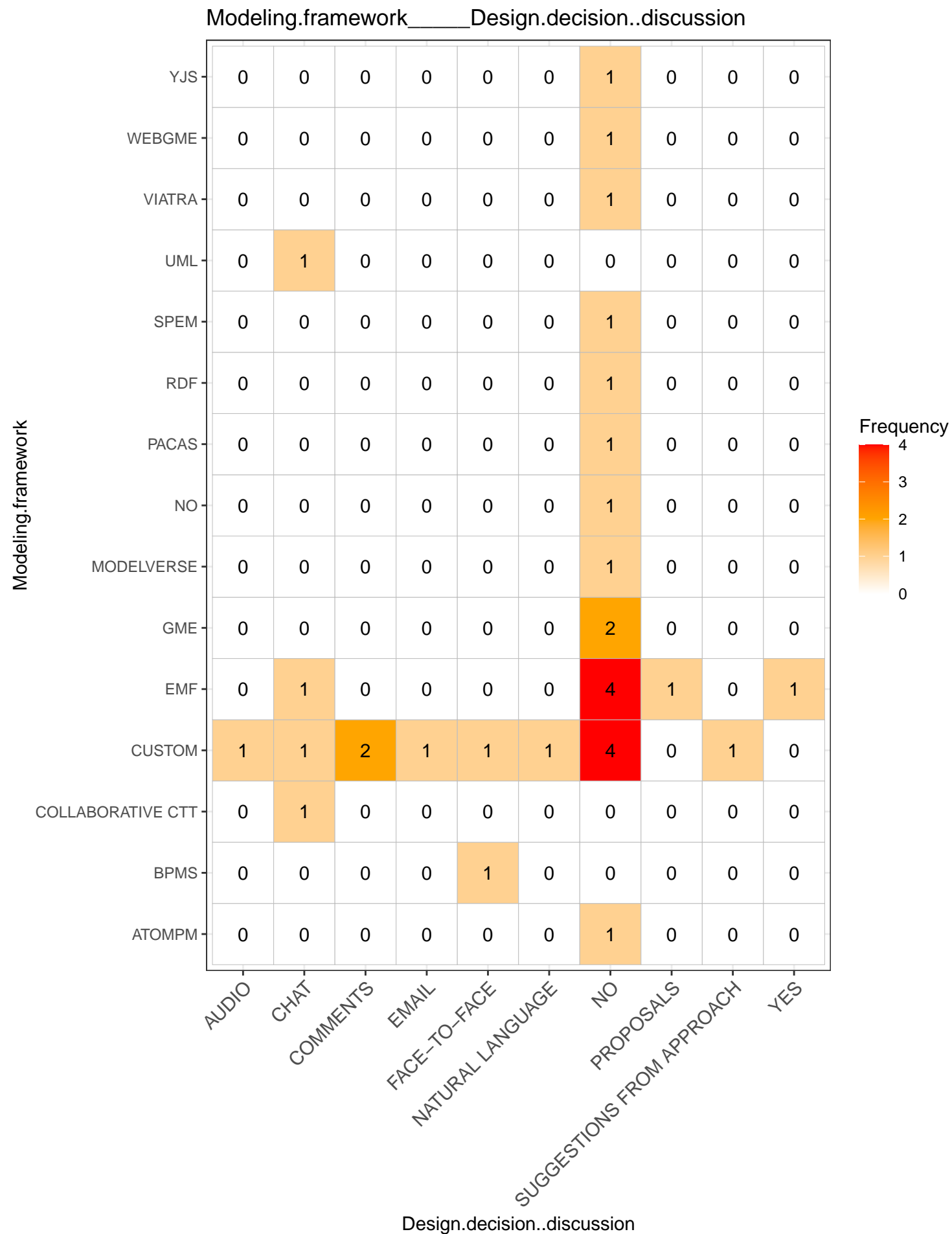
Modeling.framework_____Communication.means...builtin

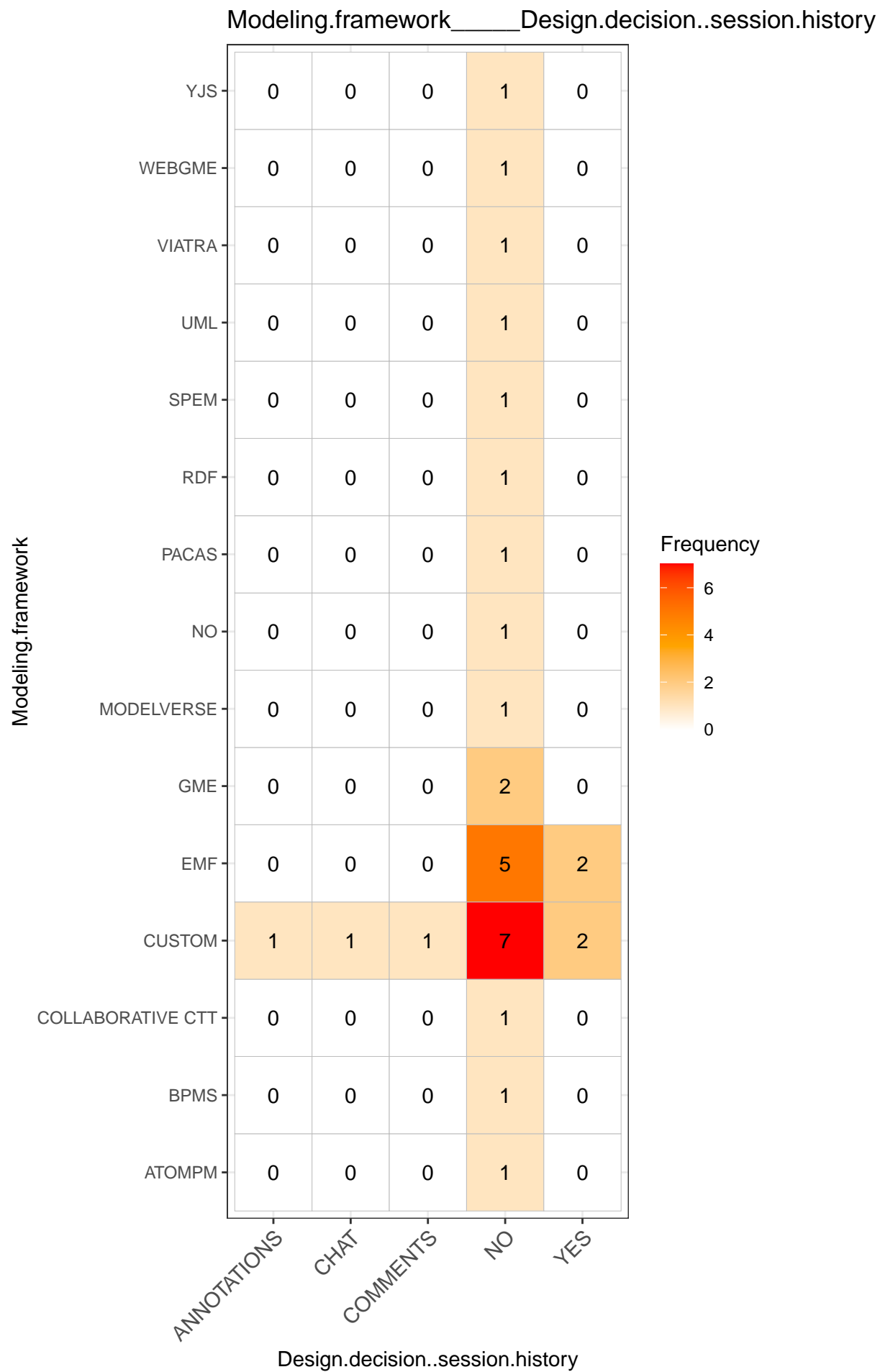


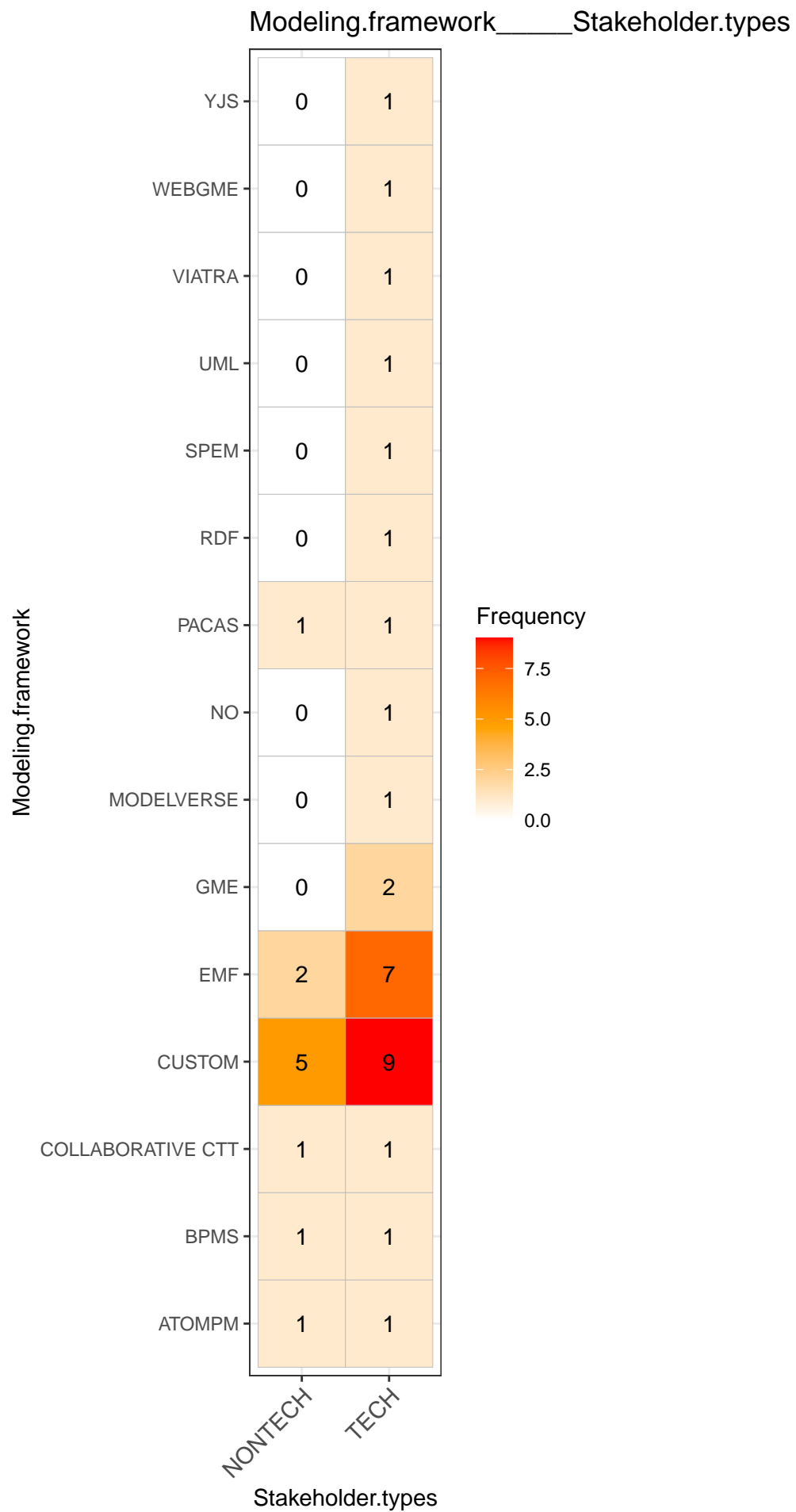




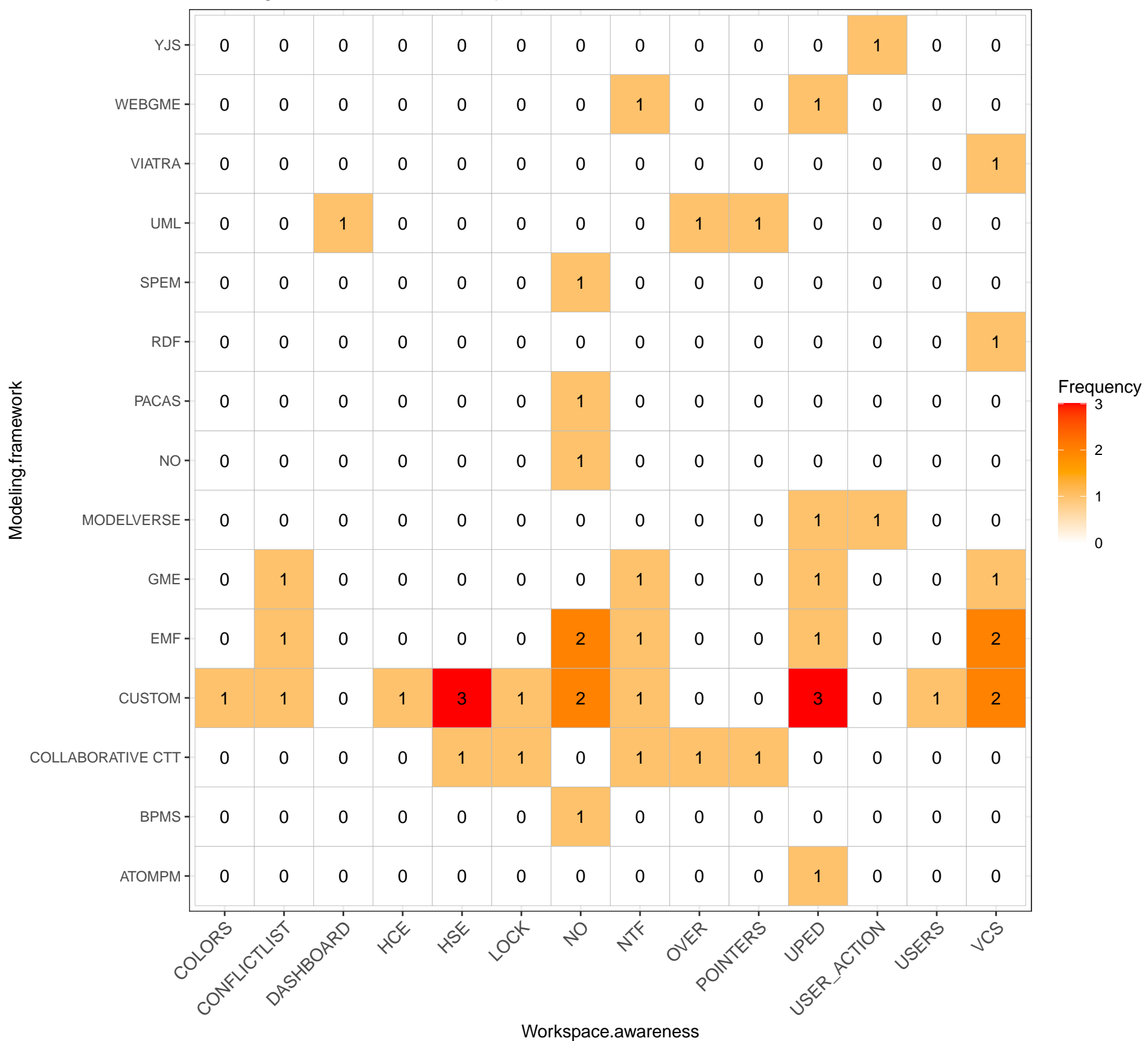


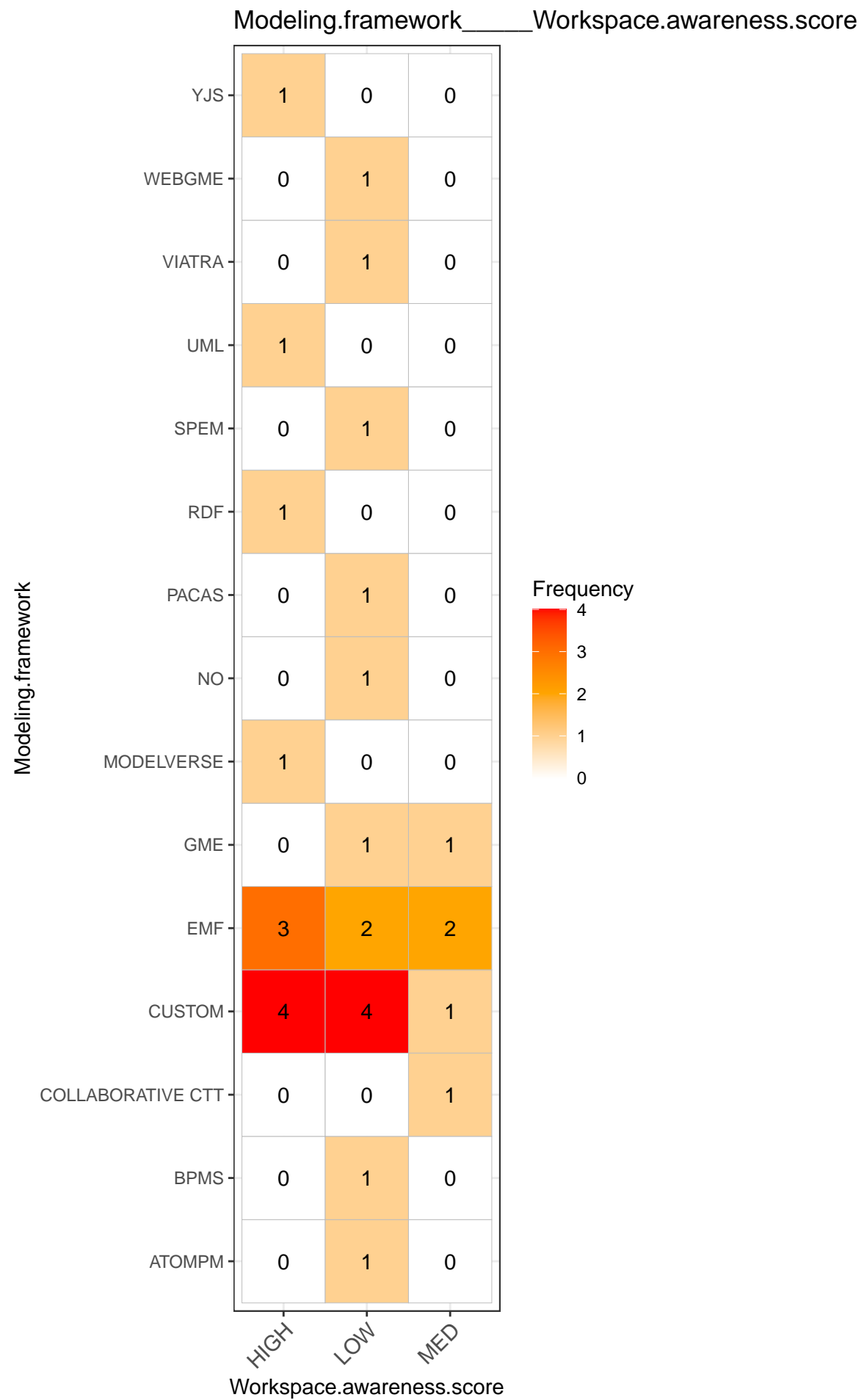




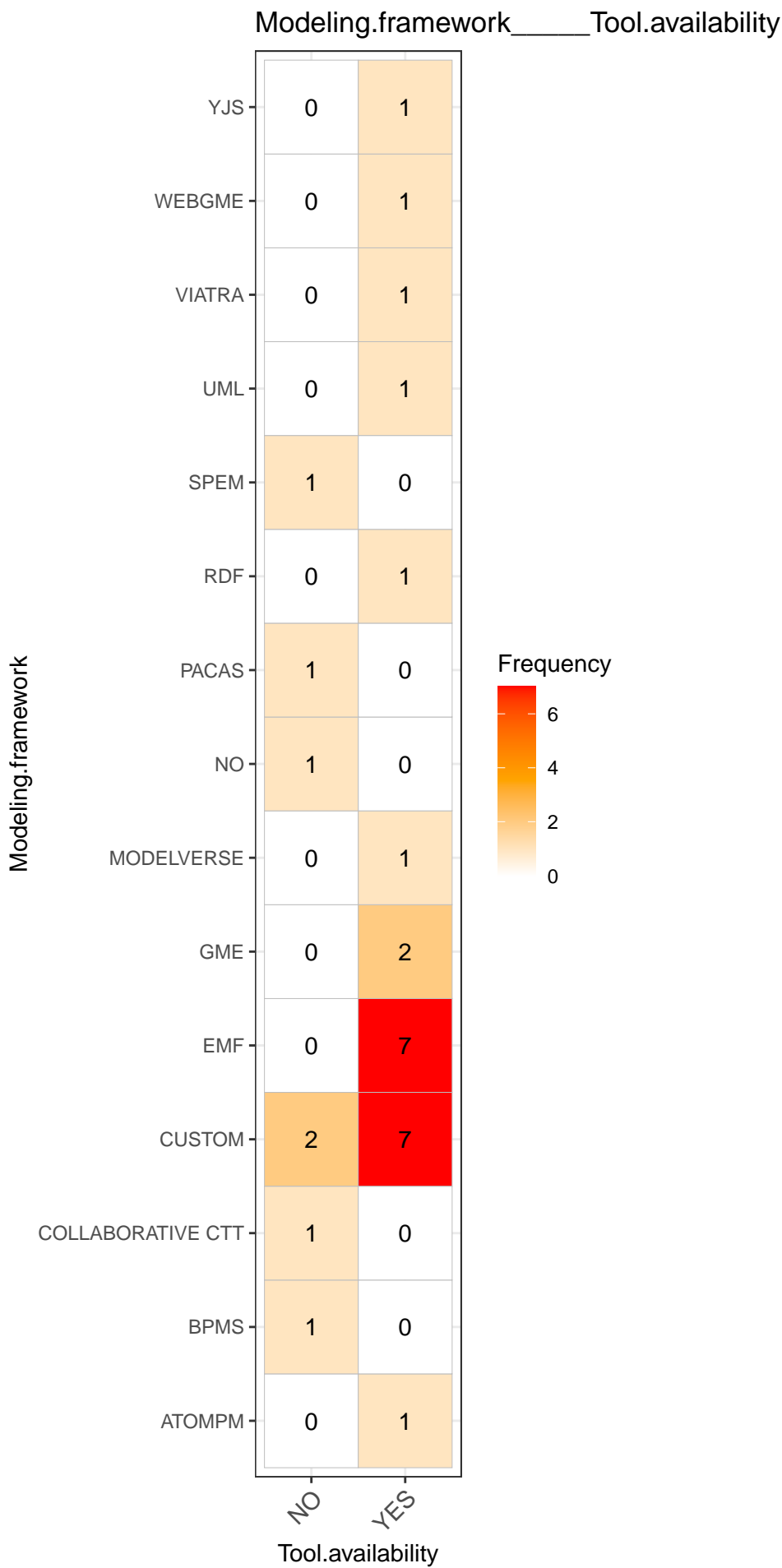


Modeling.framework_____Workspace.awareness

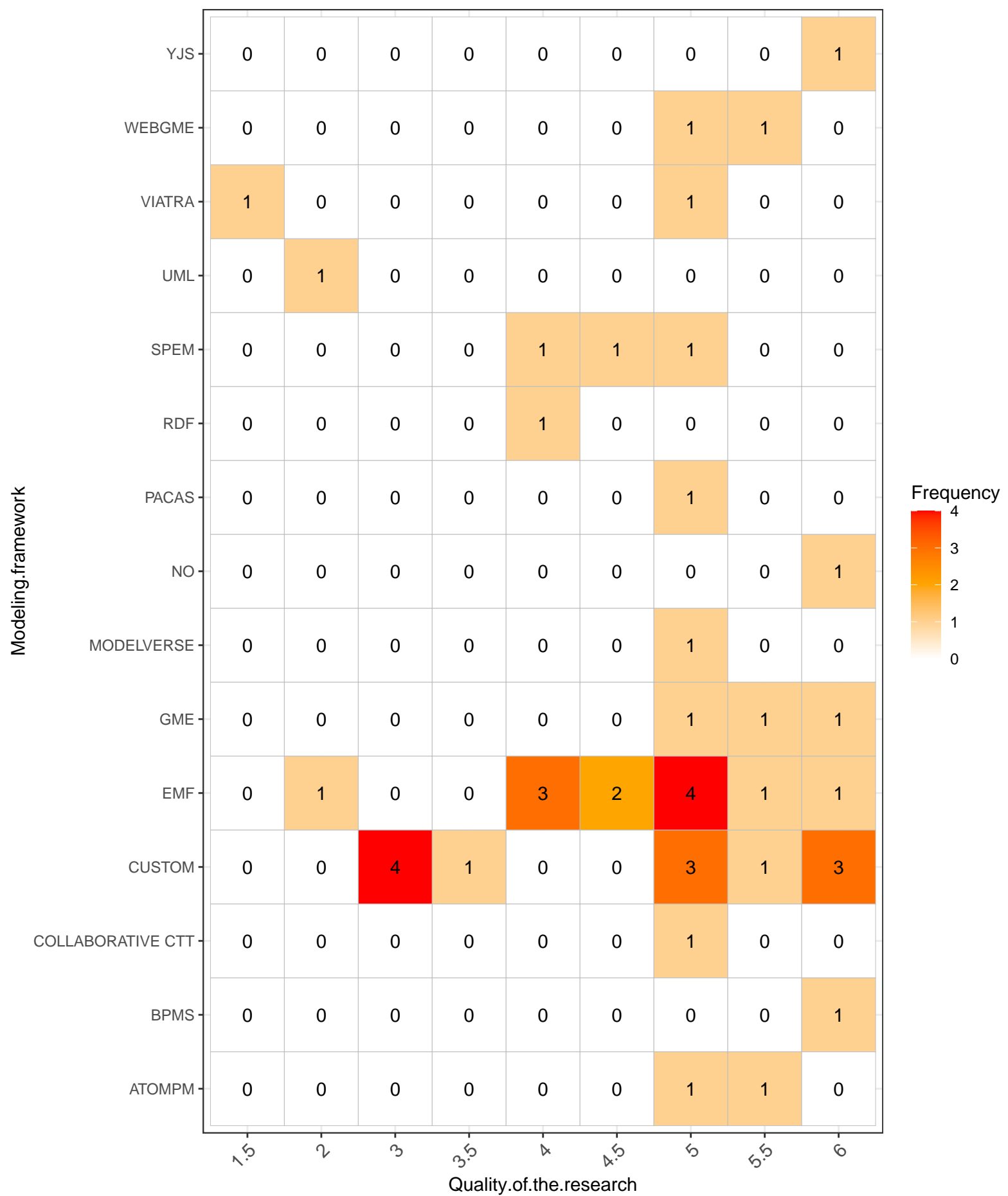


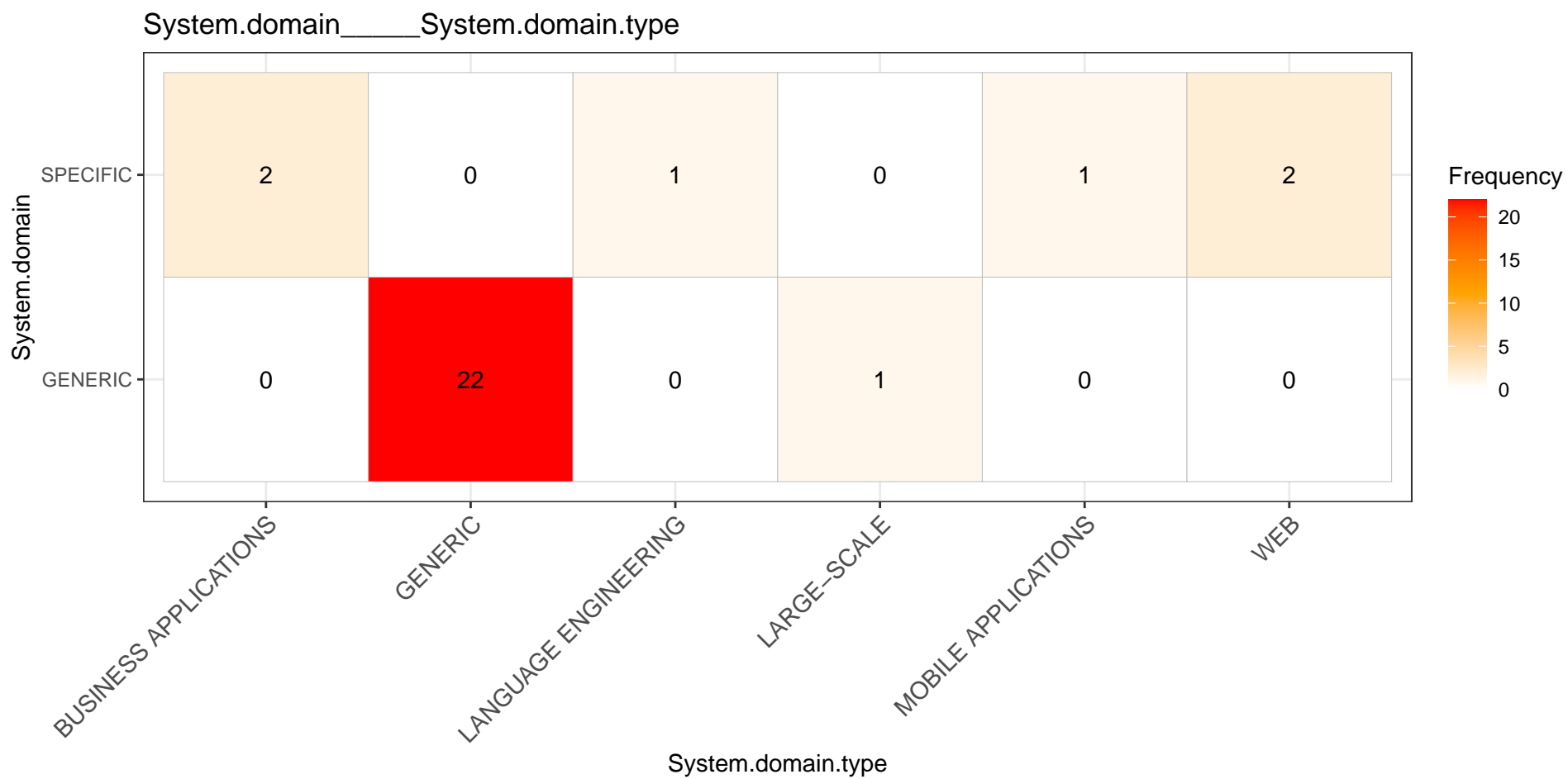


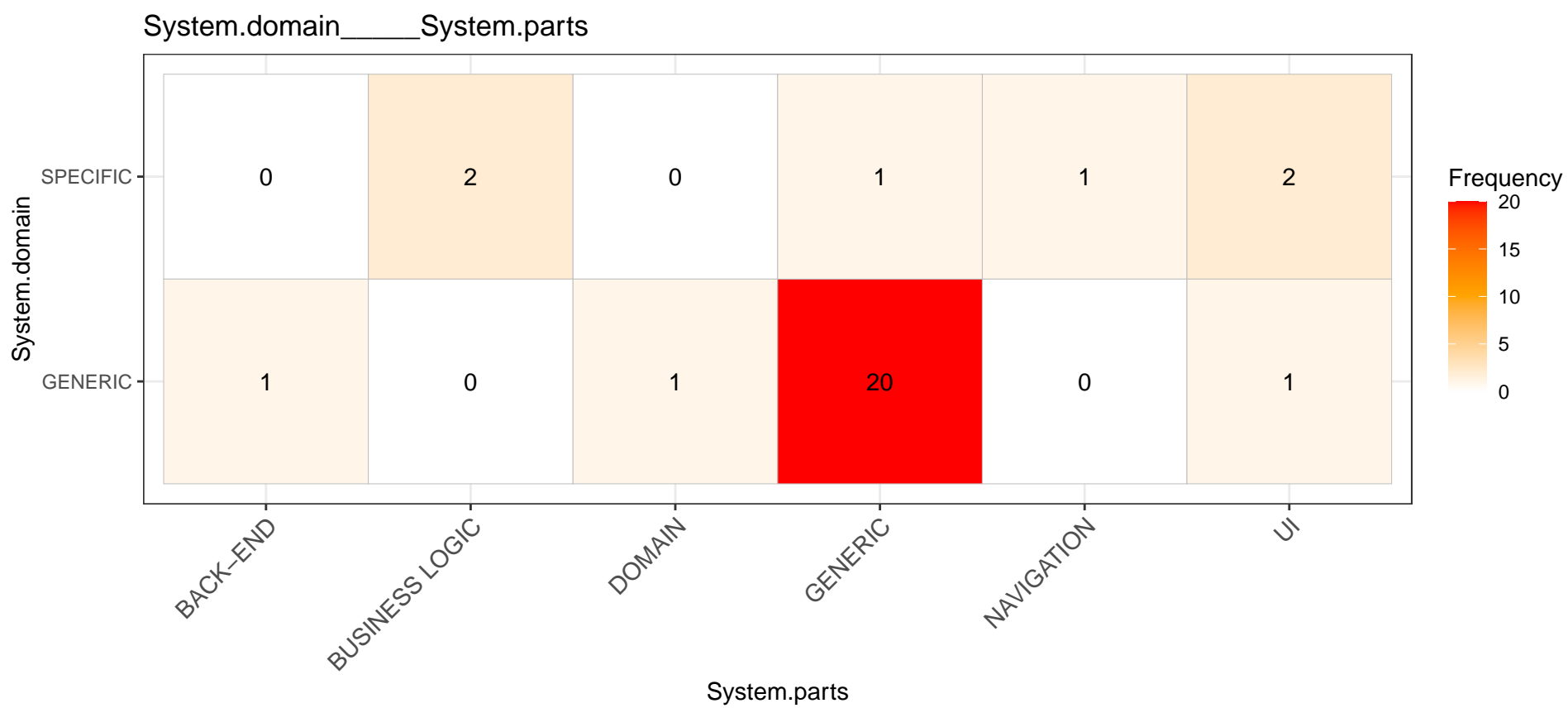


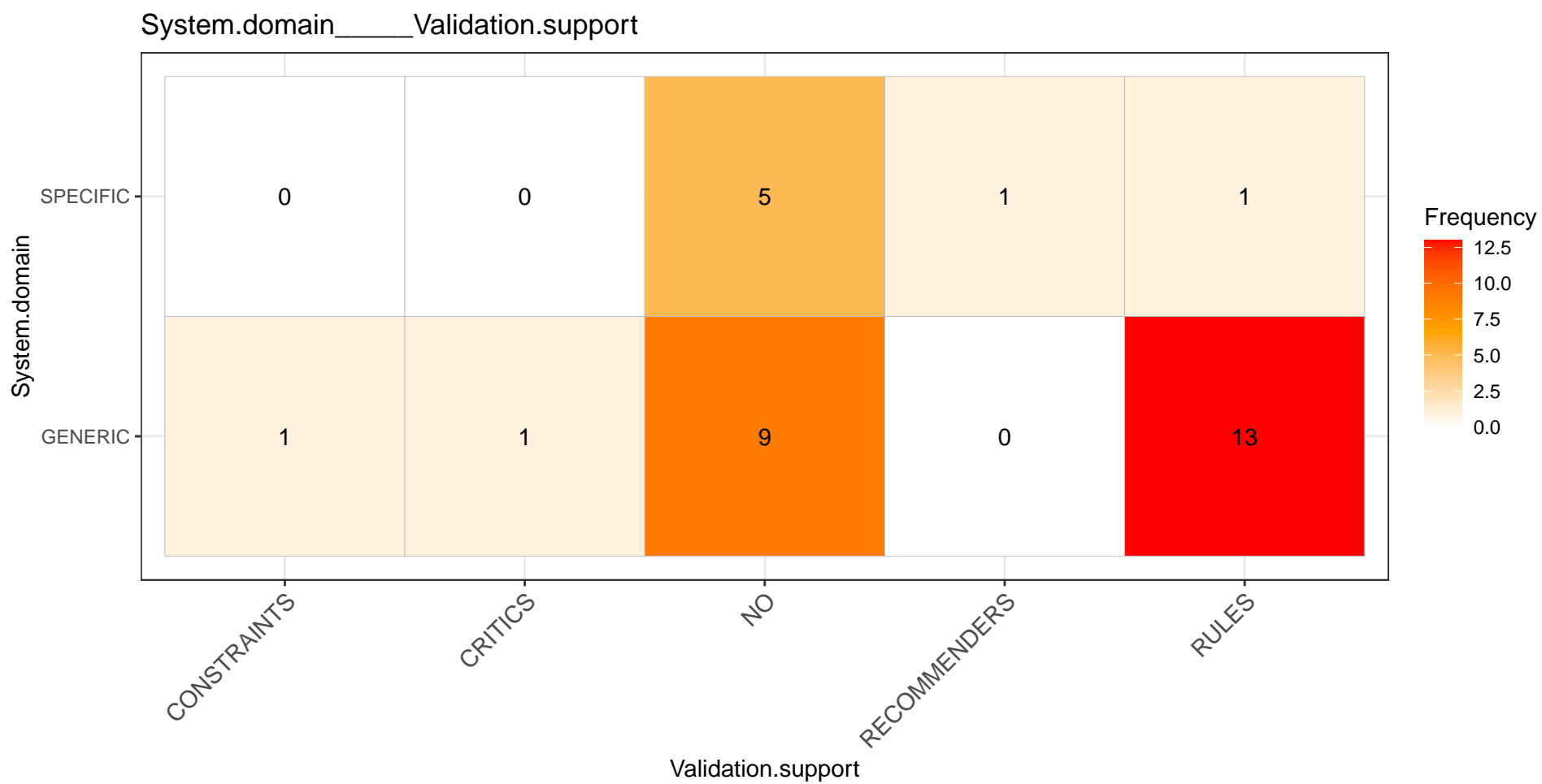


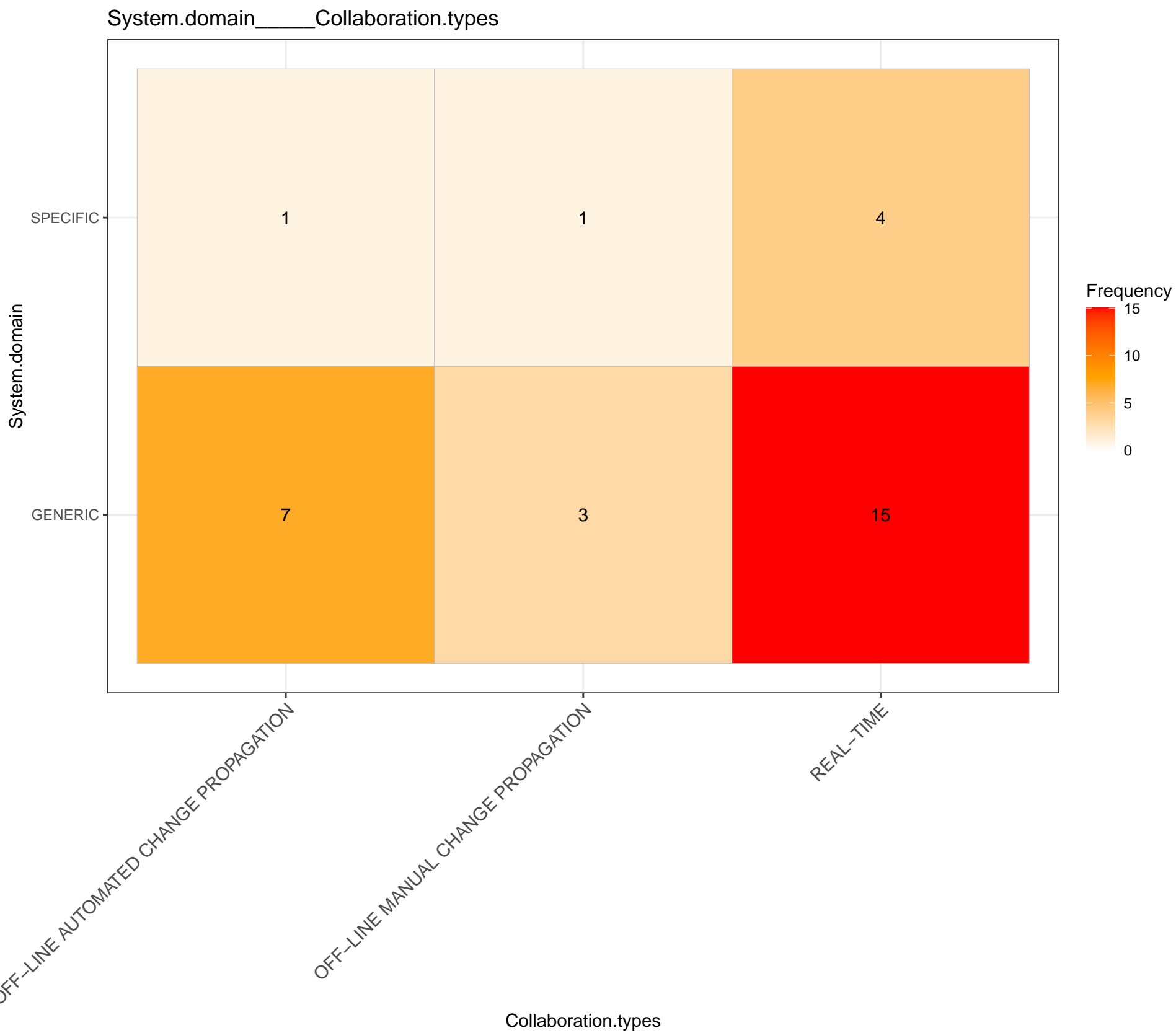
Modeling.framework_____Quality.of.the.research











System.domain____Collaboration.workflow

System.domain

SPECIFIC

4

2

GENERIC

14

9

NO

YES

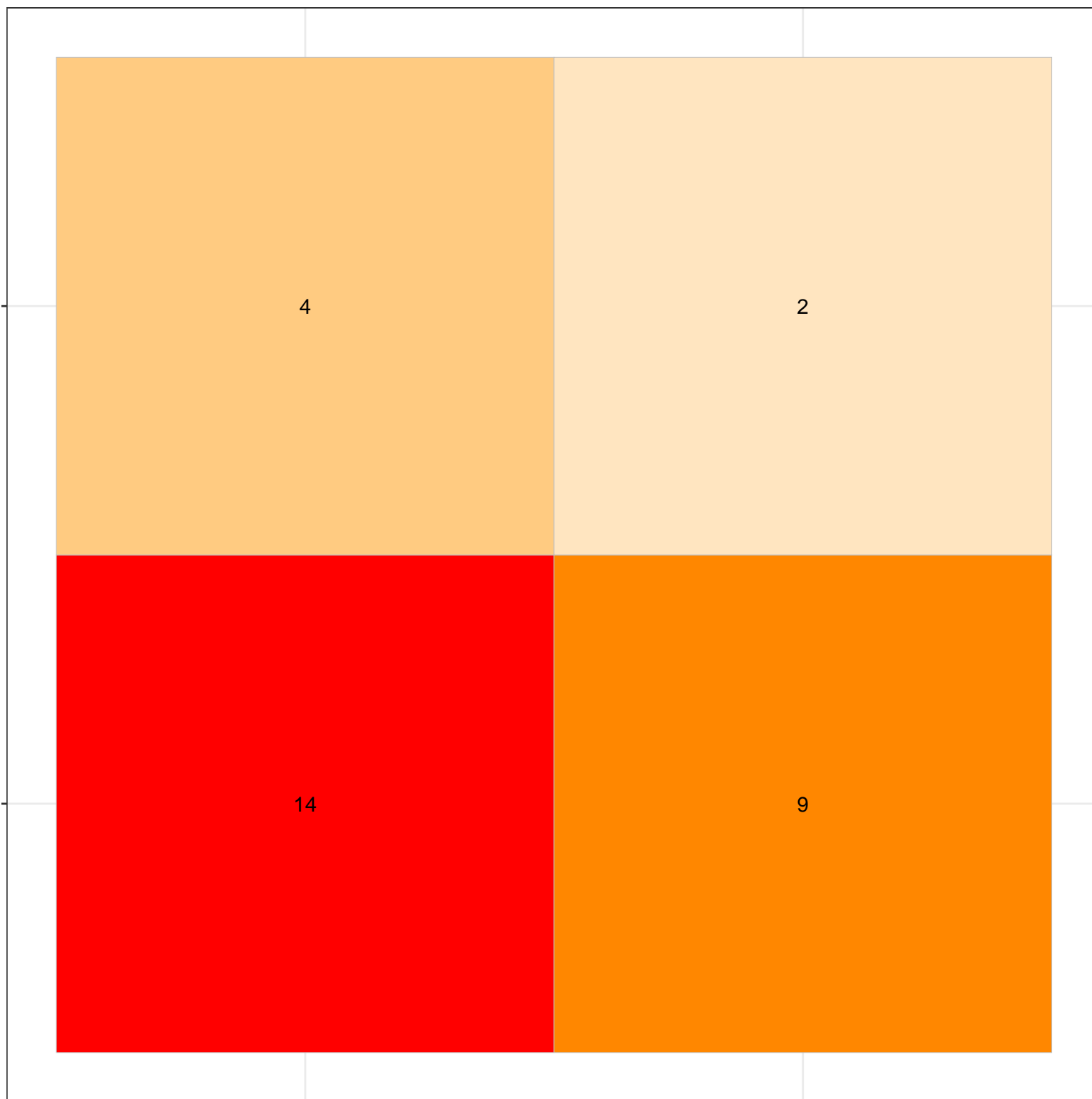
Collaboration.workflow

Frequency

10

5

0



System.domain_____Consistency.model

System.domain

SPECIFIC

4

3

1

GENERIC

15

15

7

EVENTUAL

STRONG

STRONG EVENTUAL

Consistency.model

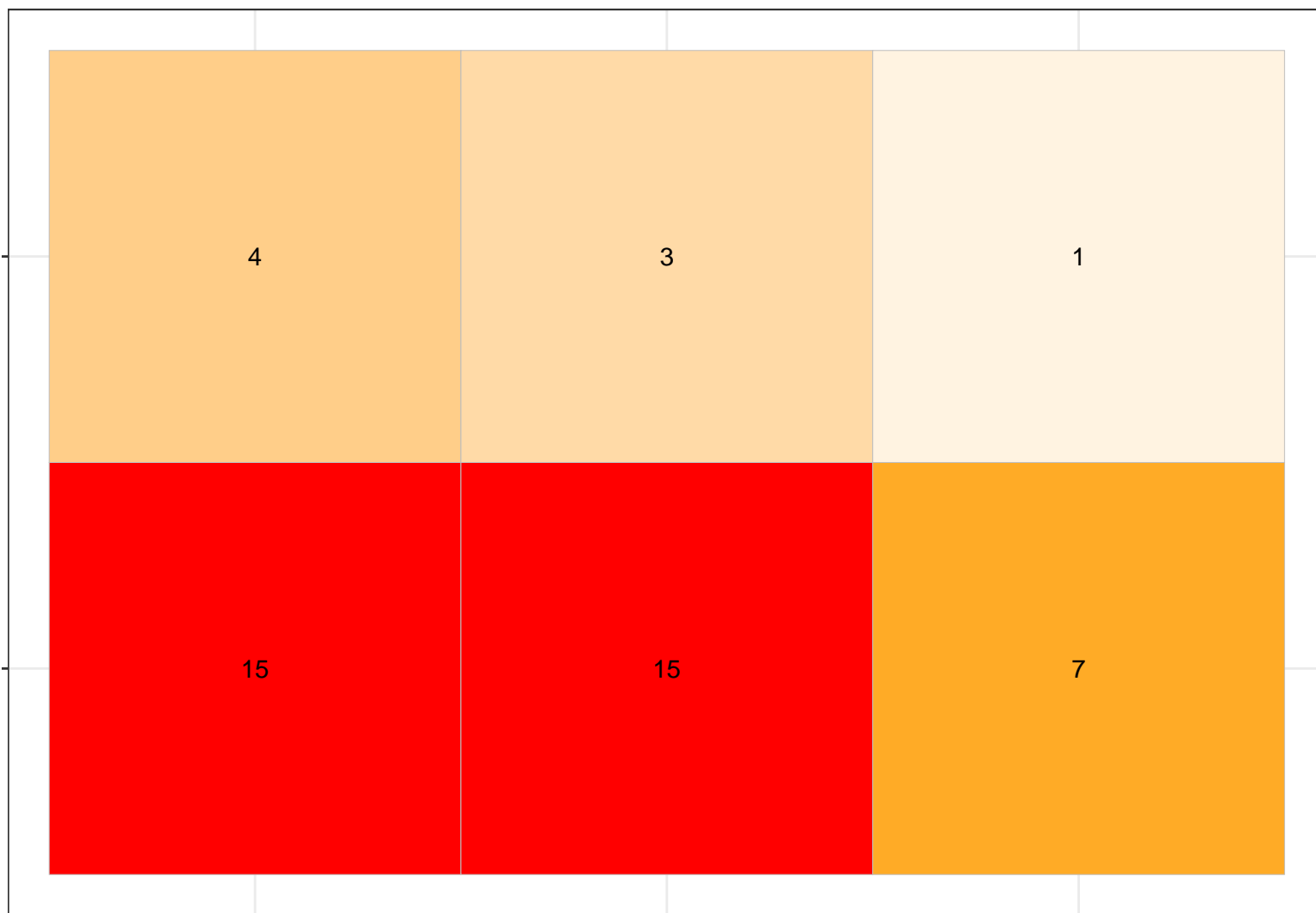
Frequency

15

10

5

0



System.domain_____Unit.of.sync

System.domain

SPECIFIC

3

3

GENERIC

13

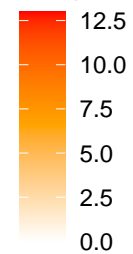
10

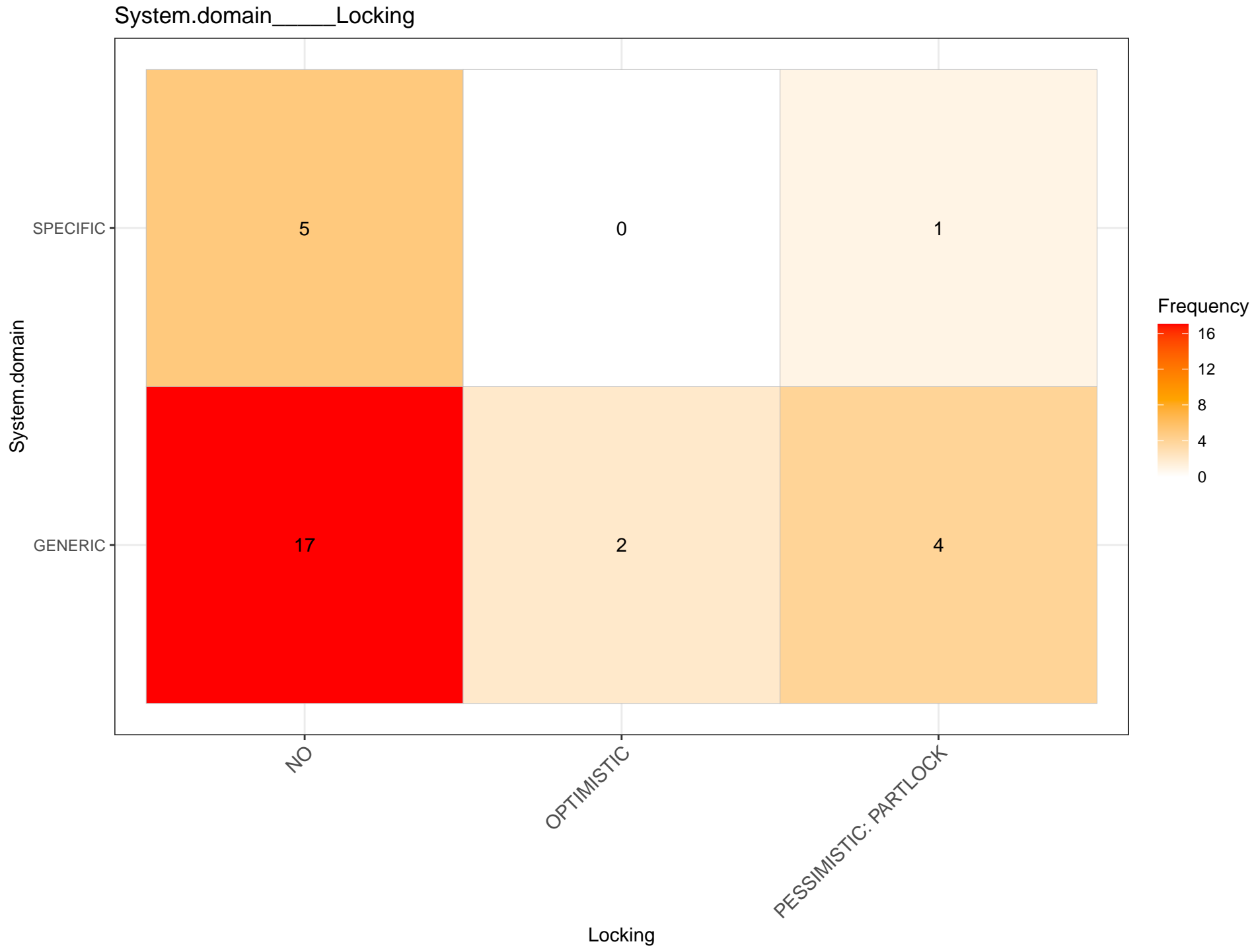
CHANGE

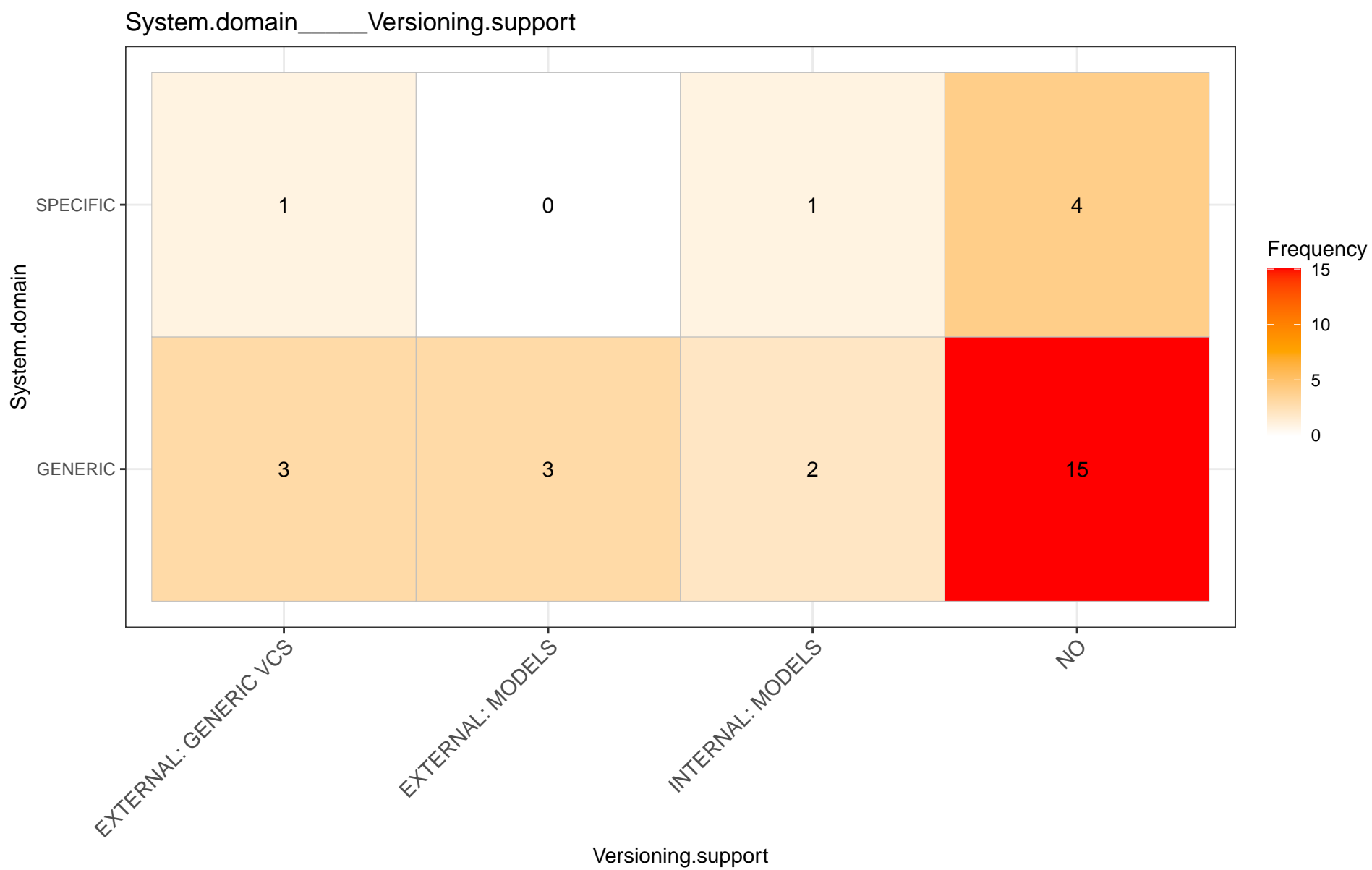
STATE

Unit.of.sync

Frequency







System.domain_____VCS.architecture

System.domain

SPECIFIC

1

1

4

GENERIC

6

2

15

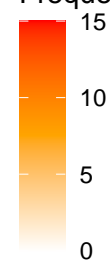
CENTRALIZED

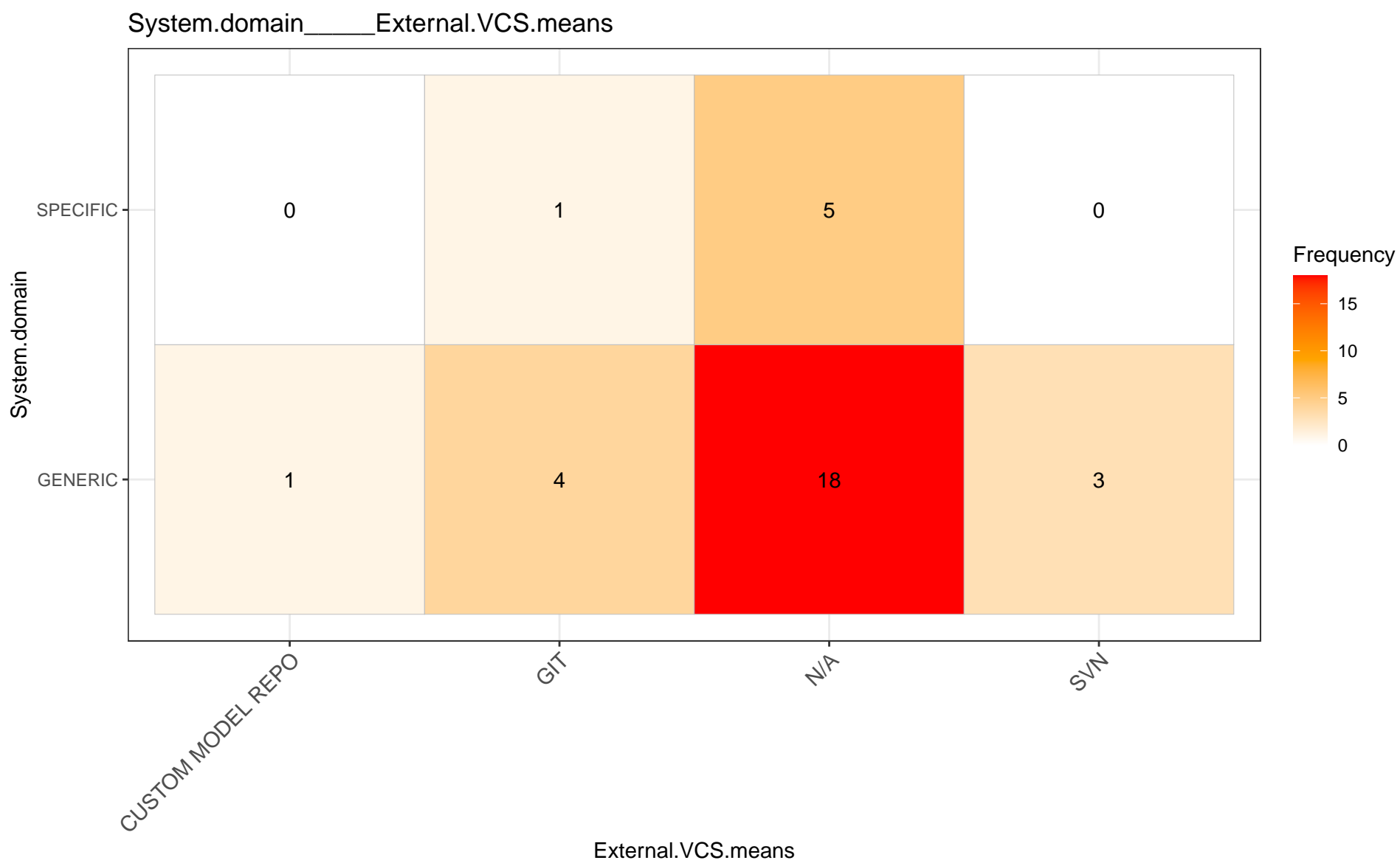
DISTRIBUTED

N/A

VCS.architecture

Frequency





System.domain____Branching

System.domain

SPECIFIC

1

5

GENERIC

2

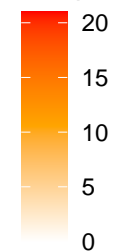
21

MULTI-BRANCHING

NO

Branching

Frequency



System.domain_____Model.merging.support

System.domain

SPECIFIC

5

1

GENERIC

17

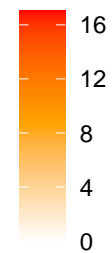
6

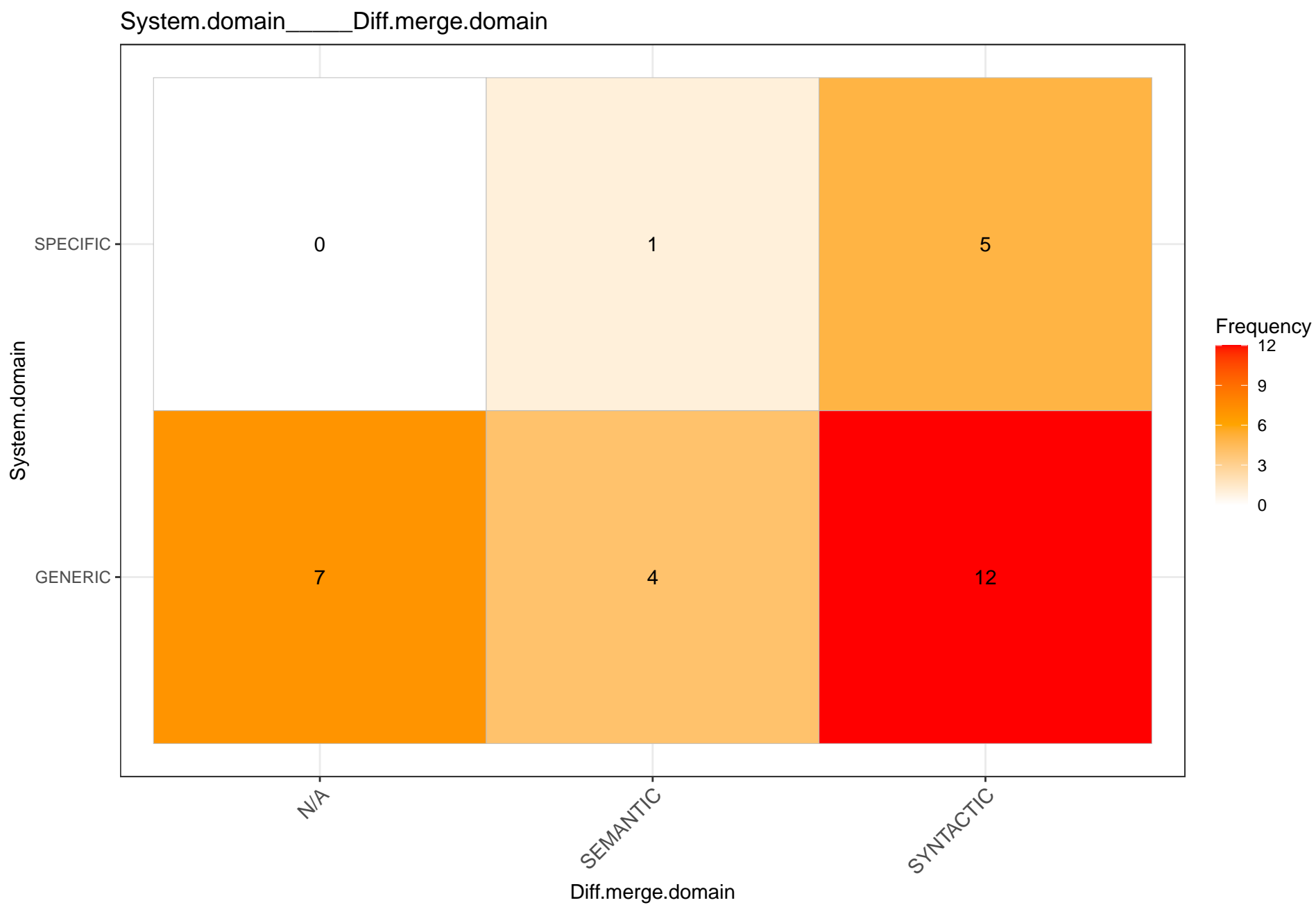
NO

YES

Model.merging.support

Frequency





System.domain_____Conflict.mgmt.approach

System.domain

SPECIFIC

3

2

1

GENERIC

8

8

7

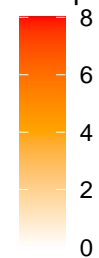
ALLOW&RESOLVE

NO

PREVENTIVE

Conflict.mgmt.approach

Frequency



System.domain_____Conflict.detection

System.domain

SPECIFIC

4

2

0

GENERIC

9

14

7

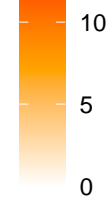
NO

YES

YES: INCREMENTAL

Conflict.detection

Frequency



System.domain_____Conflict.awareness..User.

System.domain

SPECIFIC

4

0

2

GENERIC

15

2

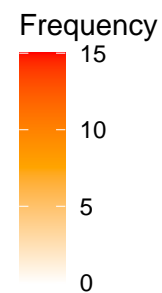
6

NO

PROMPT ACTION

WARNING

Conflict.awareness..User.



System.domain_____Conflict.resolution.support

System.domain

SPECIFIC

2

1

3

GENERIC

6

8

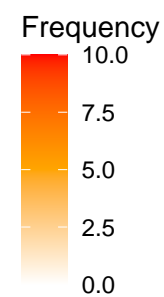
10

MANUAL

NO

SEMIAUTOMATED

Conflict.resolution.support



System.domain____Shared.workspace

System.domain

SPECIFIC

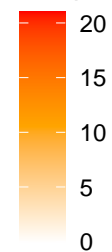
GENERIC

REMOTE

SAMEPLACE

Shared.workspace

Frequency

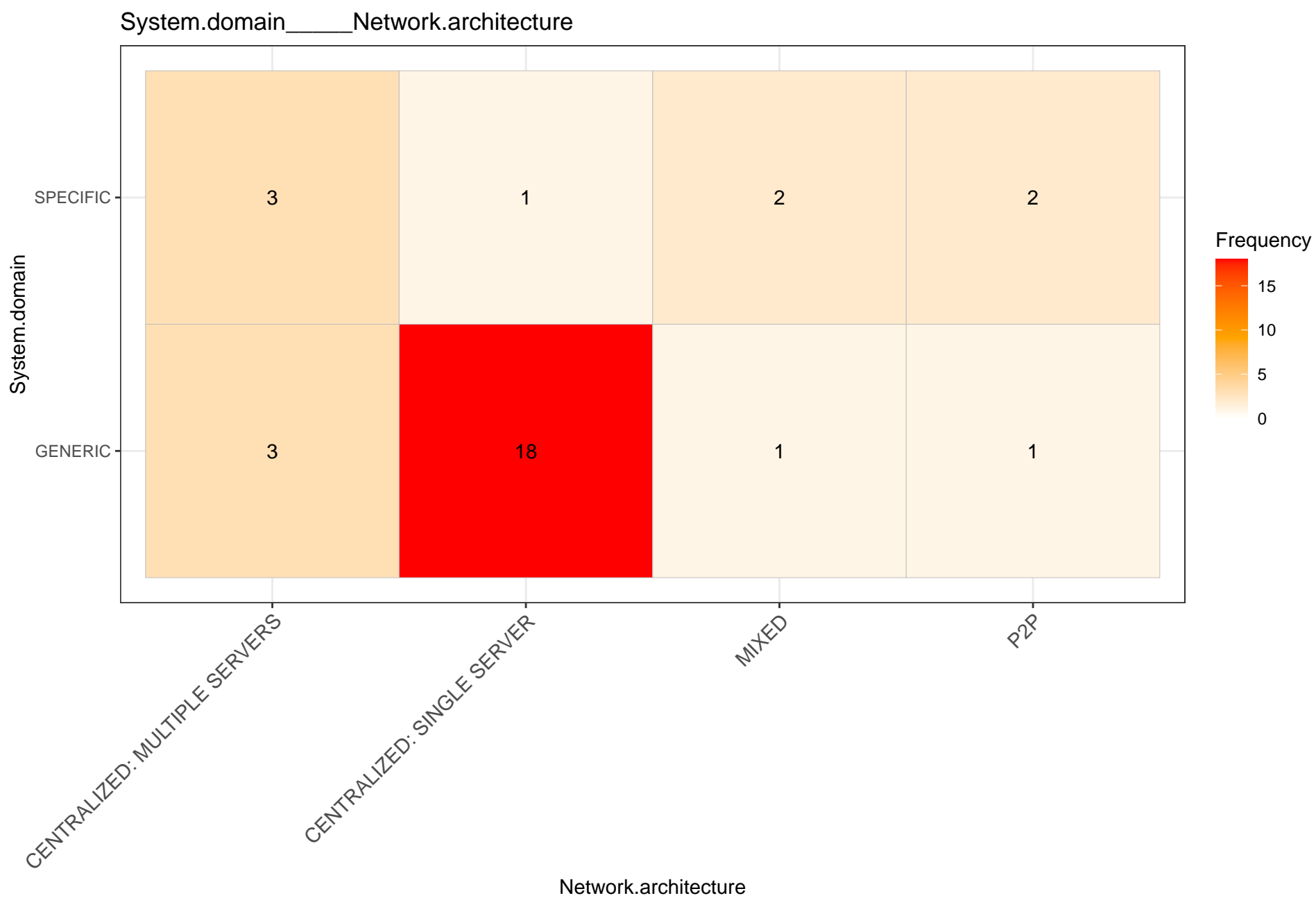


5

1

21

2



System.domain_____Communication.type

System.domain

SPECIFIC

4

6

GENERIC

17

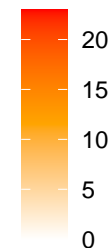
23

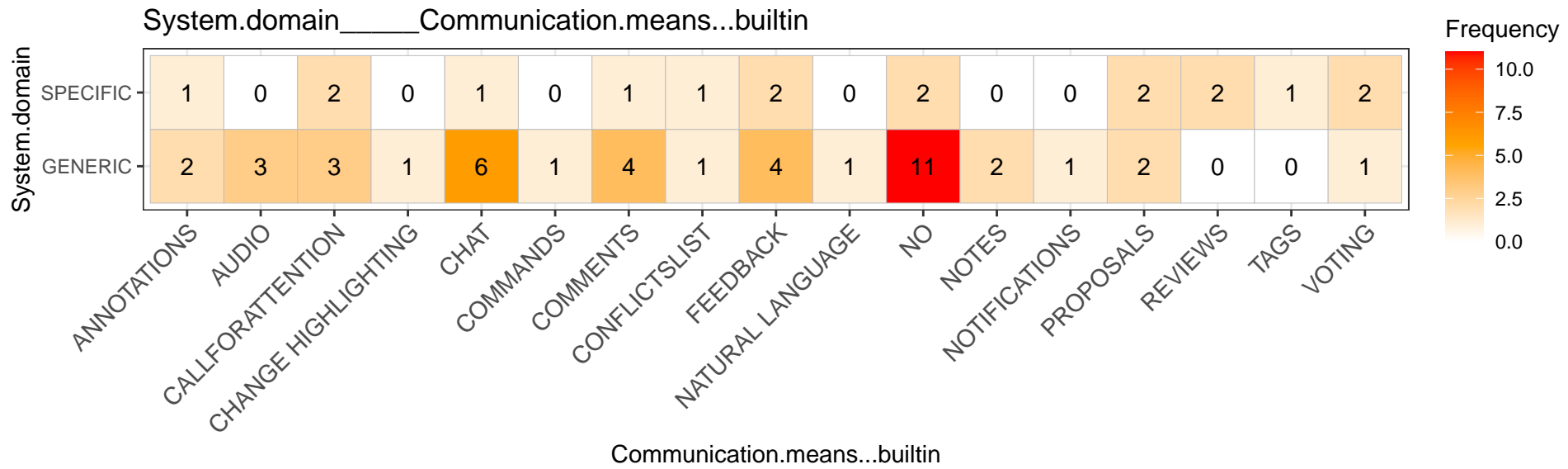
ASYNCHRONOUS

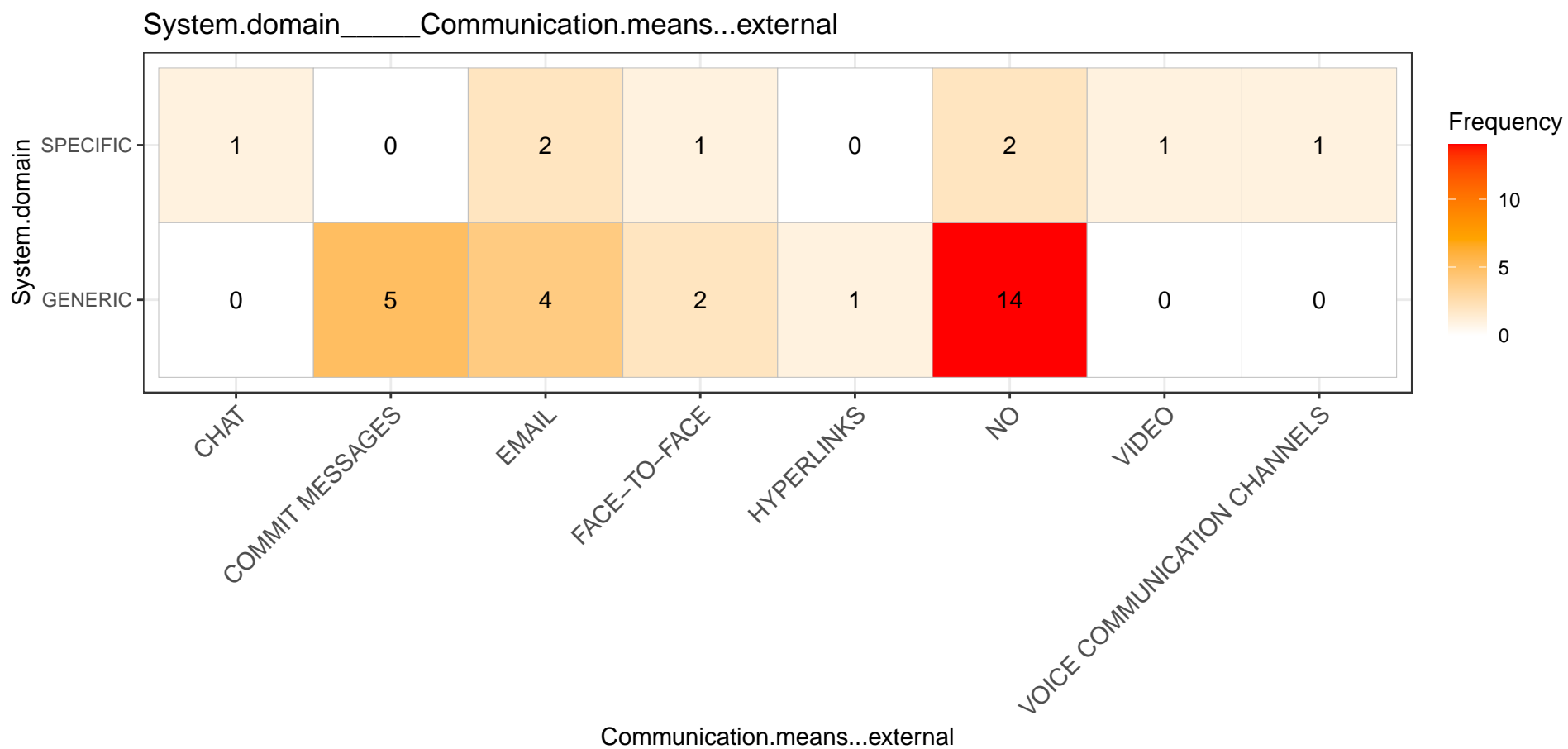
SYNCHRONOUS

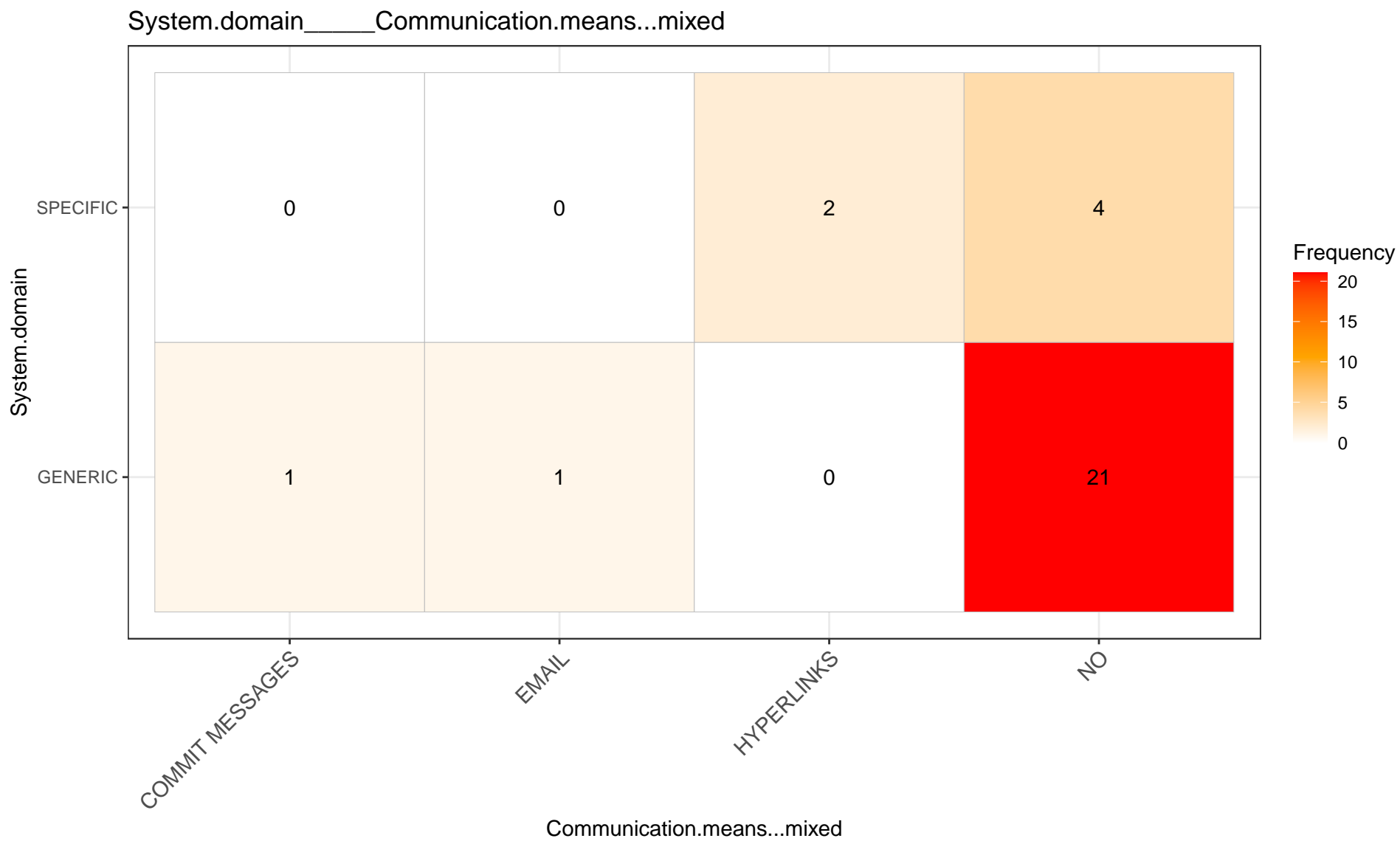
Communication.type

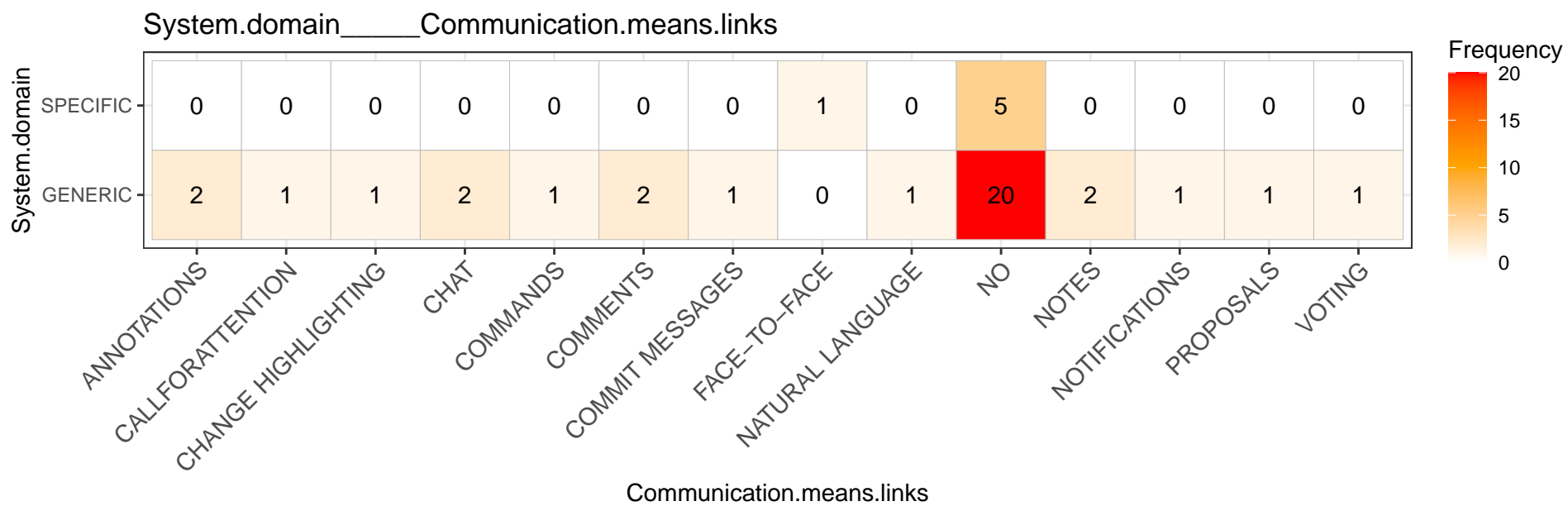
Frequency

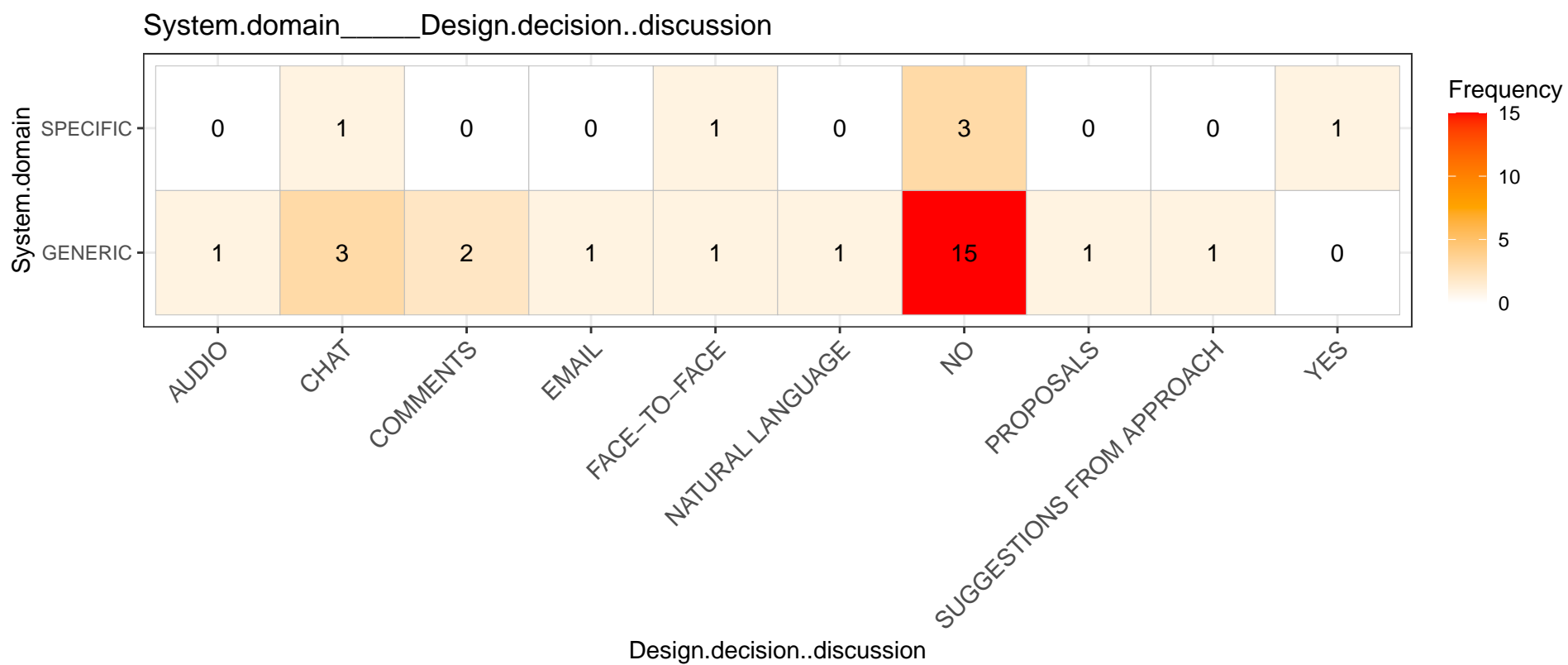


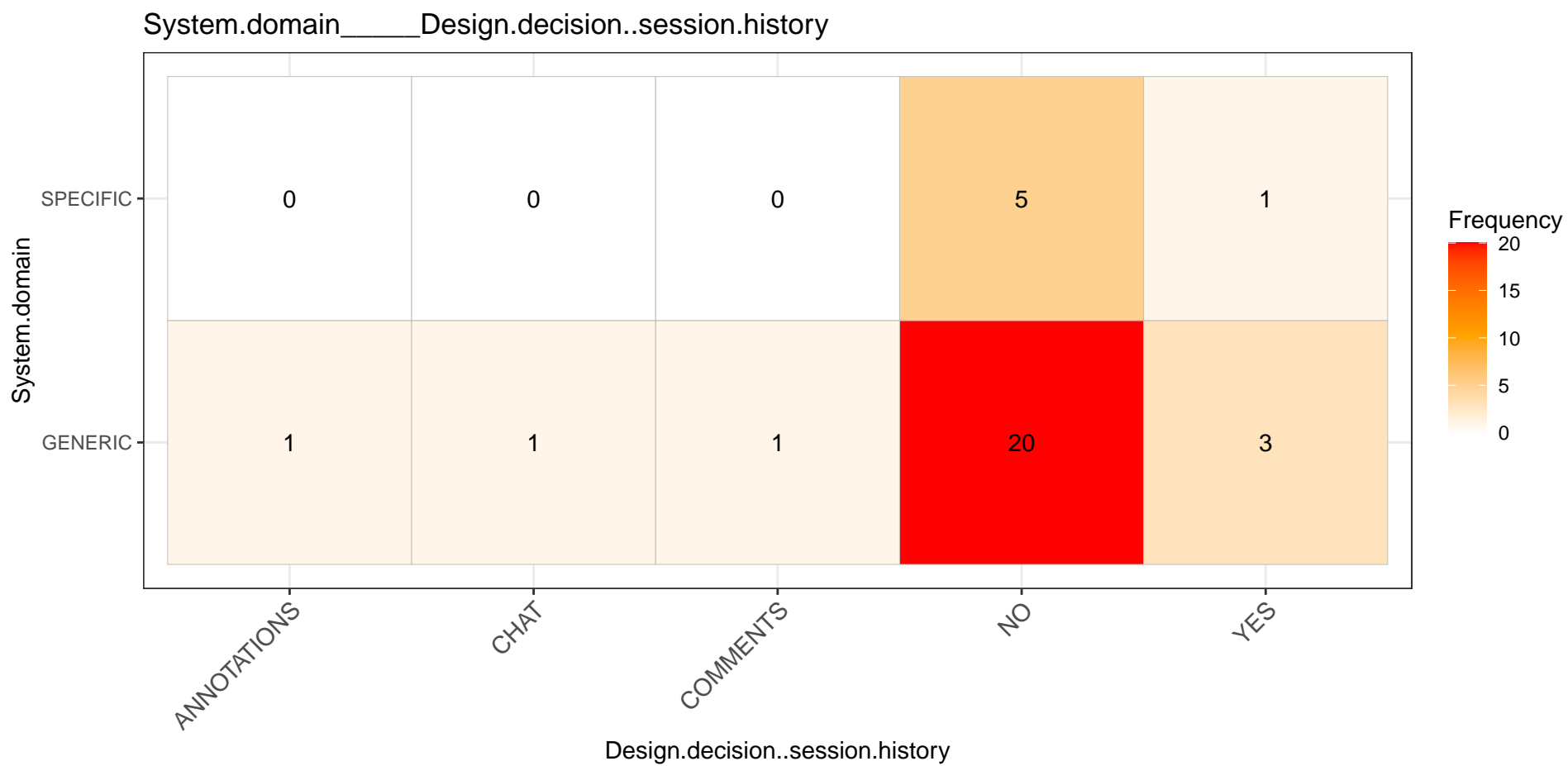












System.domain____Stakeholder.types

System.domain

SPECIFIC

4

6

GENERIC

7

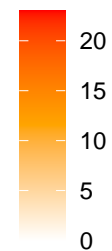
23

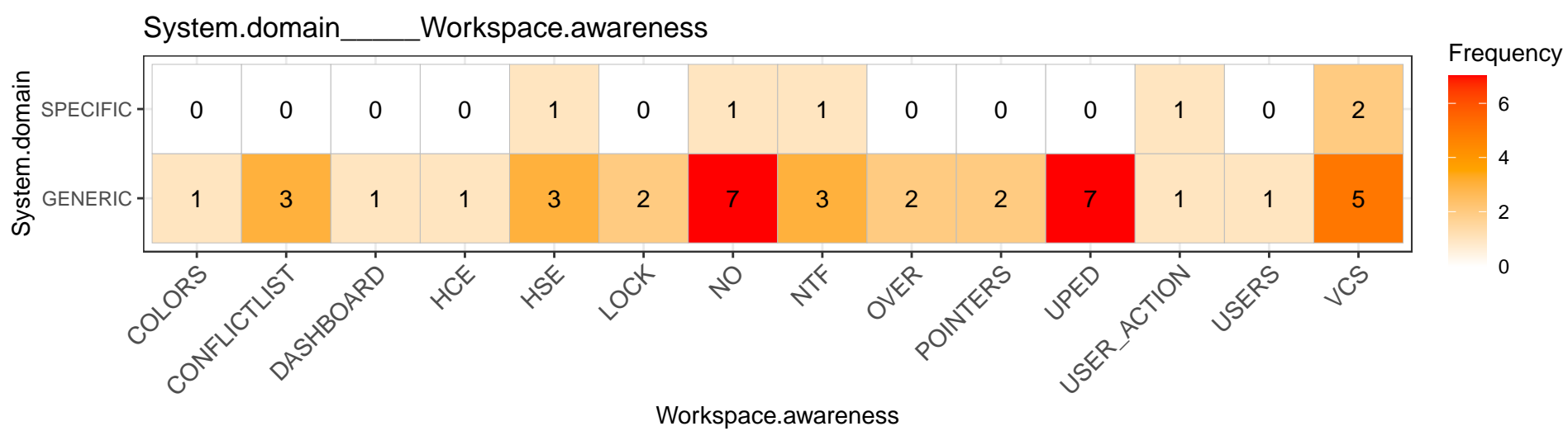
NONTECH

TECH

Stakeholder.types

Frequency





System.domain_____Workspace.awareness.score

System.domain

SPECIFIC

2

3

1

GENERIC

9

10

4

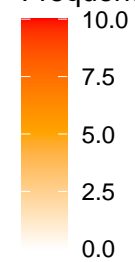
HIGH

LOW

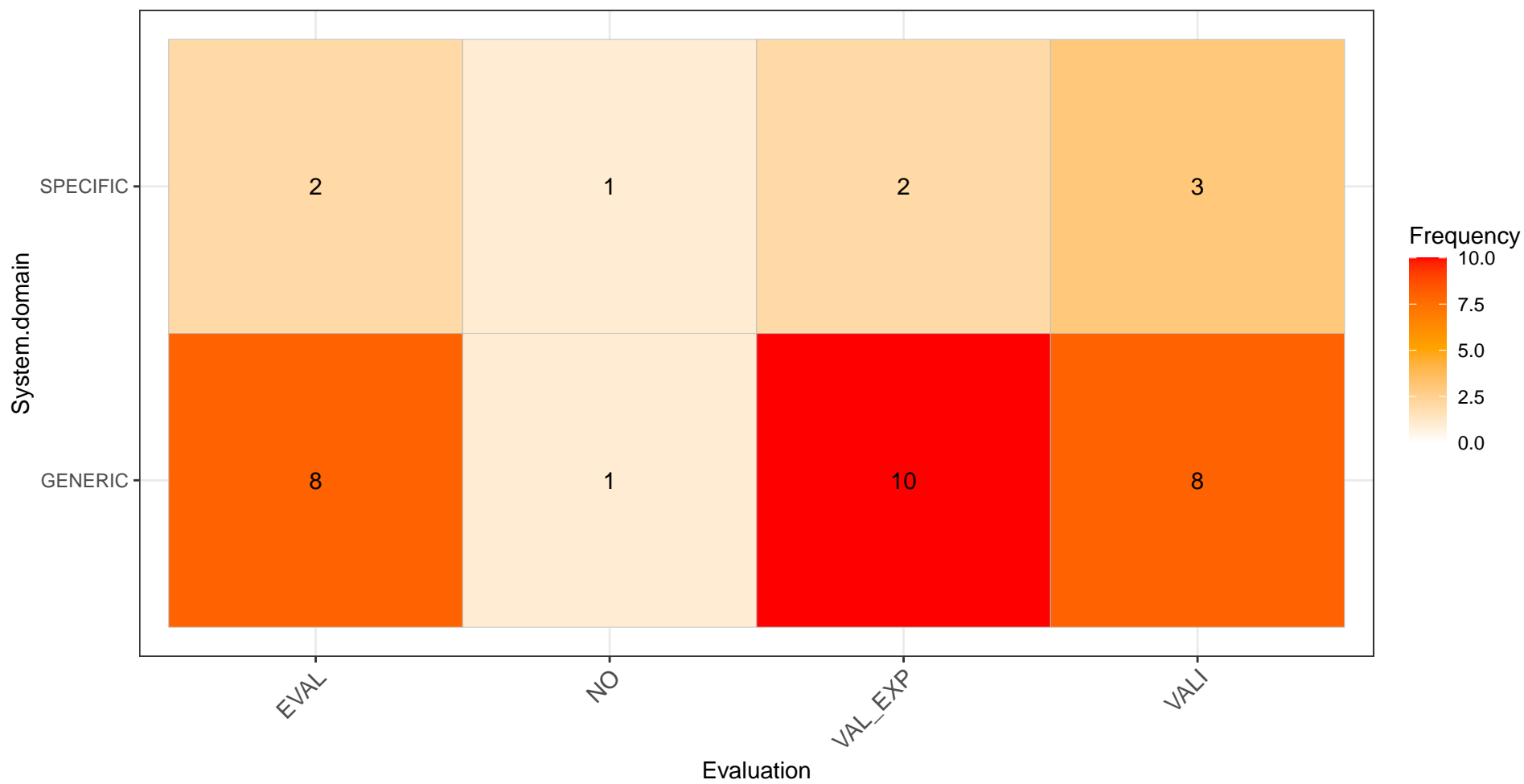
MED

Workspace.awareness.score

Frequency



System.domain____Evaluation



System.domain_____Tool.availability

System.domain

SPECIFIC

1

5

GENERIC

6

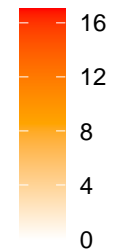
17

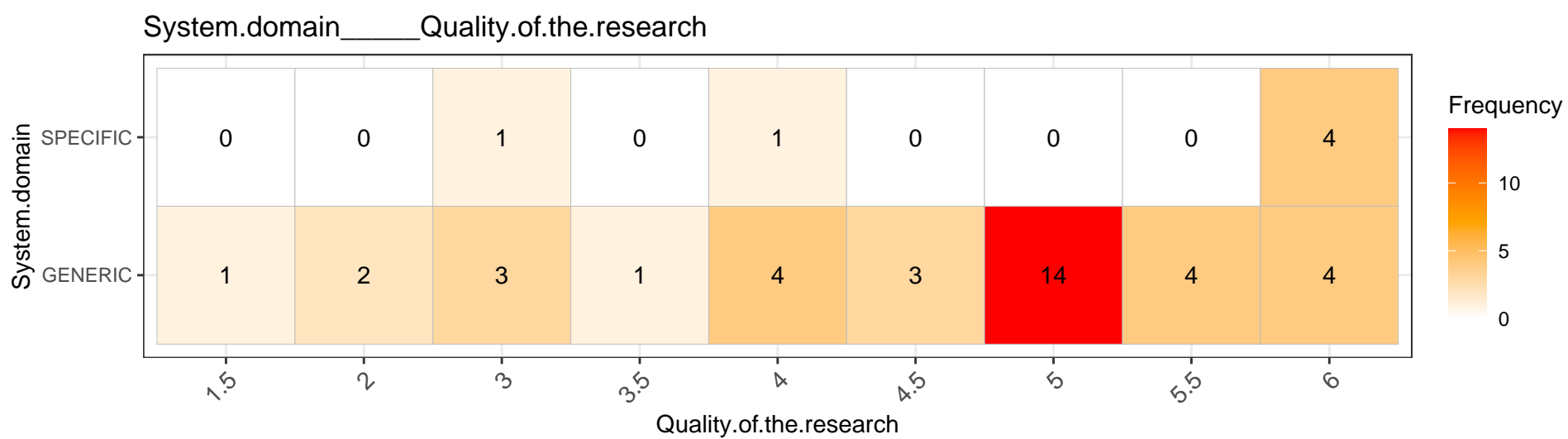
NO

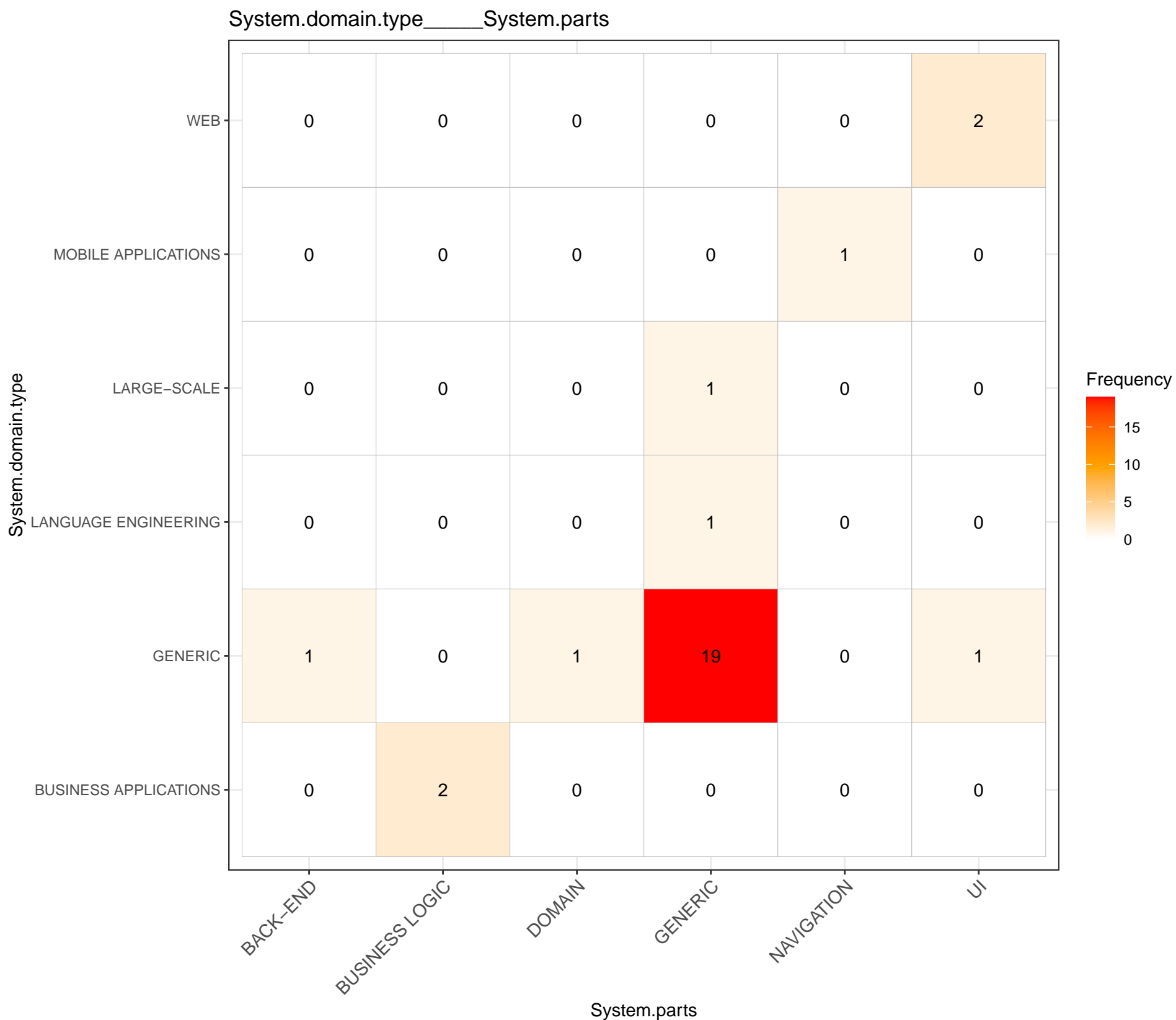
YES

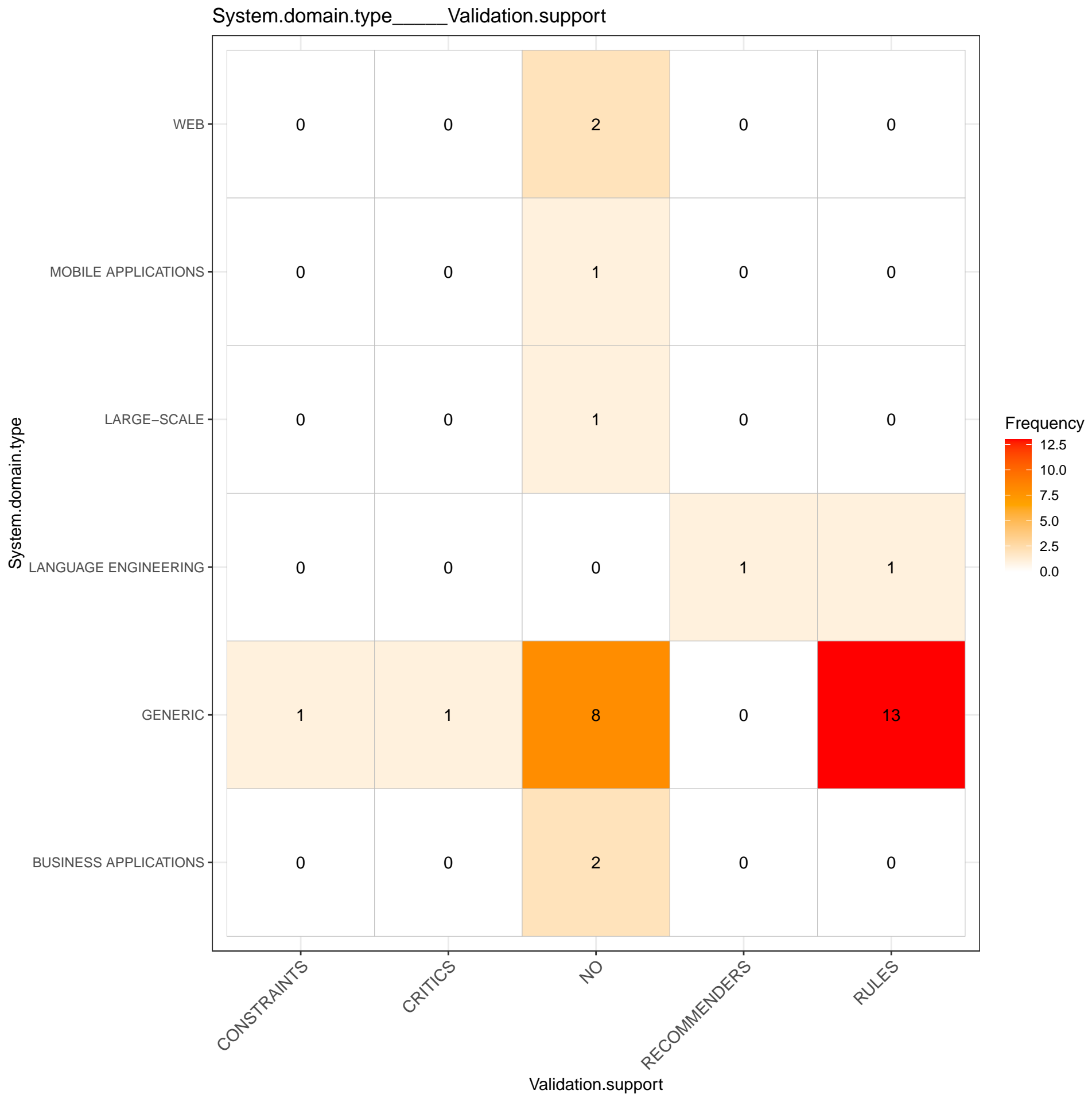
Tool.availability

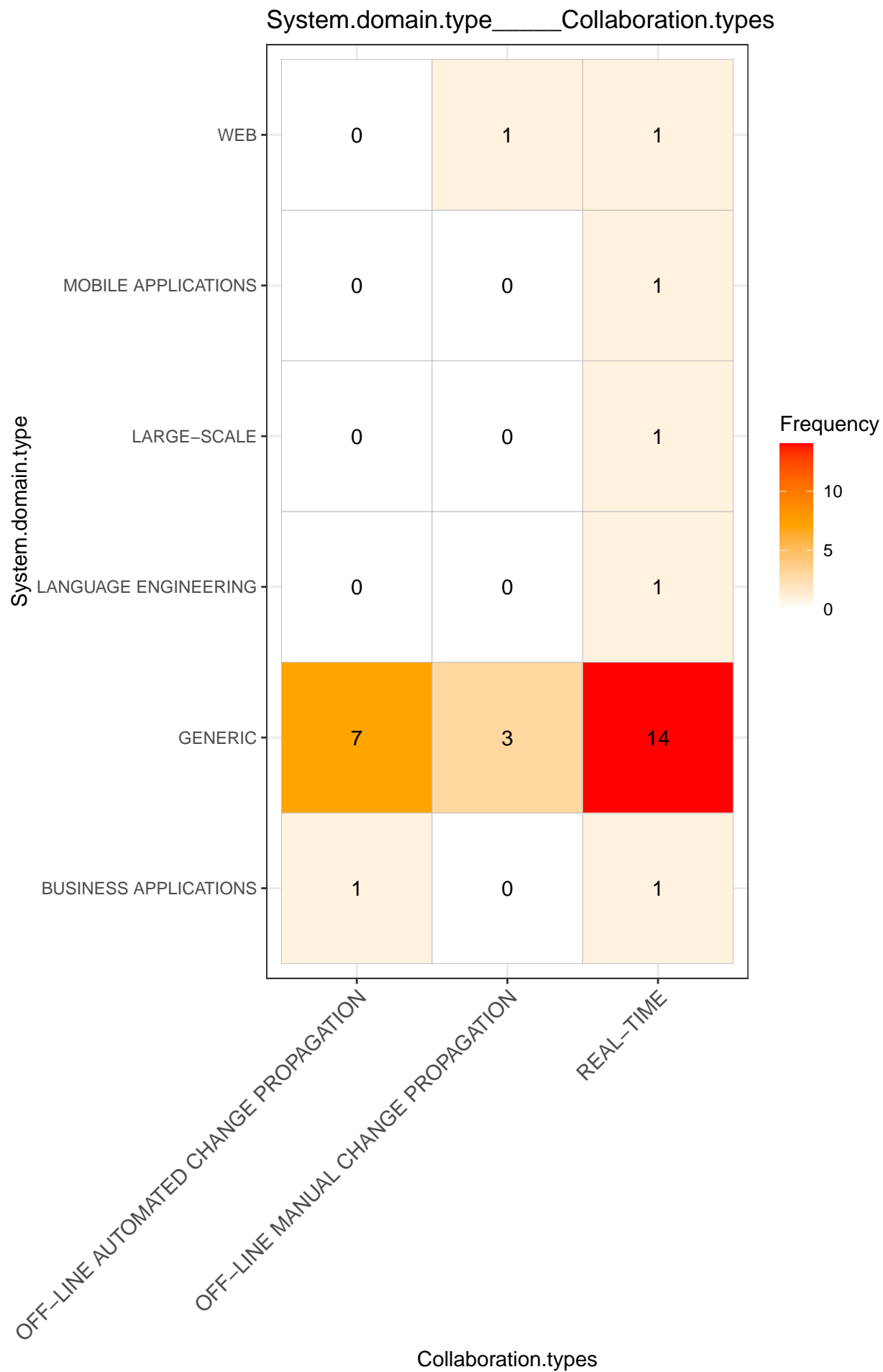
Frequency

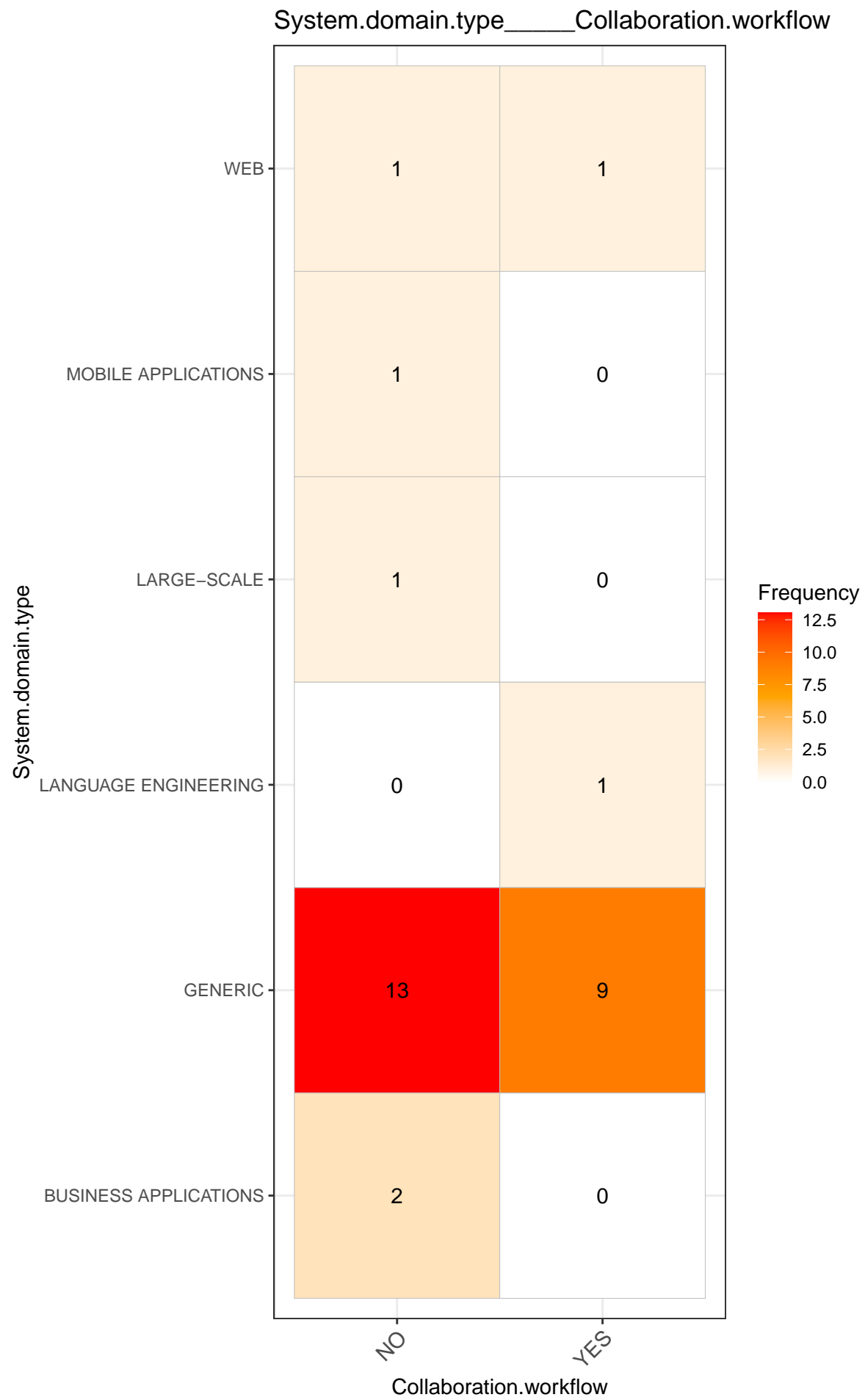


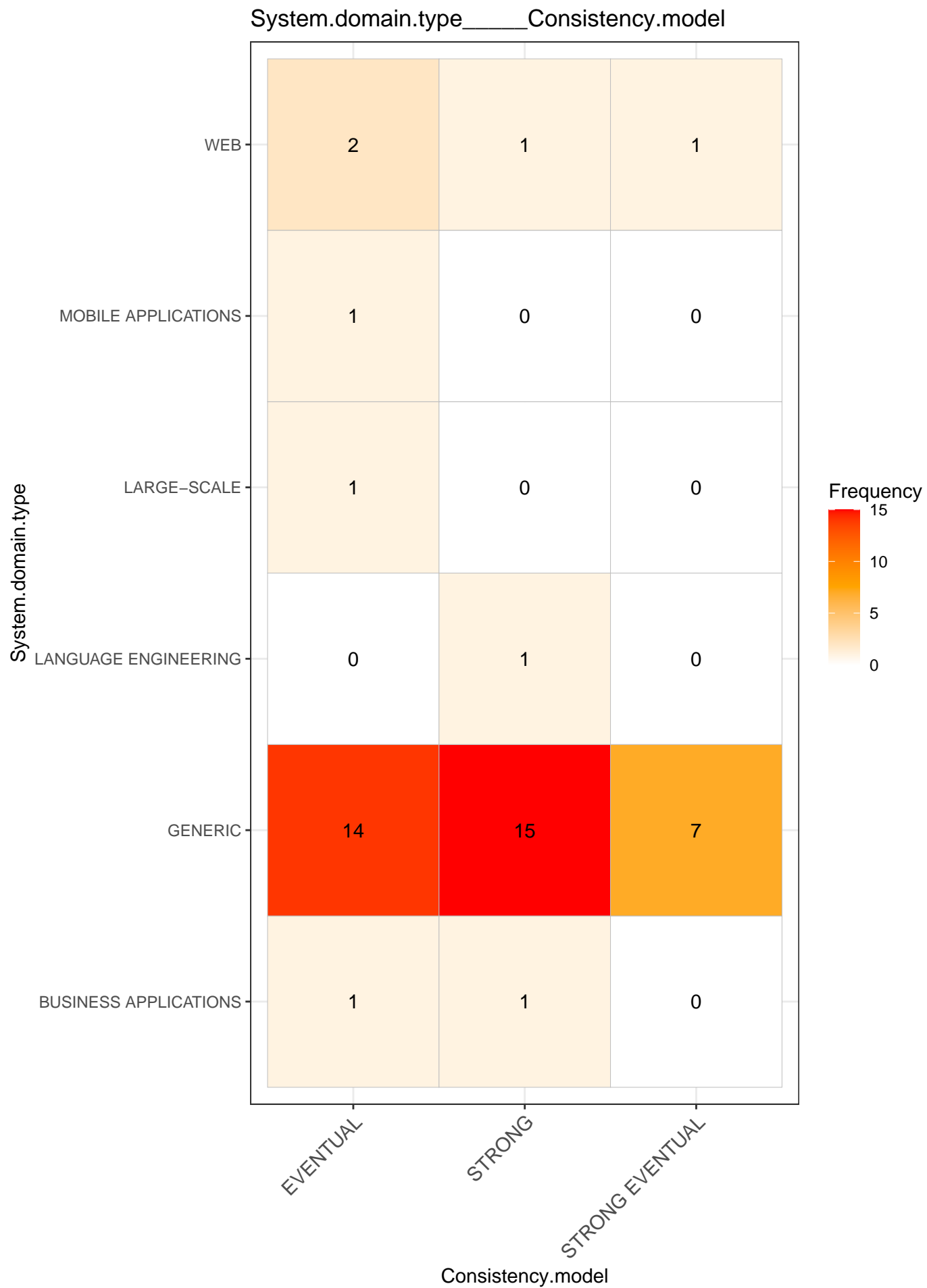


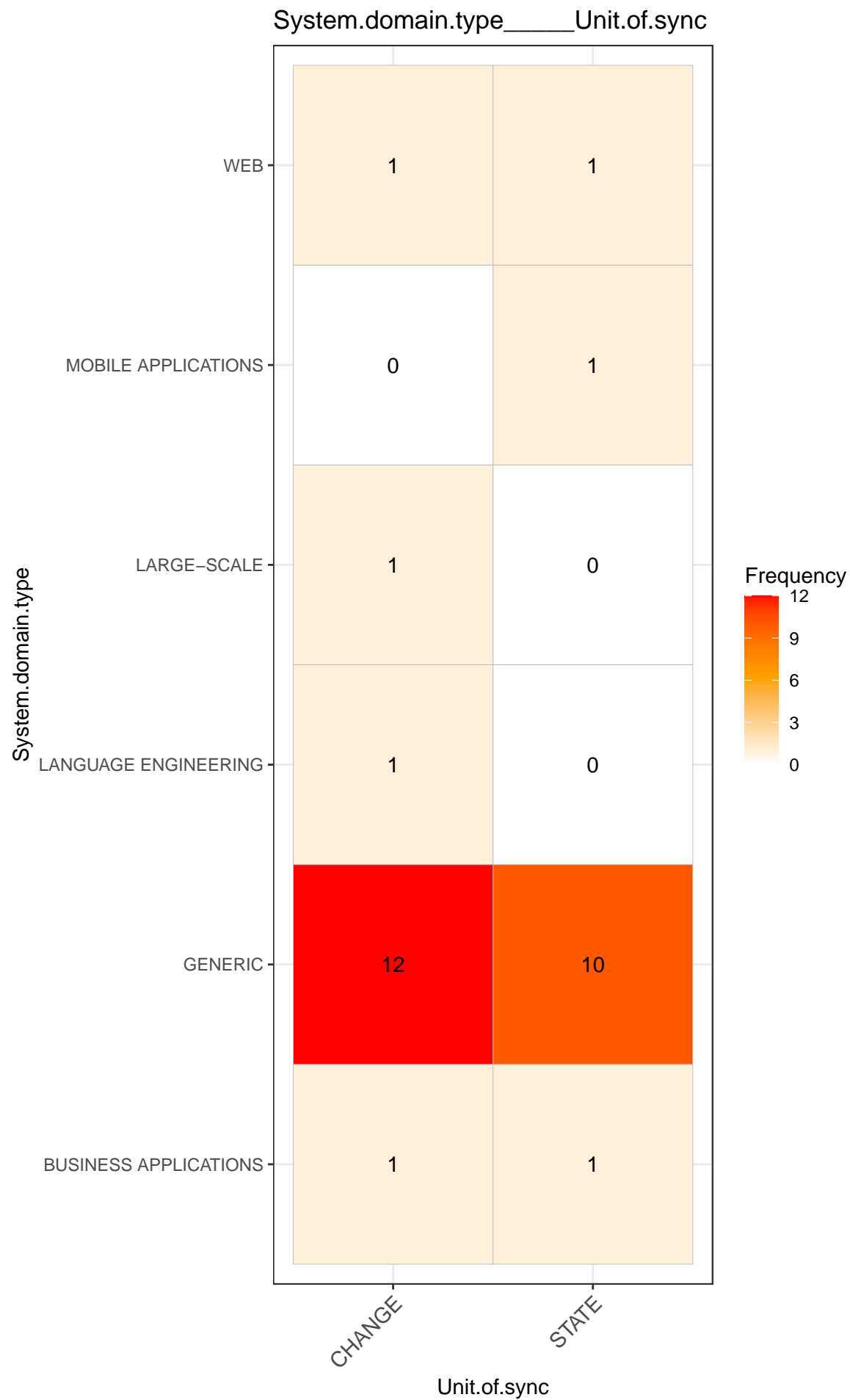


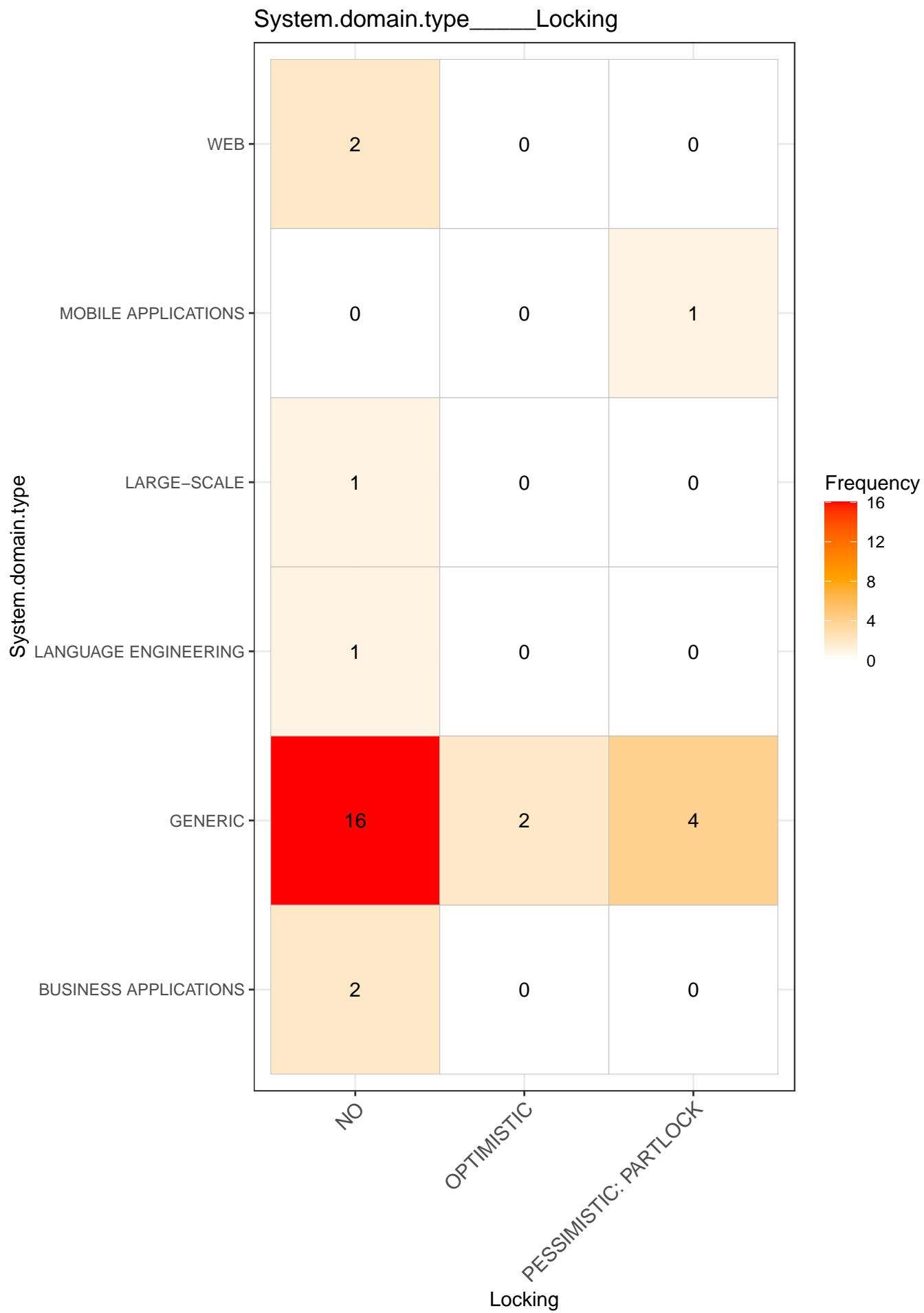


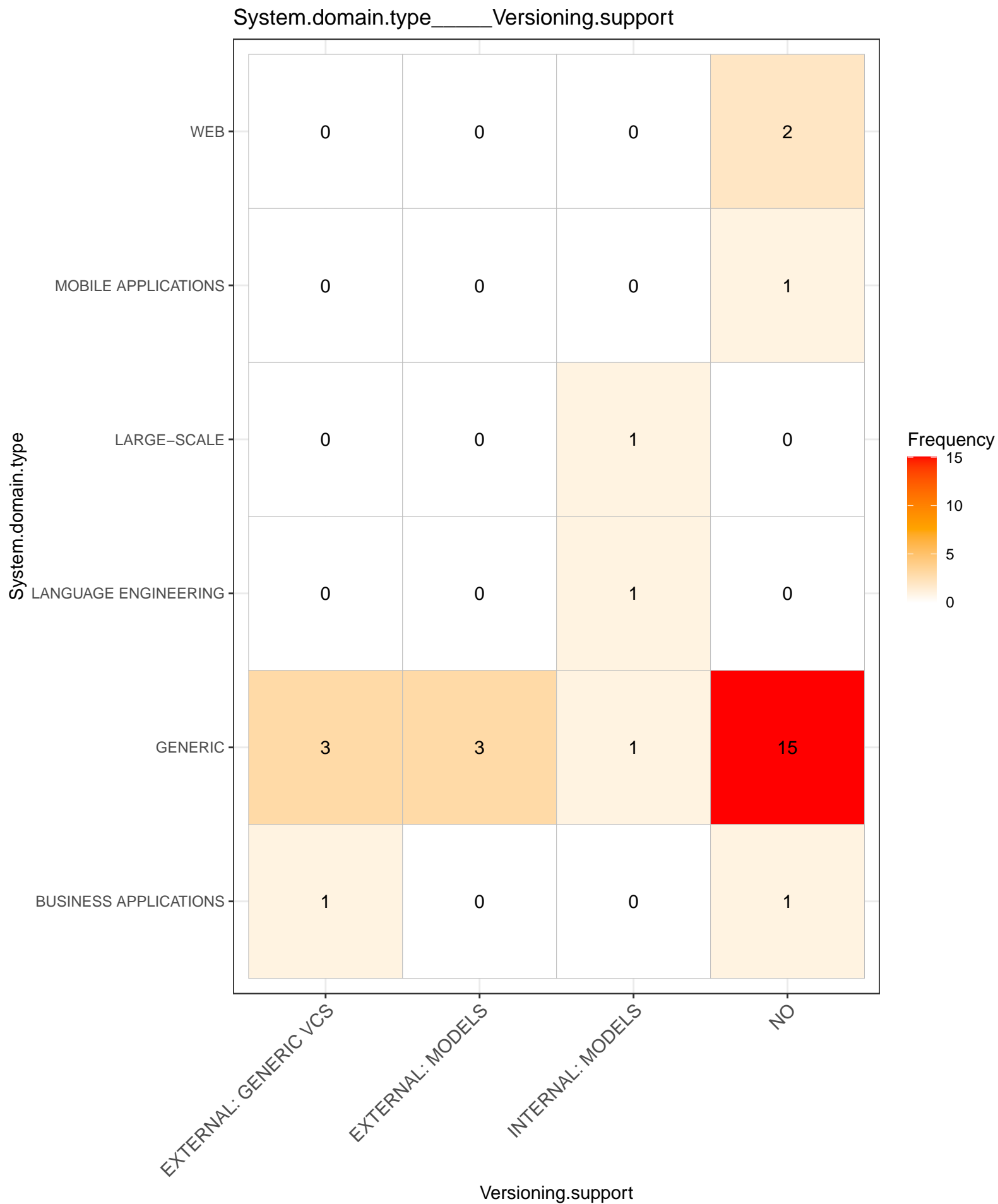






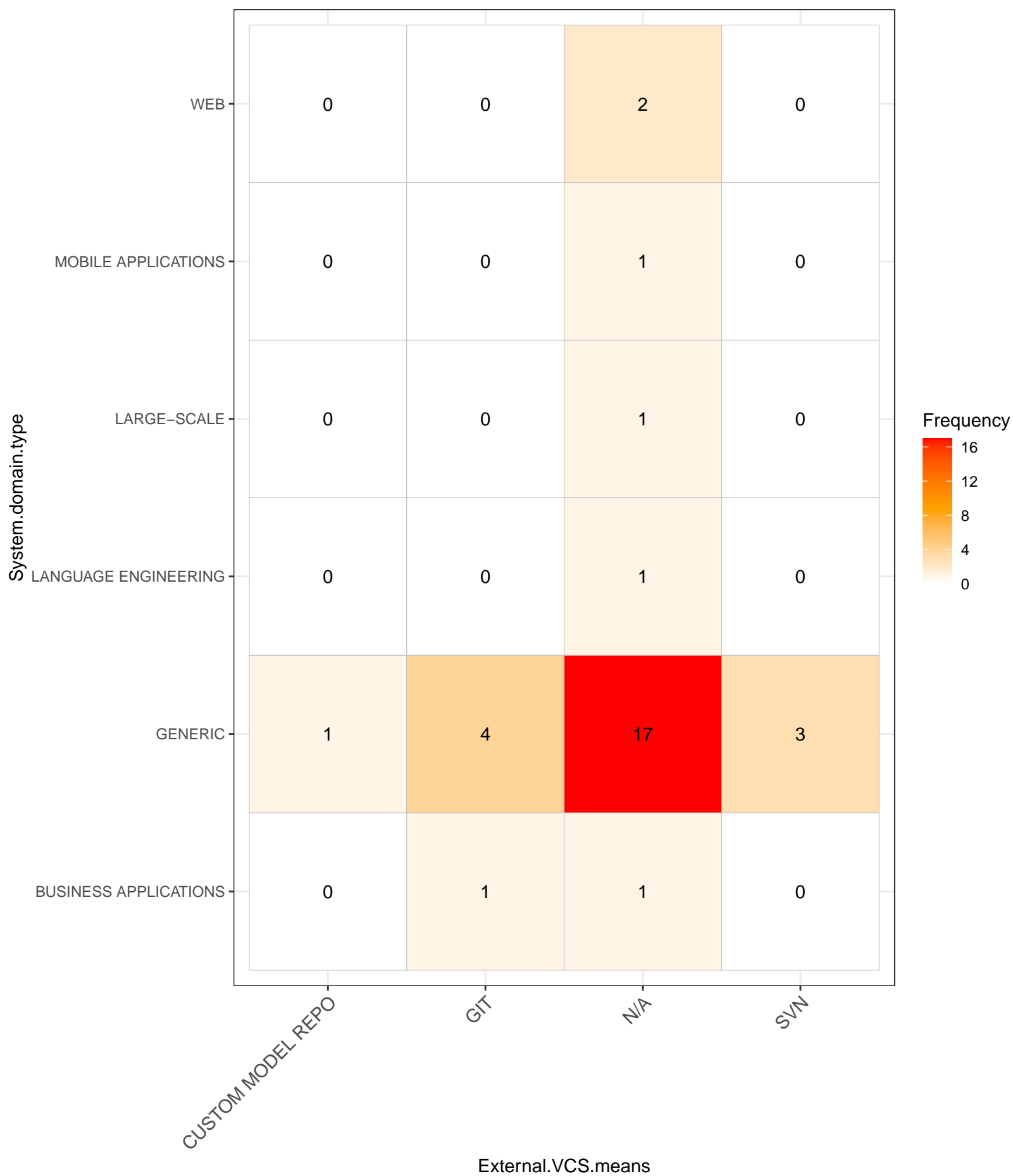


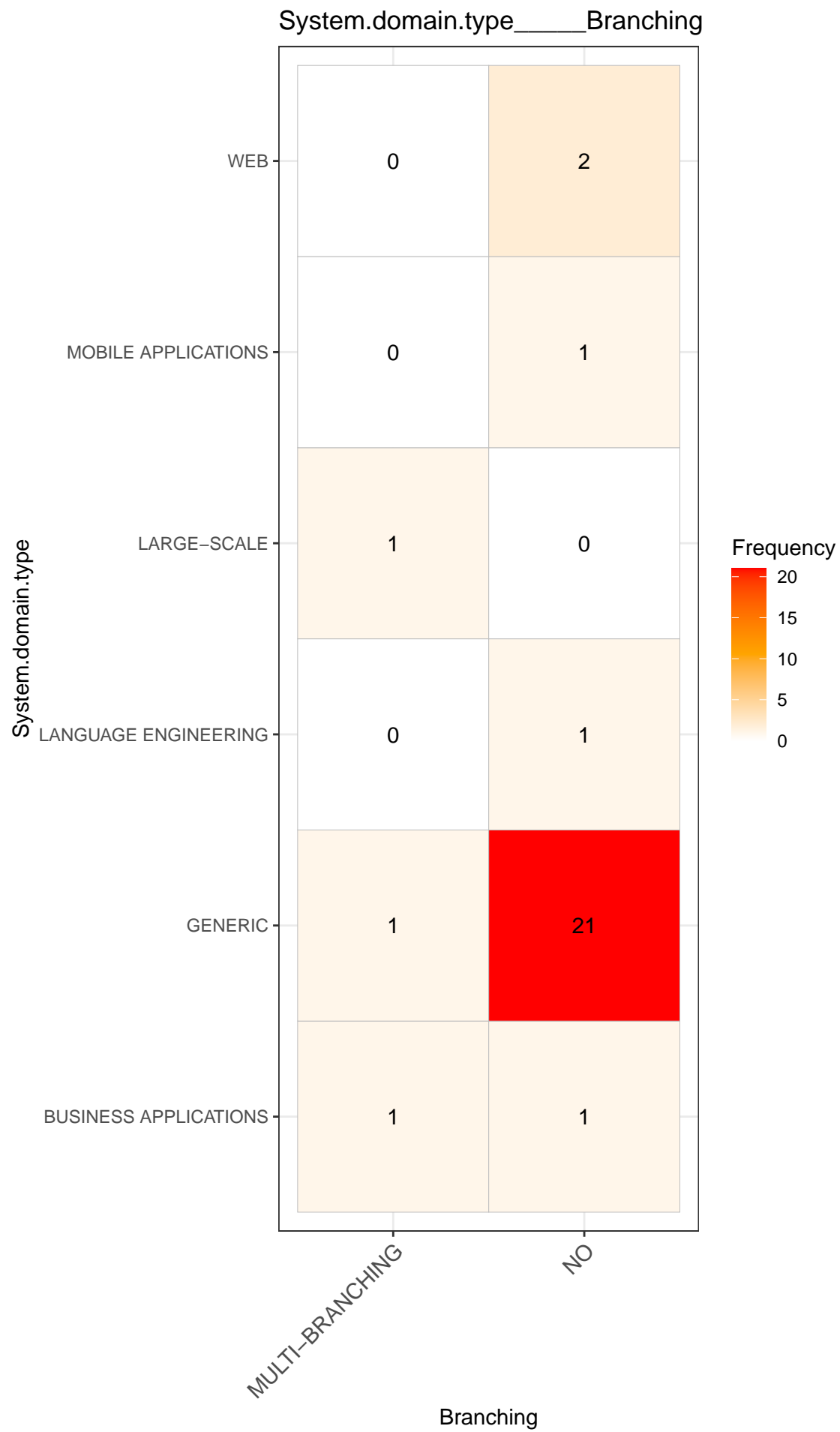


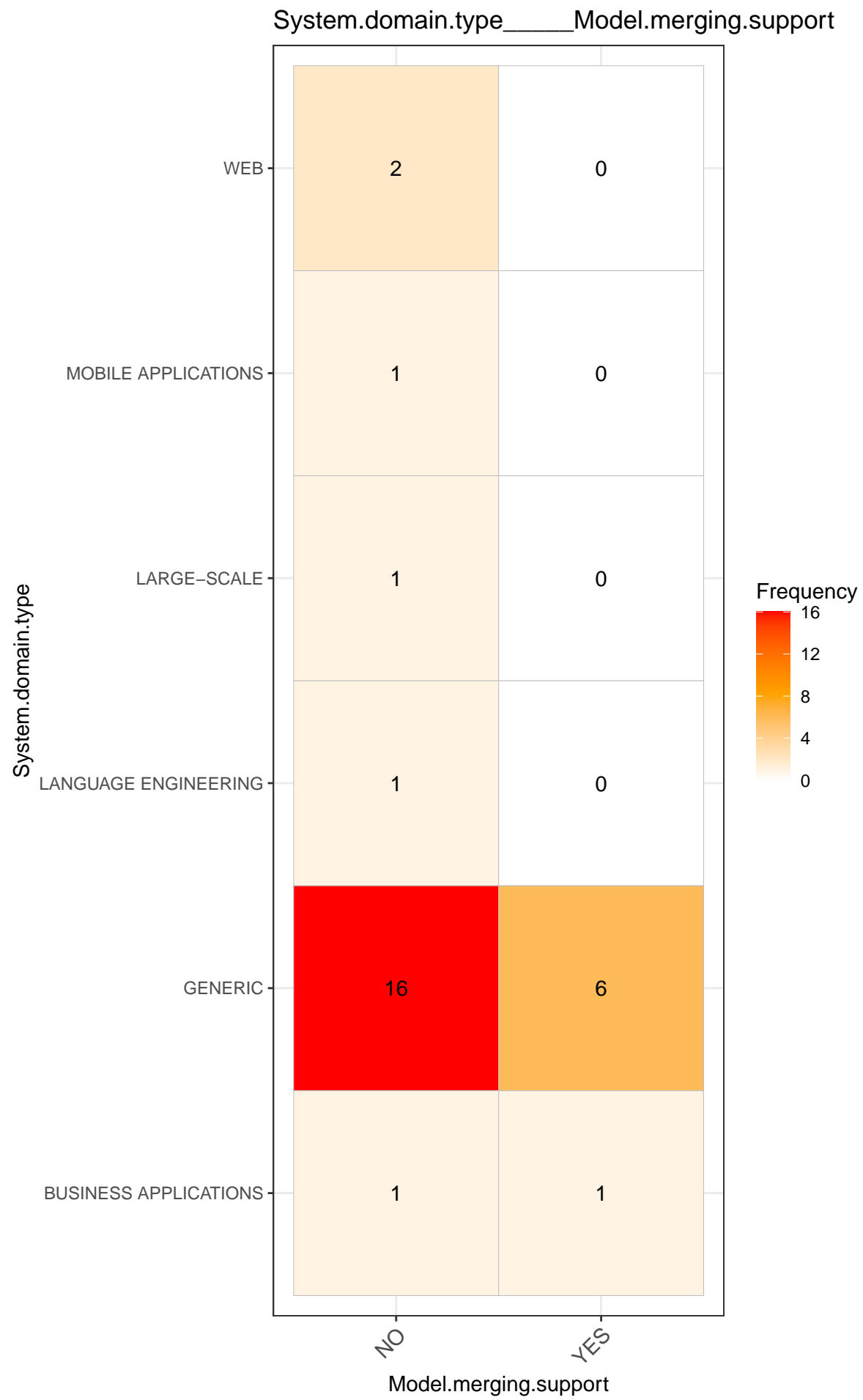


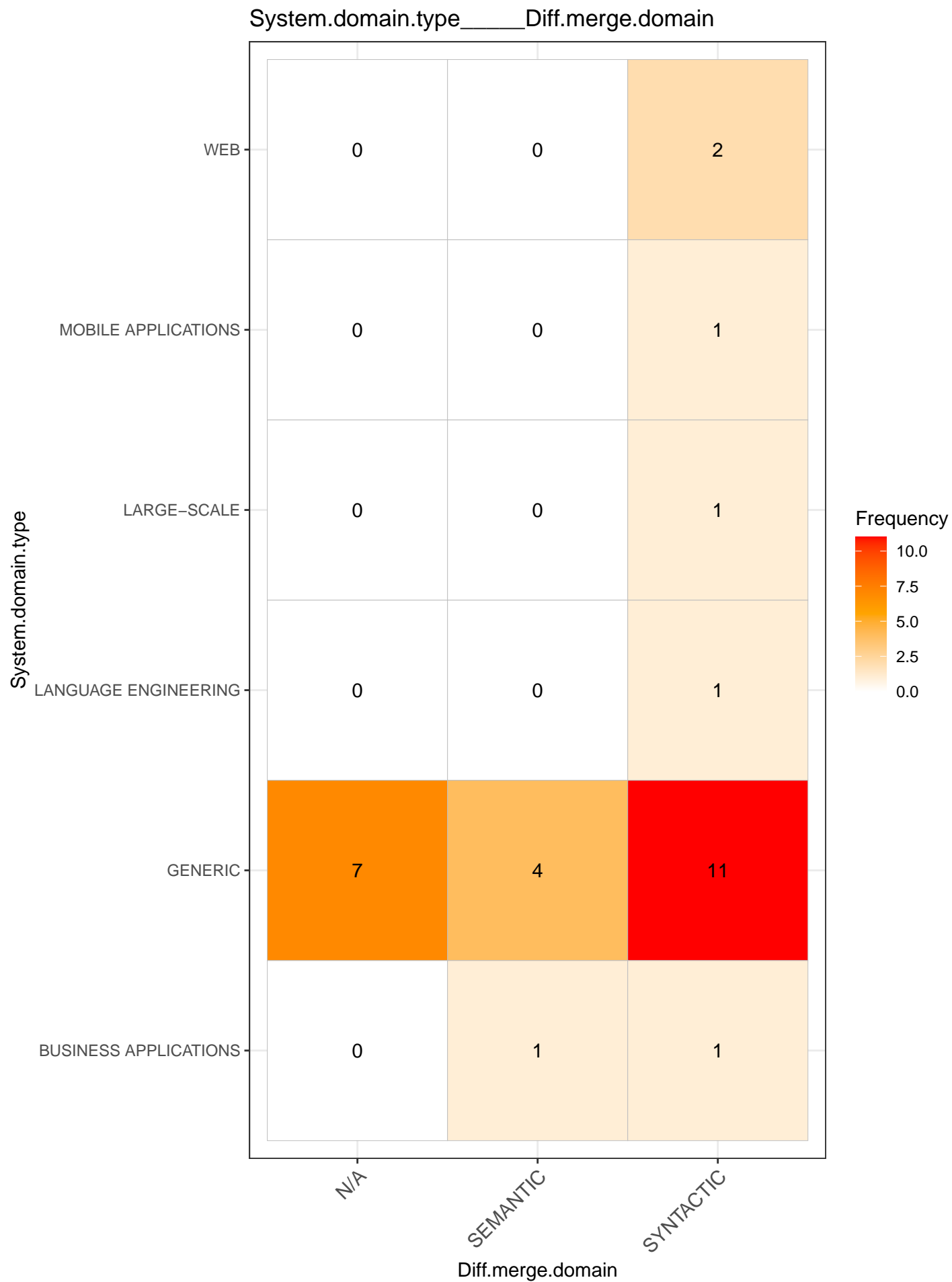


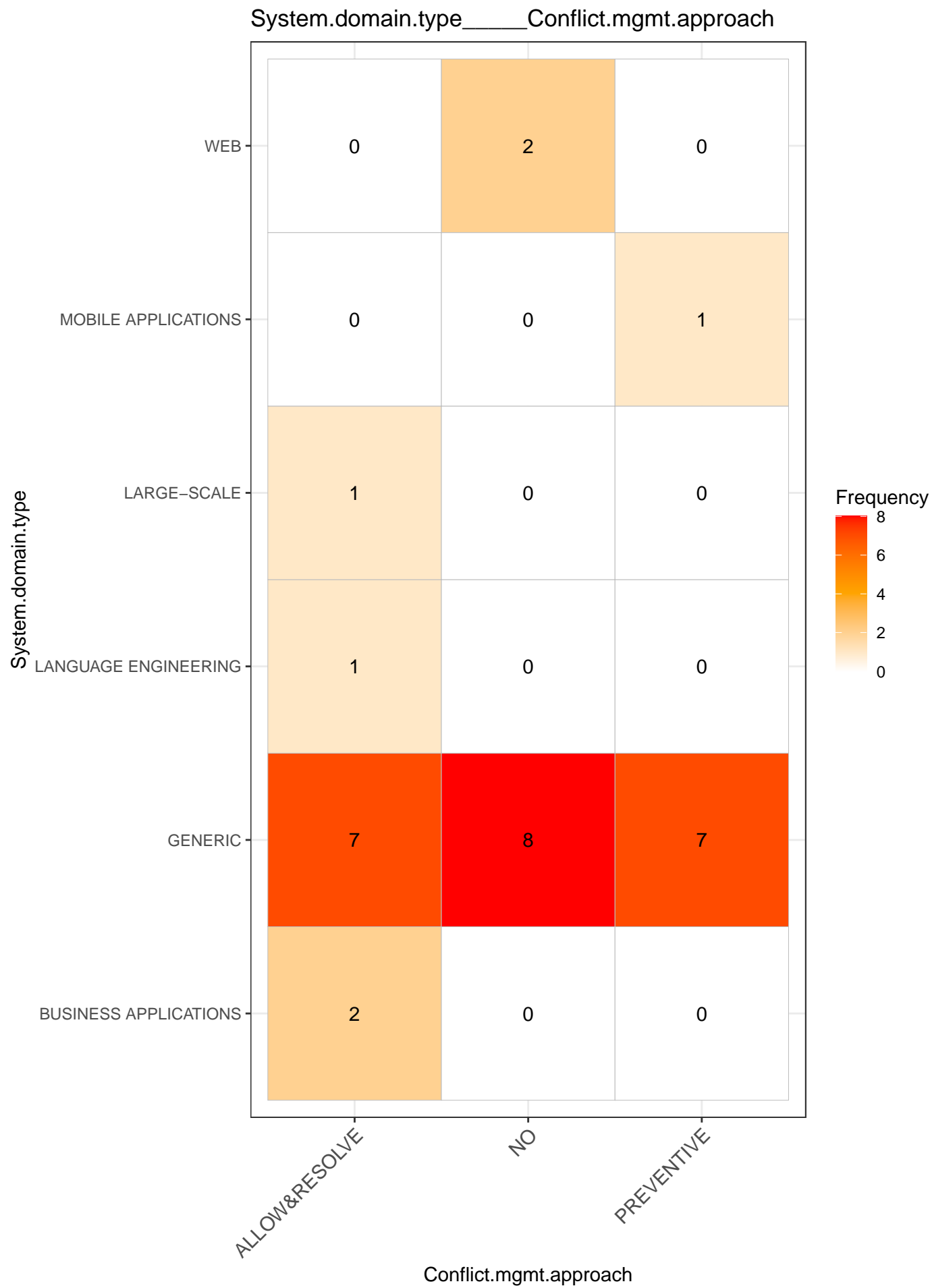
System.domain.type_____External.VCS.means

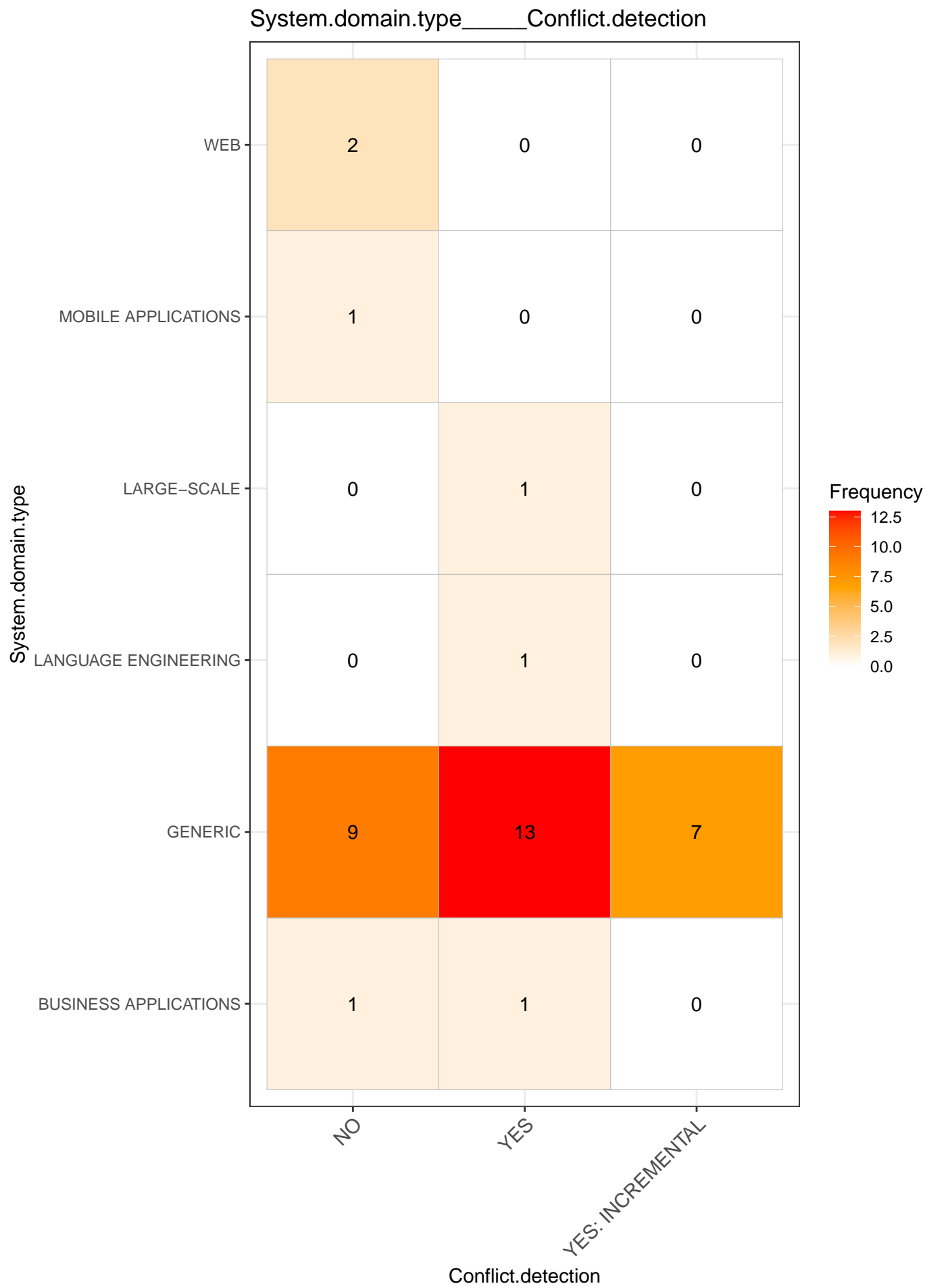


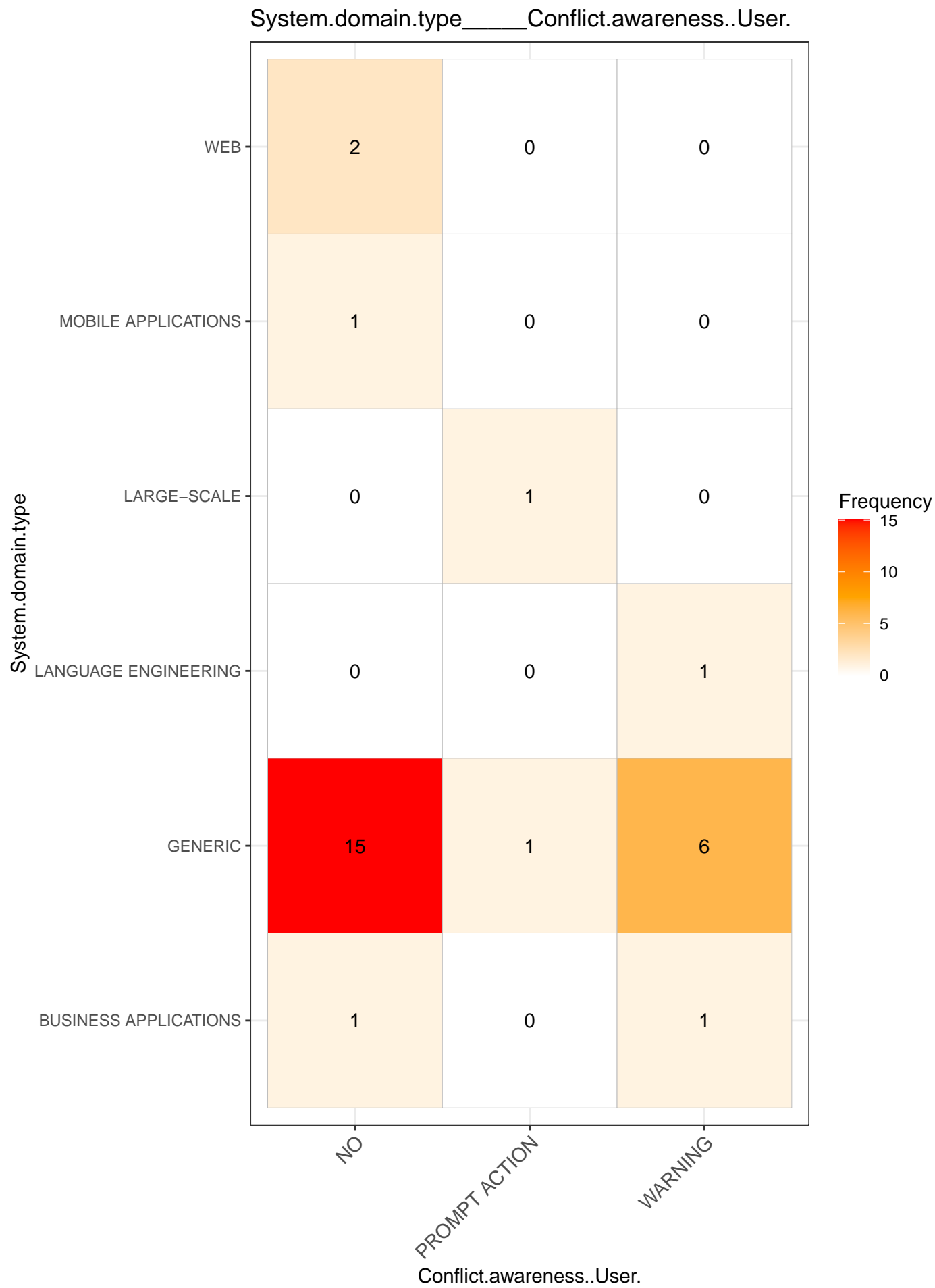


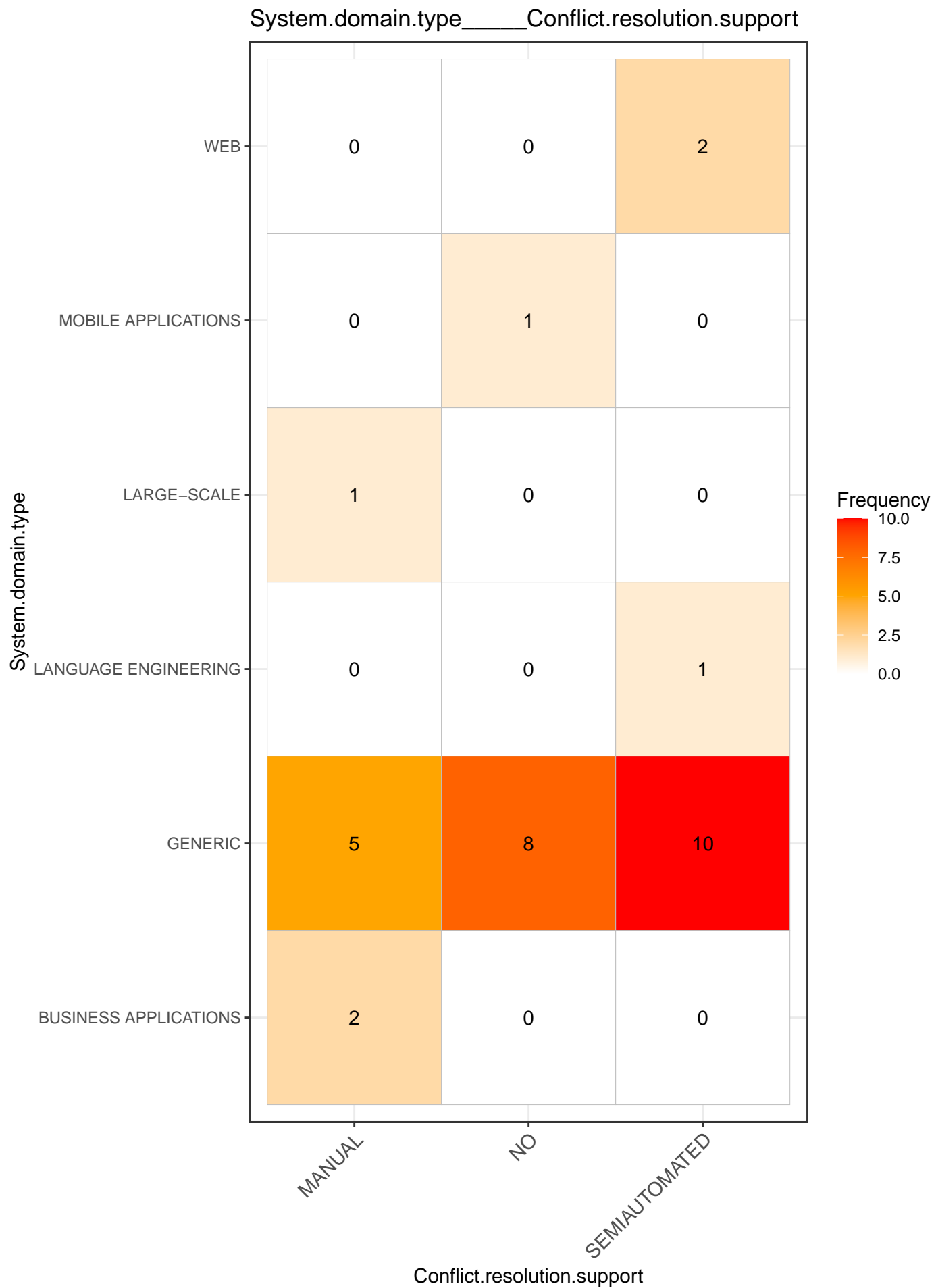


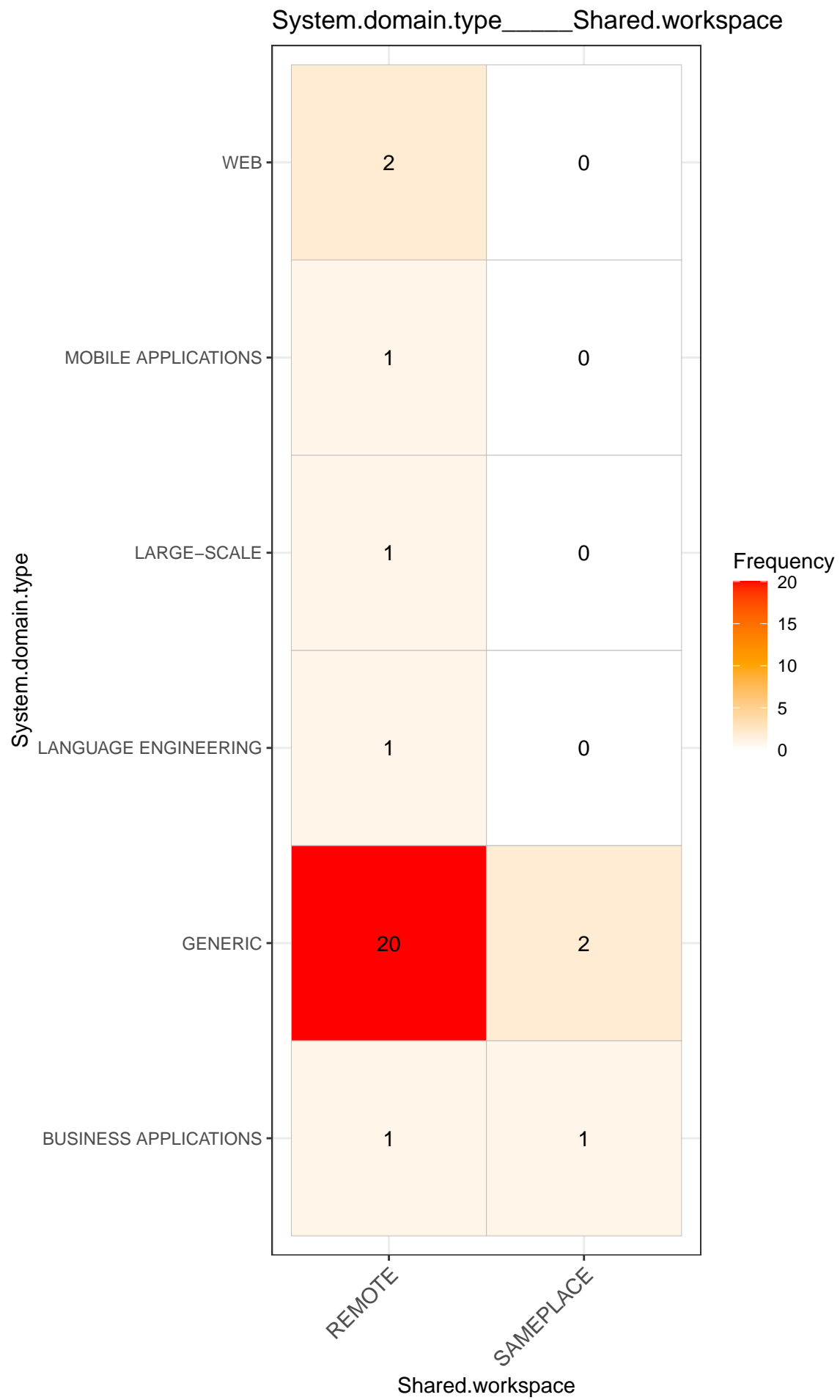


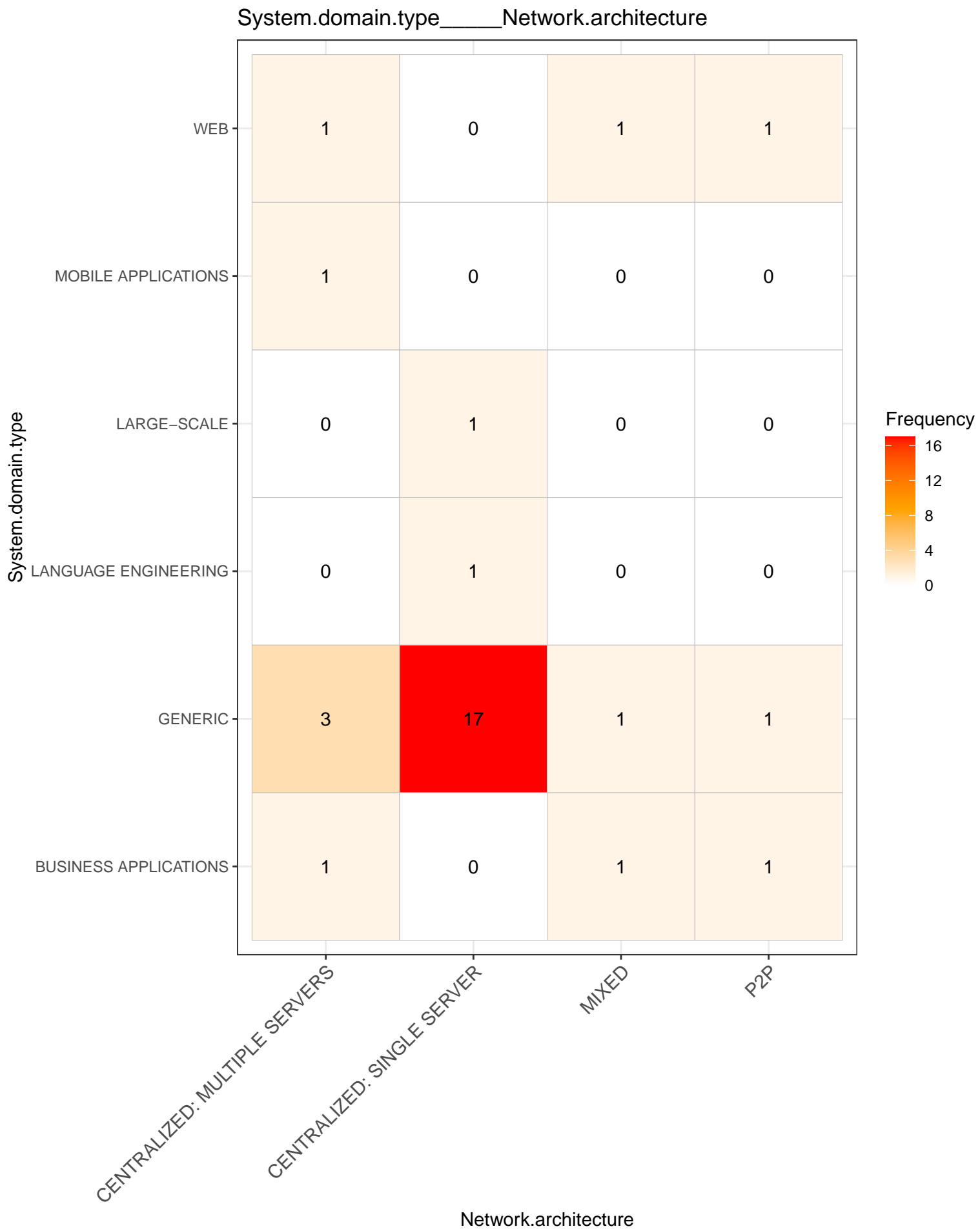


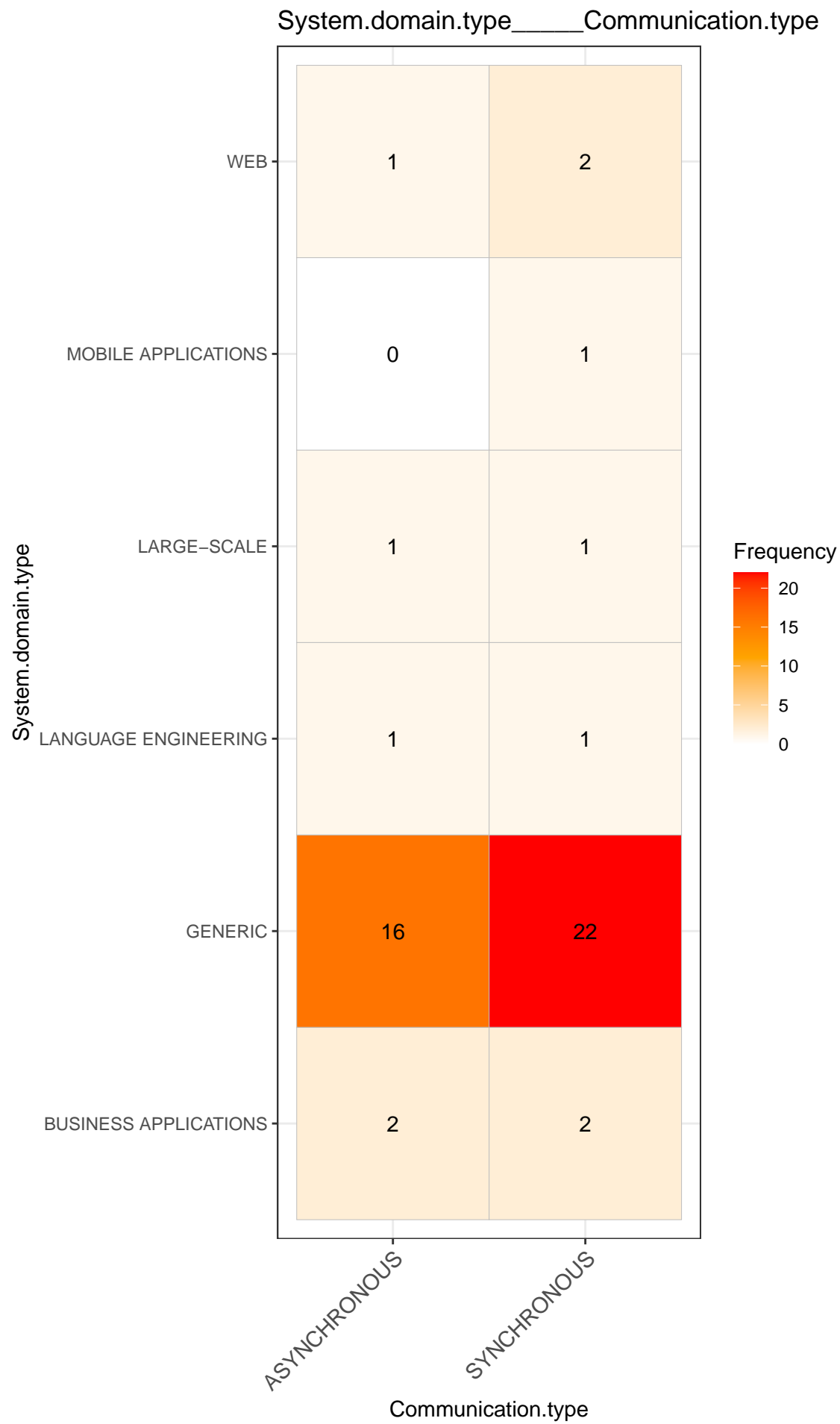


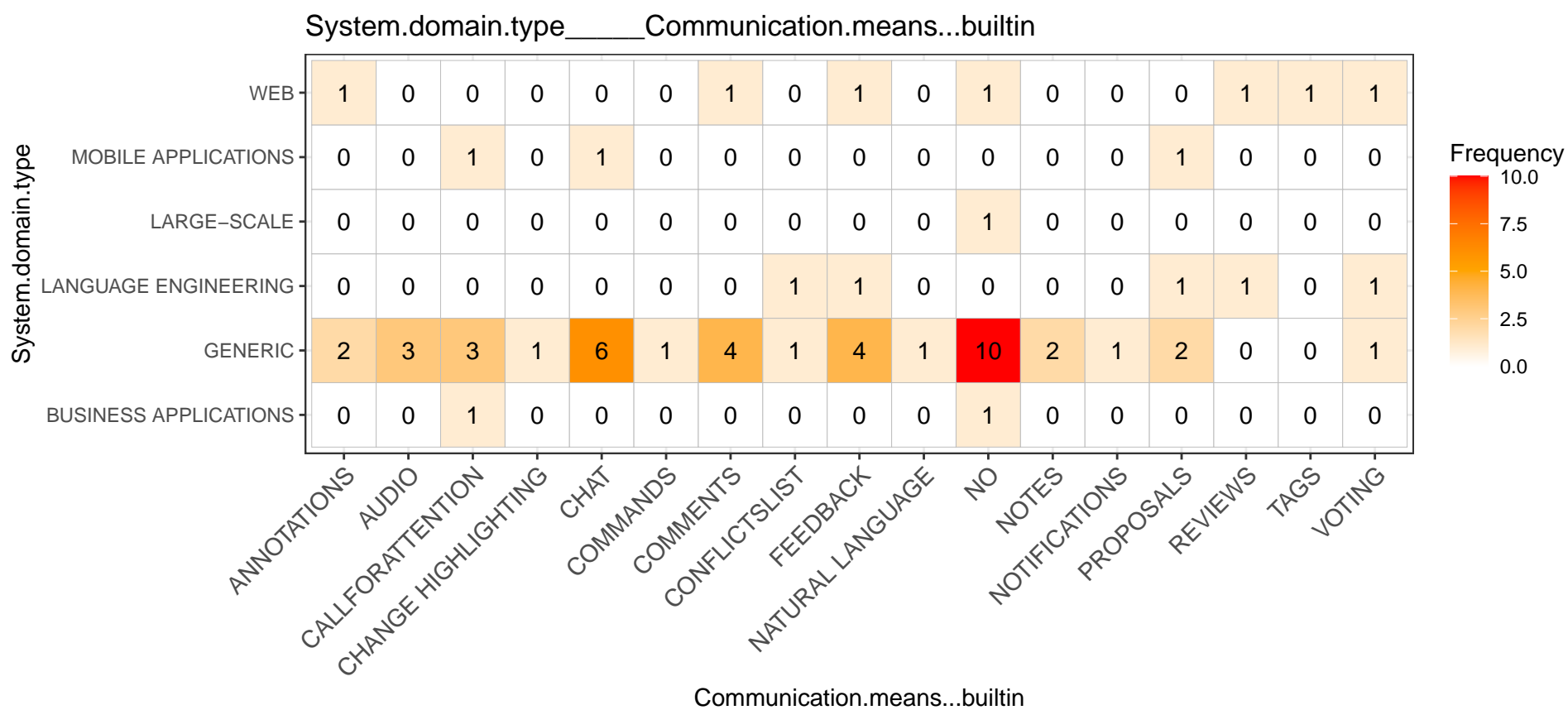


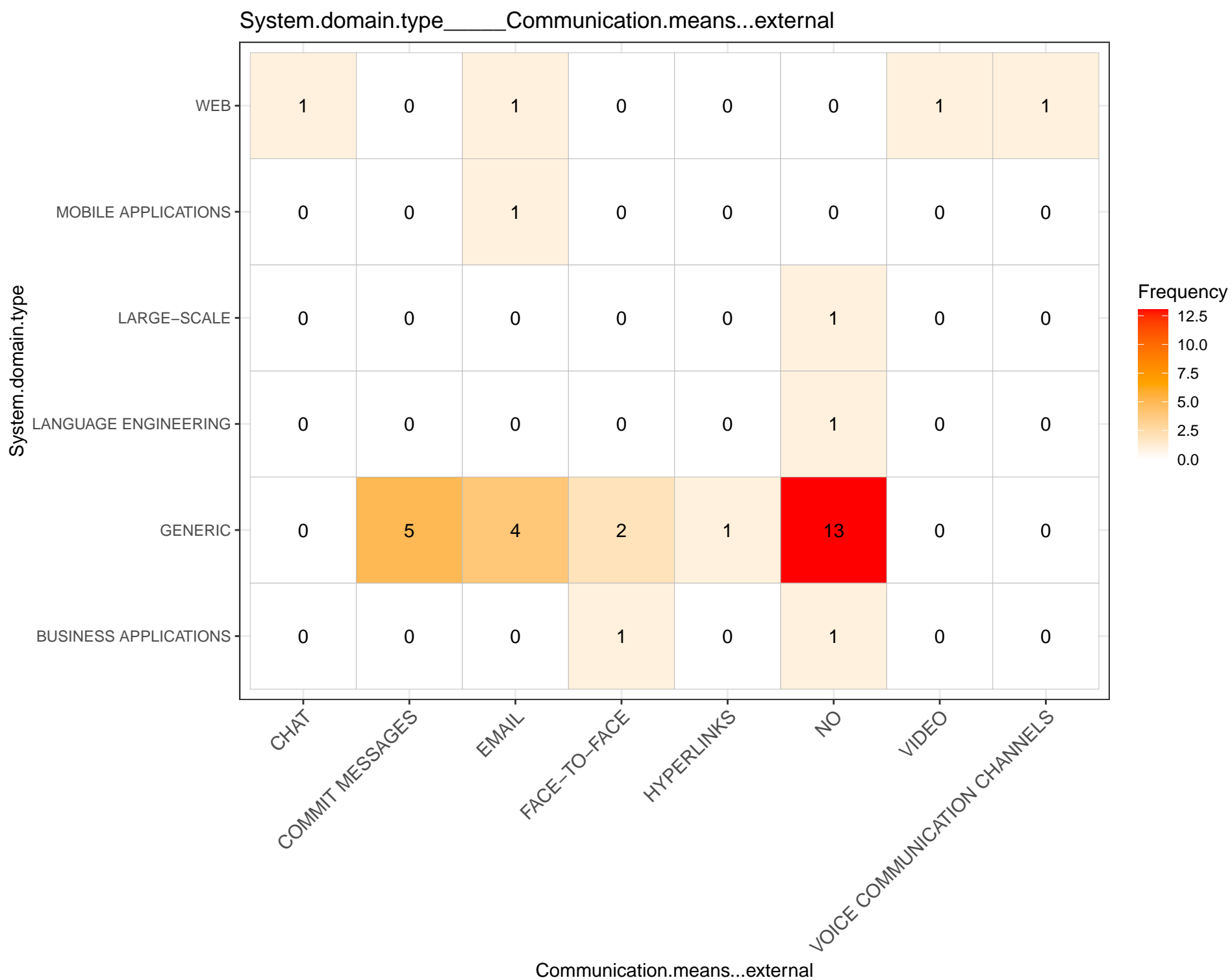




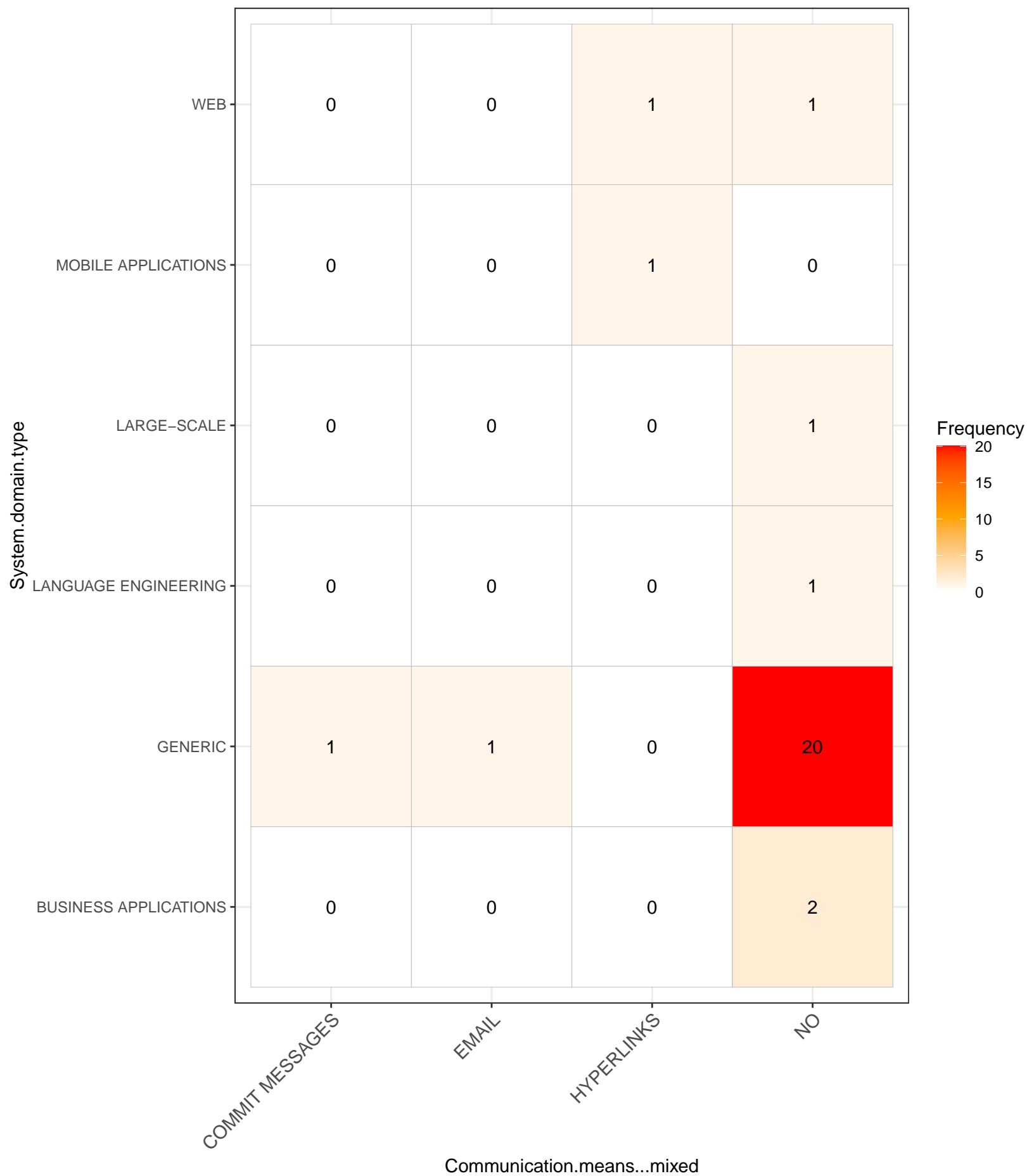


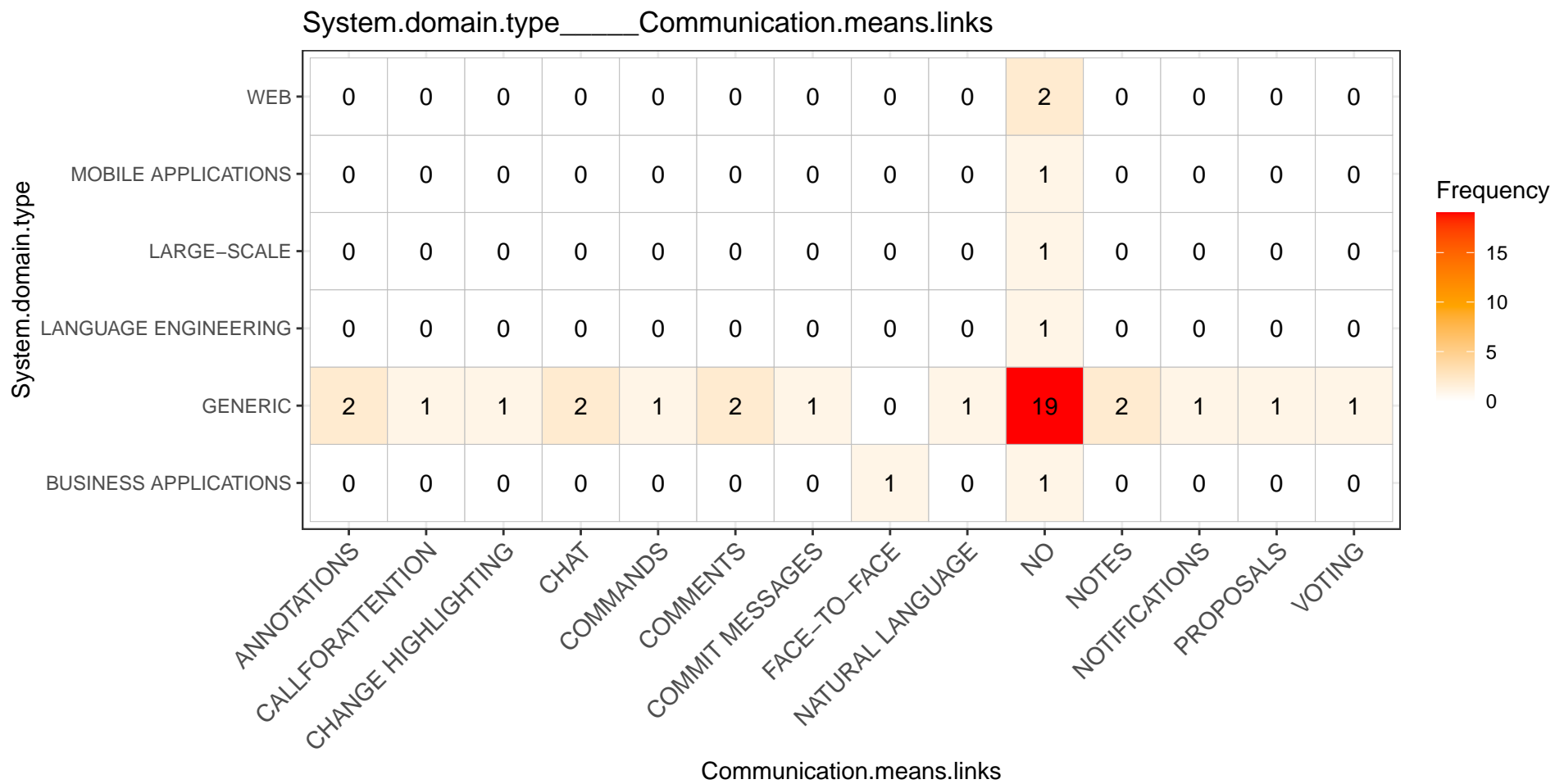


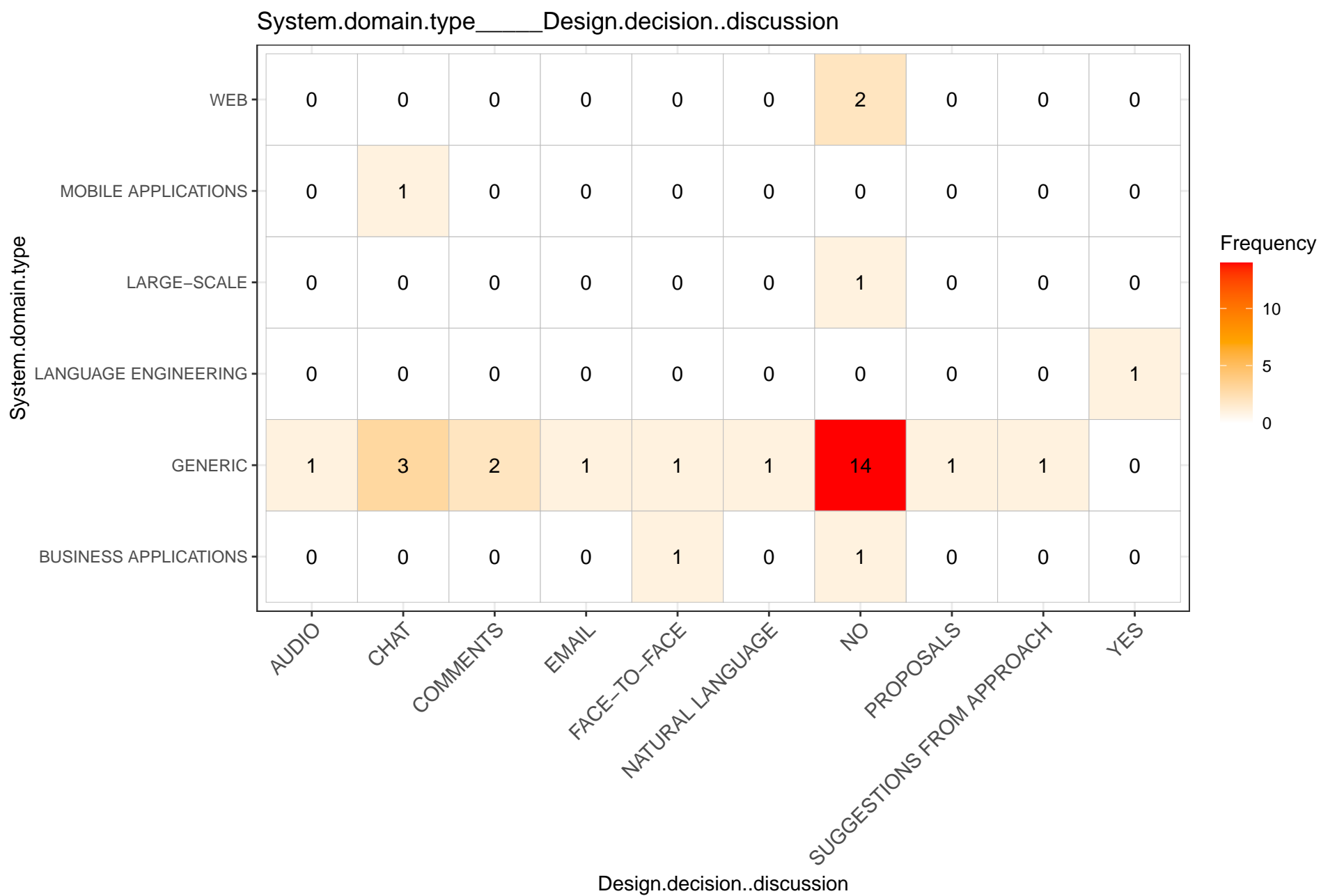


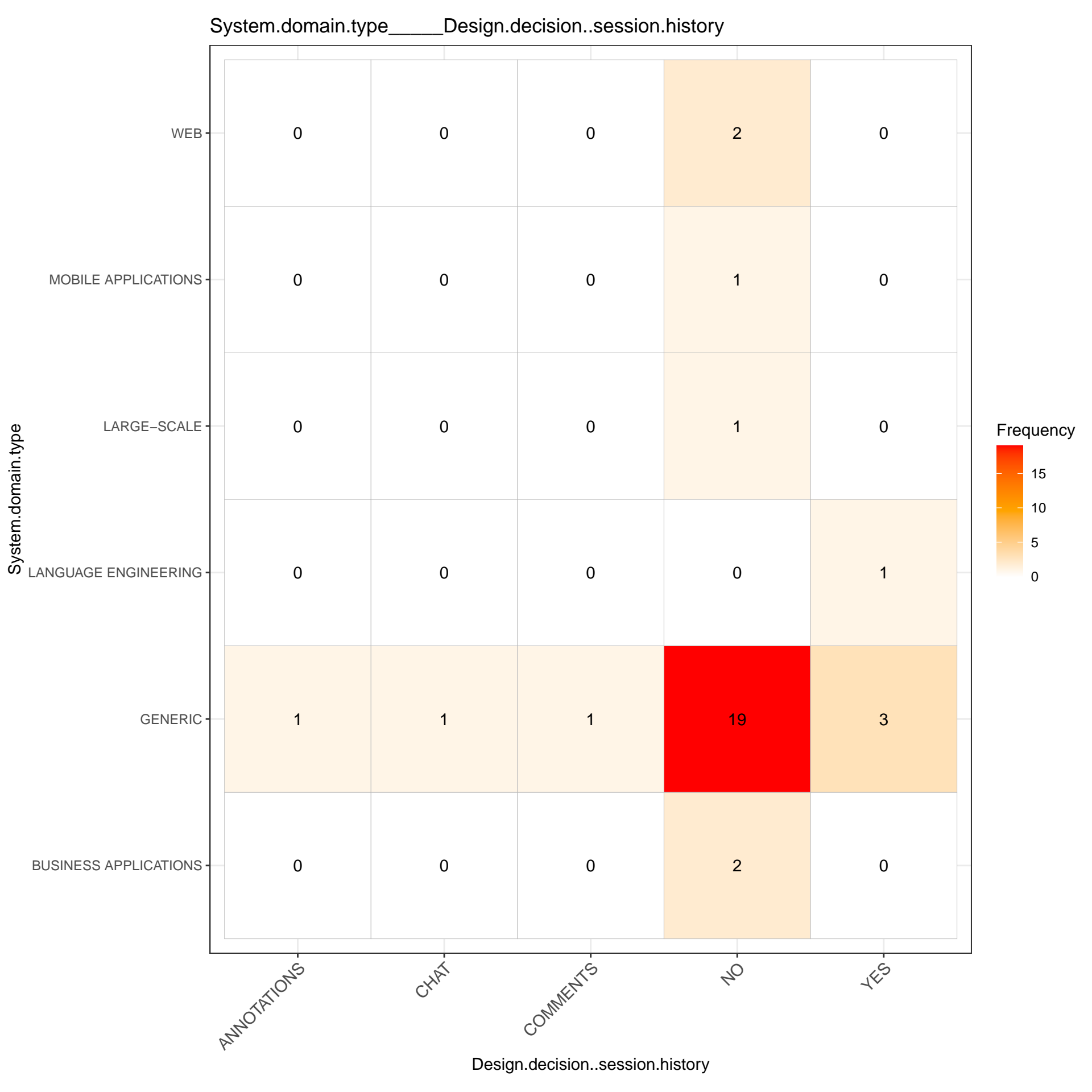


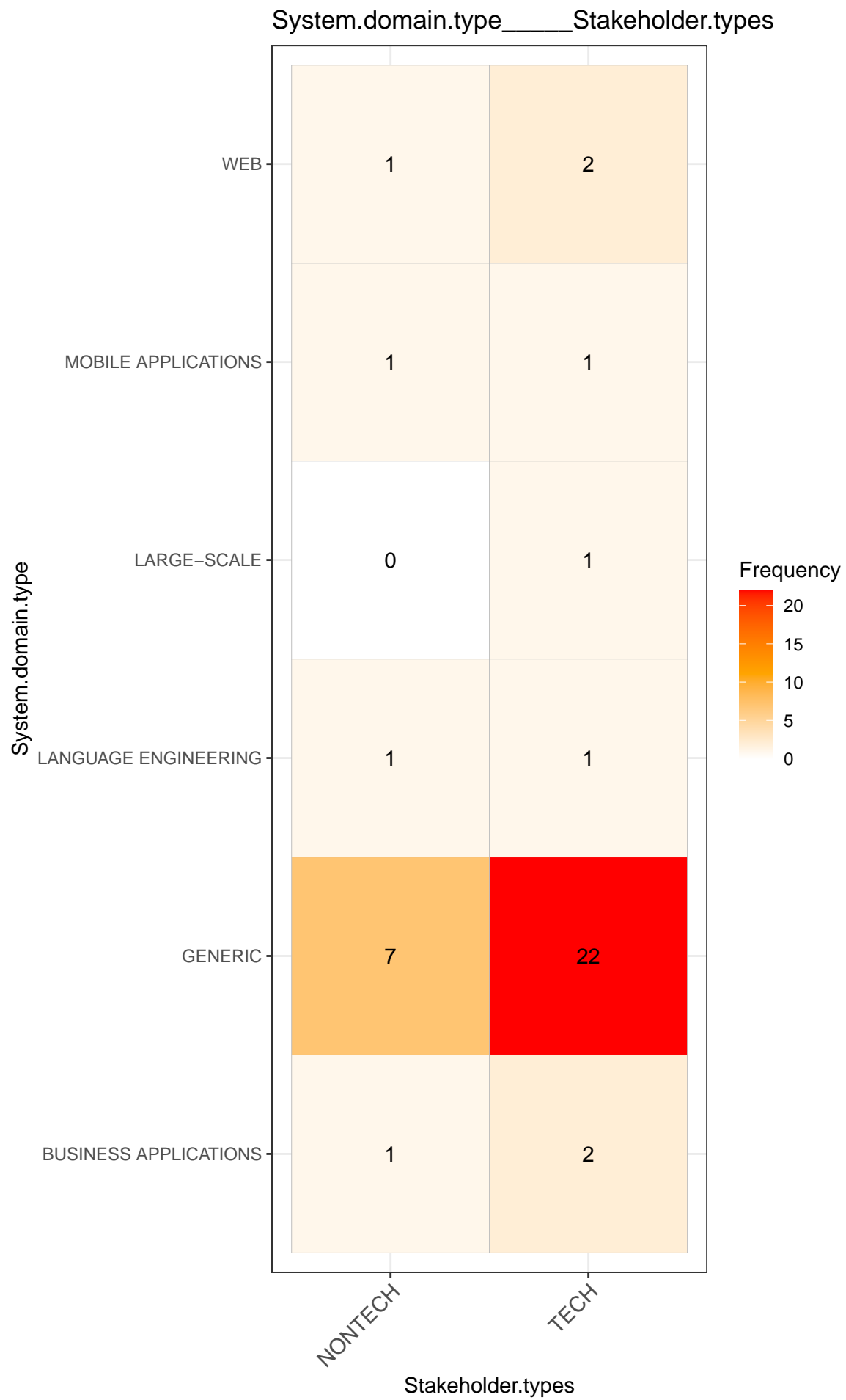
System.domain.type_____Communication.means...mixed

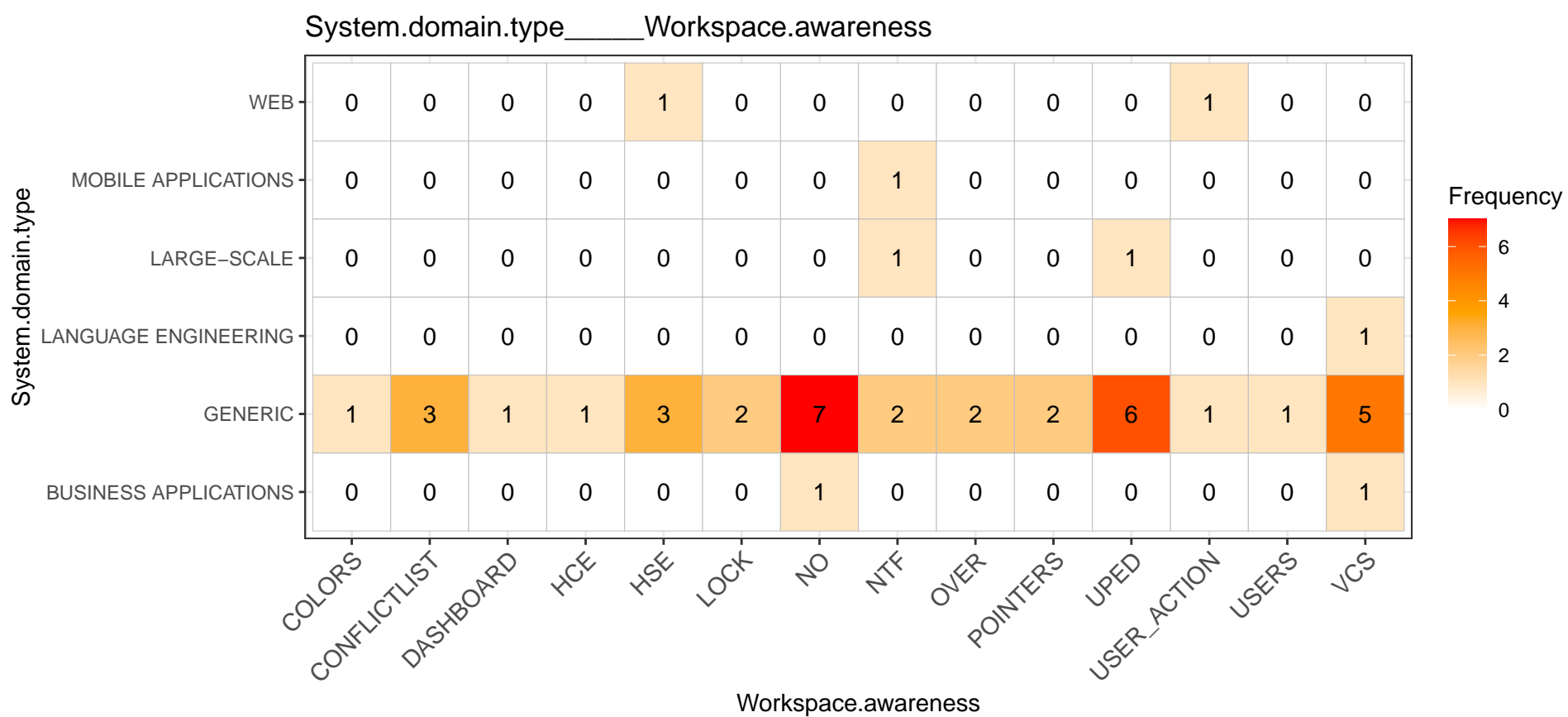


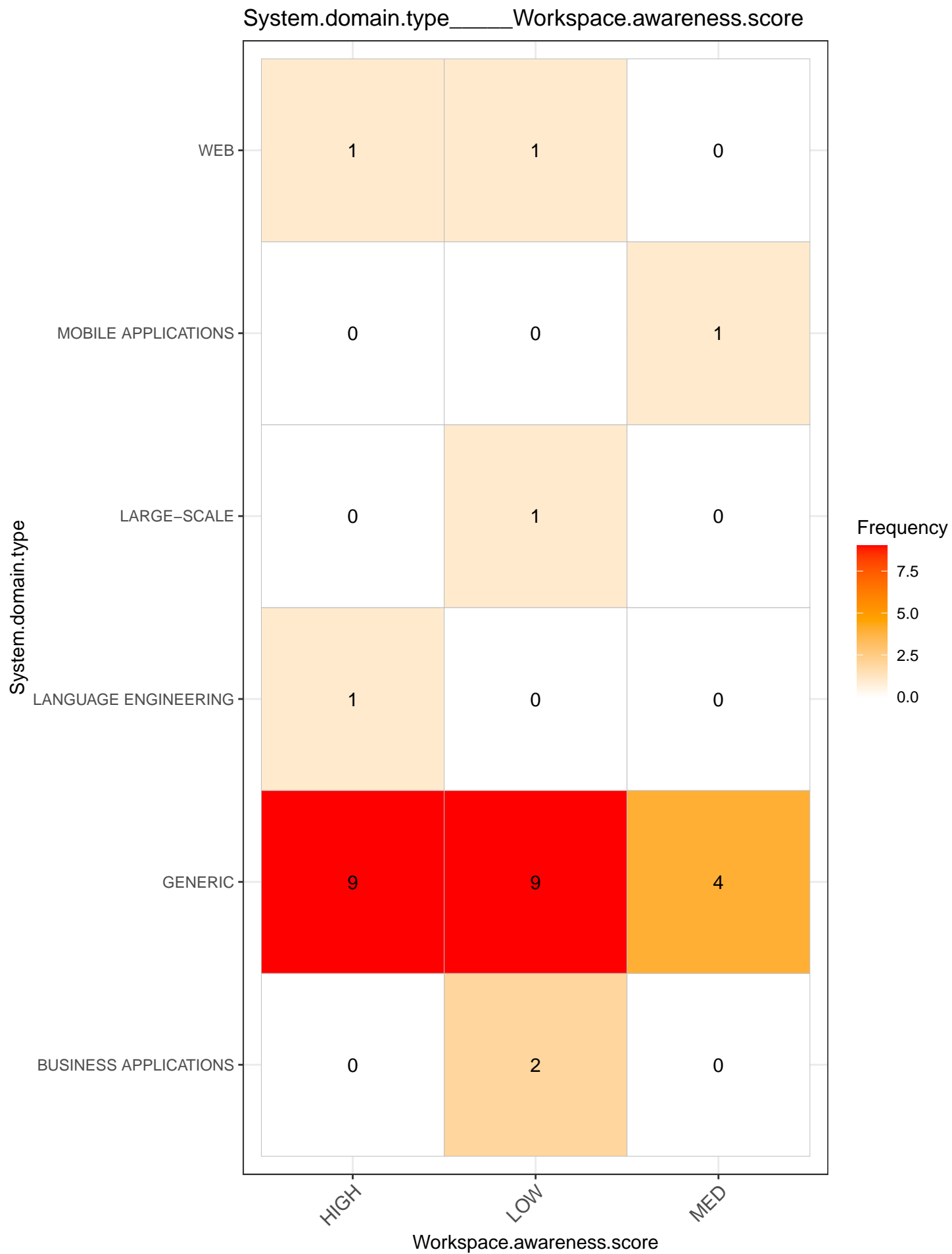




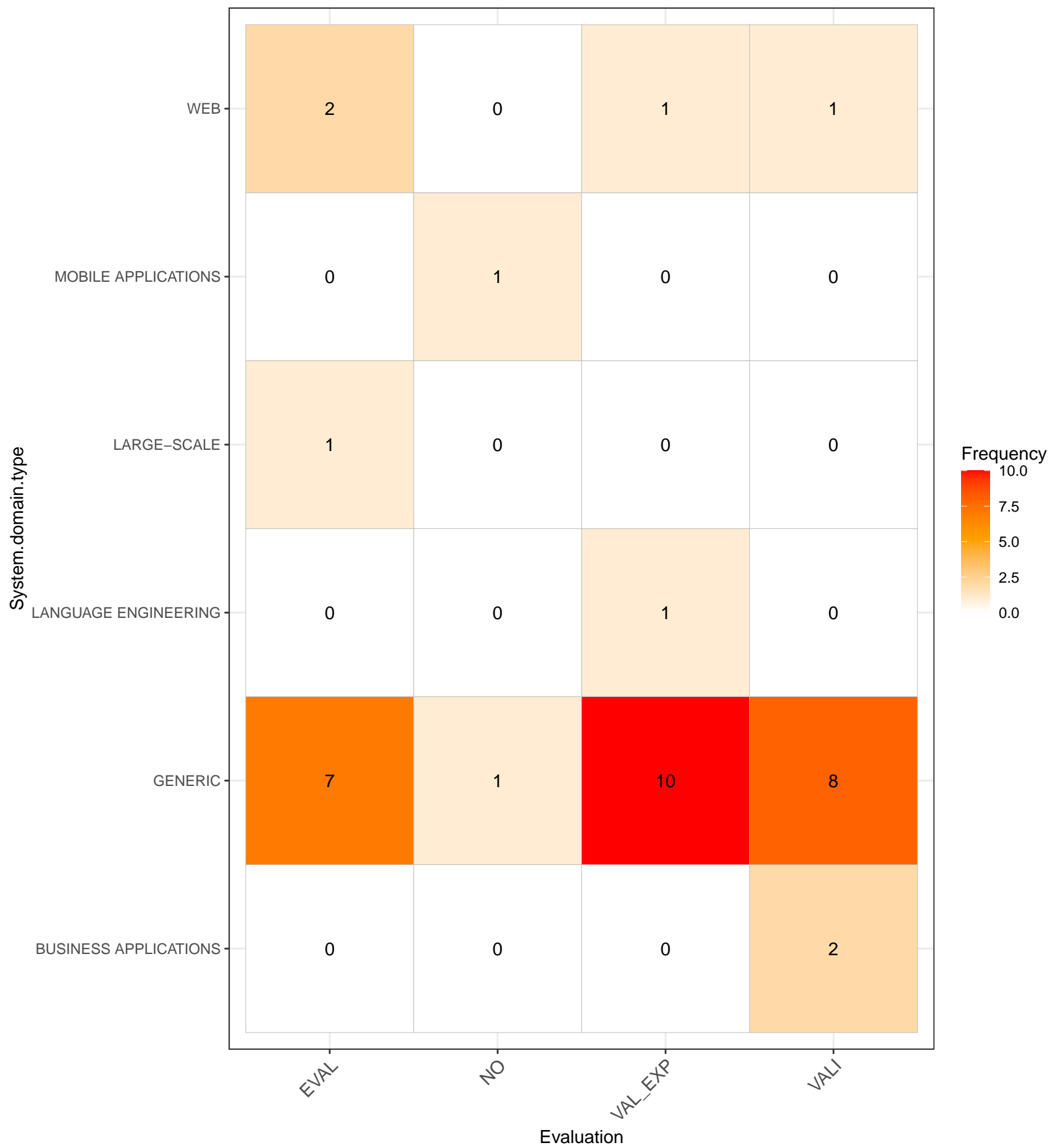


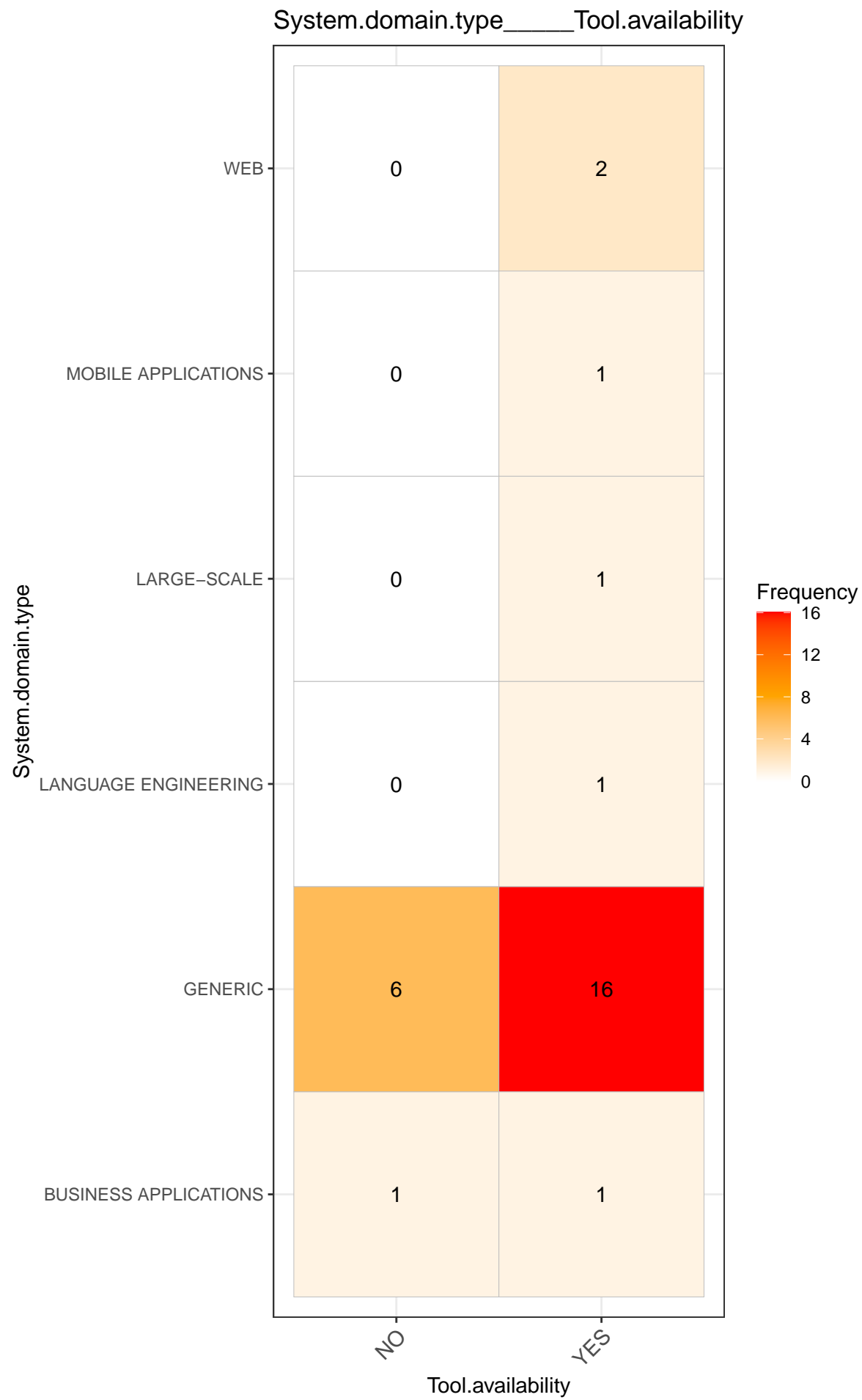


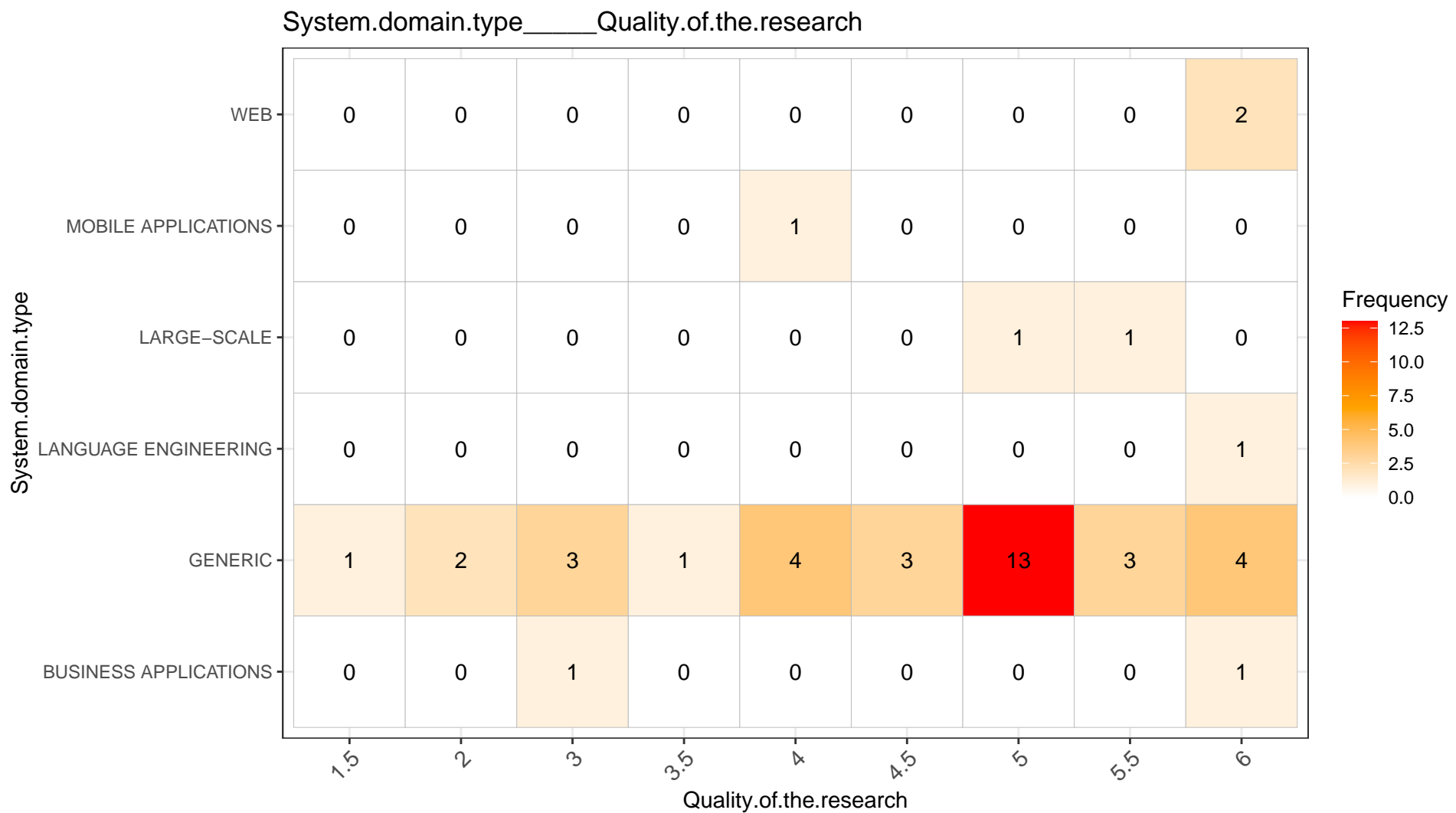




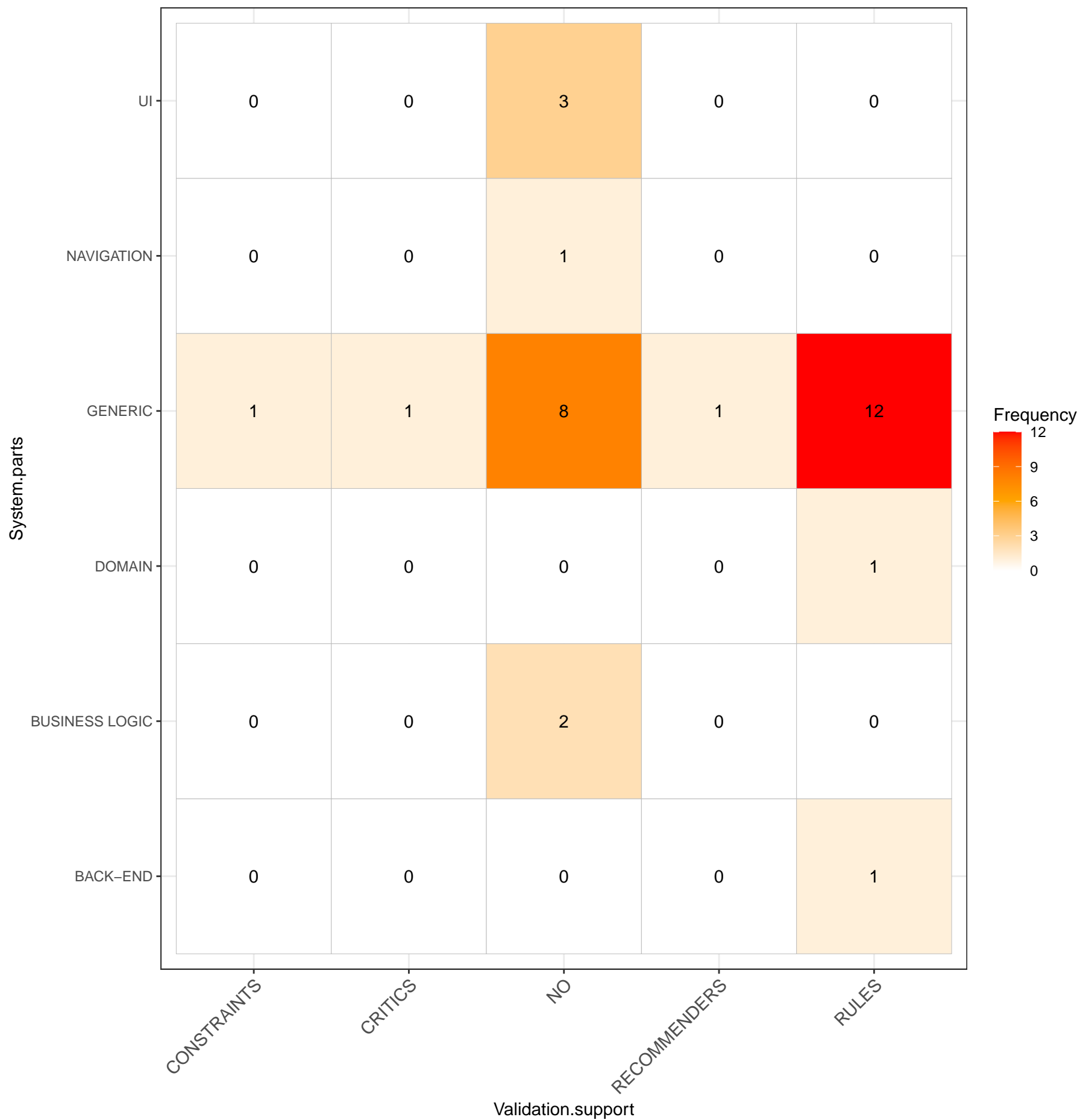
System.domain.type_Evaluation

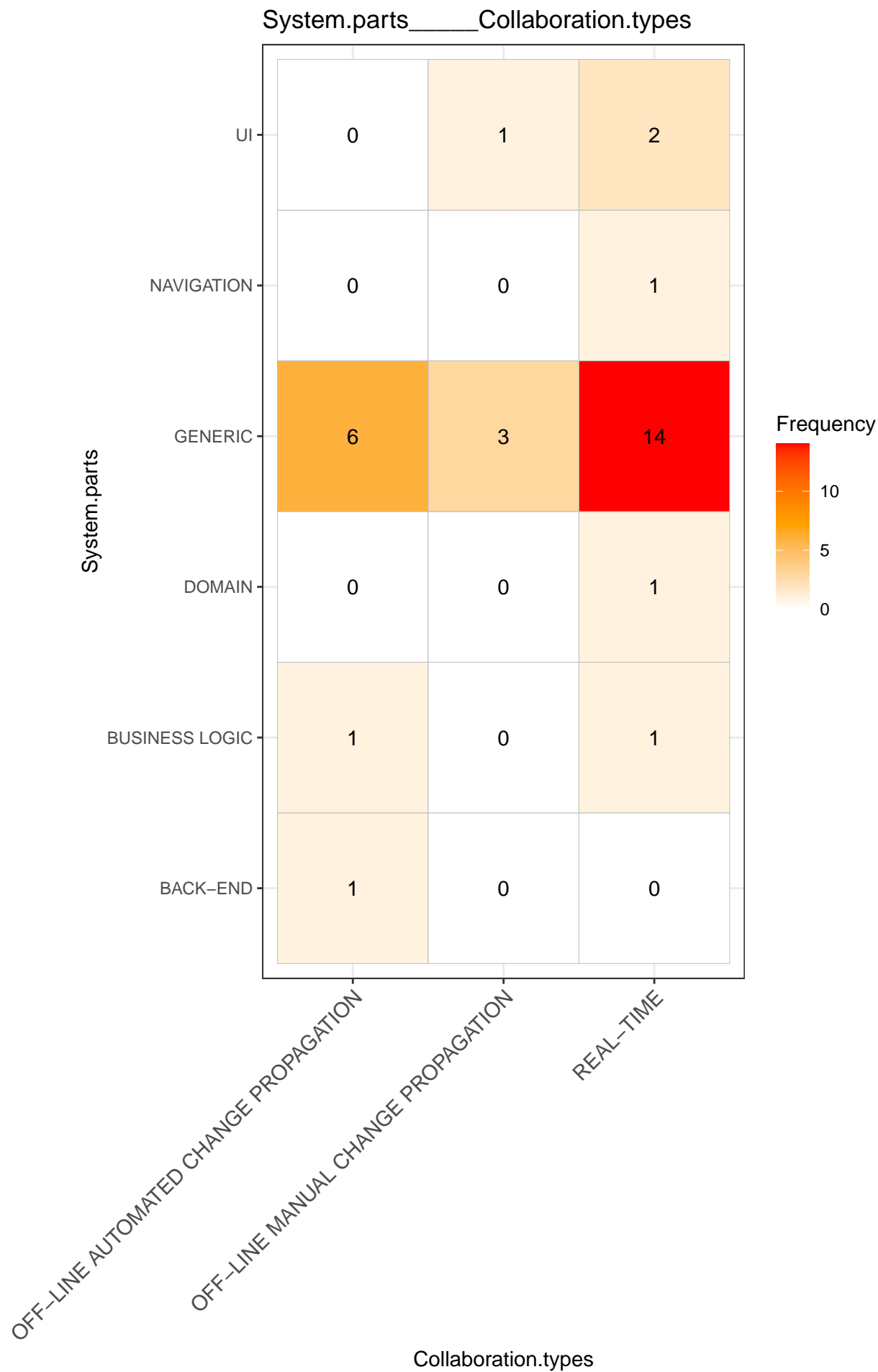




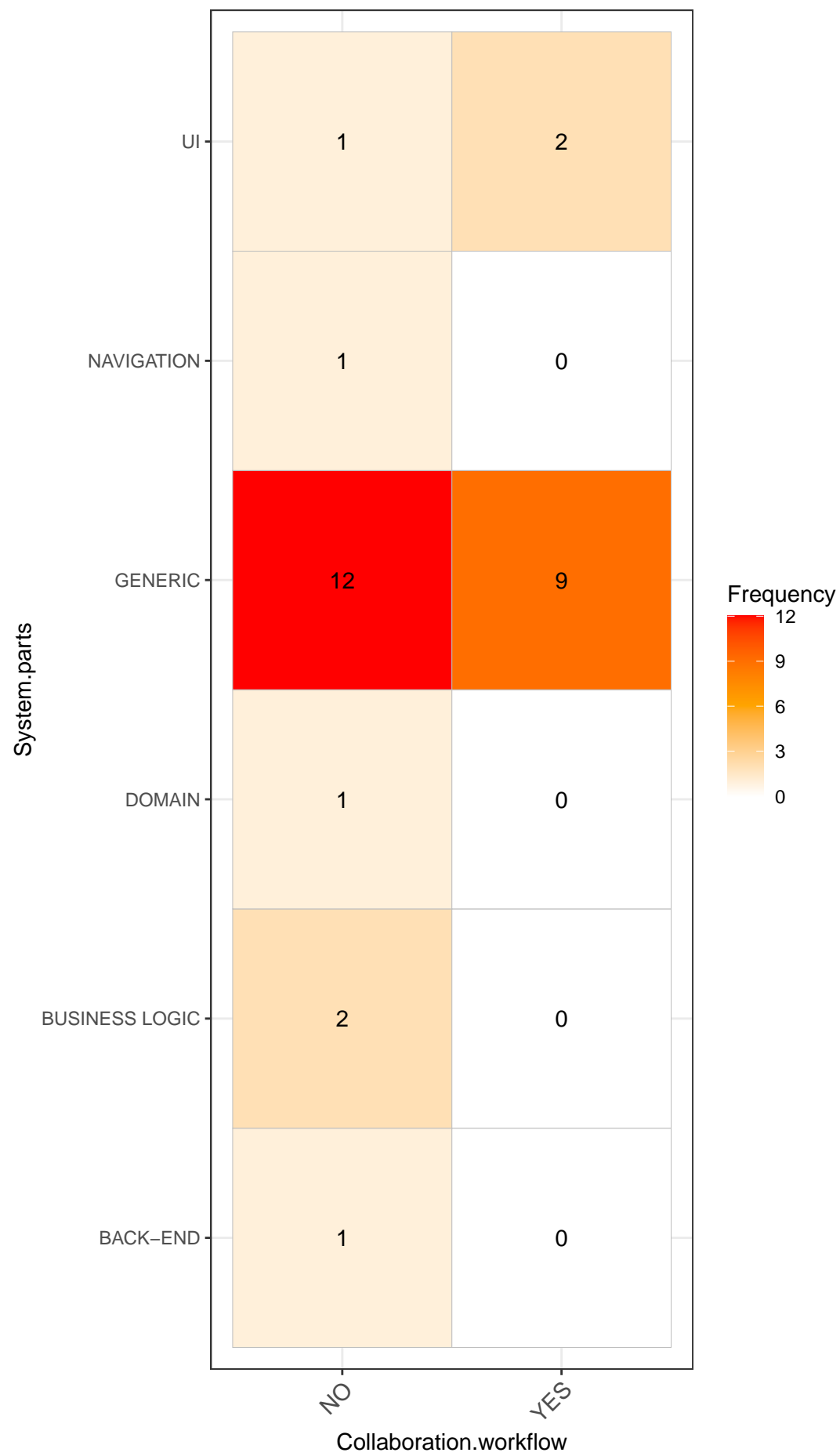


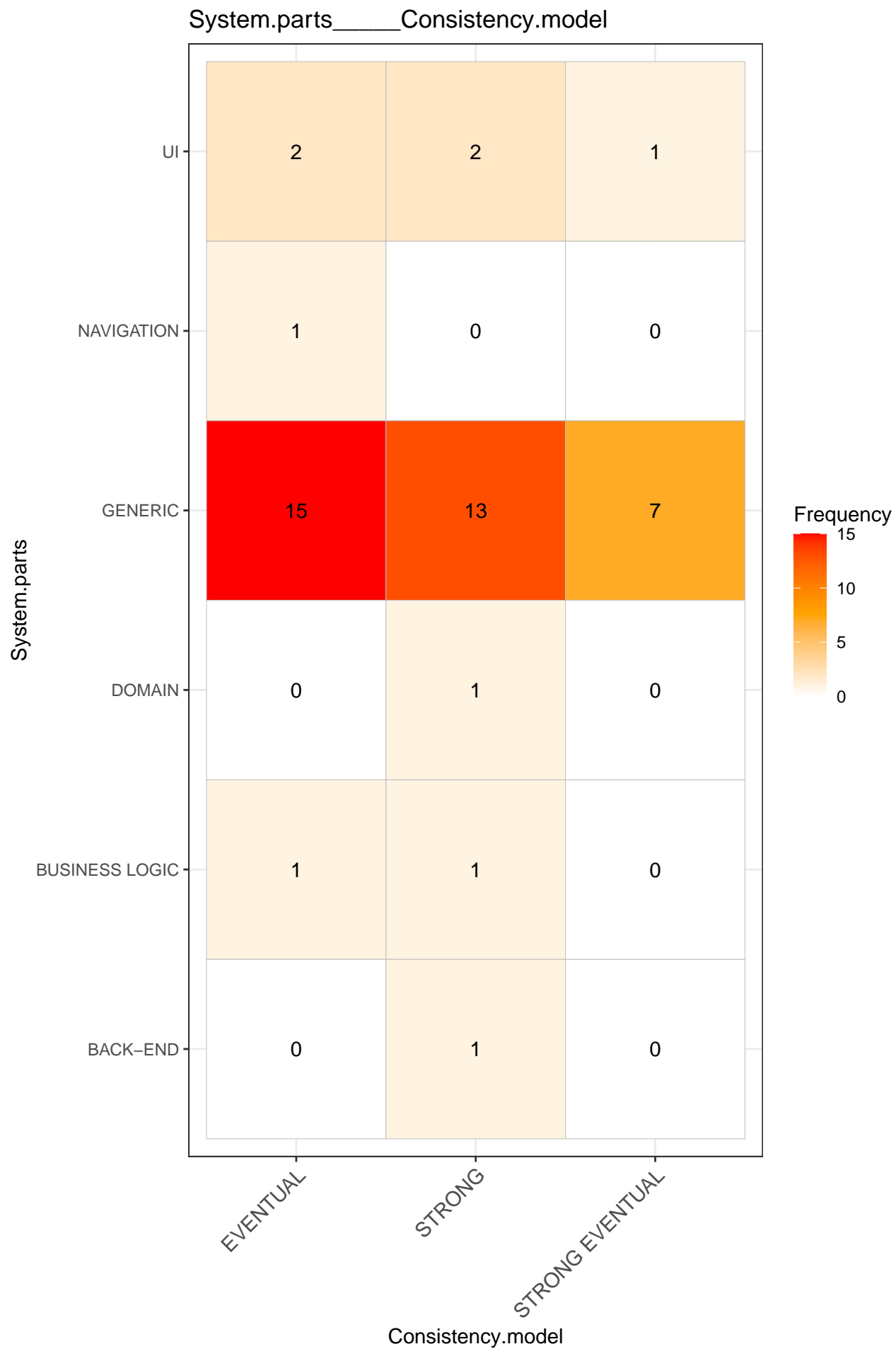
System.parts_____Validation.support

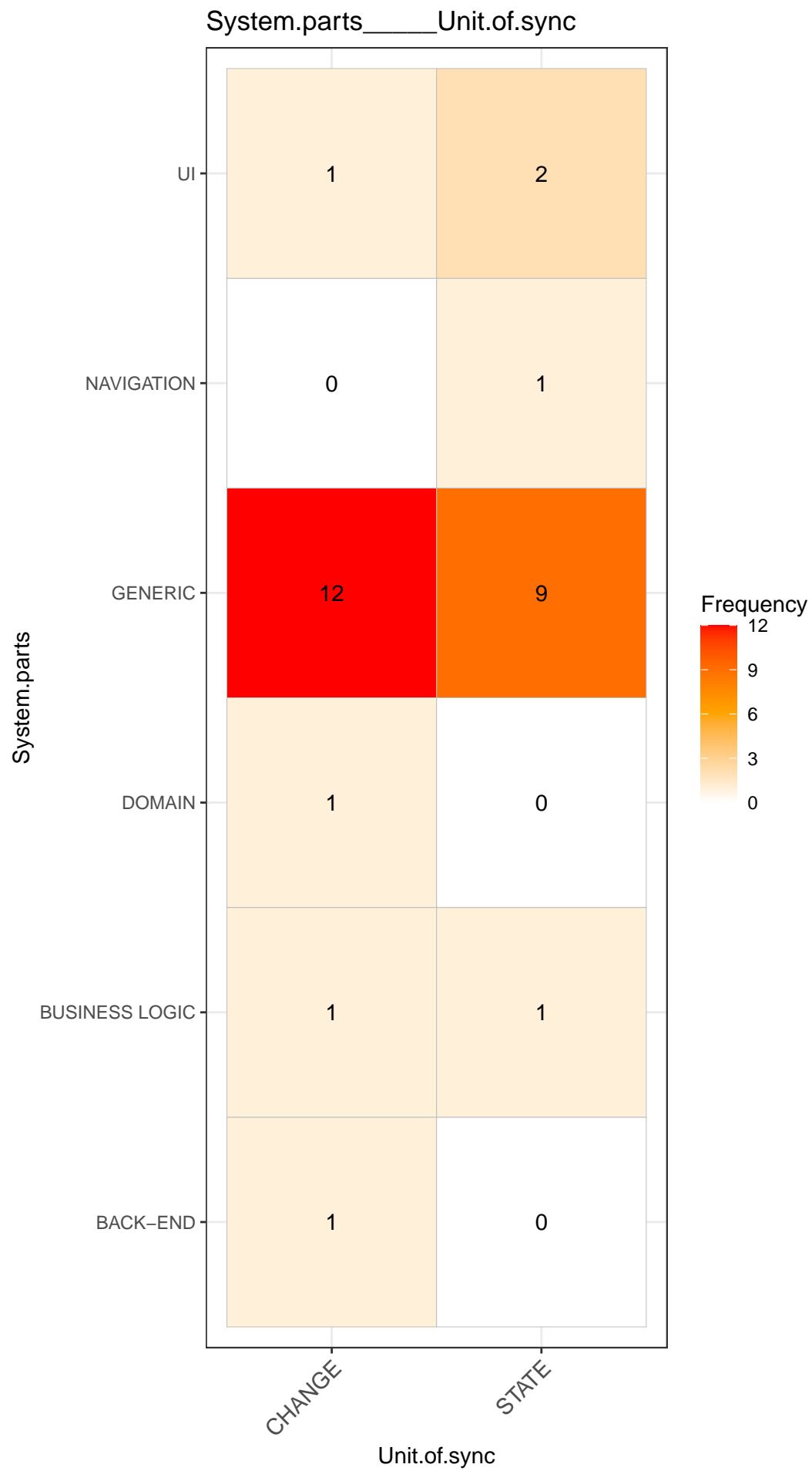


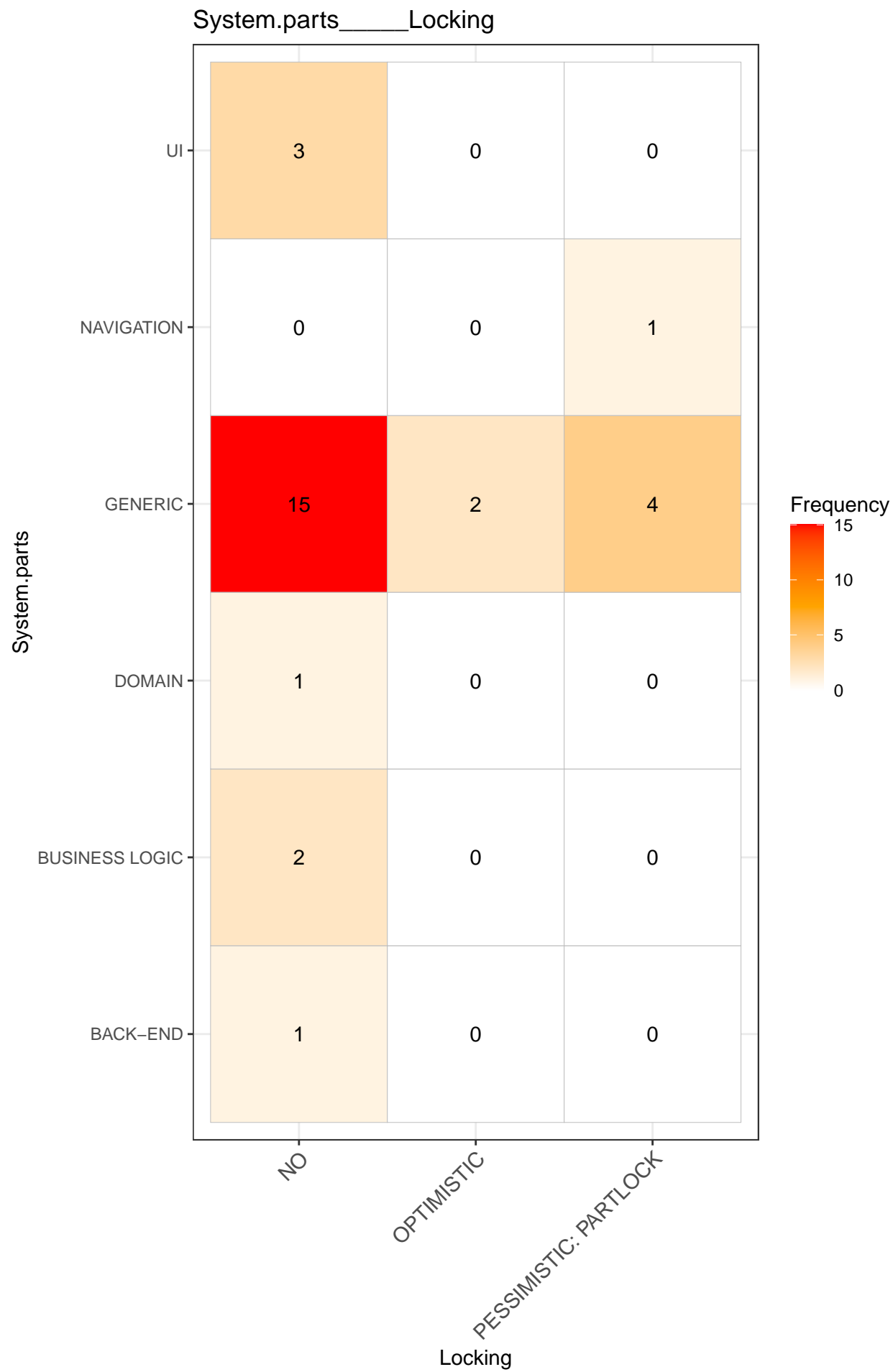


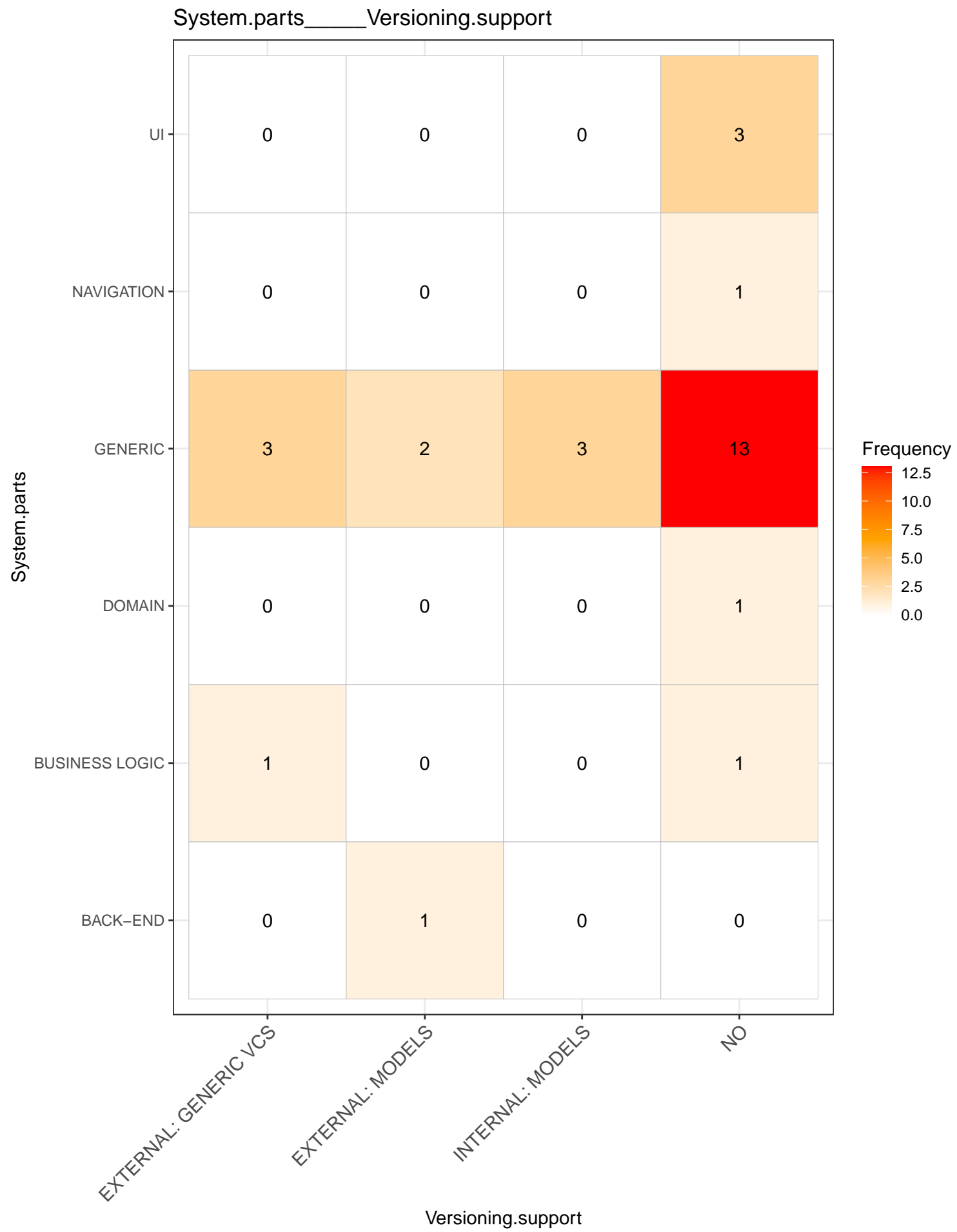
System.parts_____Collaboration.workflow

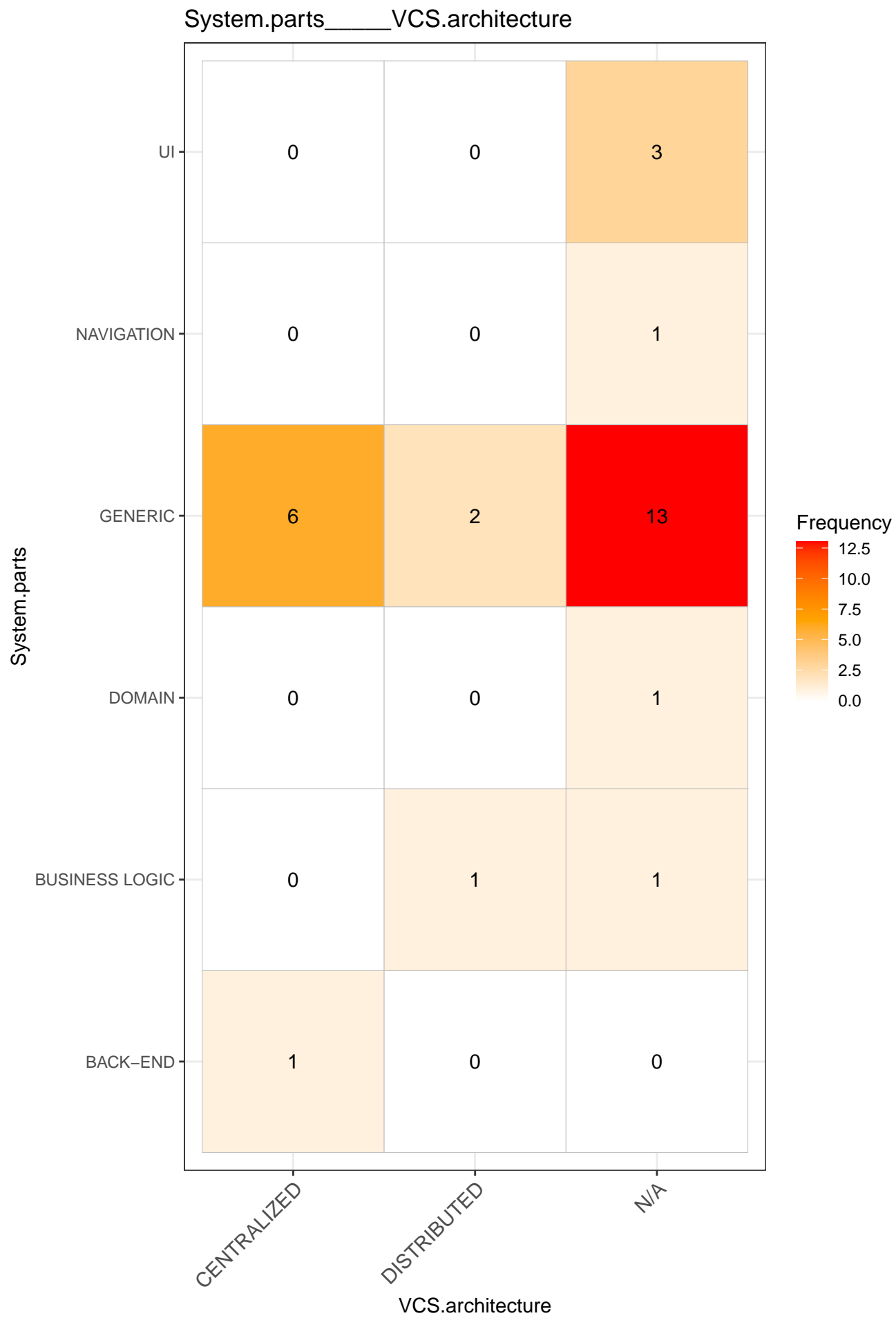




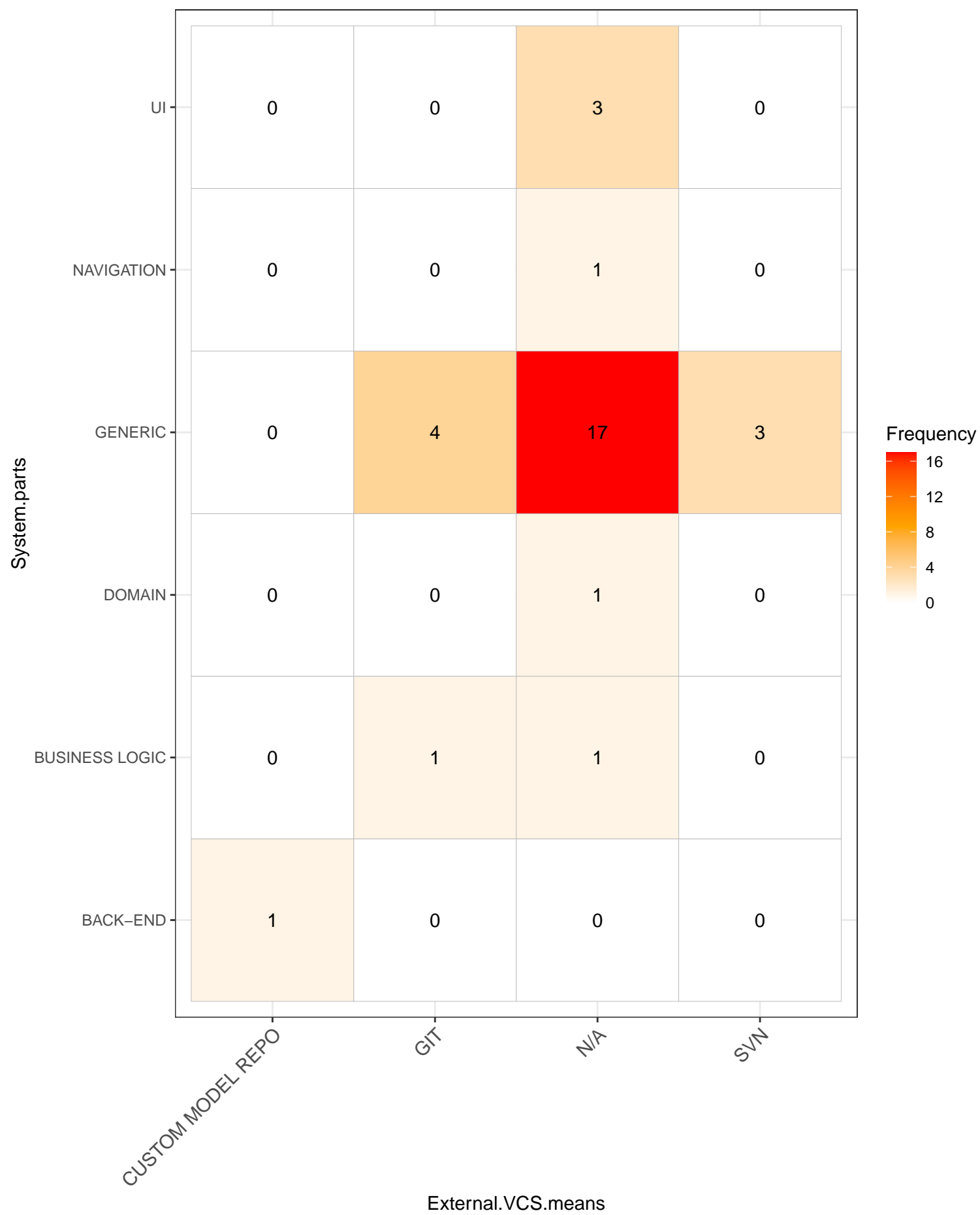


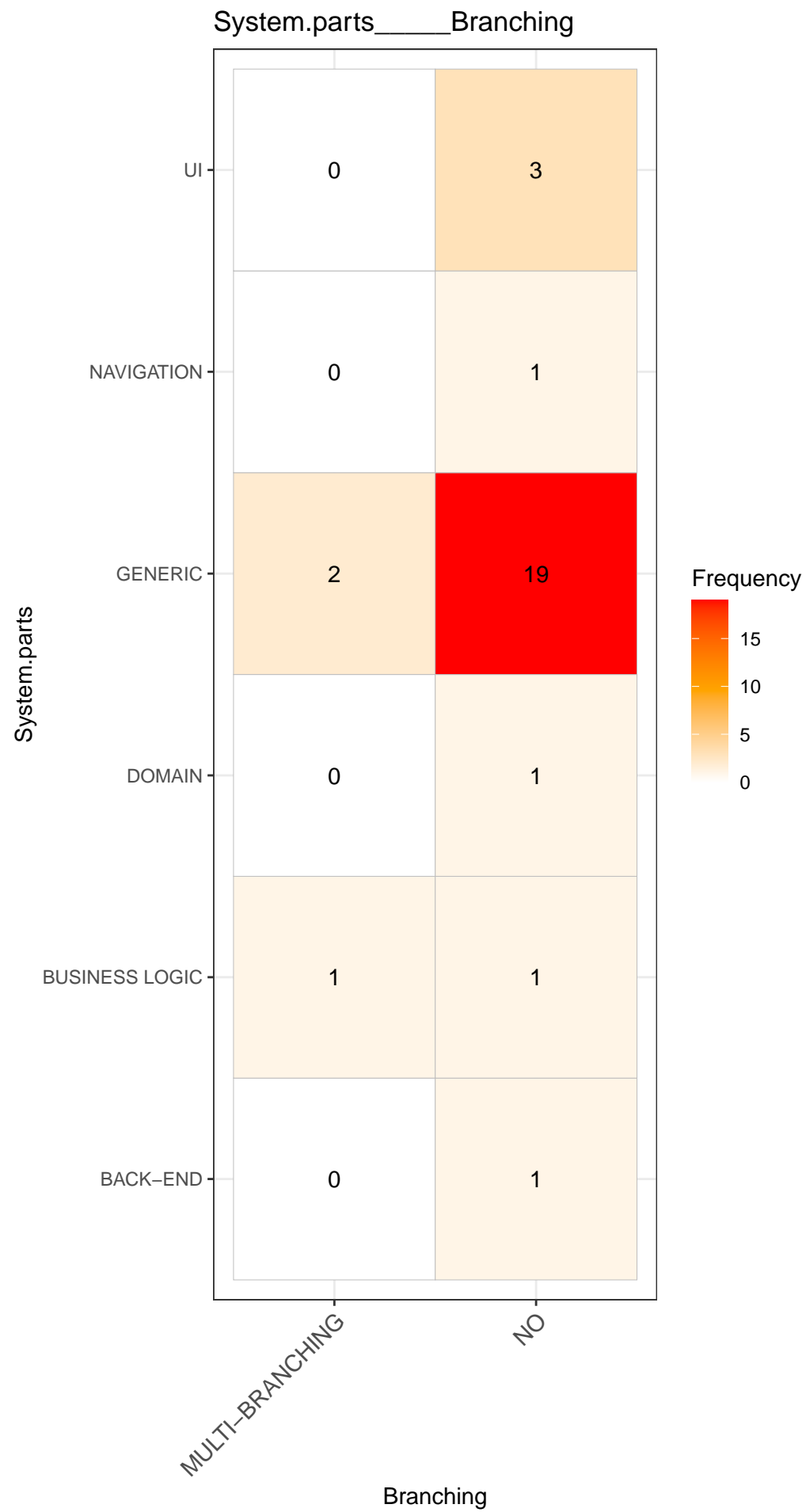




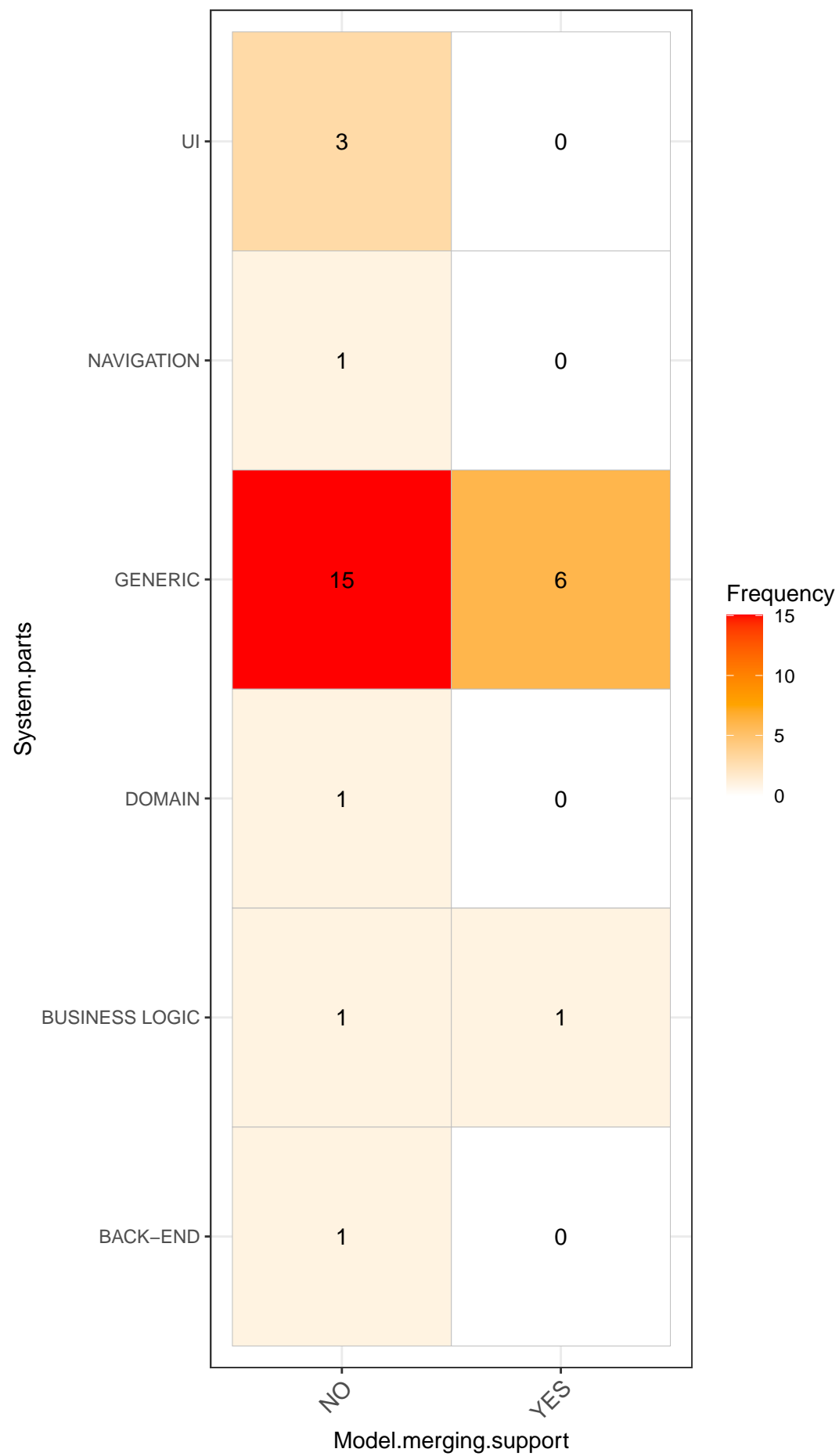


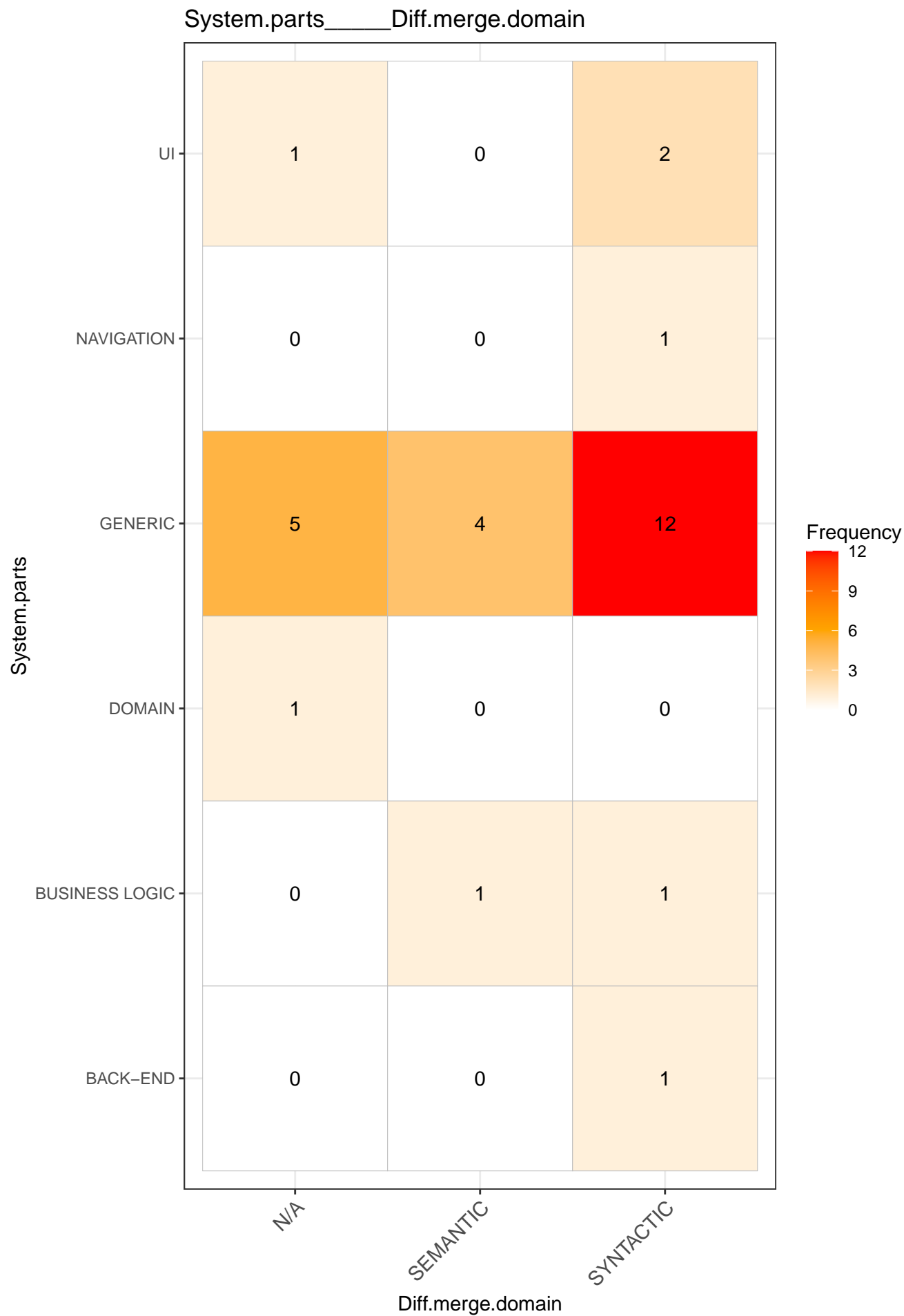
System.parts_____External.VCS.means

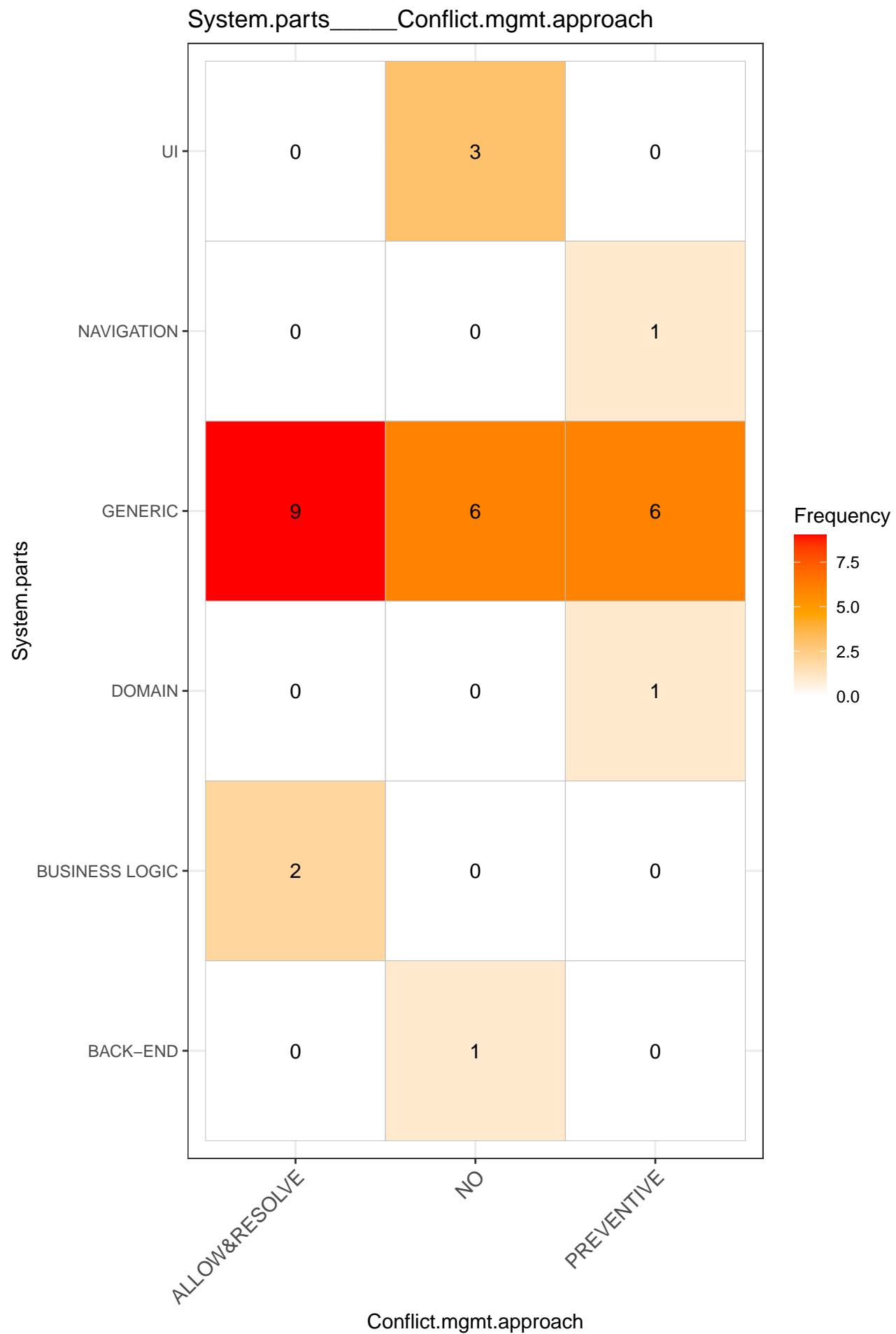


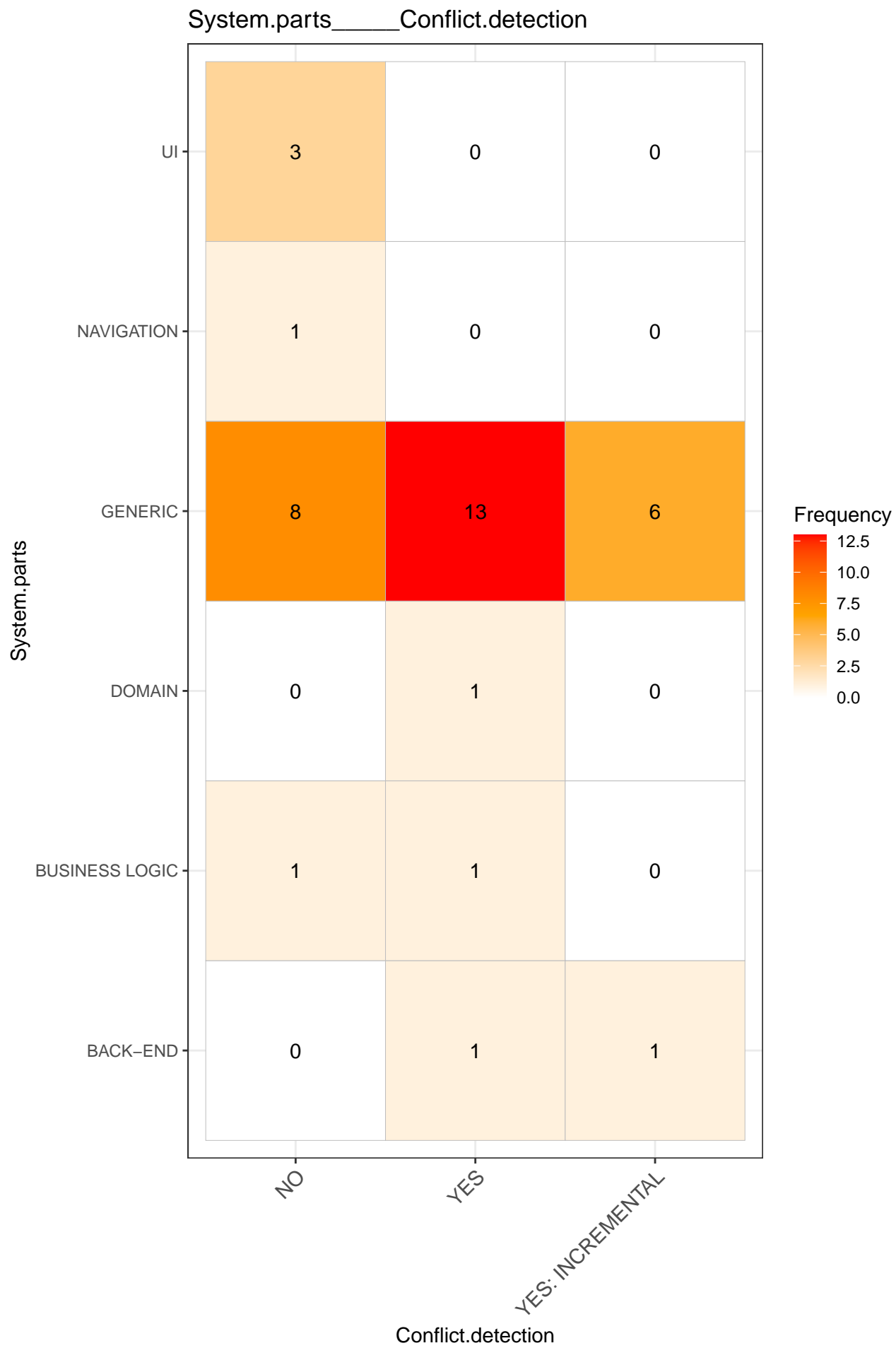


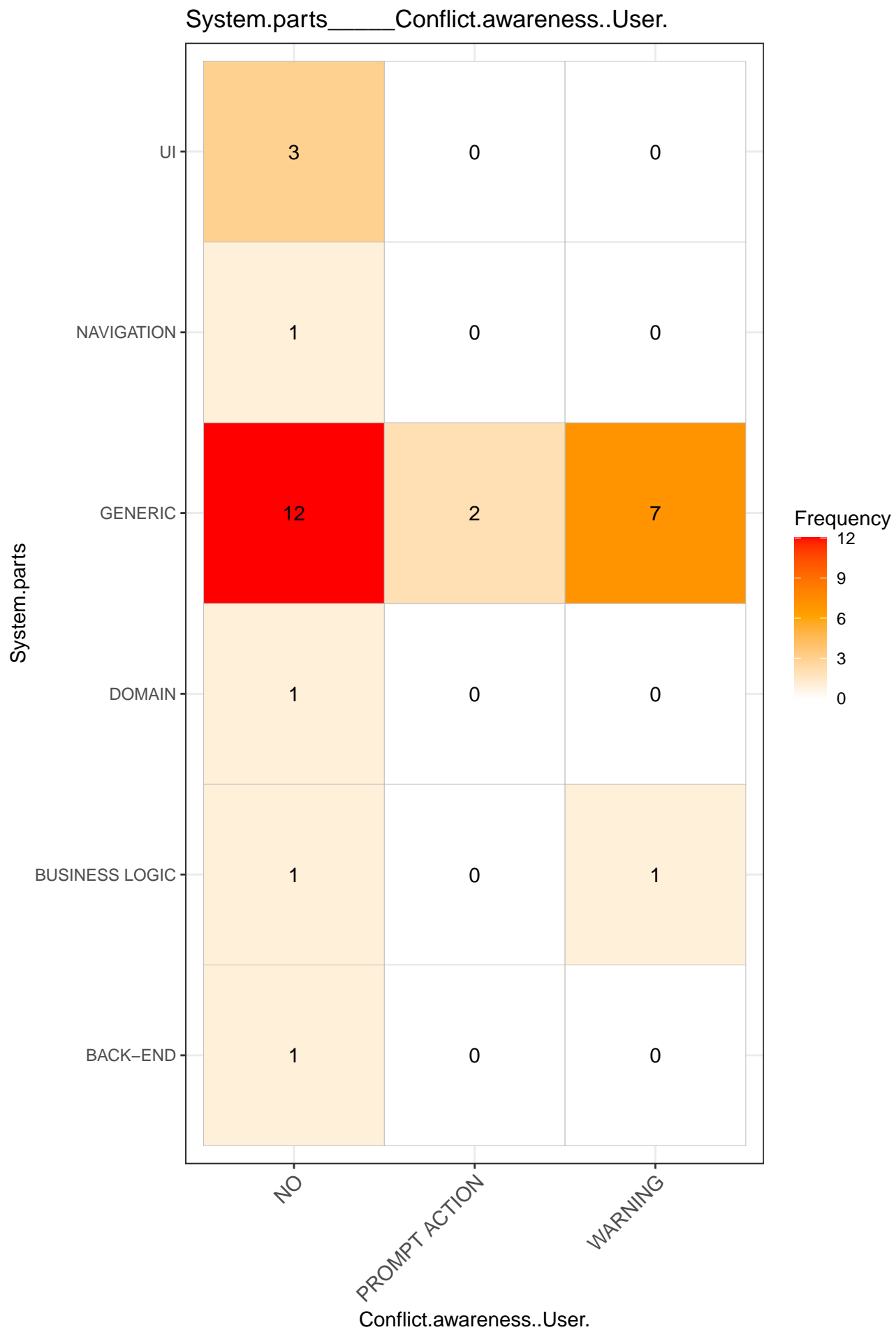
System.parts_____Model.merging.support

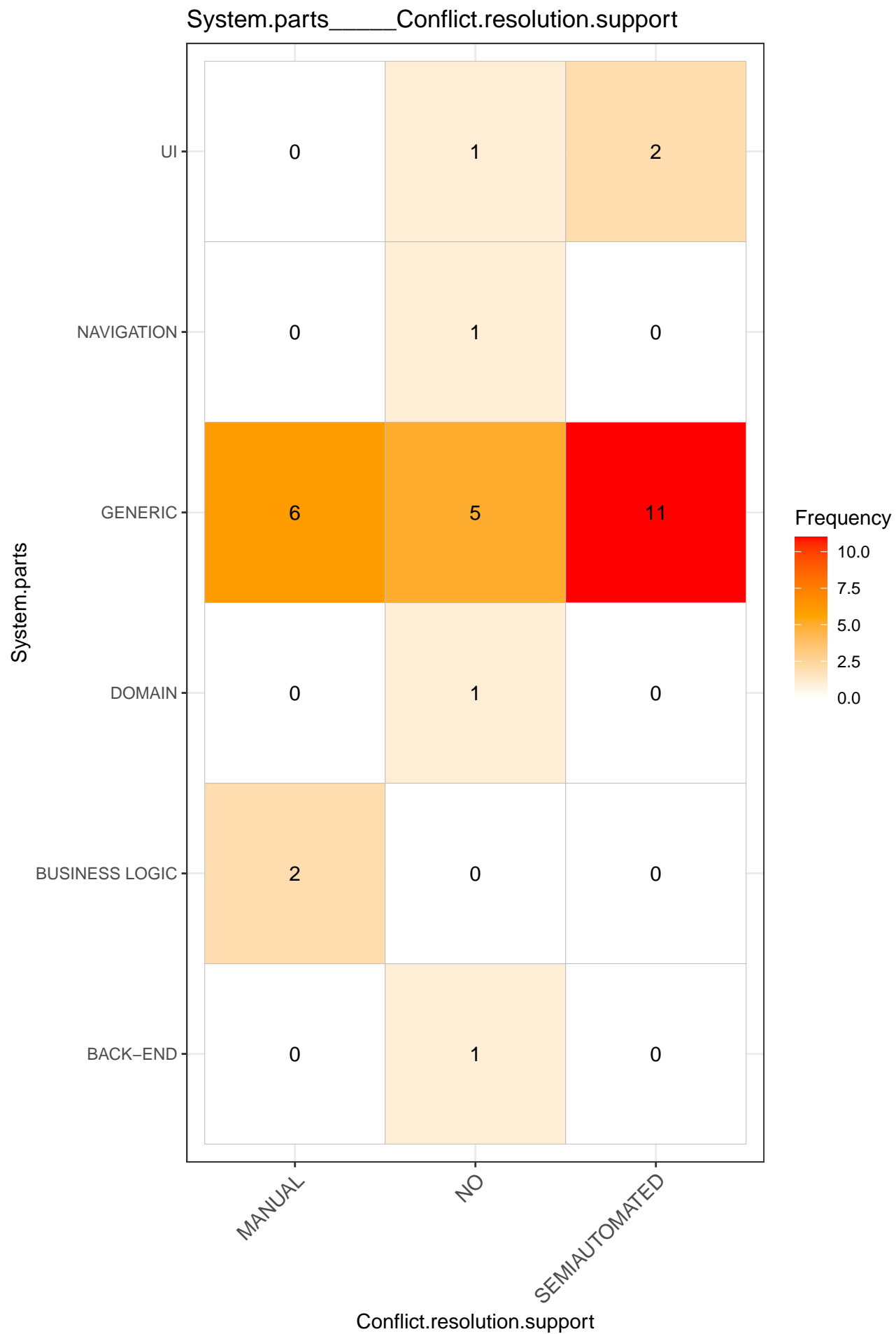


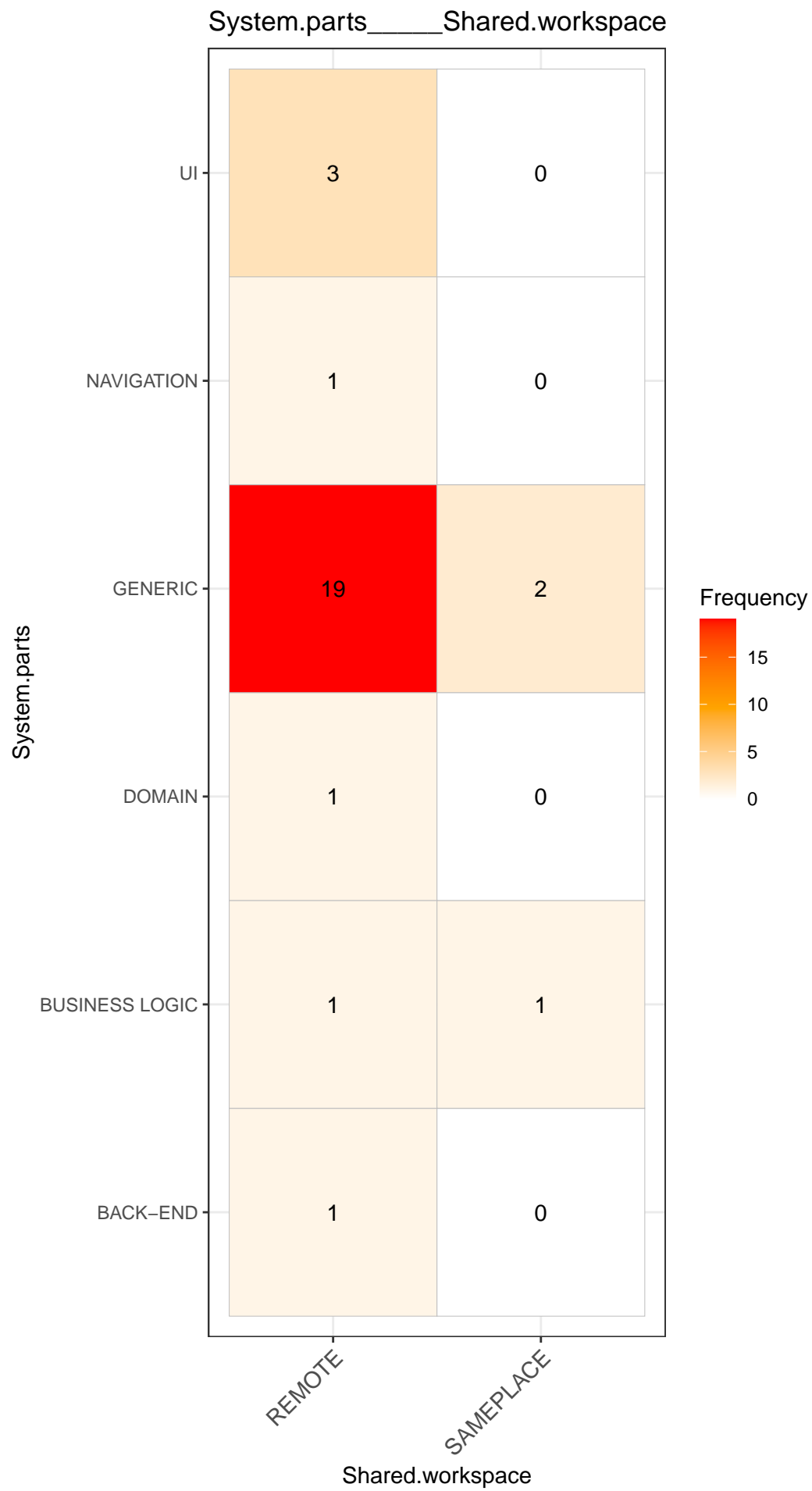


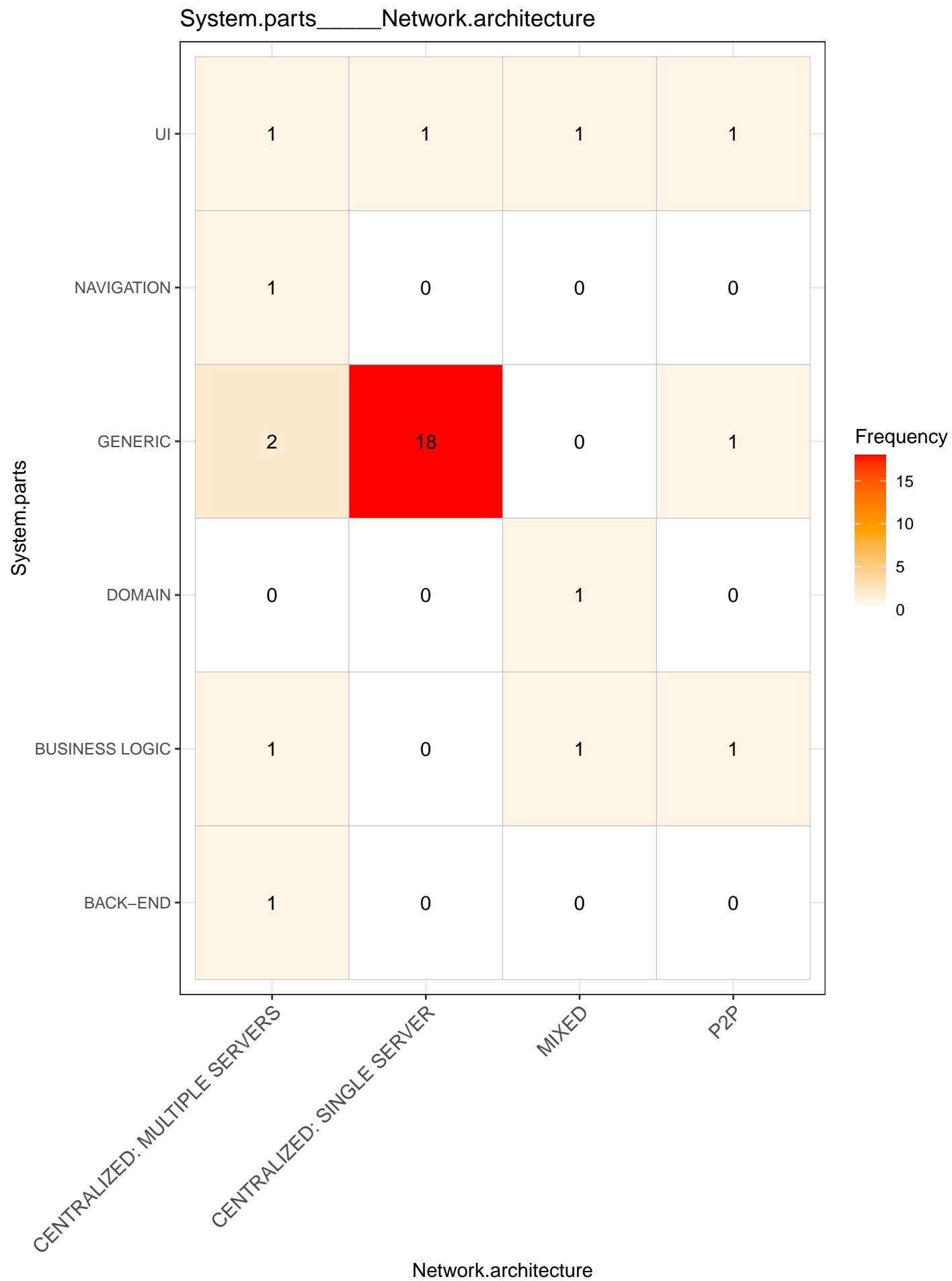


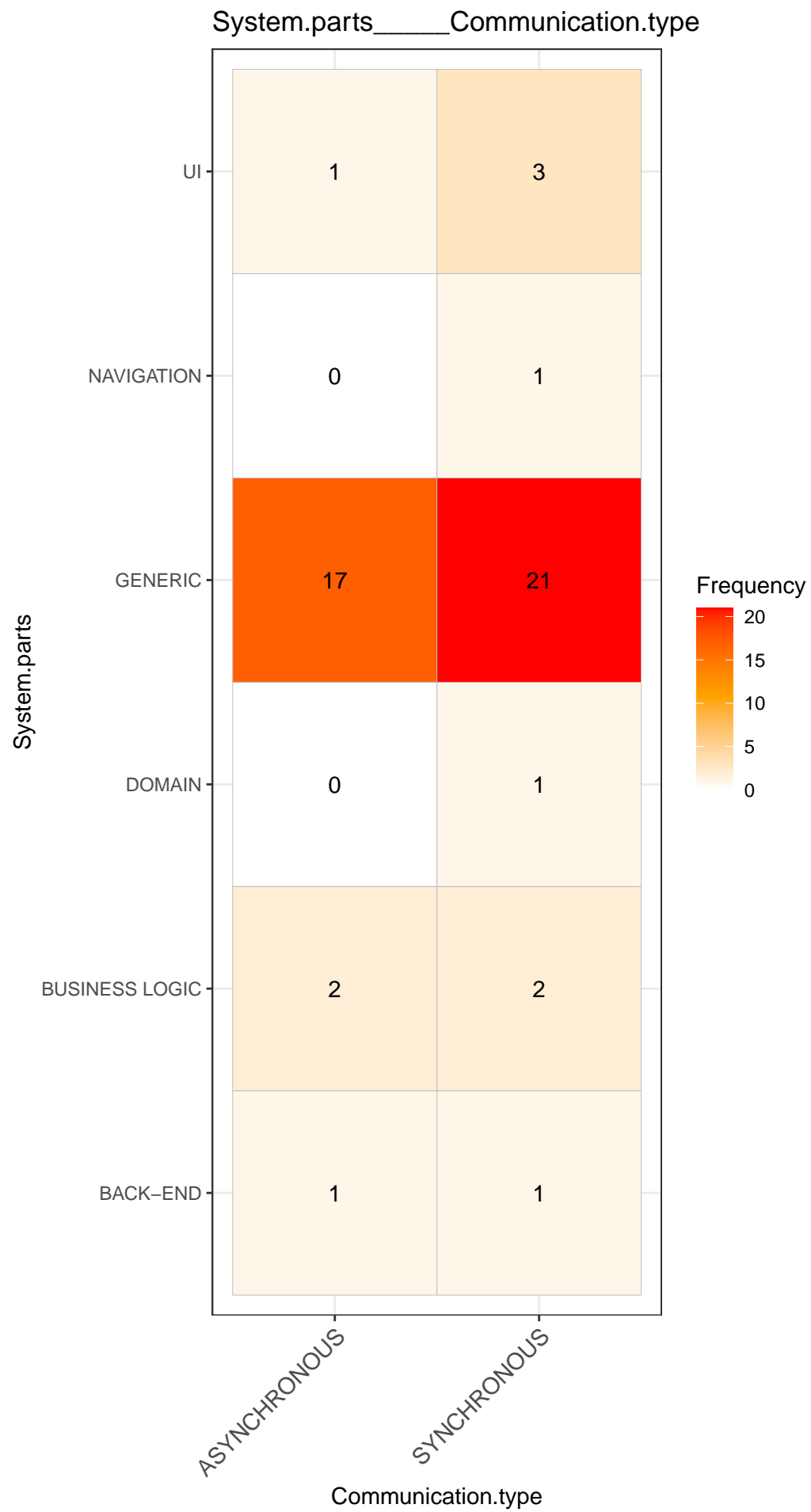


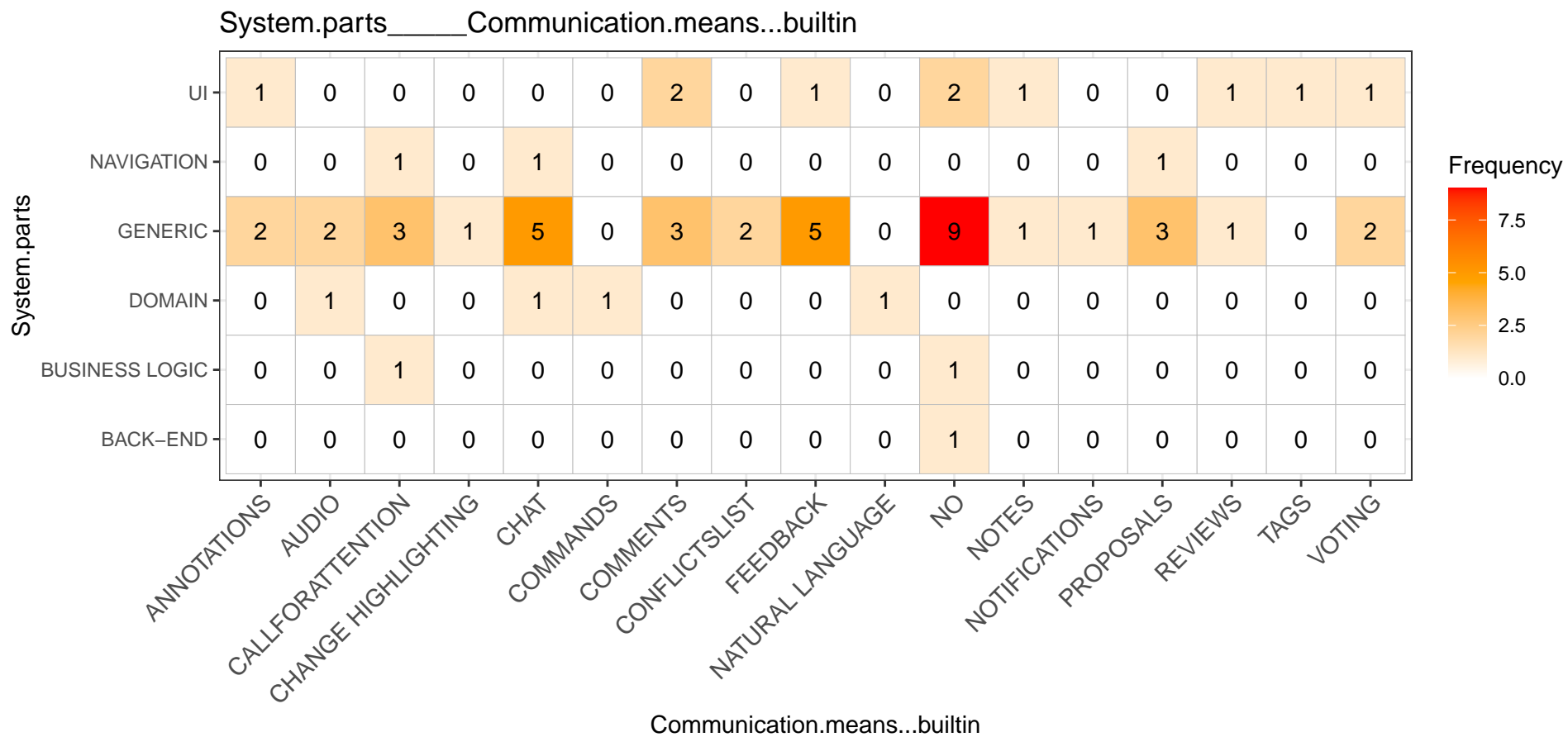




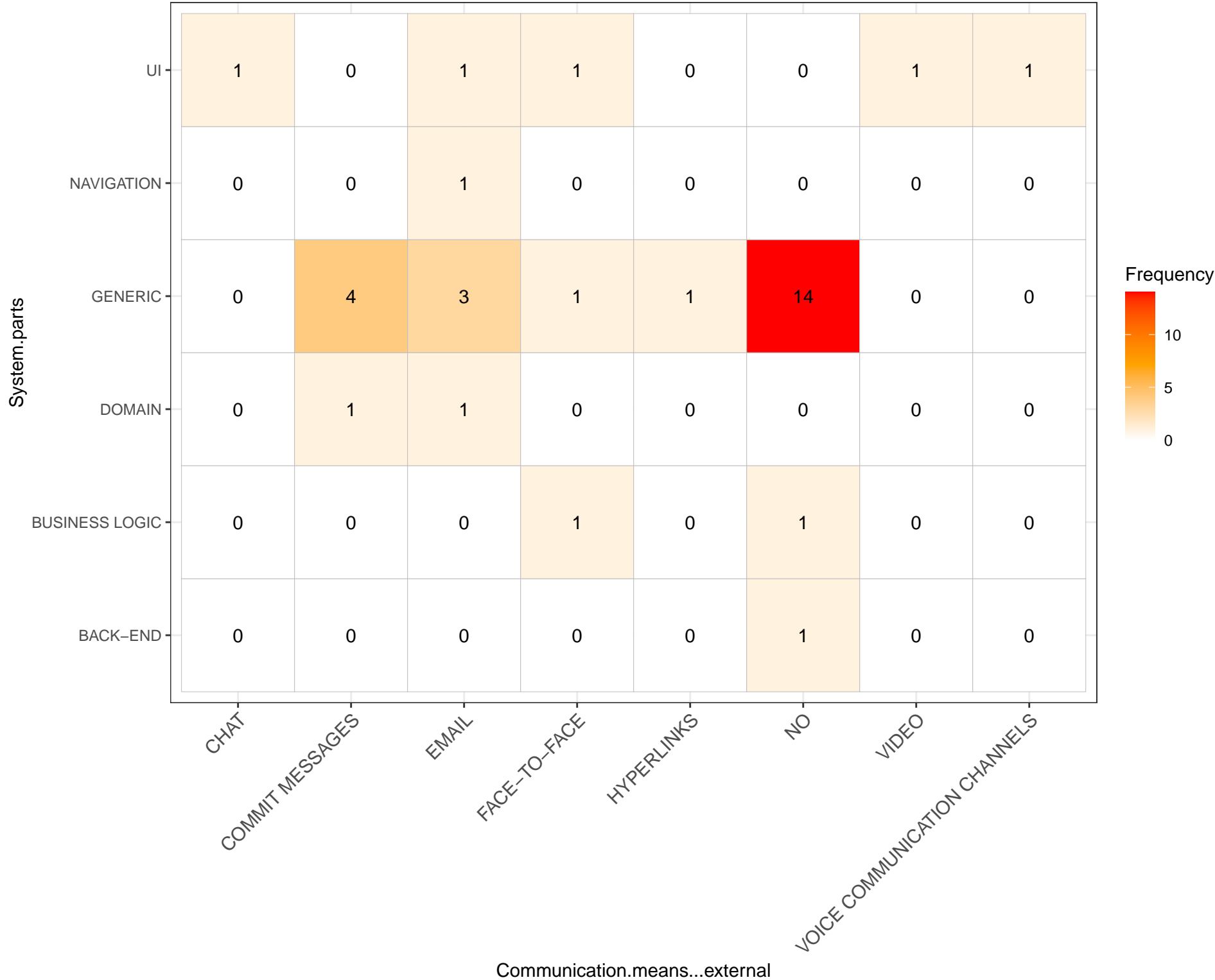




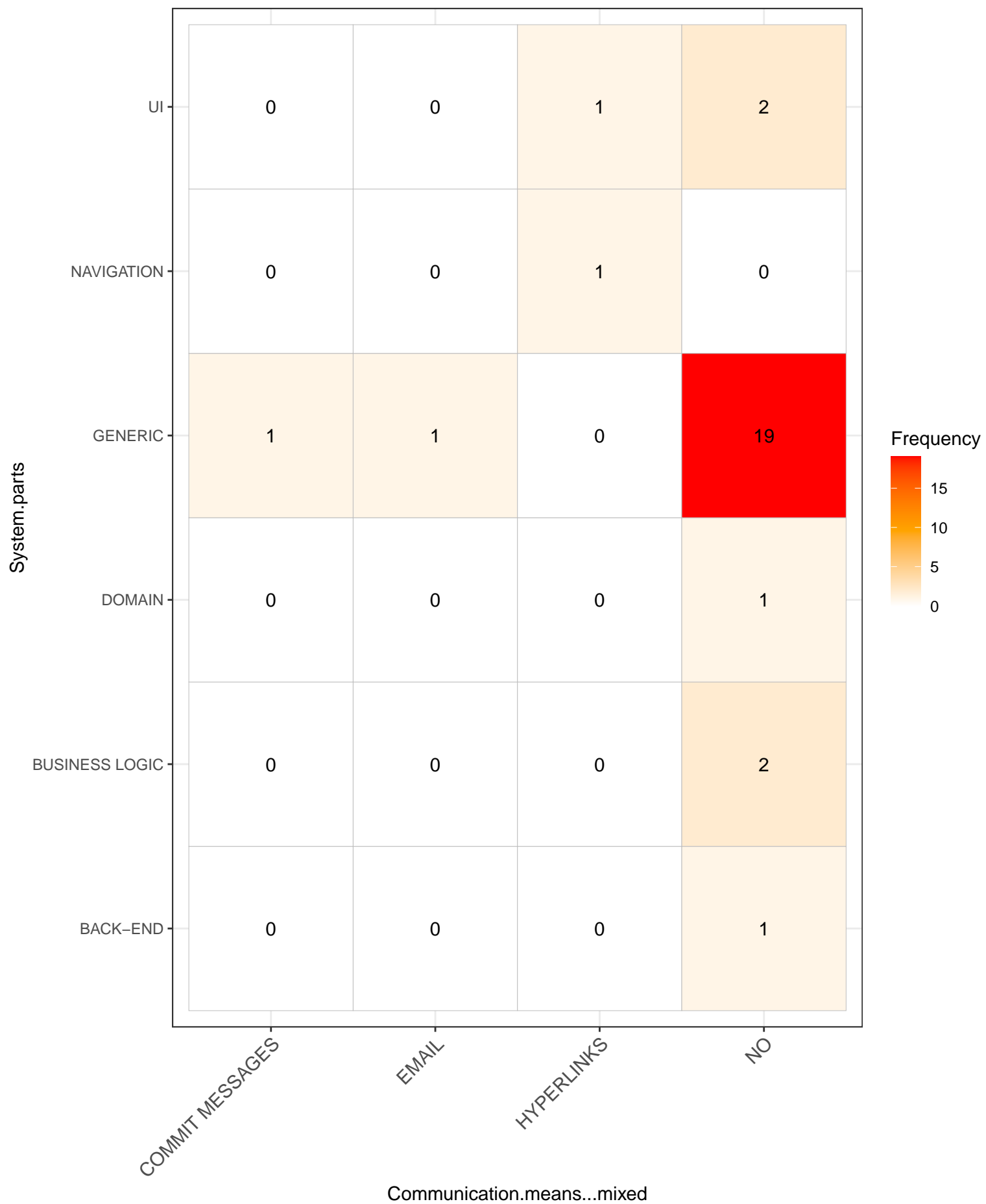


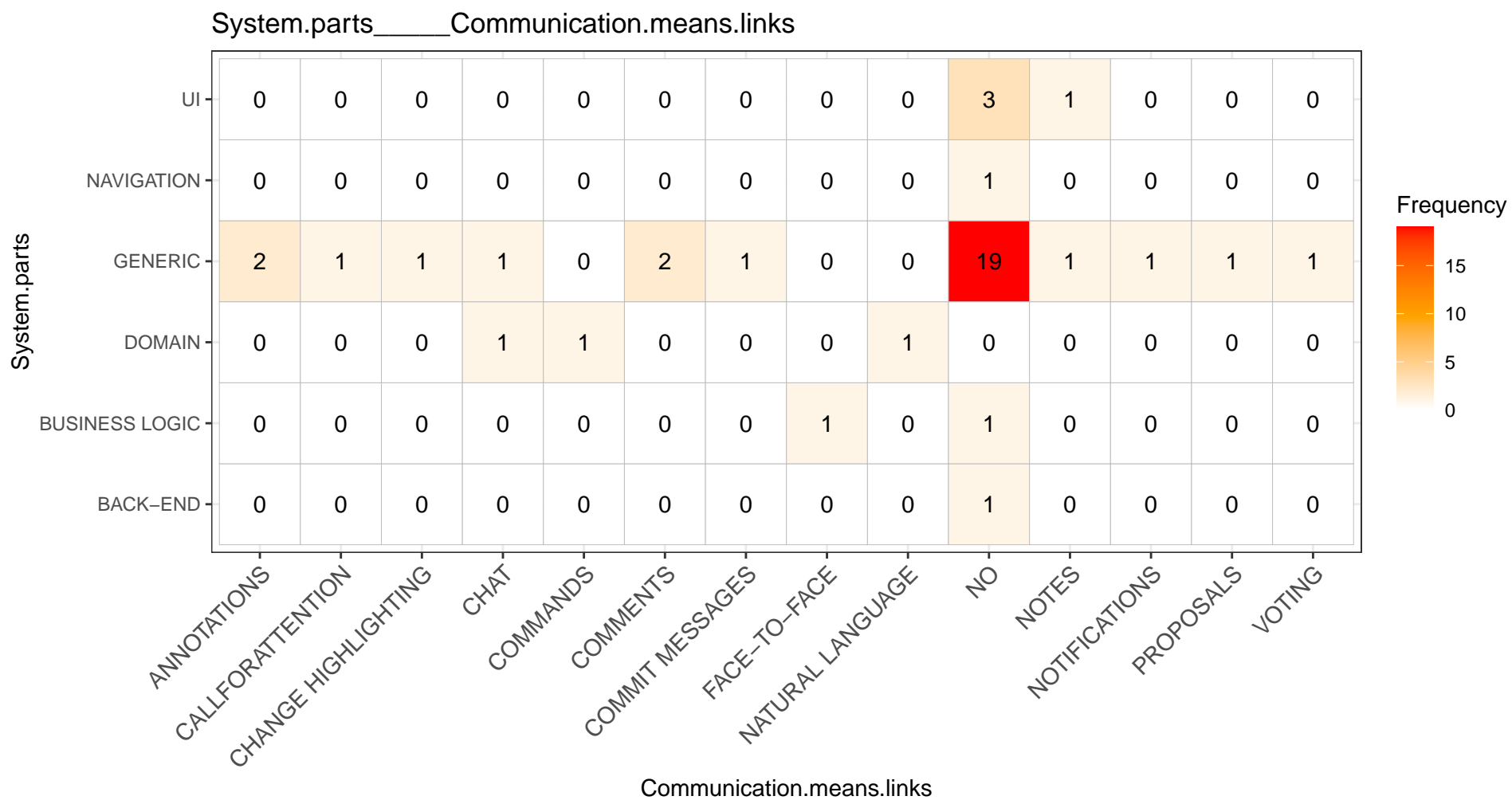


System.parts_____Communication.means...external

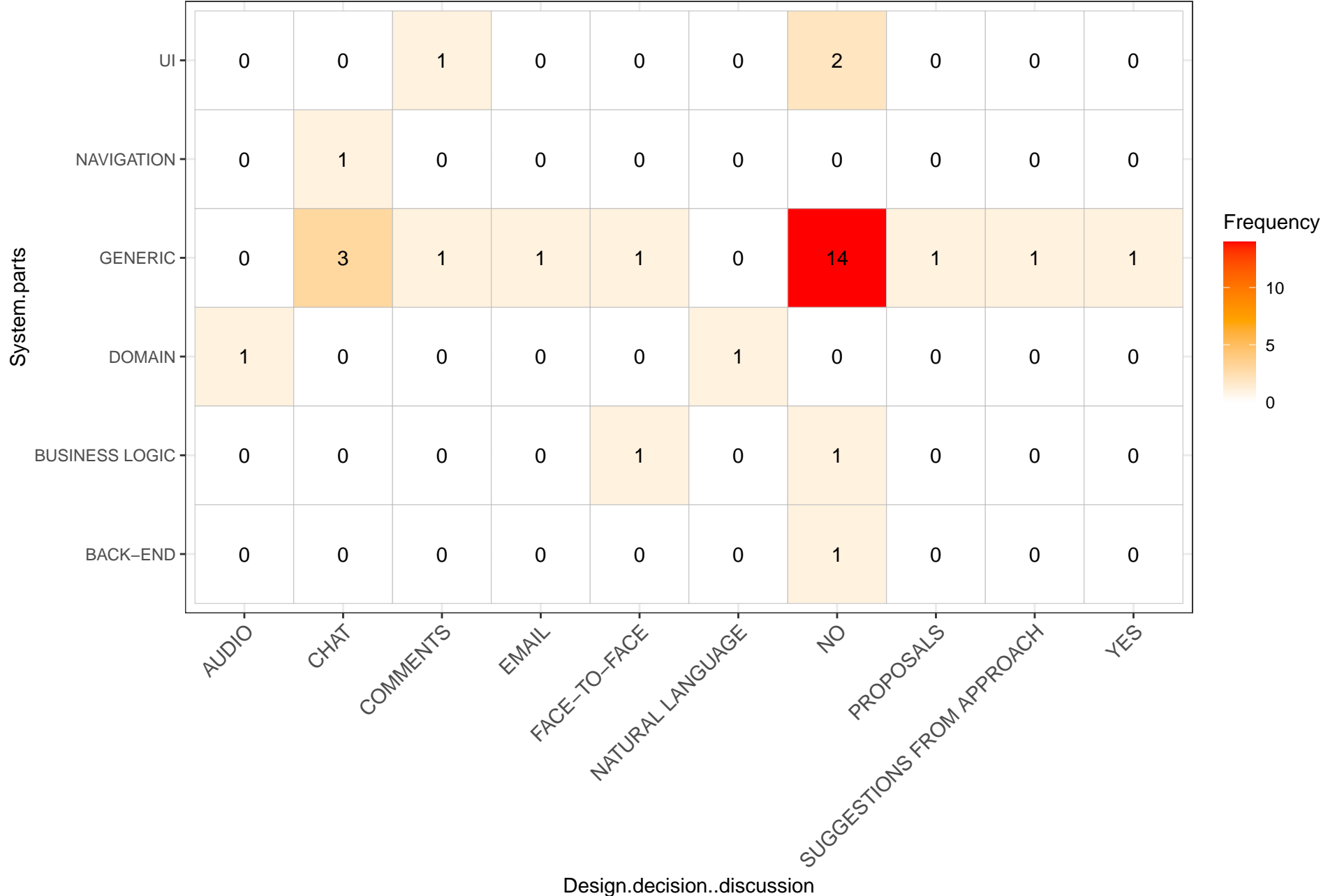


System.parts_____Communication.means...mixed

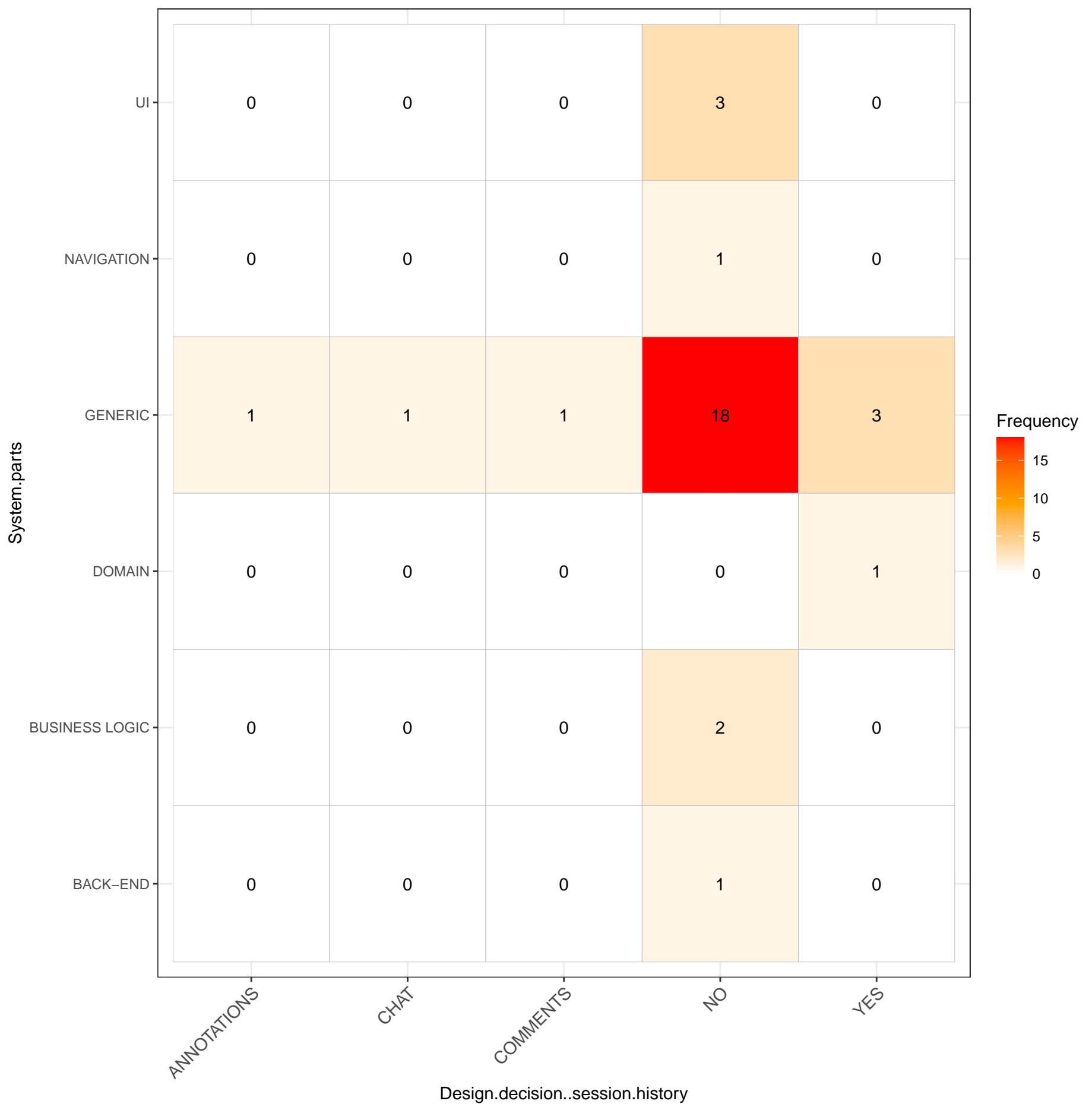


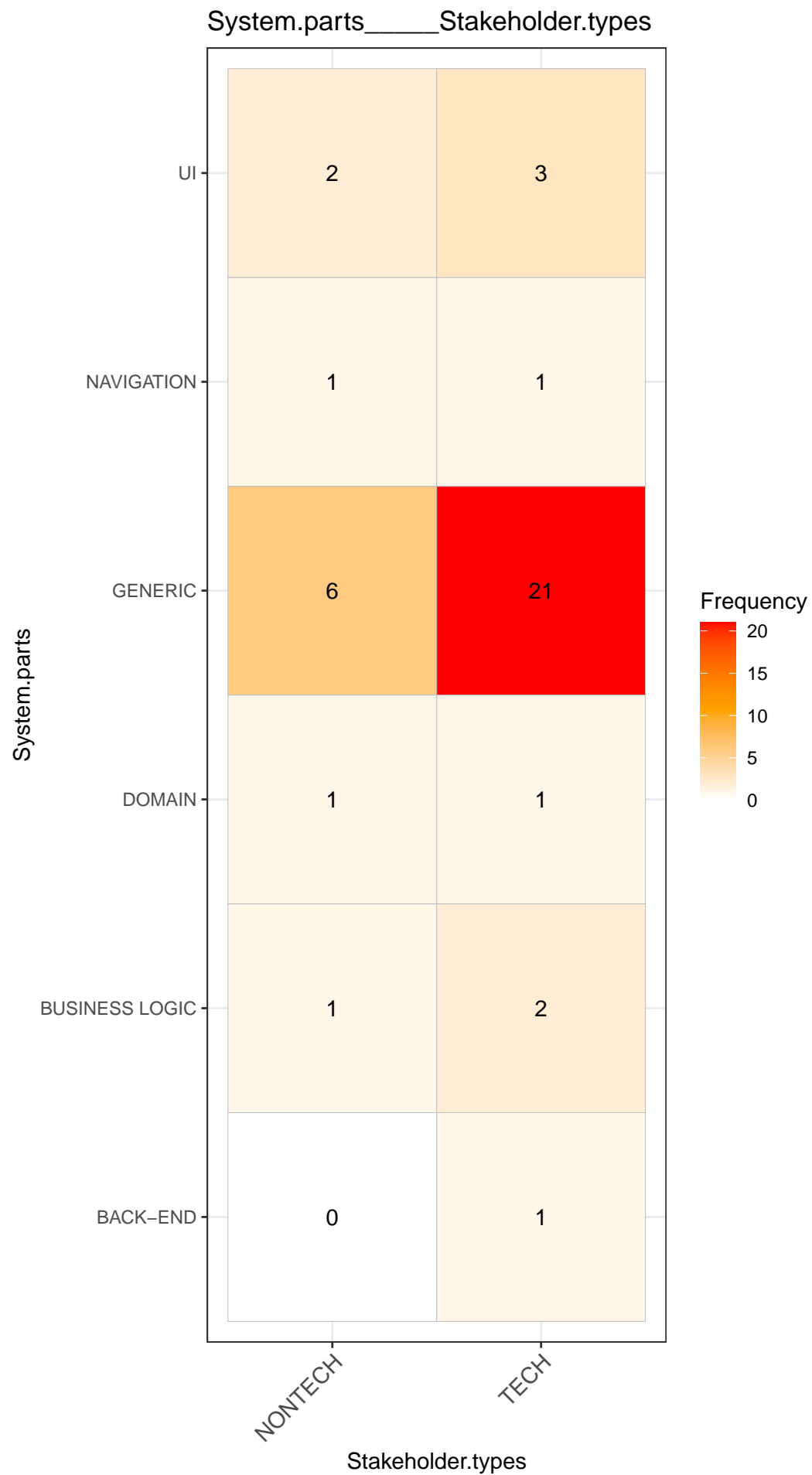


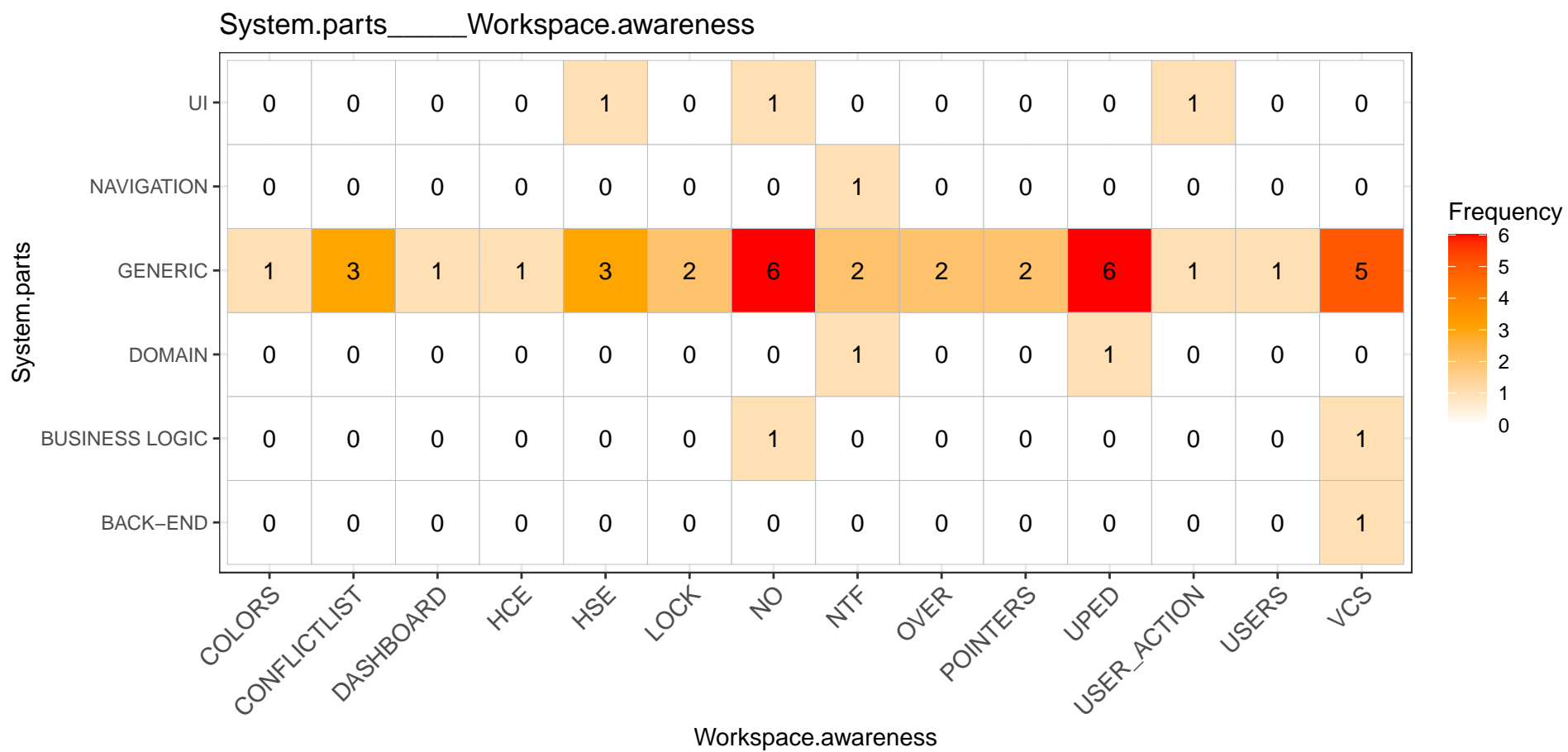
System.parts_____Design.decision..discussion

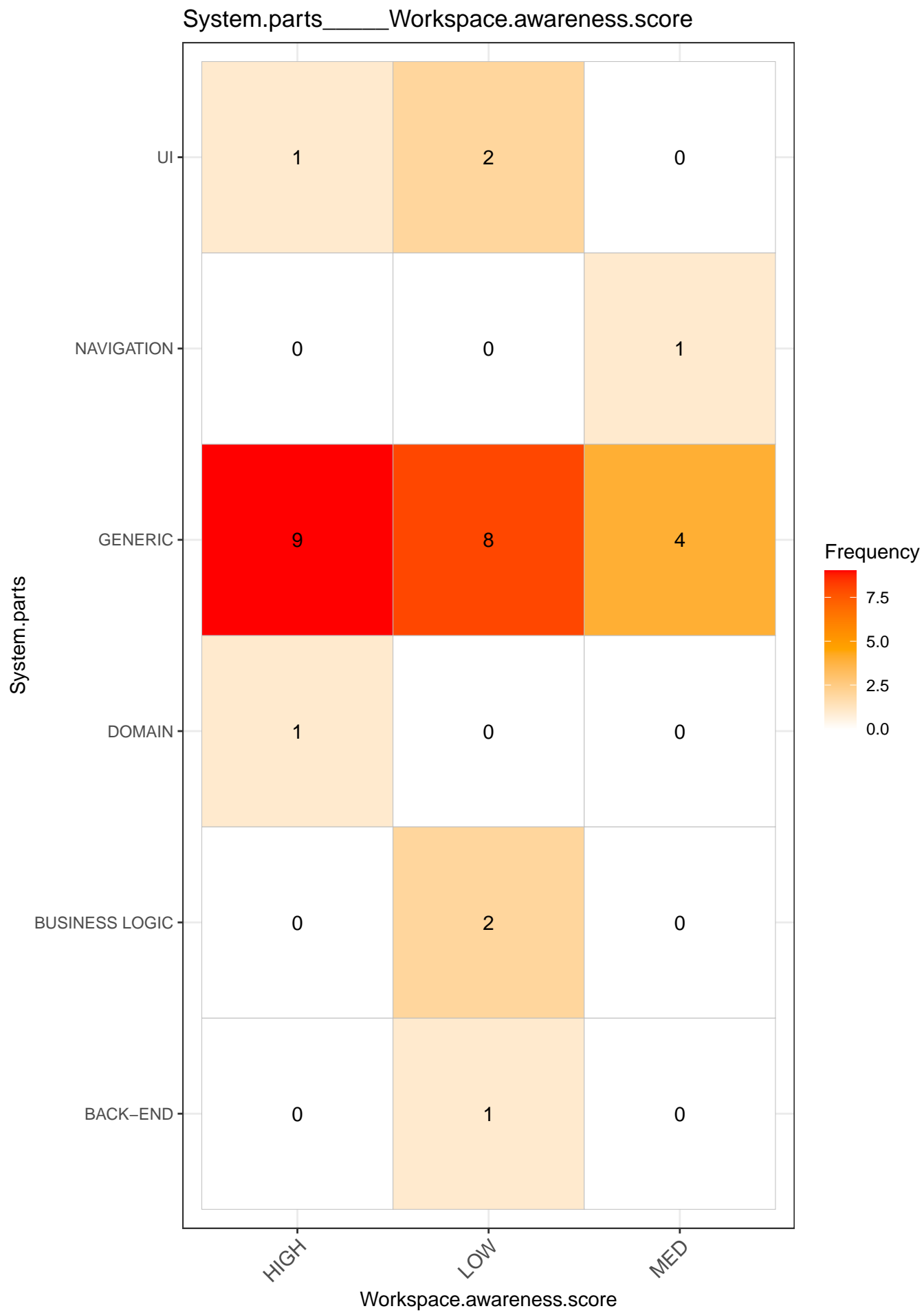


System.parts_____Design.decision..session.history

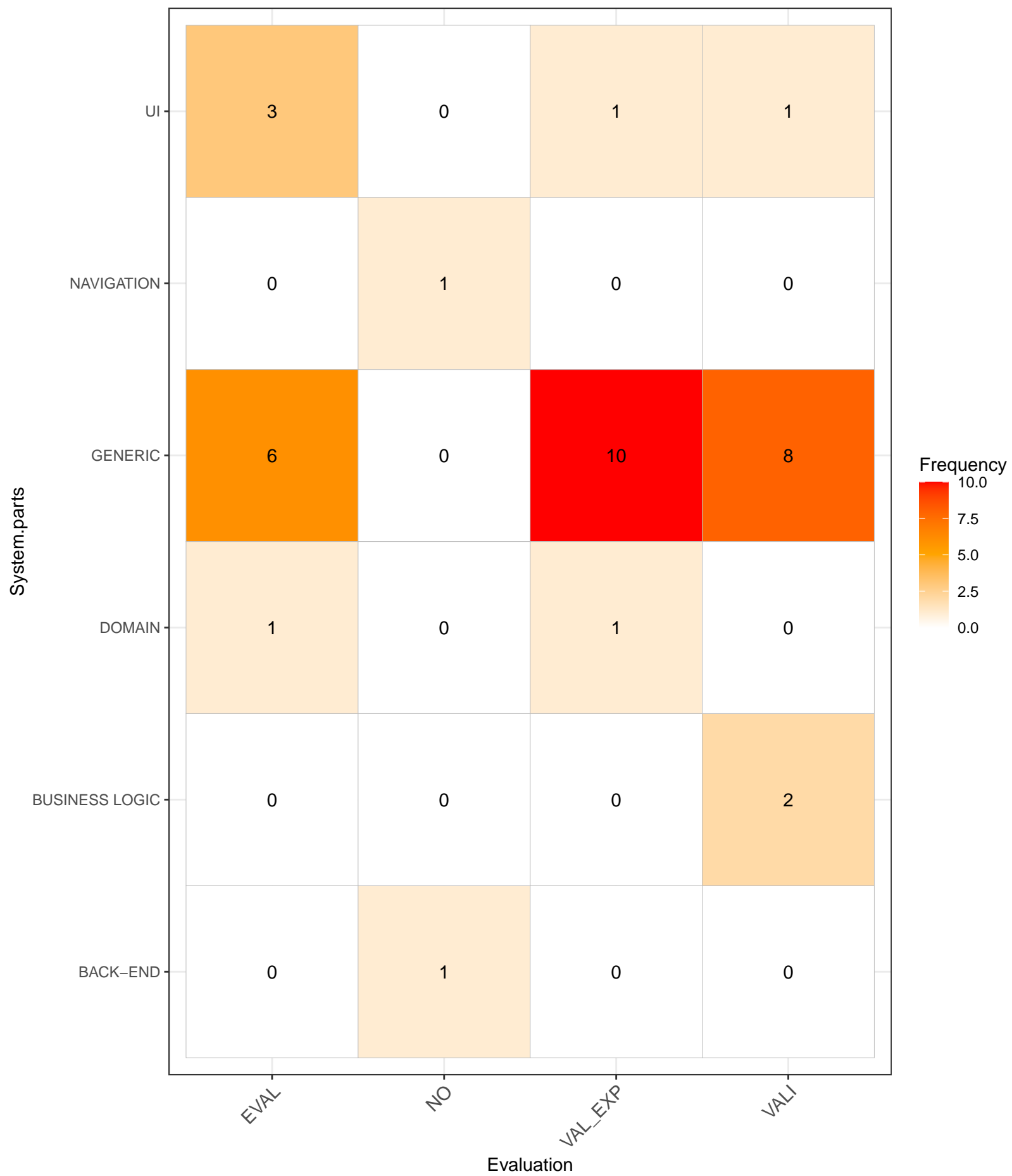




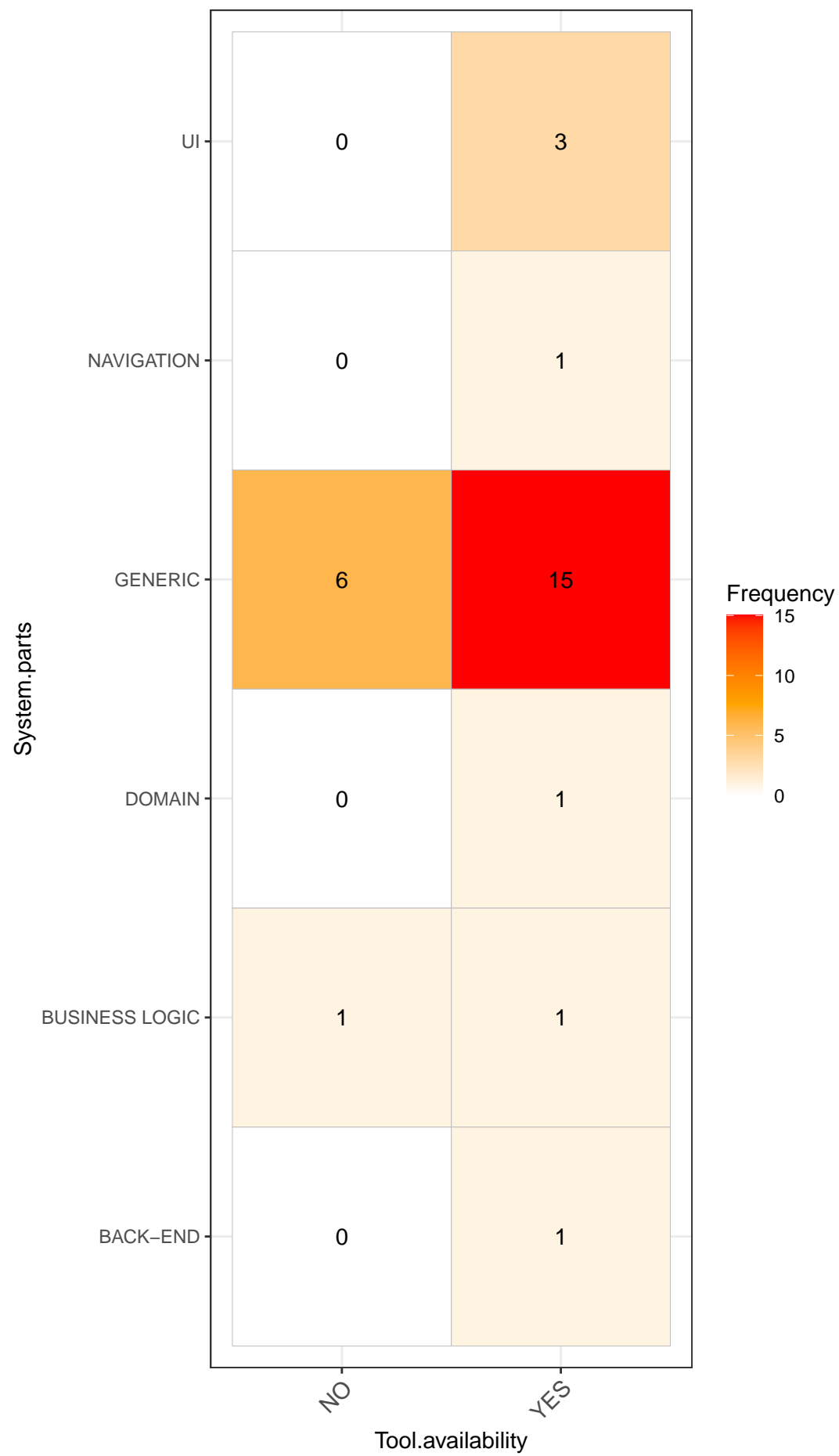


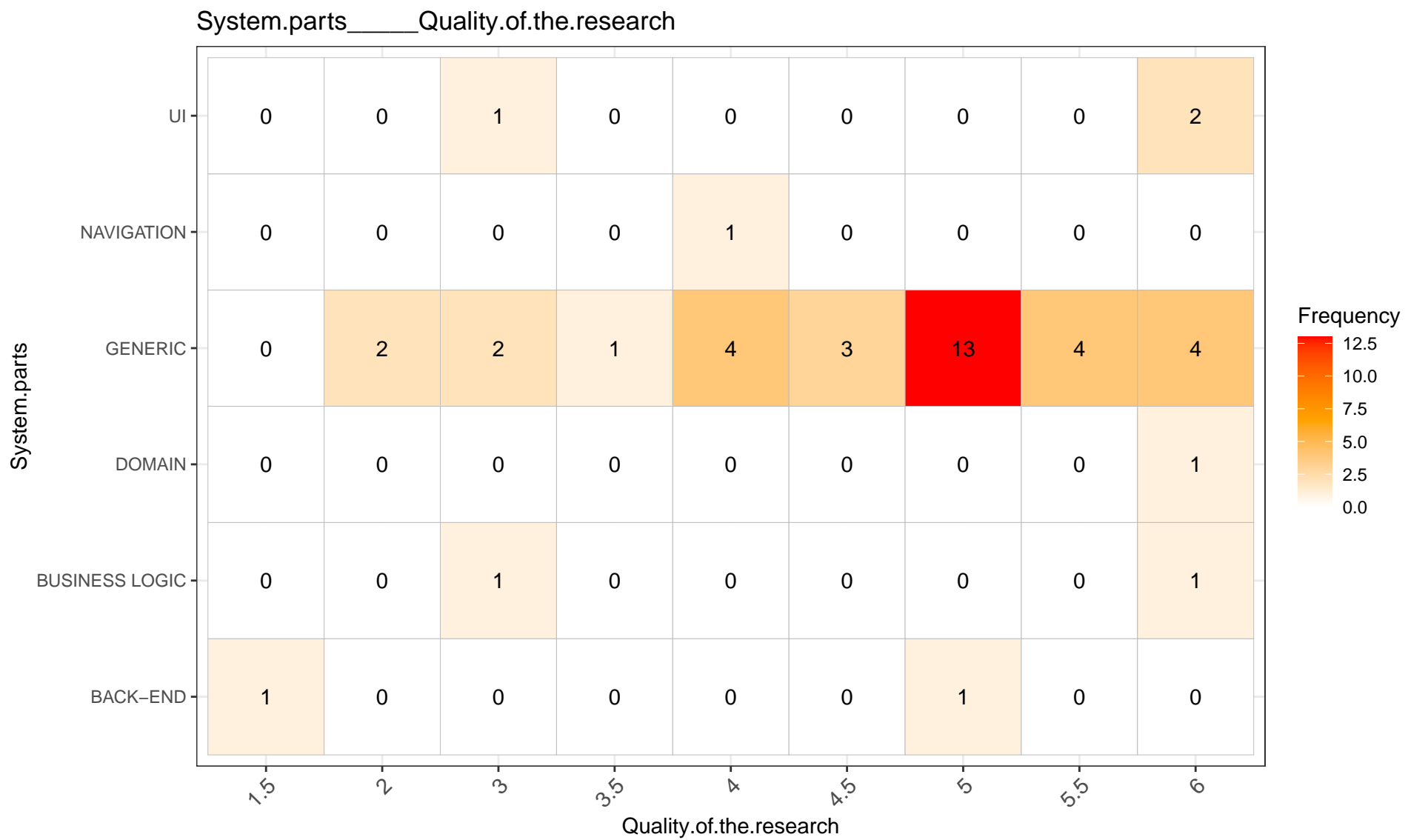


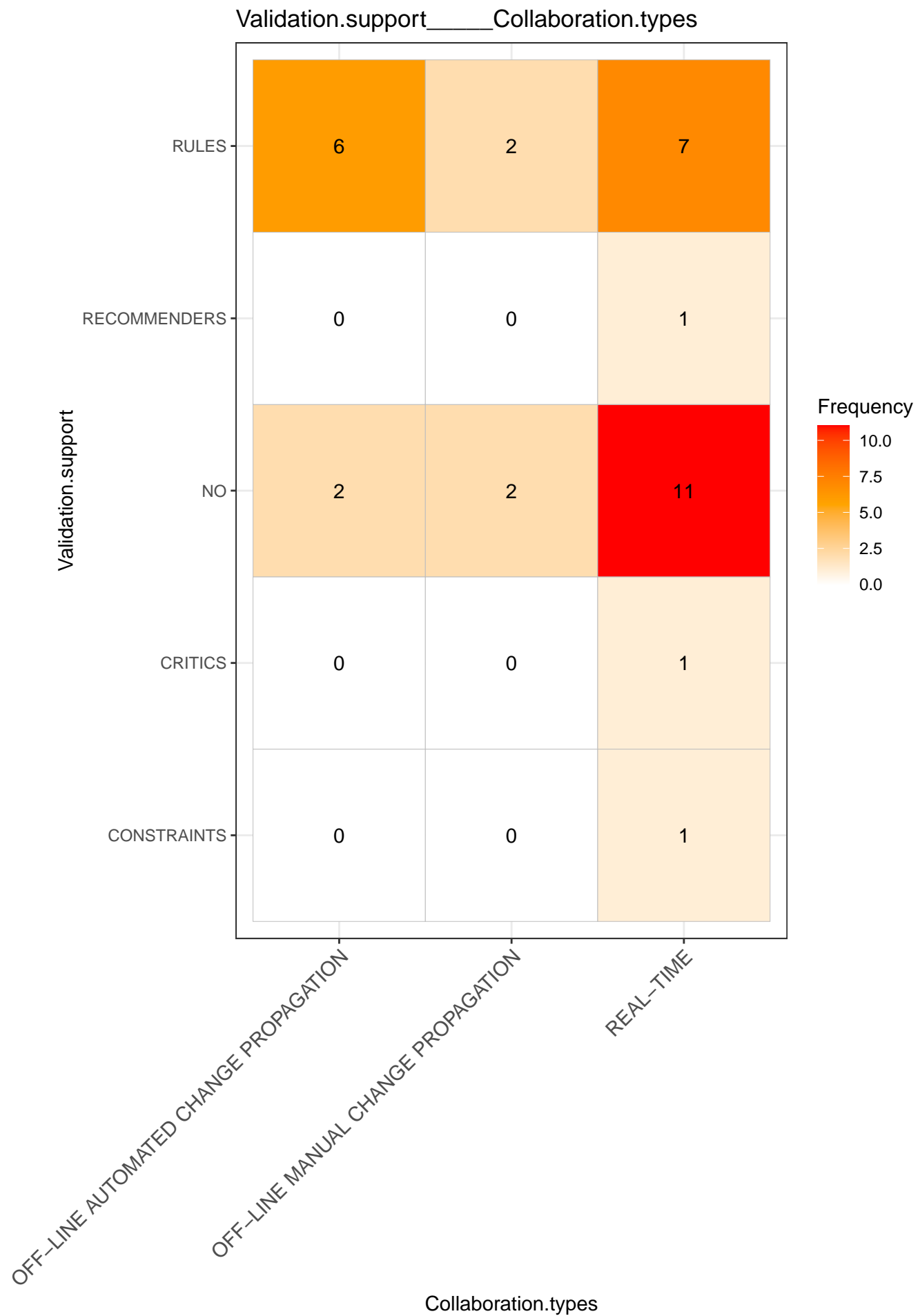
System.parts_Evaluation

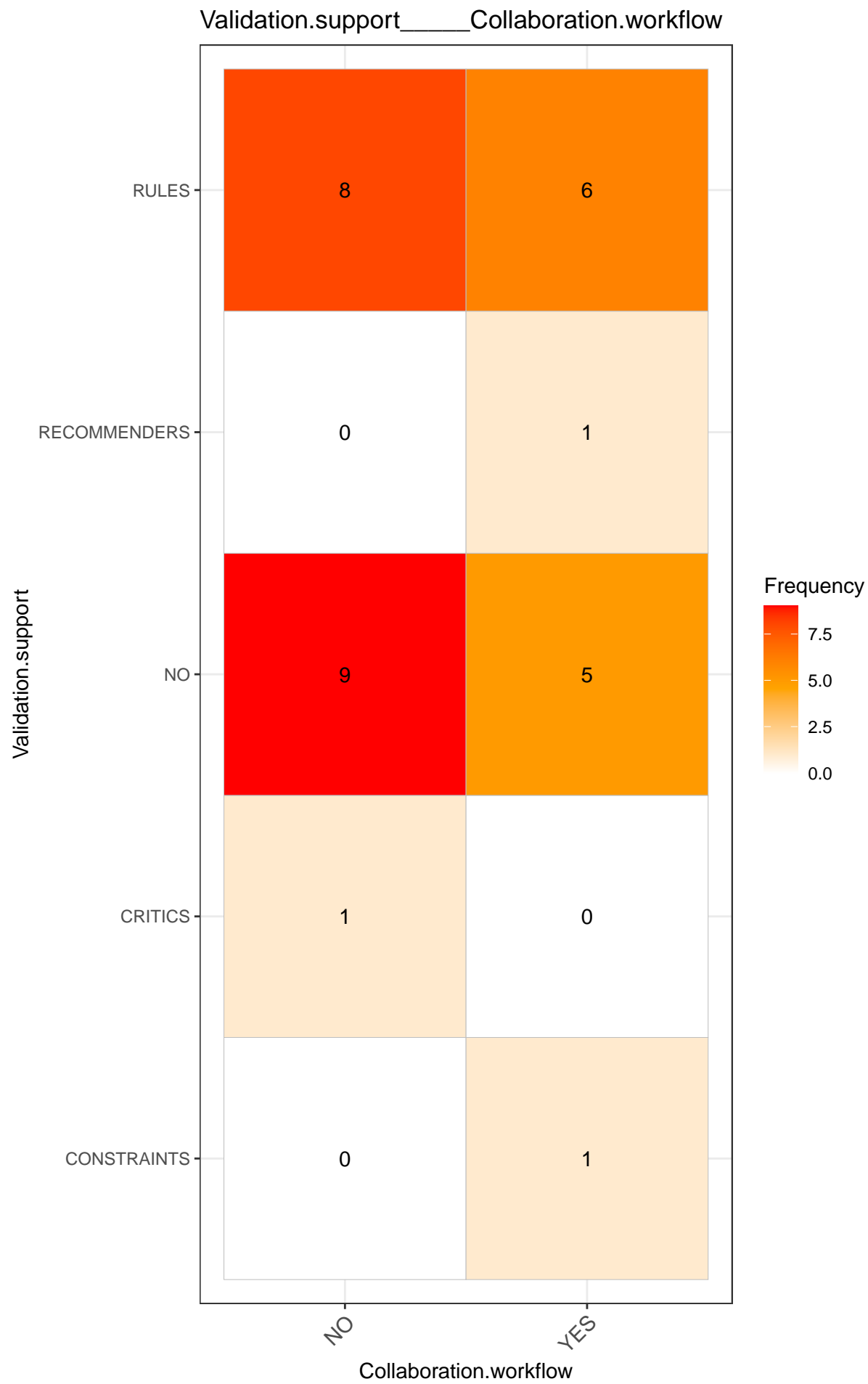


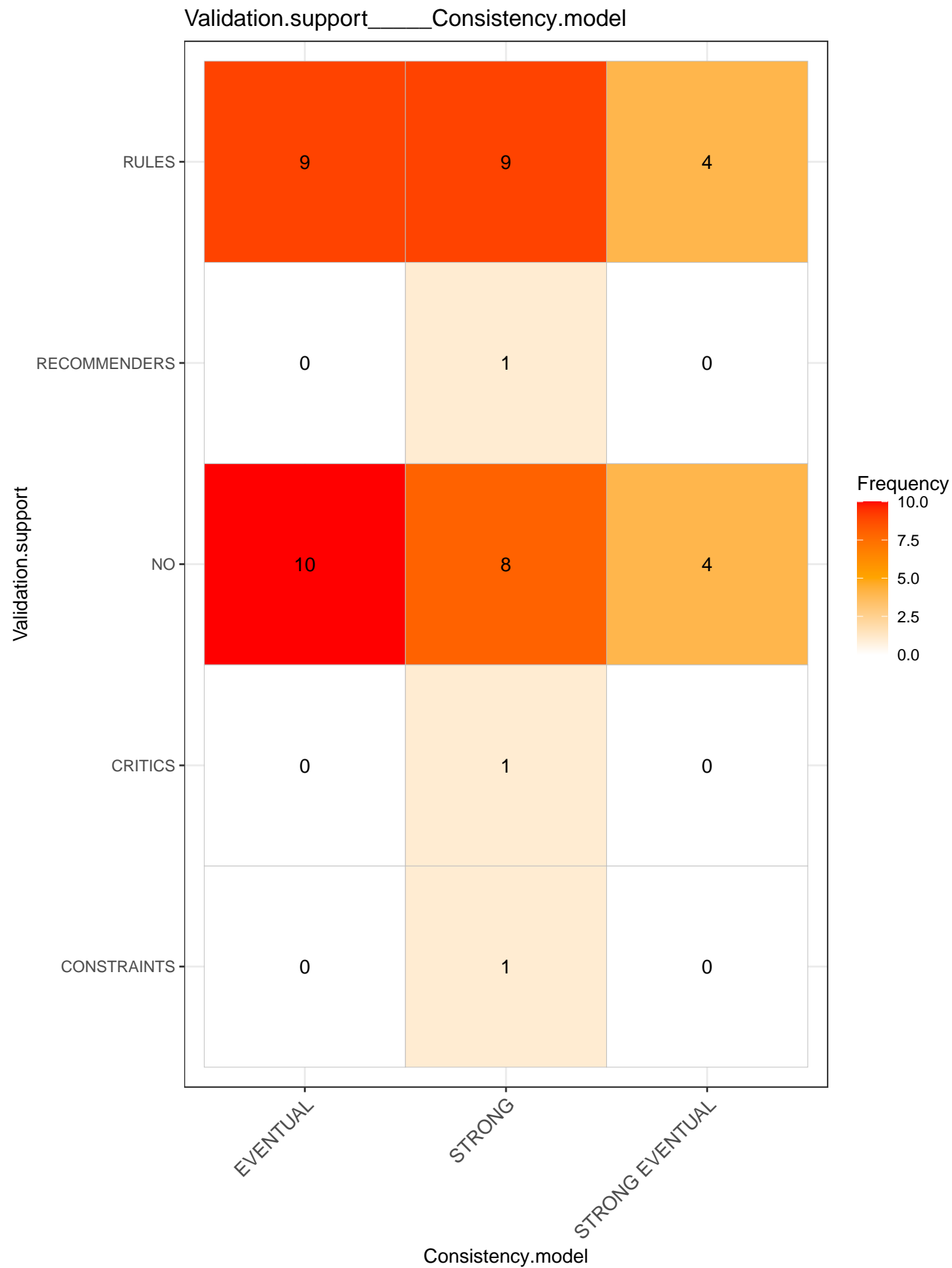
System.parts_____Tool.availability

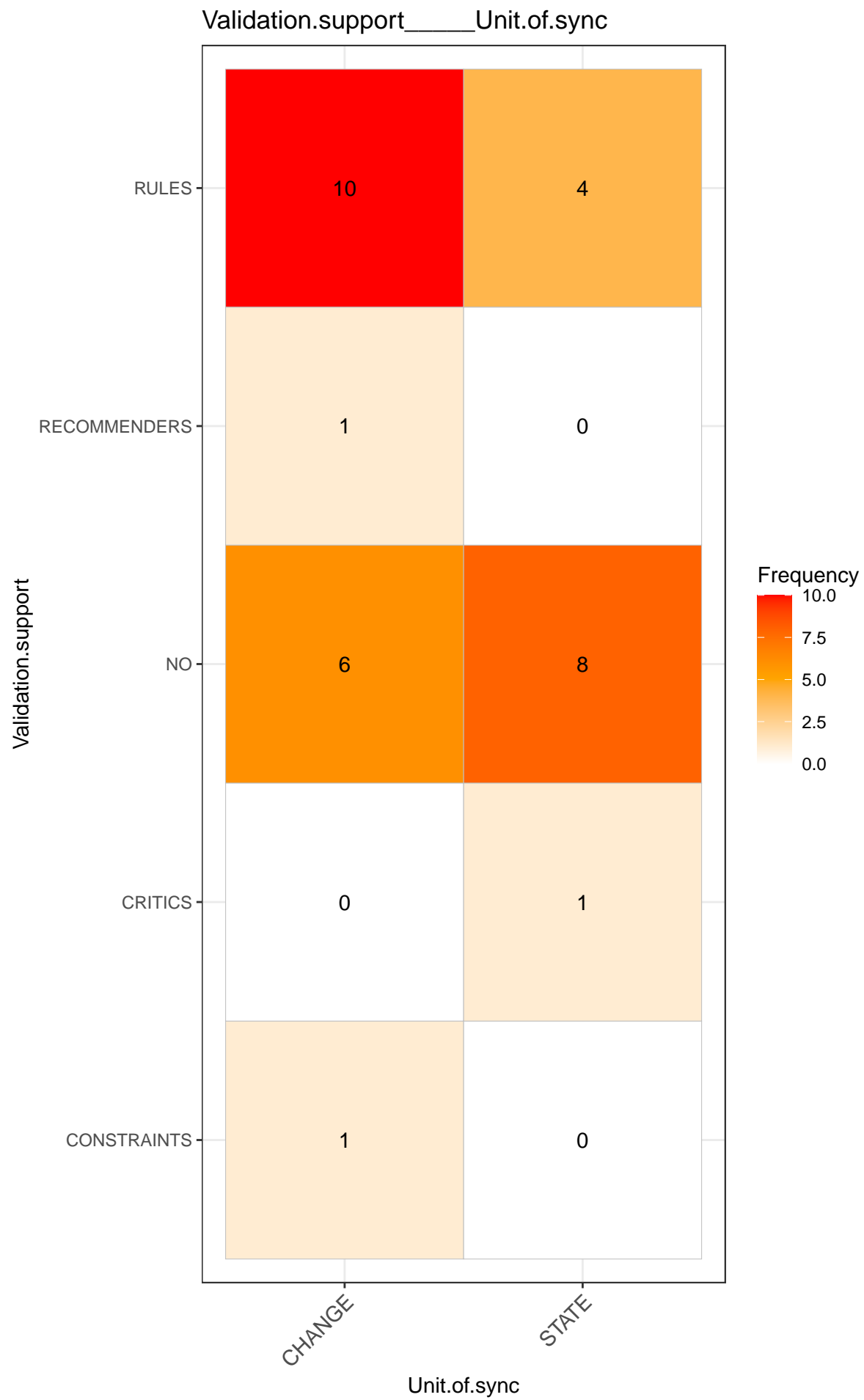


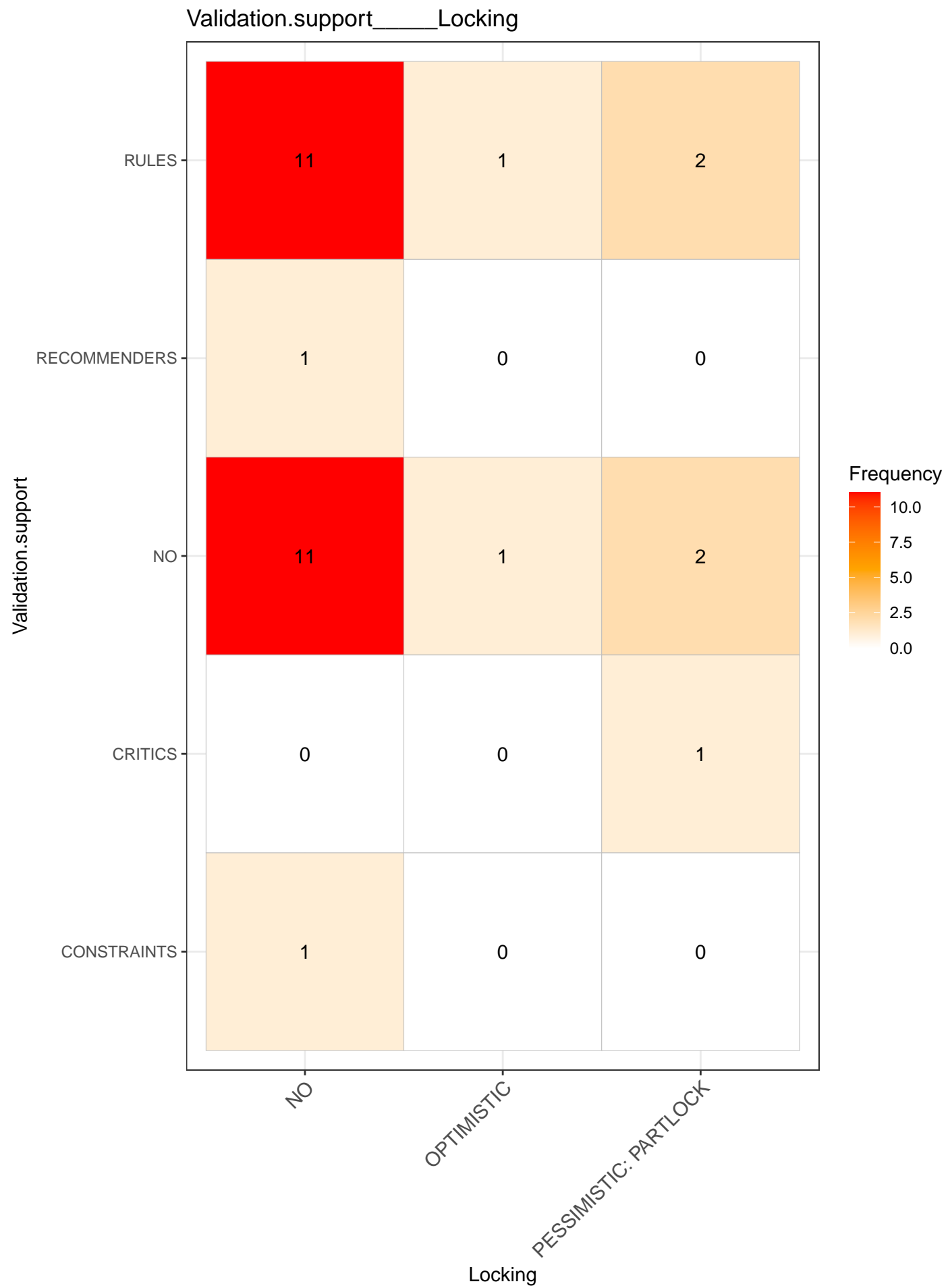


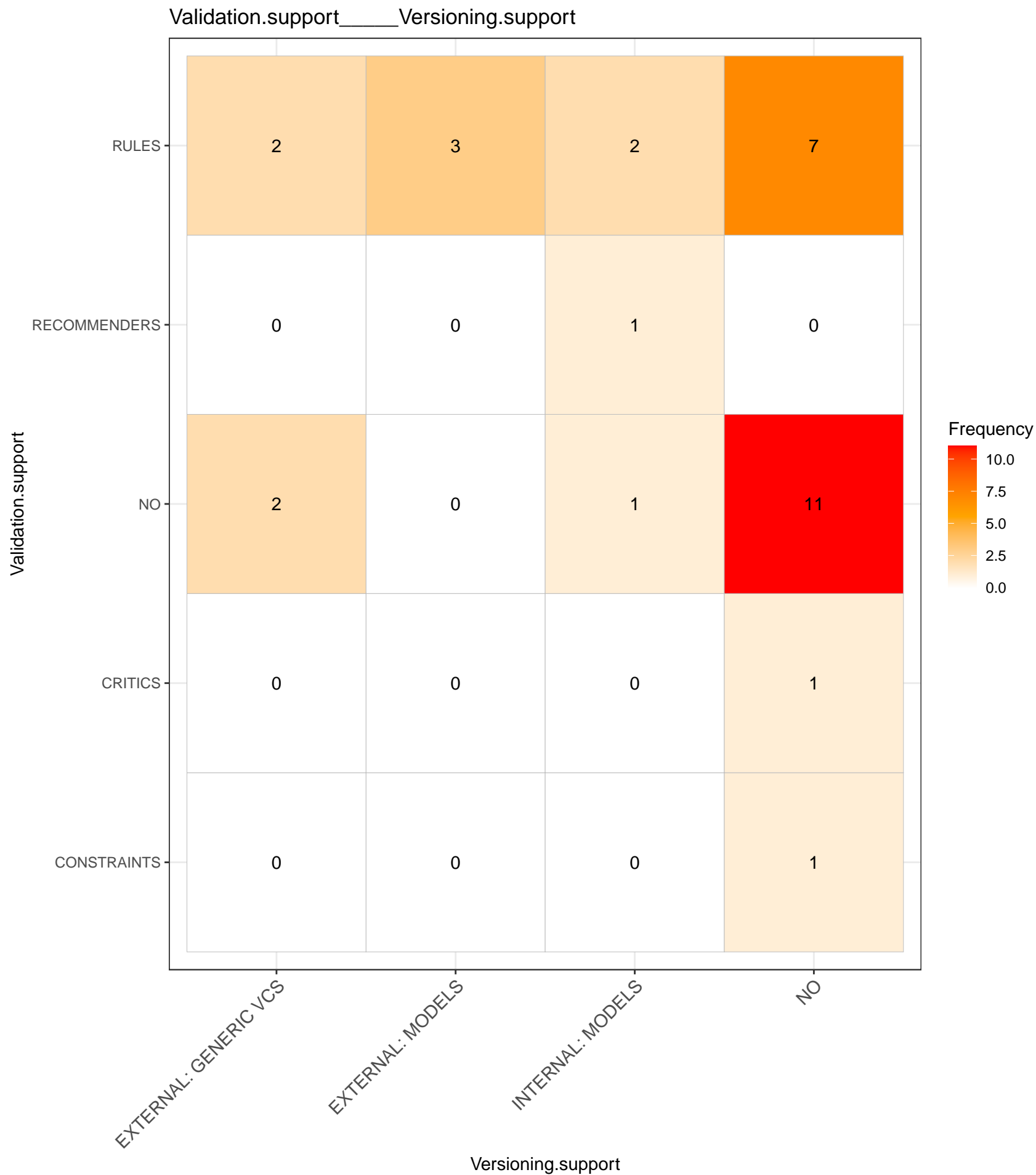


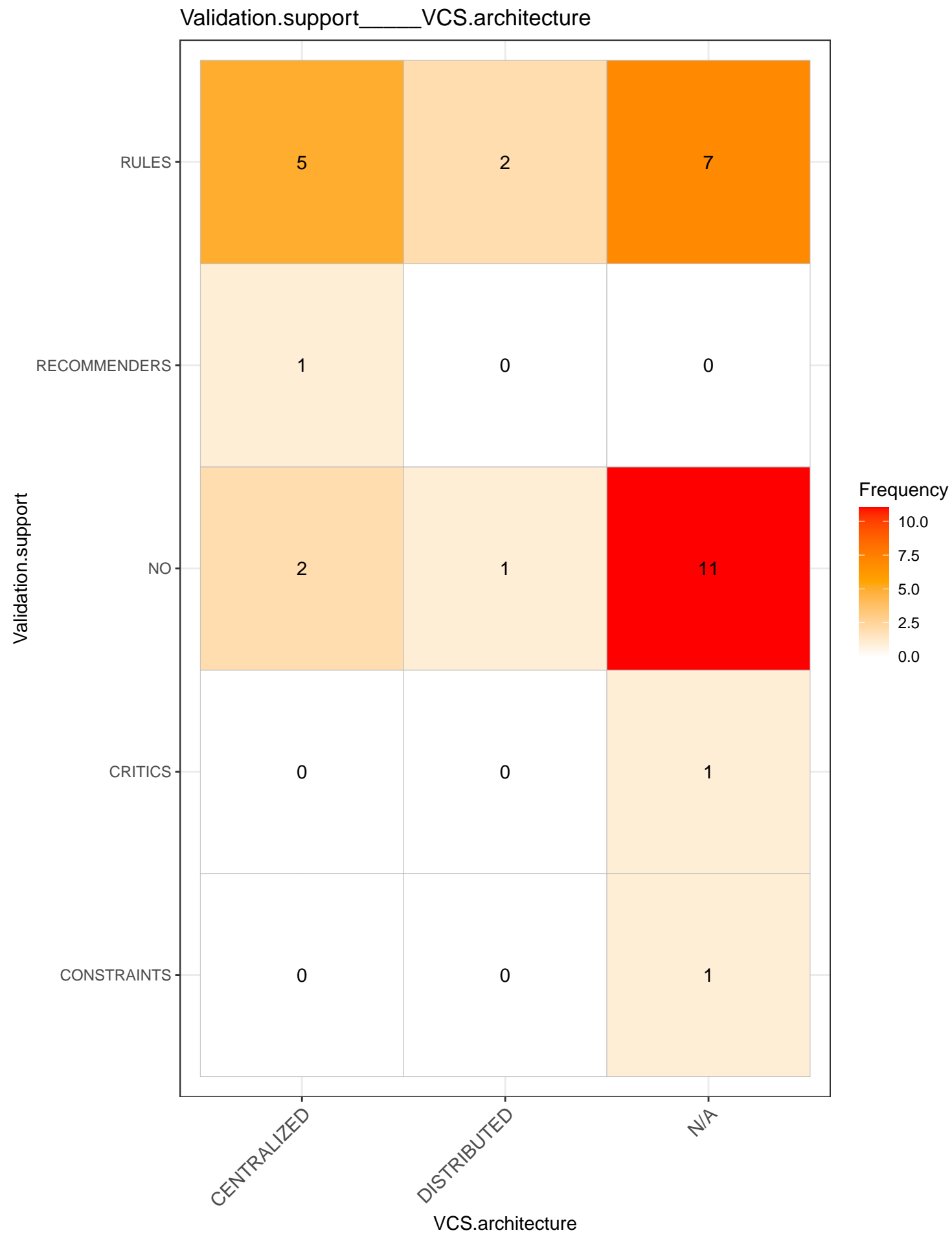




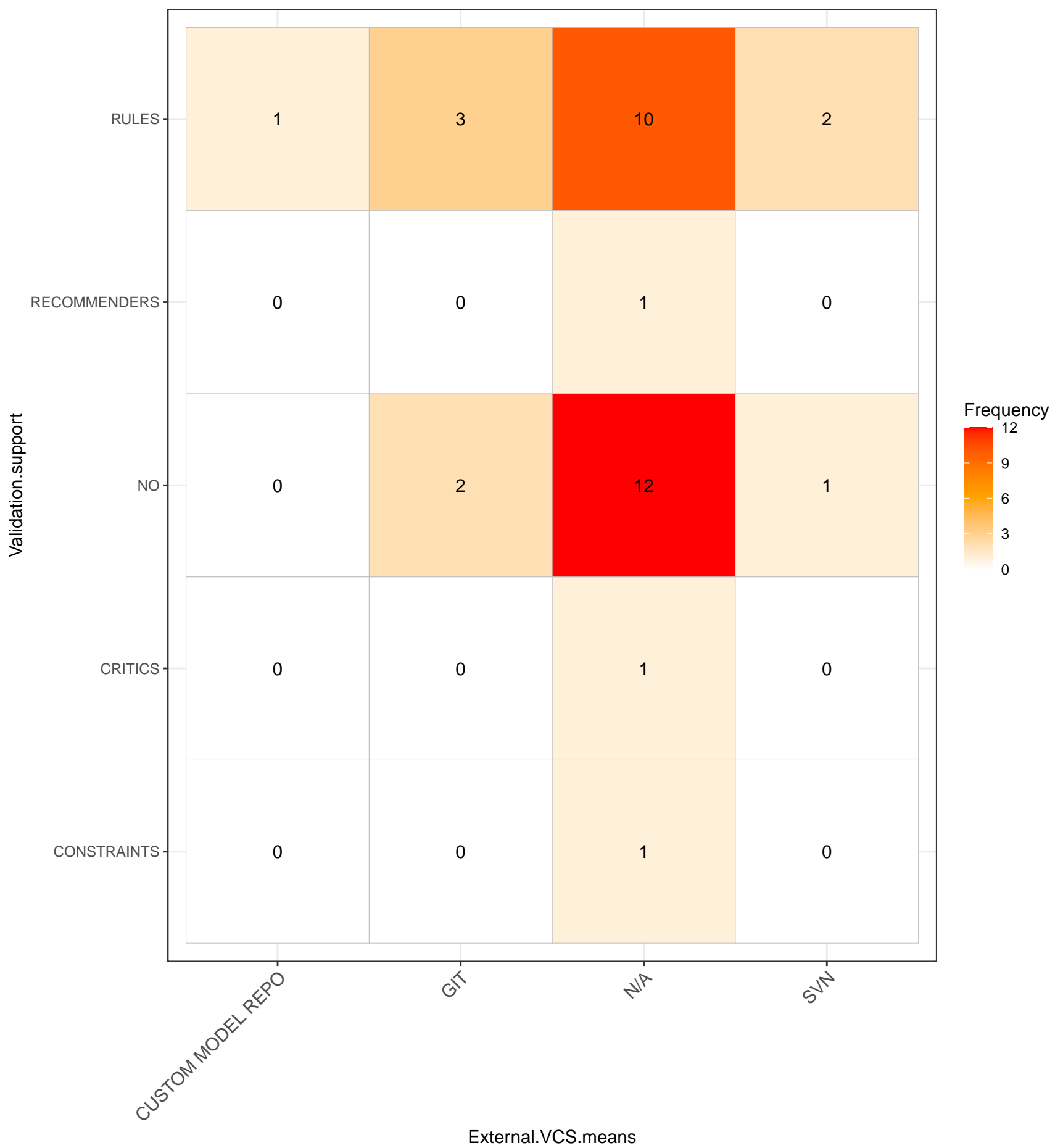




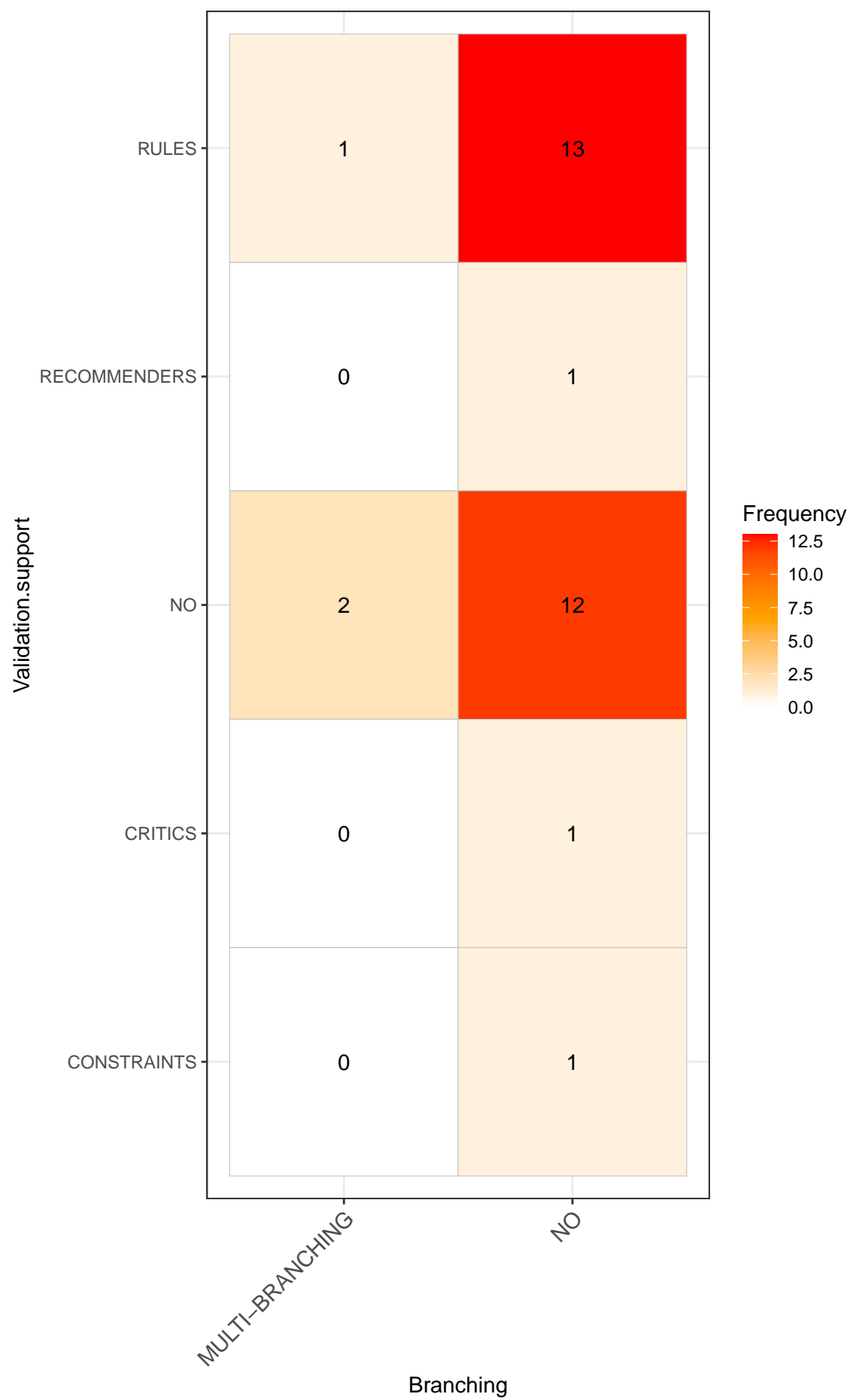


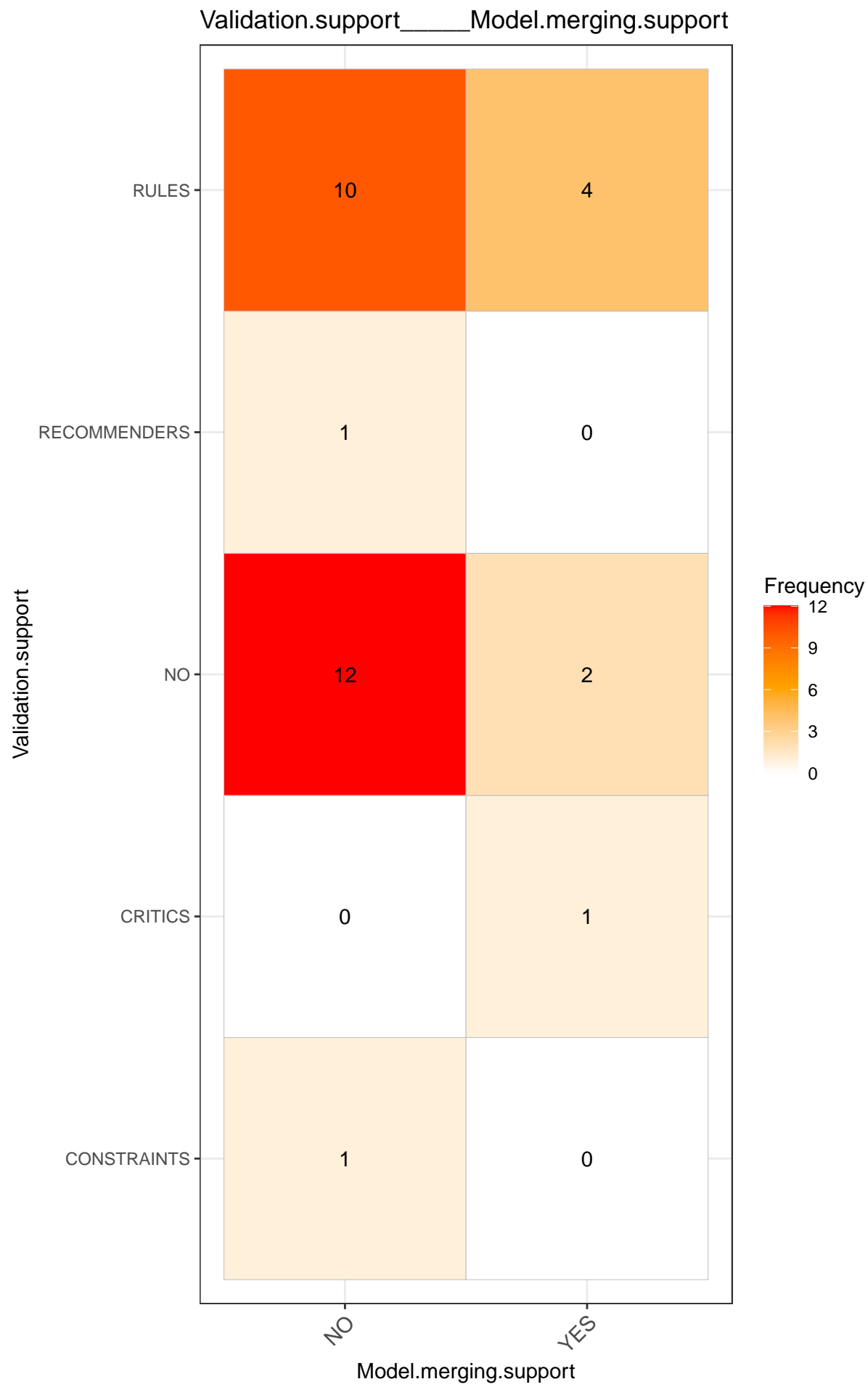


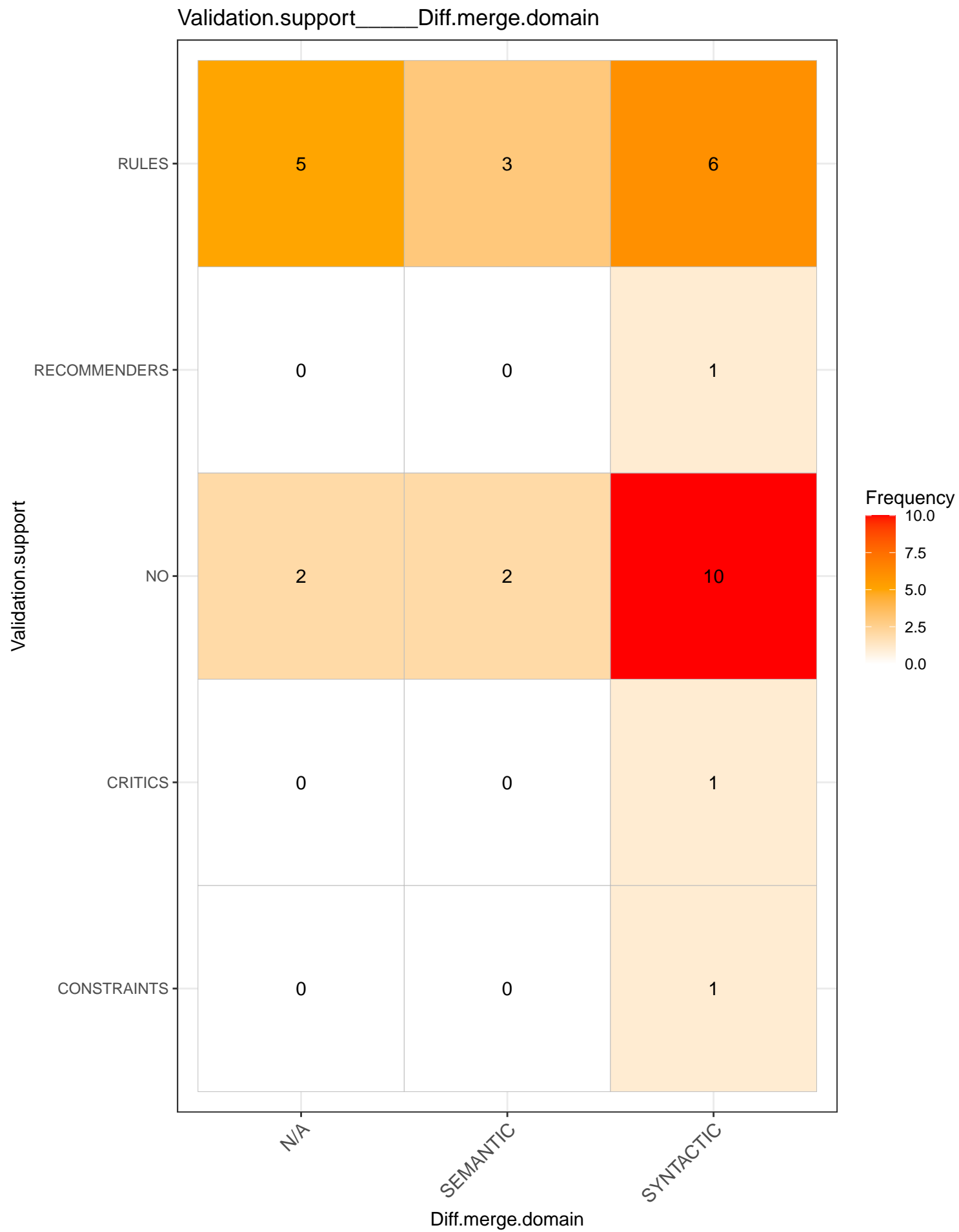
Validation.support_____External.VCS.means

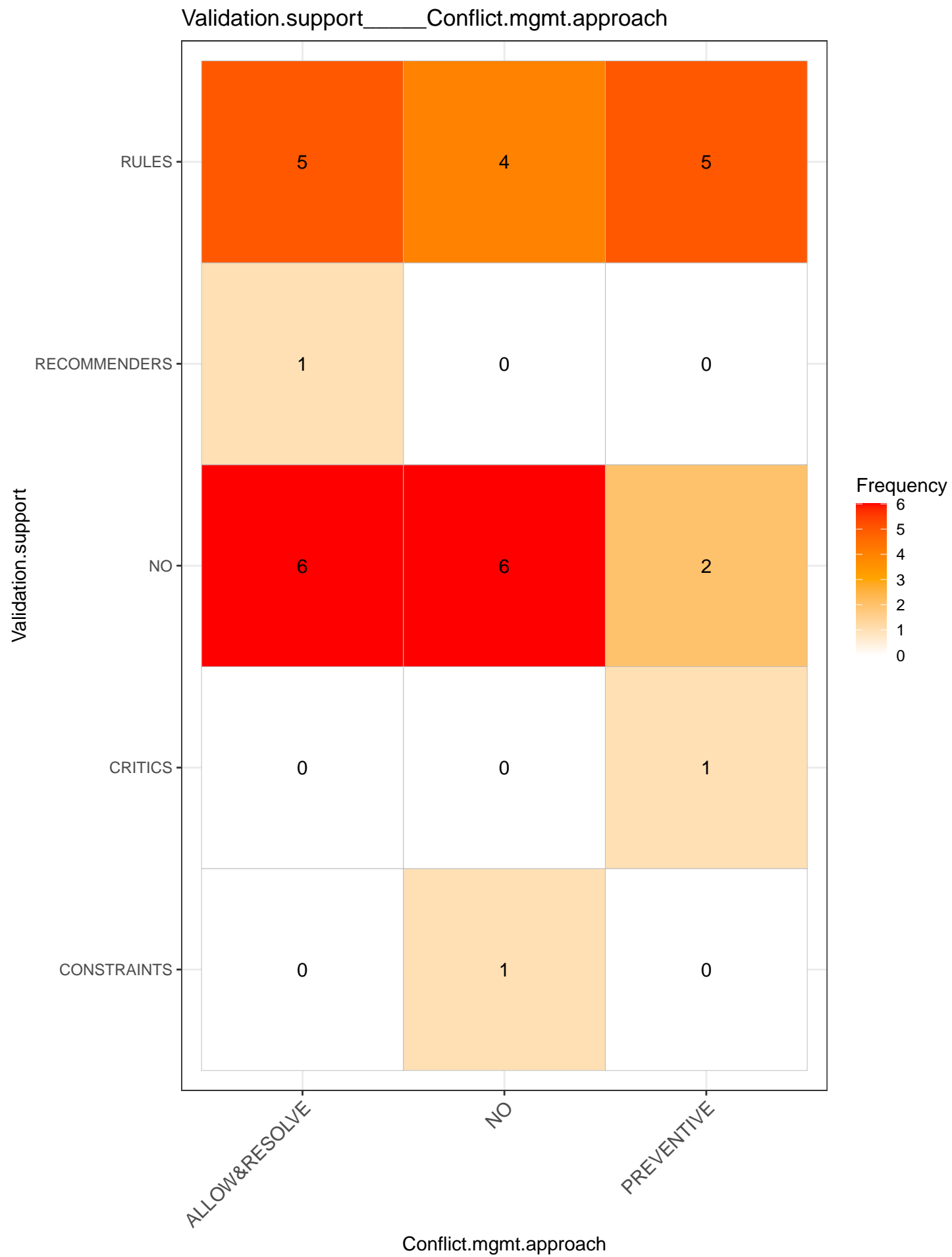


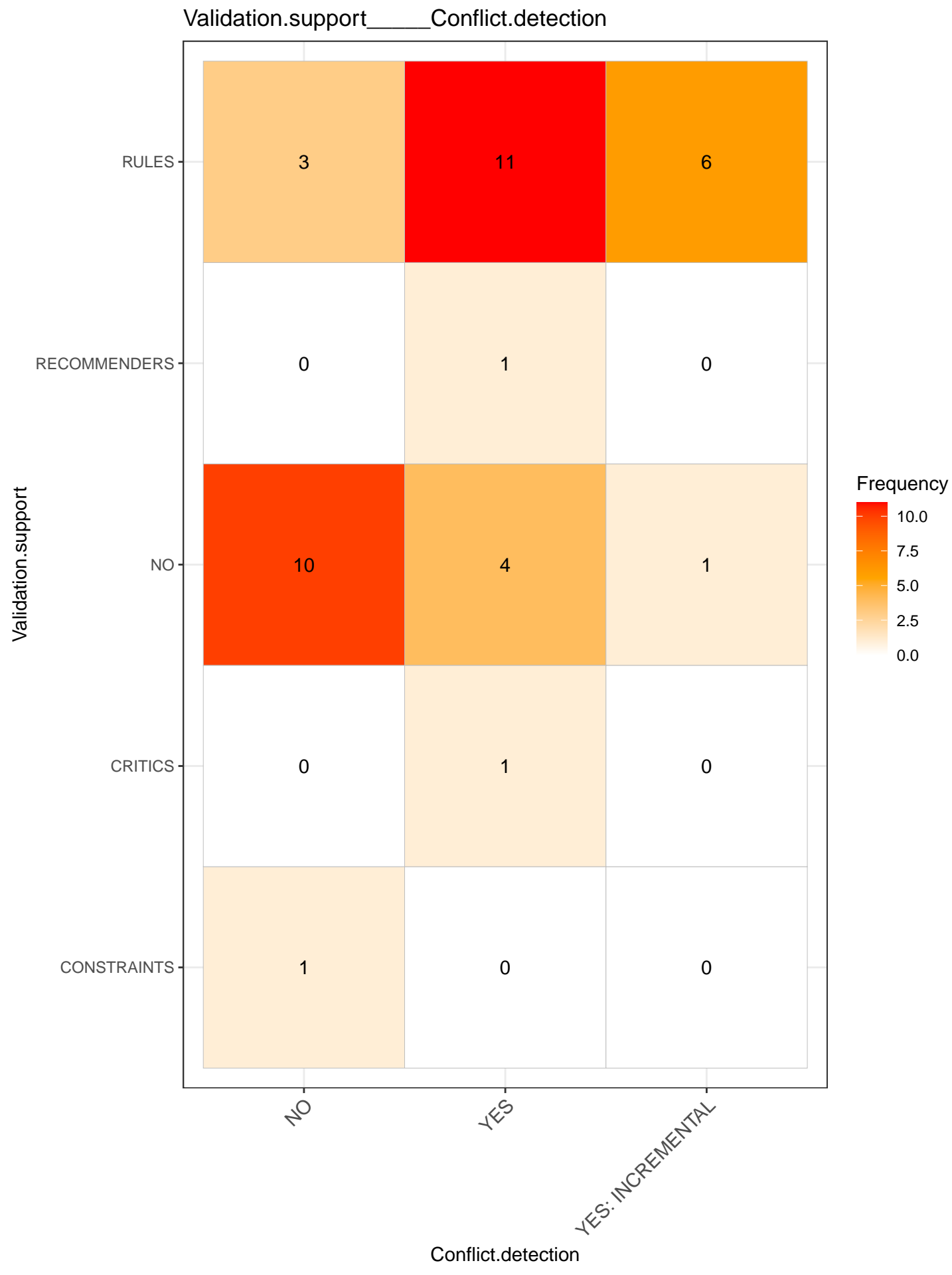
Validation.support_____Branching

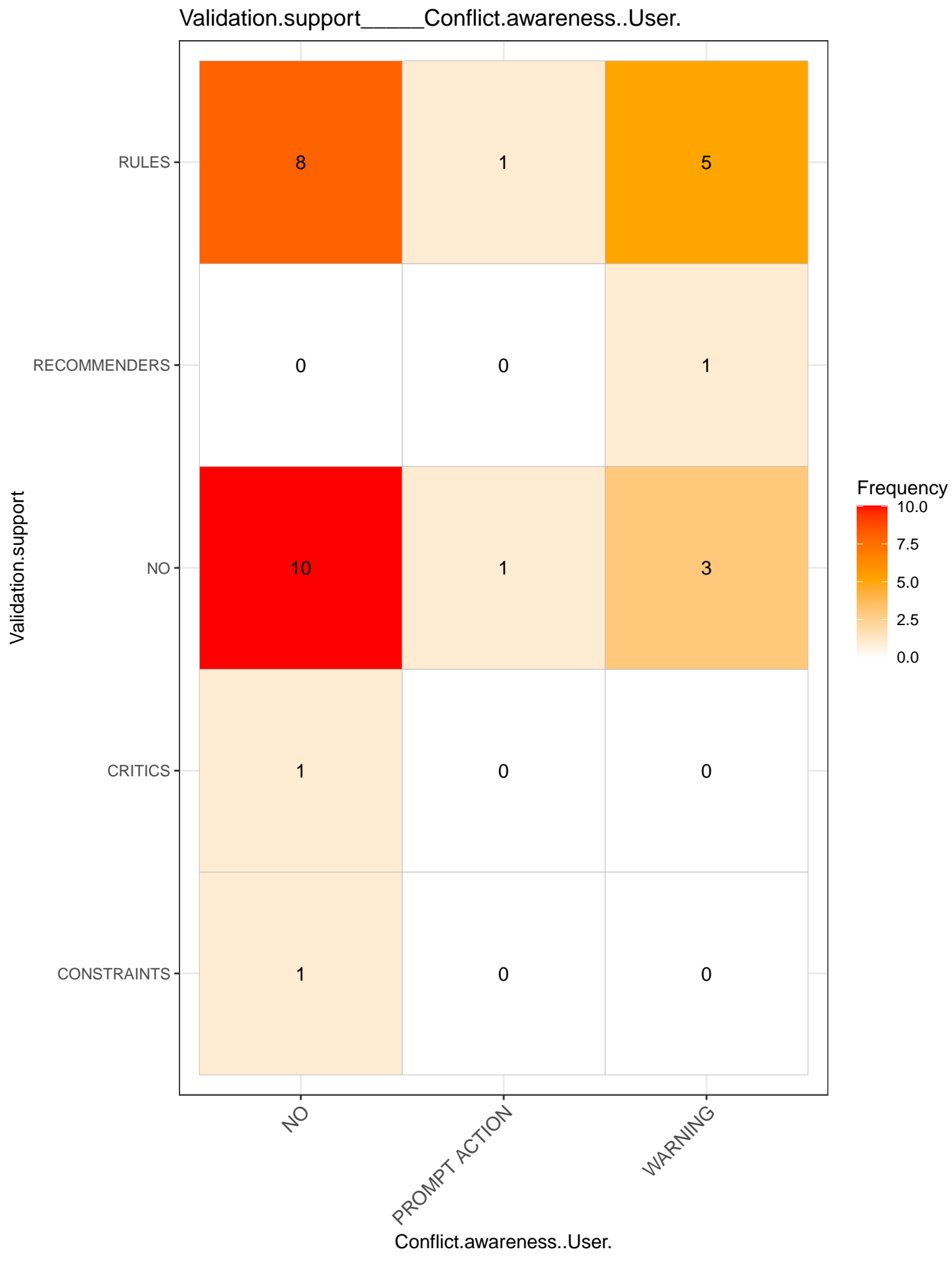


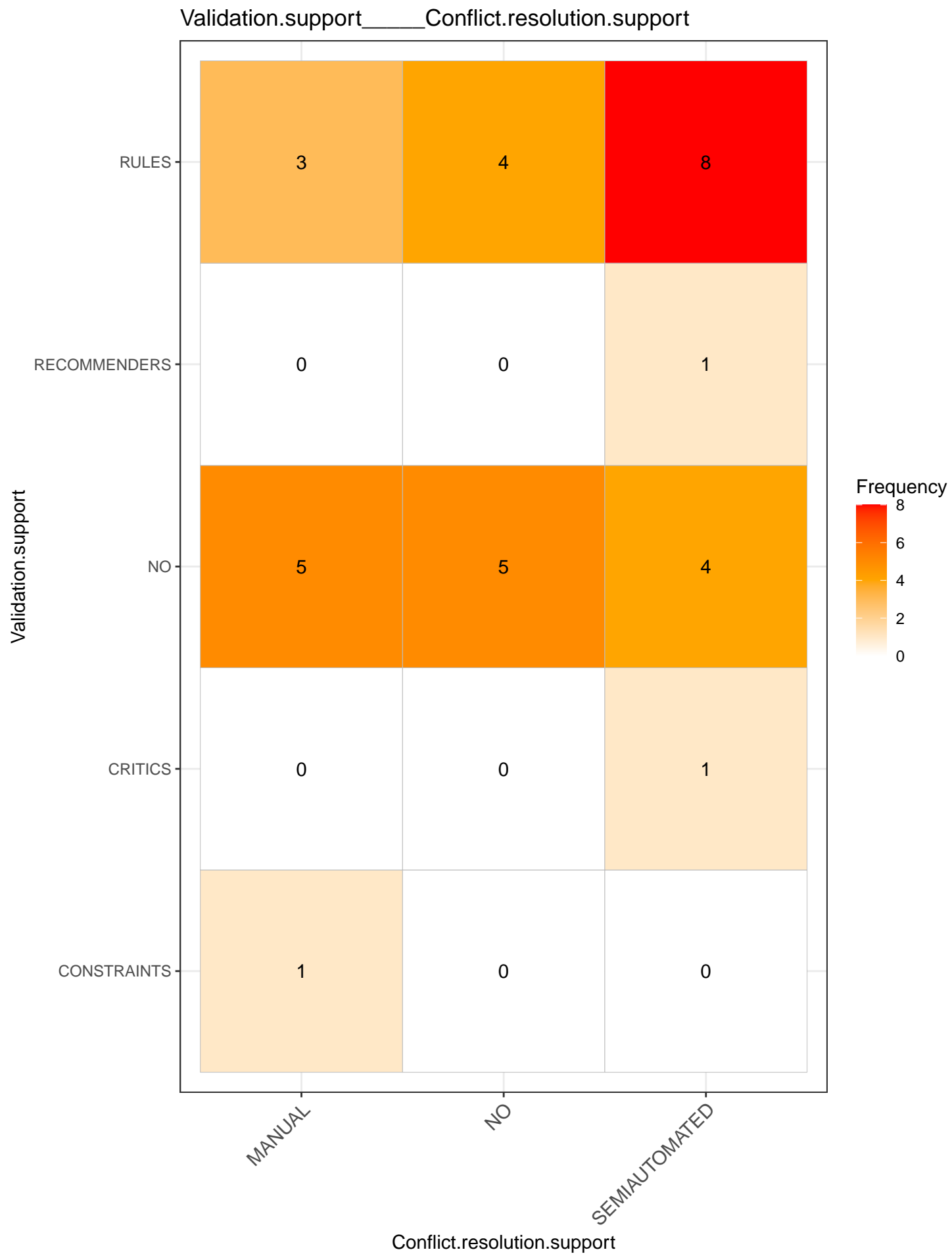


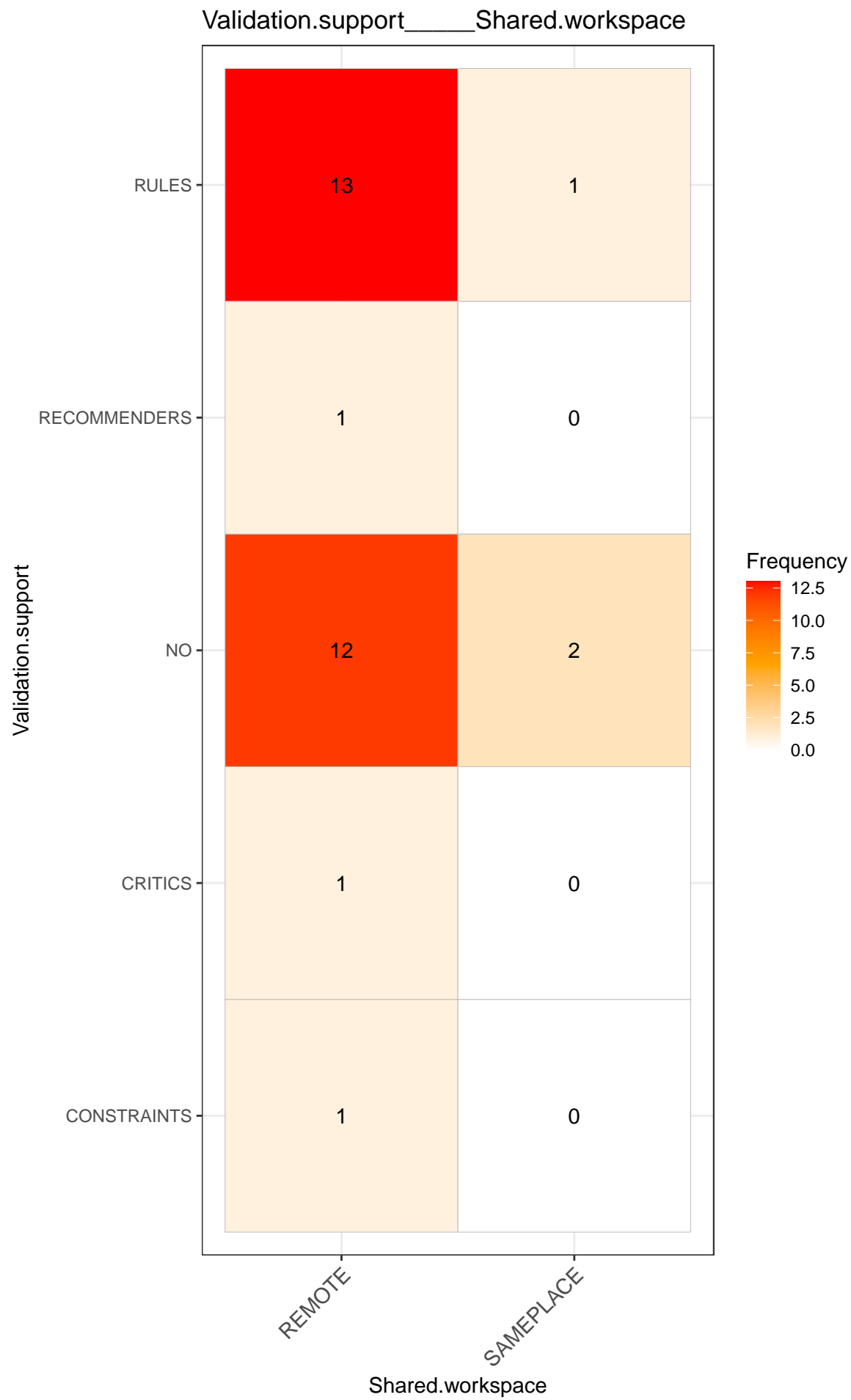


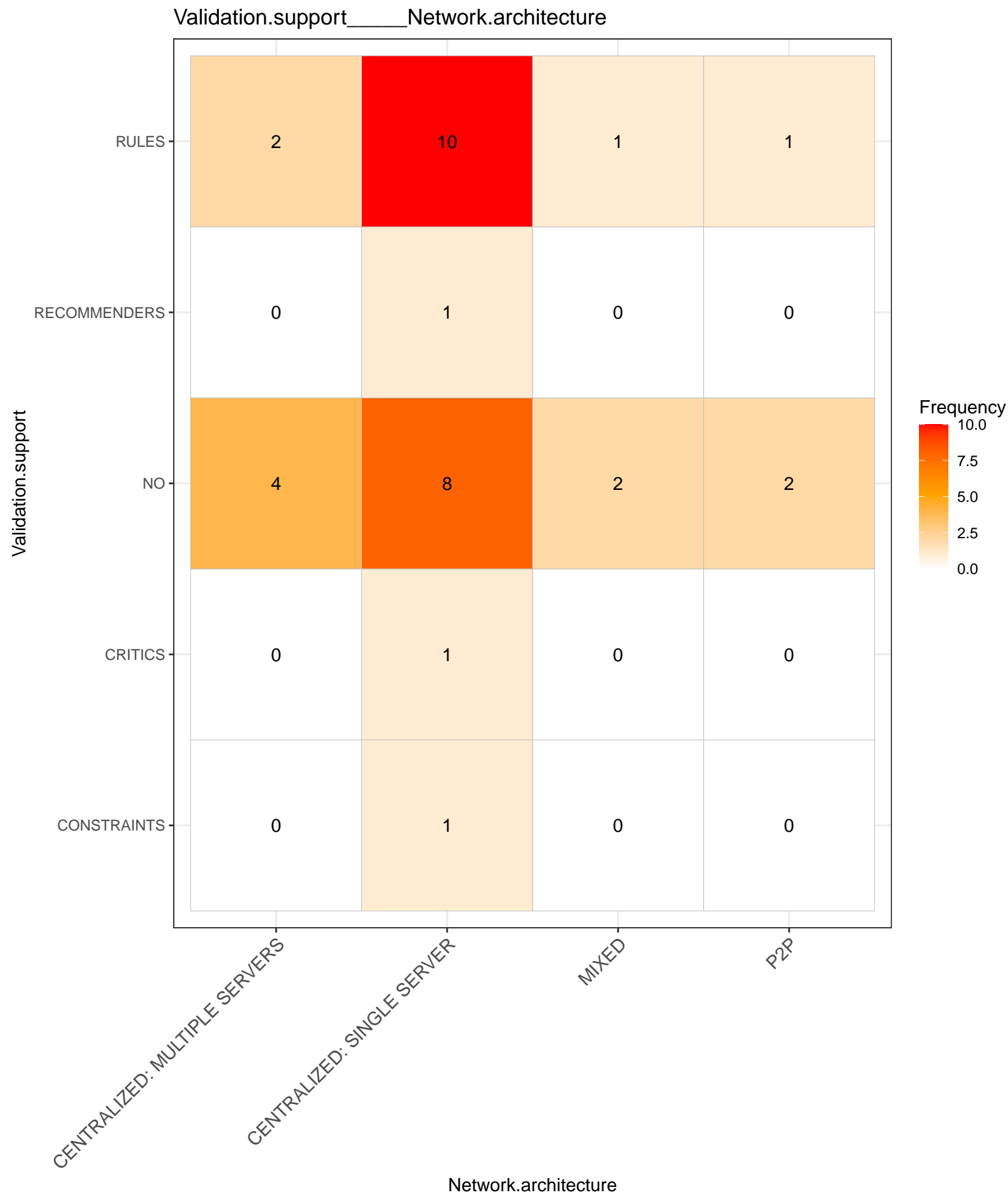


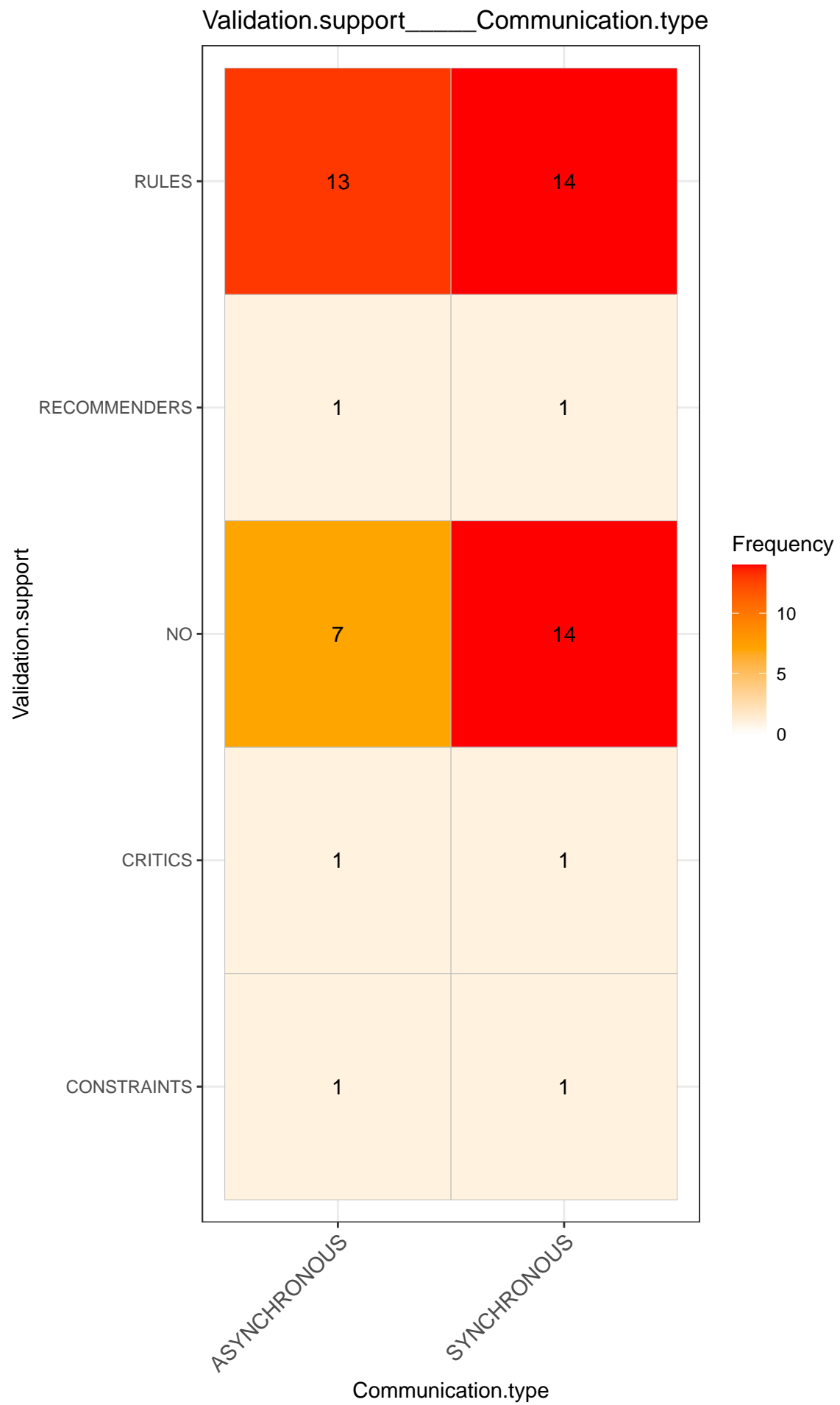


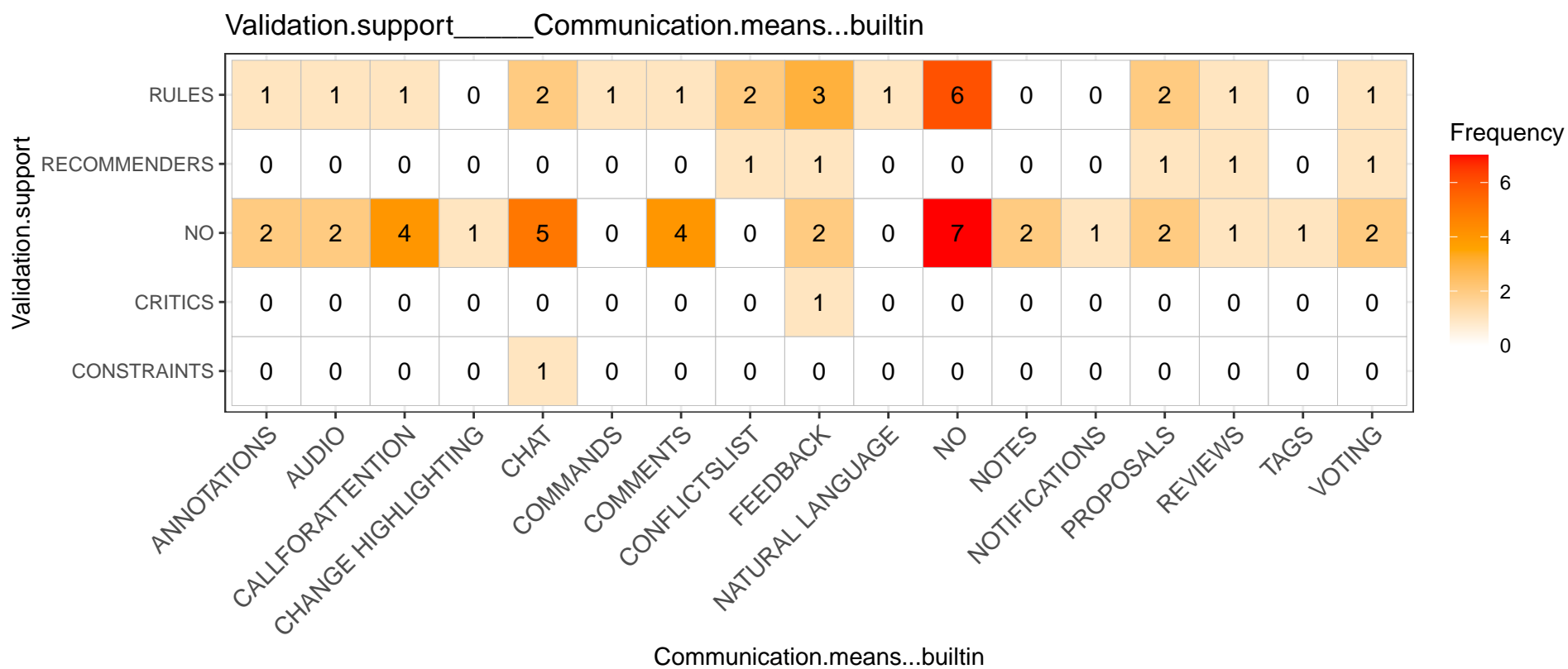






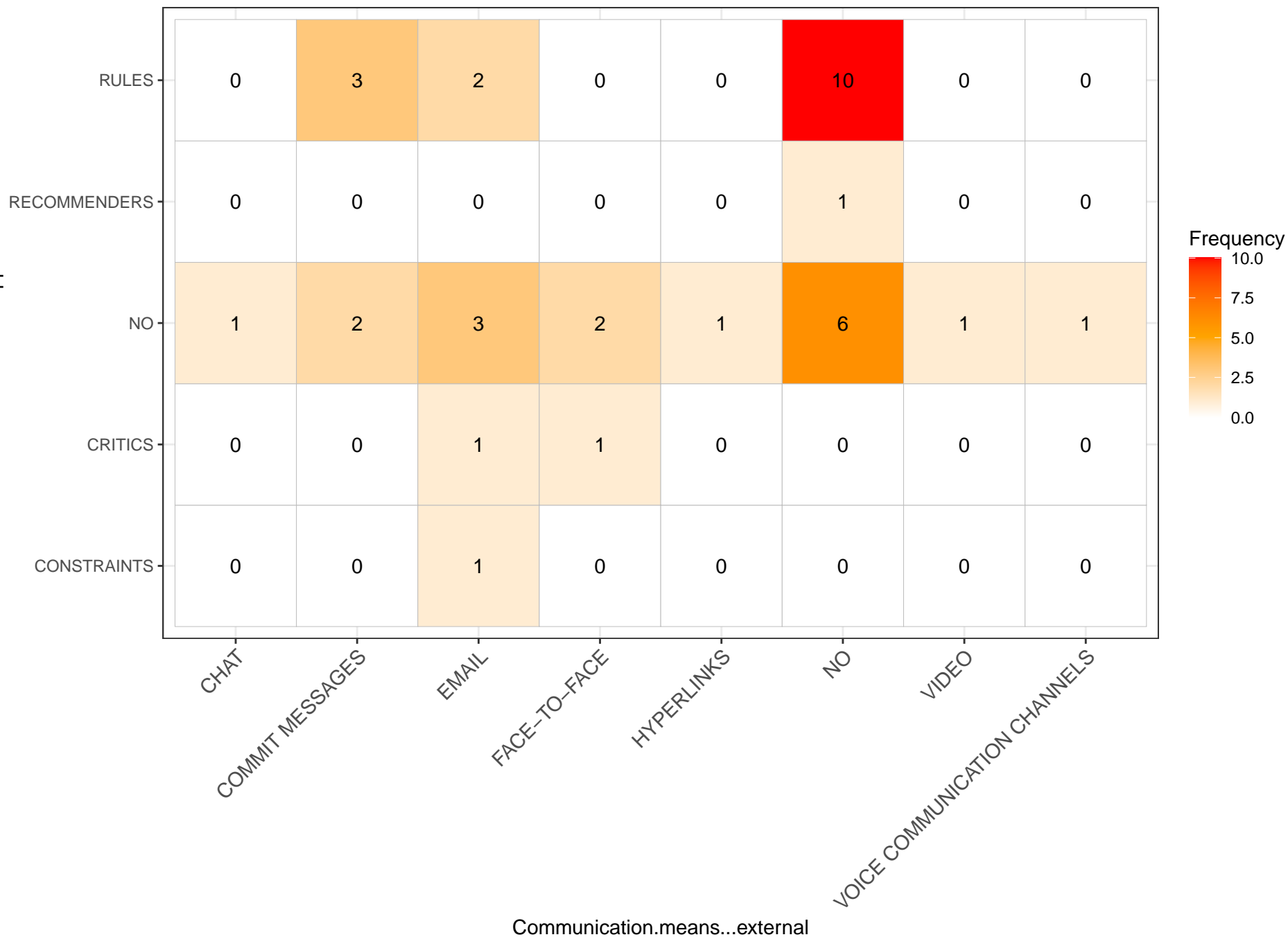




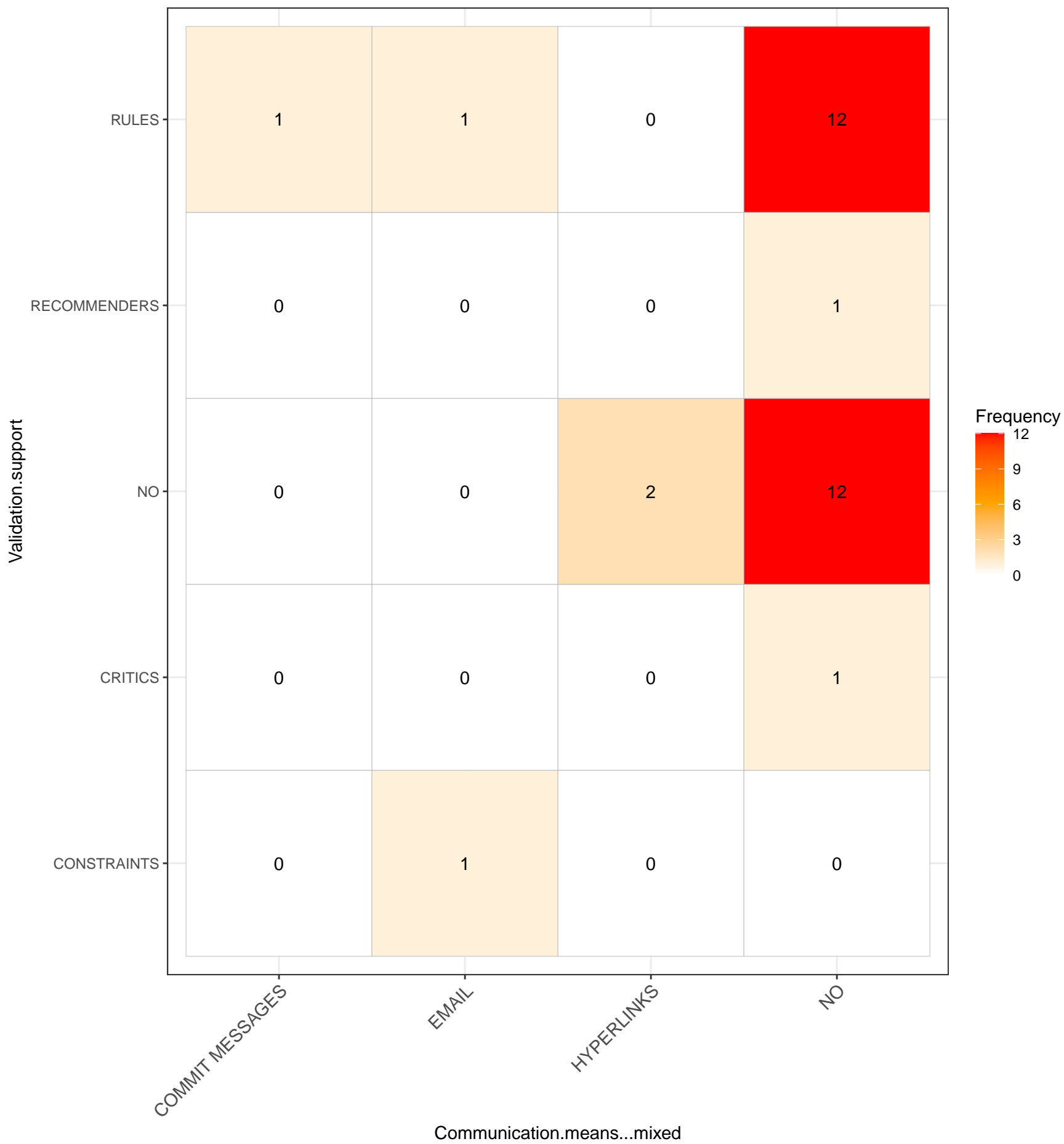


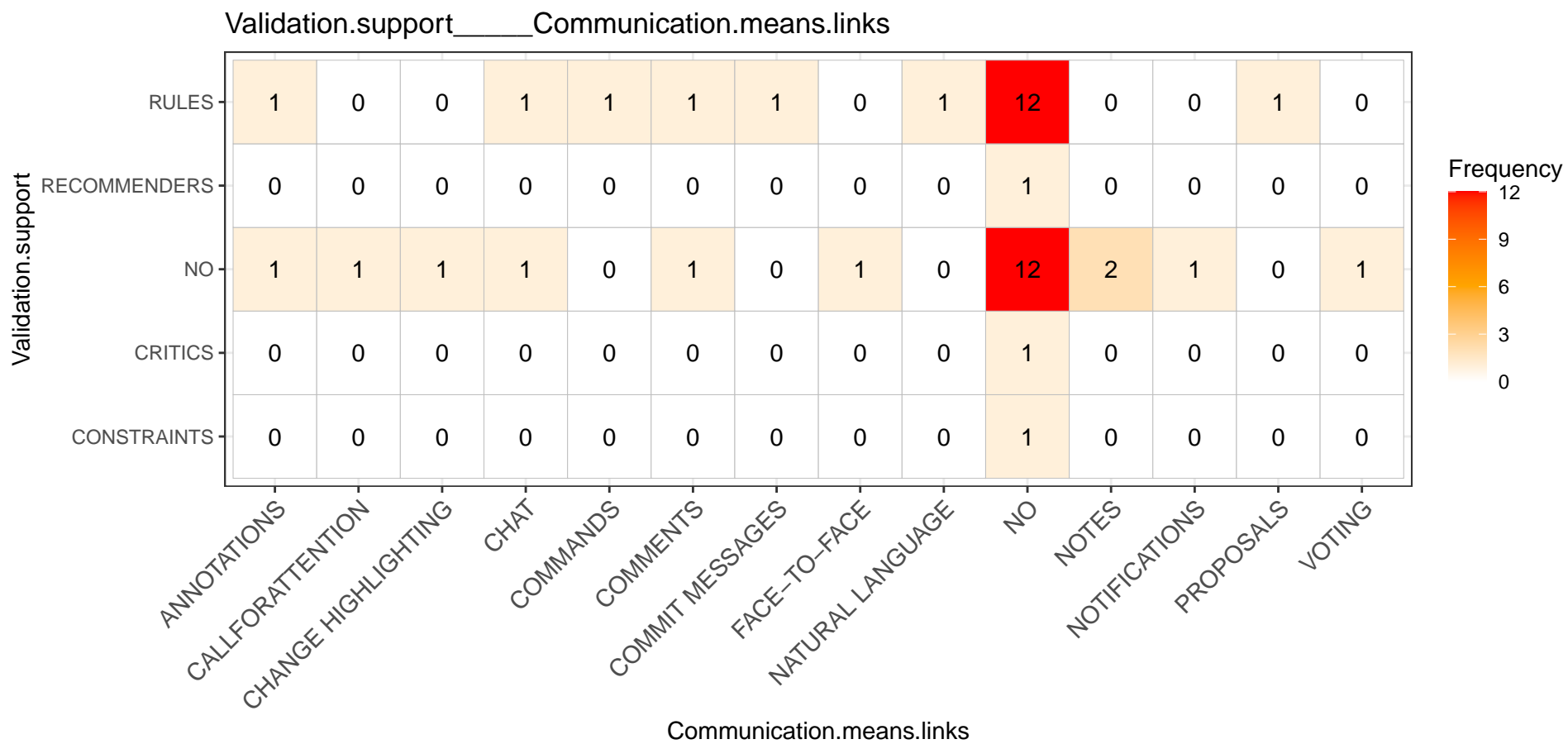
Validation.support_____Communication.means...external

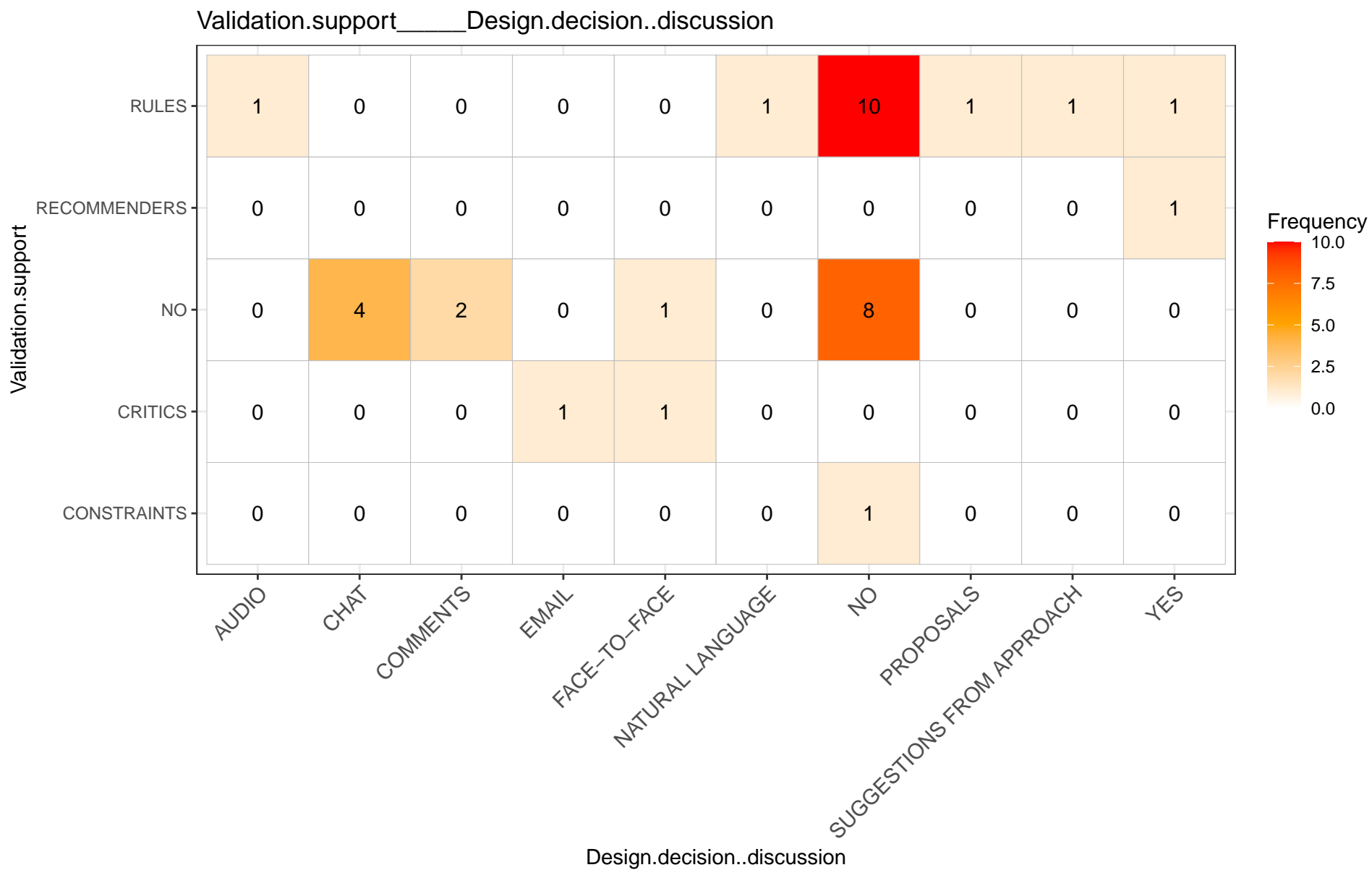
Validation.support



Validation.support_____Communication.means...mixed

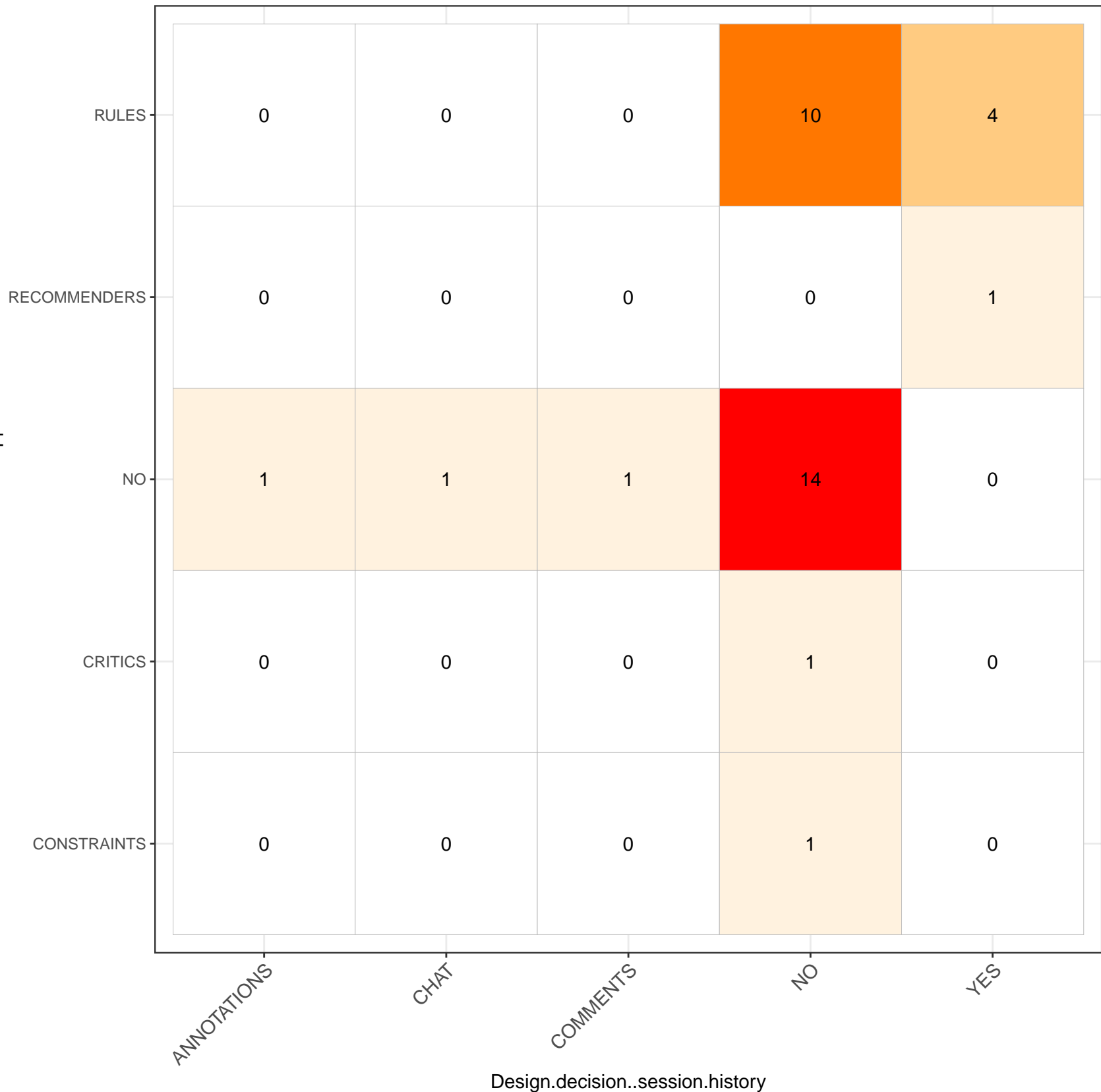






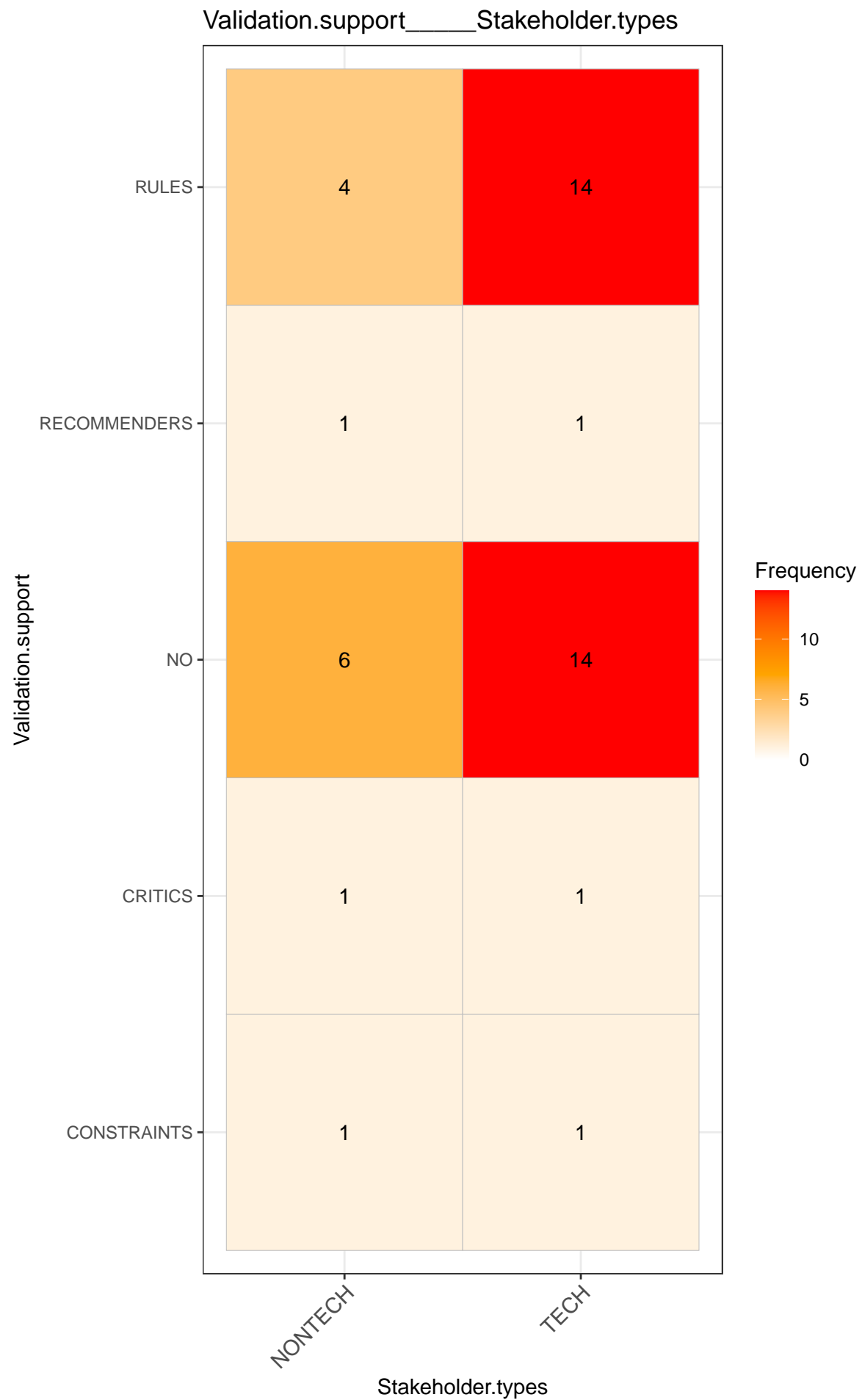
Validation.support_____Design.decision..session.history

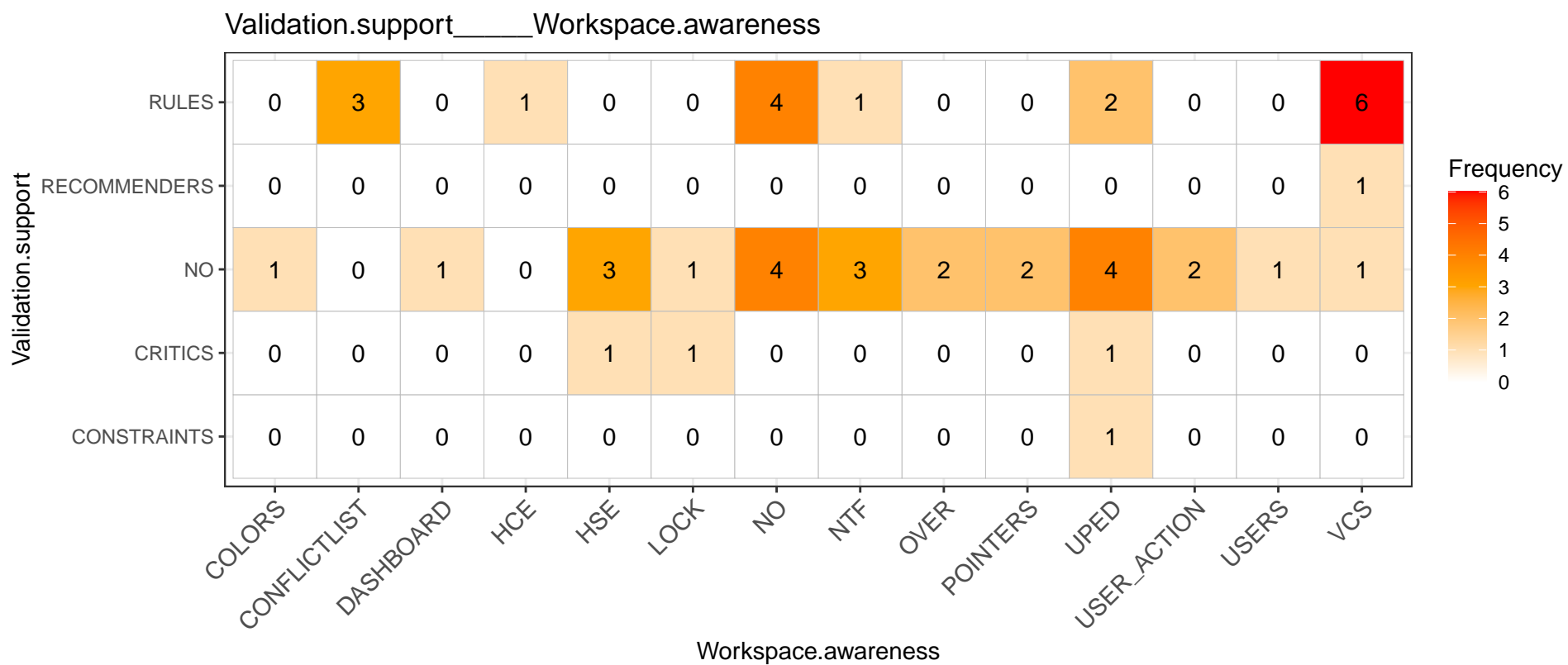
Validation.support



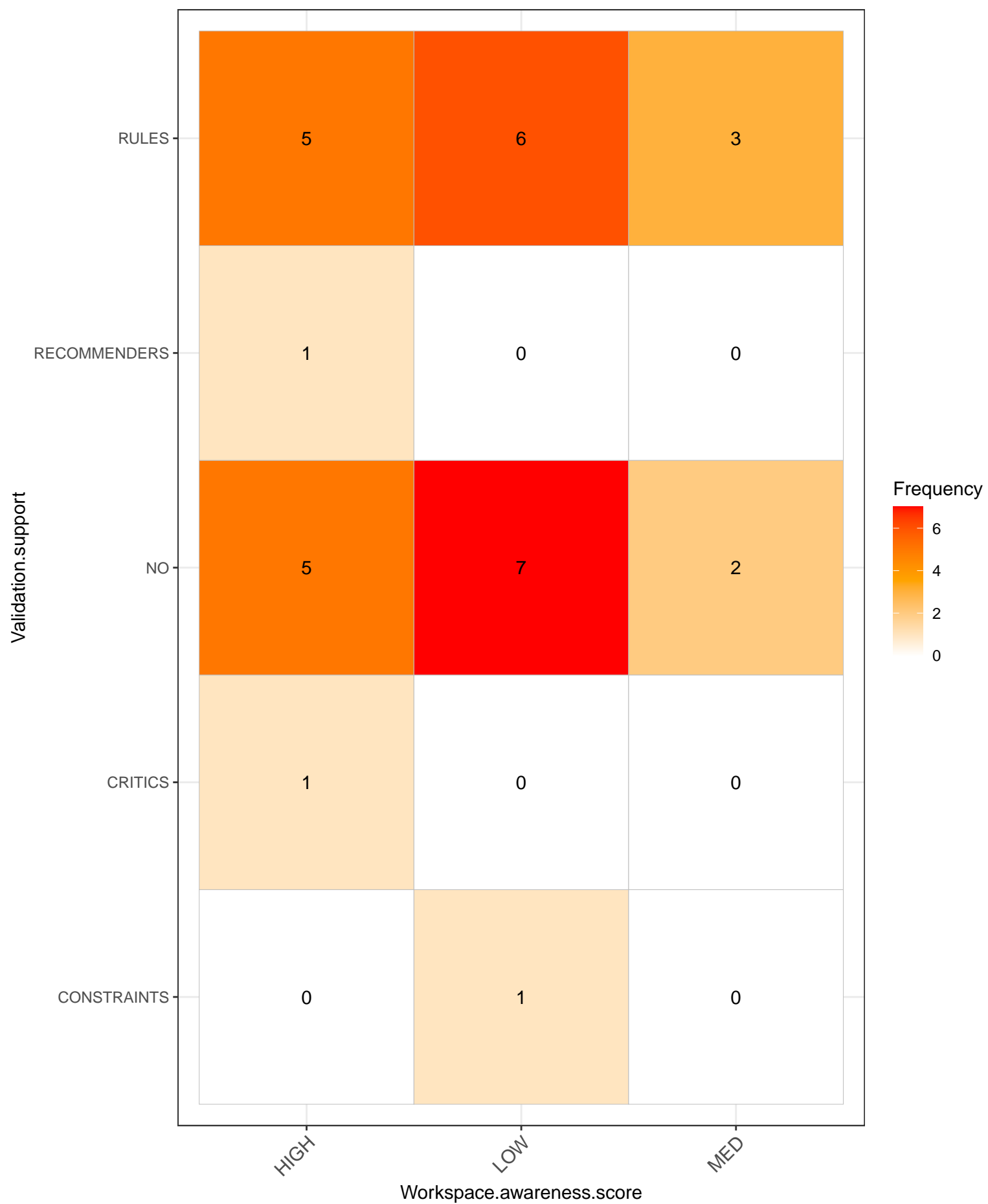
Frequency



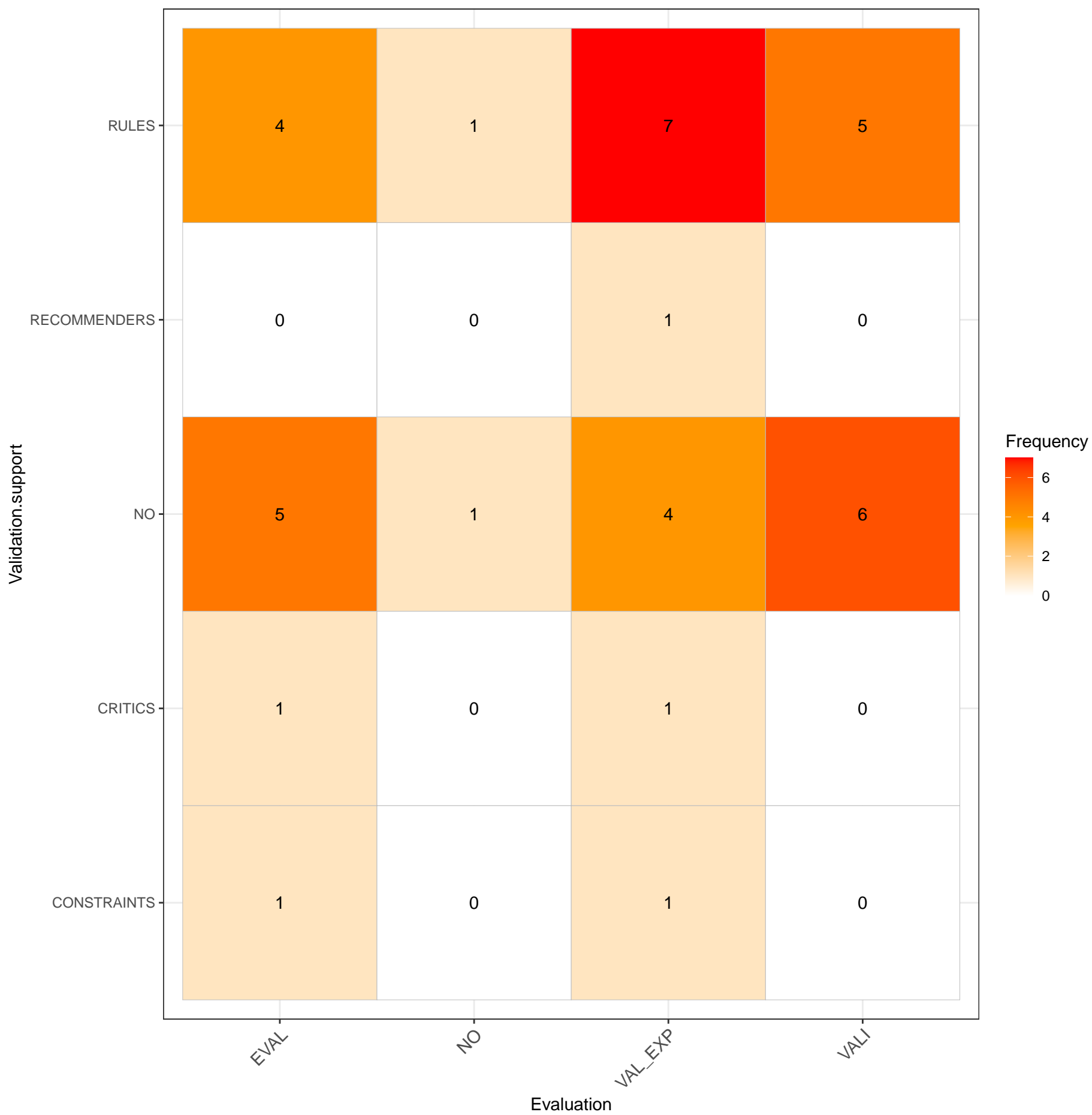


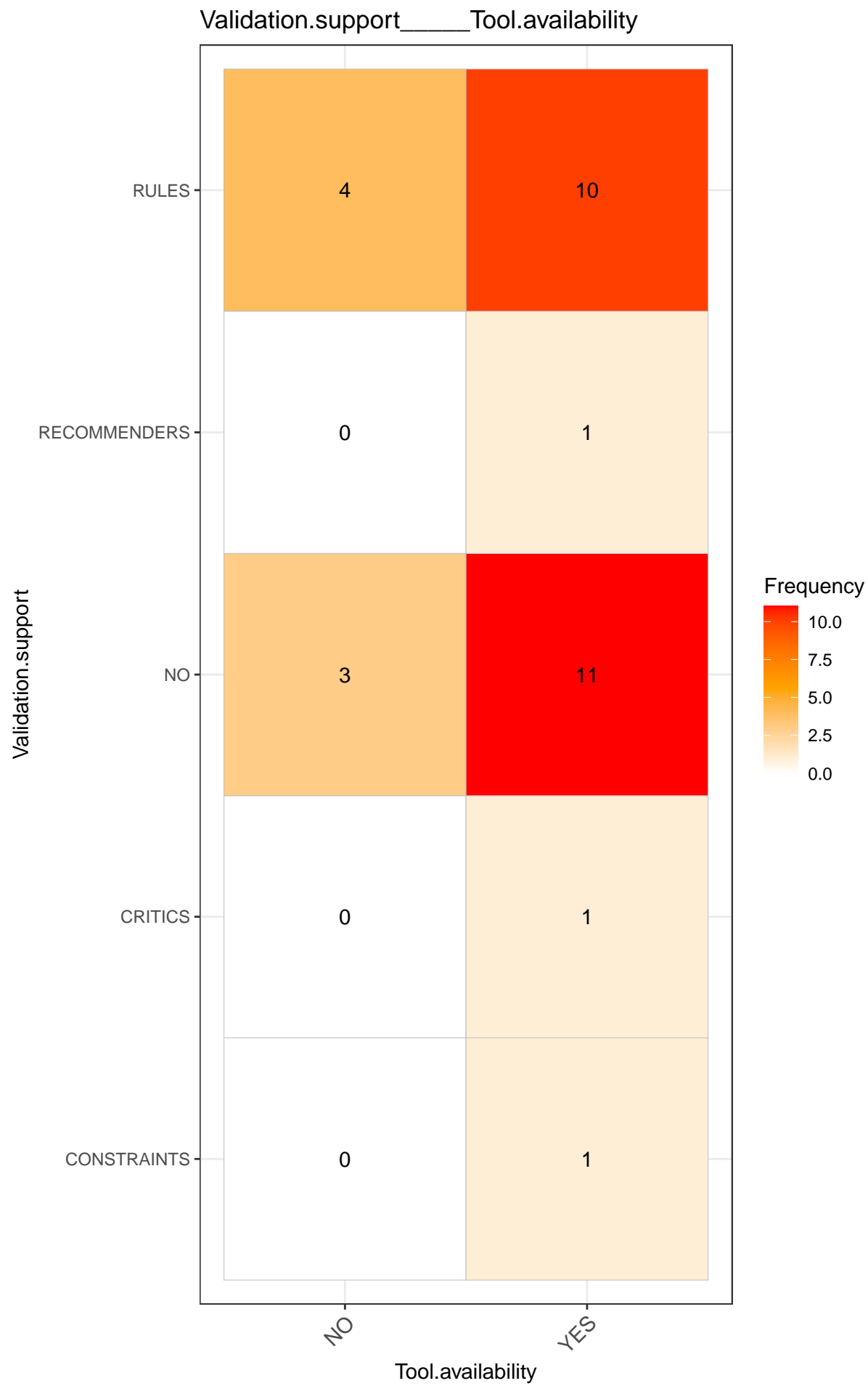


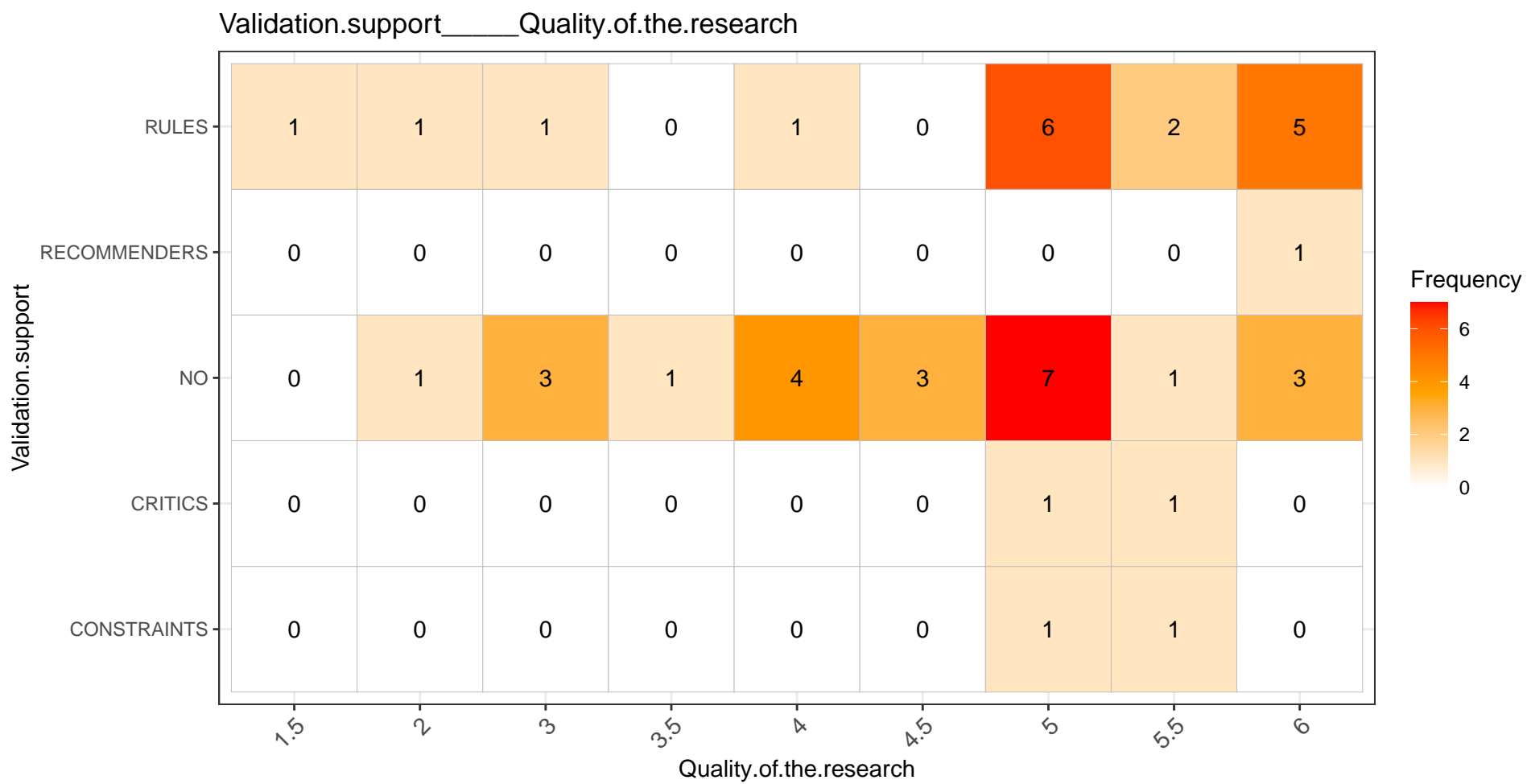
Validation.support_____Workspace.awareness.score



Validation.support____Evaluation







Collaboration.types_____Collaboration.workflow

REAL-TIME

13

6

OFF-LINE MANUAL CHANGE PROPAGATION

1

3

OFF-LINE AUTOMATED CHANGE PROPAGATION

5

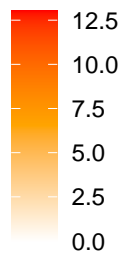
3

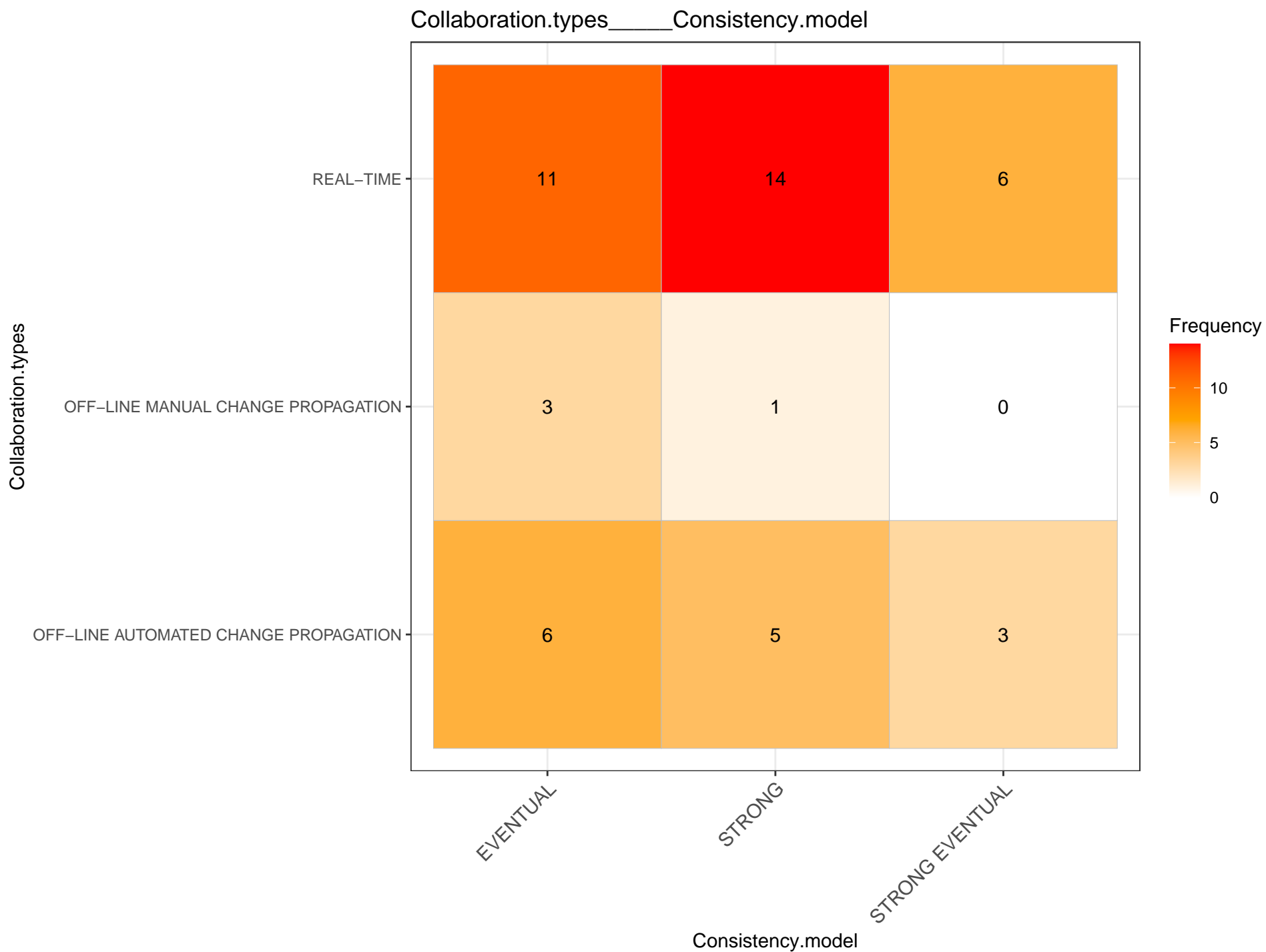
NO

YES

Collaboration.workflow

Frequency





Collaboration.types_____Unit.of.sync

REAL-TIME

10

9

OFF-LINE MANUAL CHANGE PROPAGATION

1

3

OFF-LINE AUTOMATED CHANGE PROPAGATION

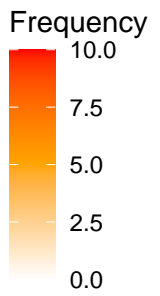
6

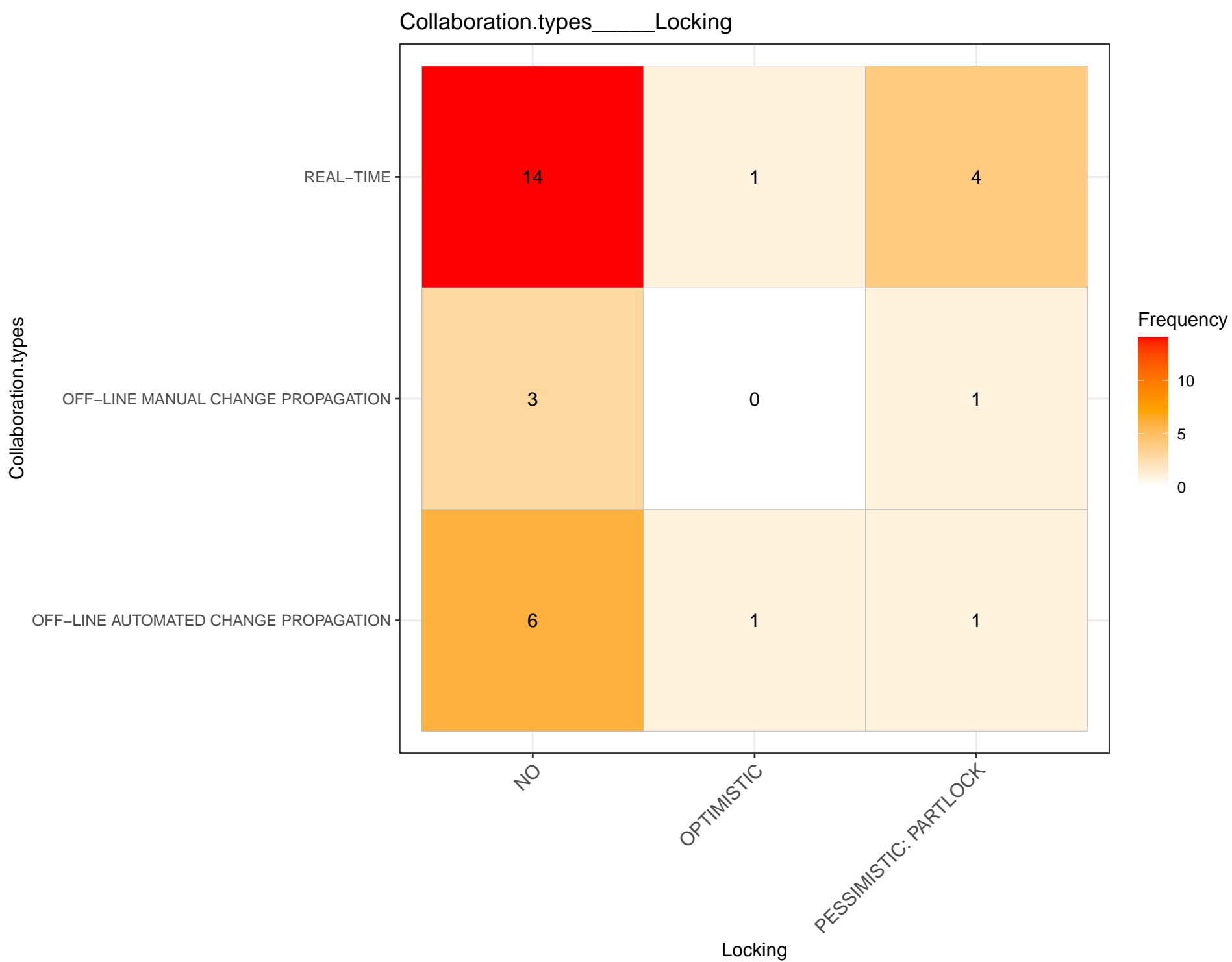
2

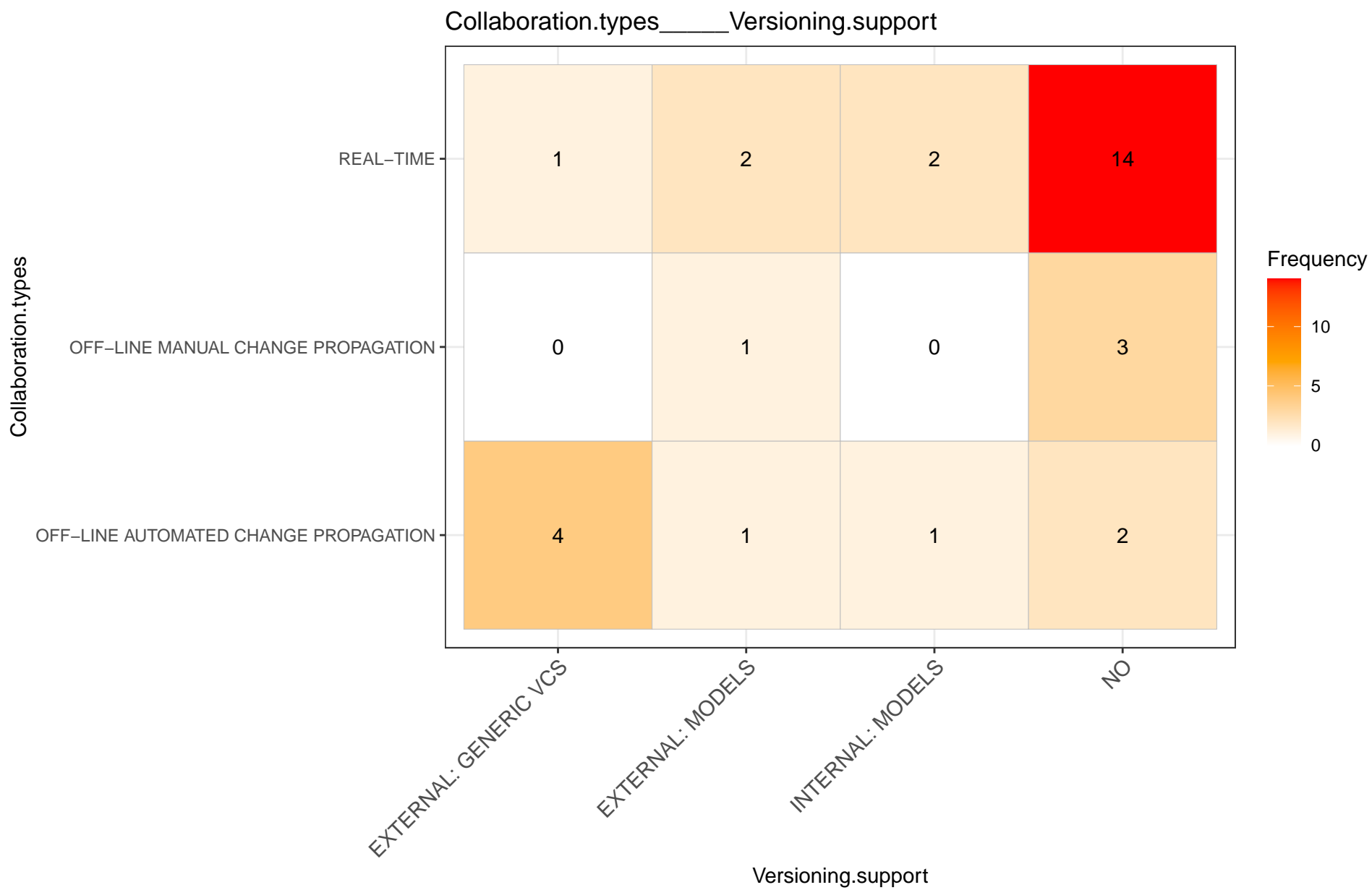
CHANGE

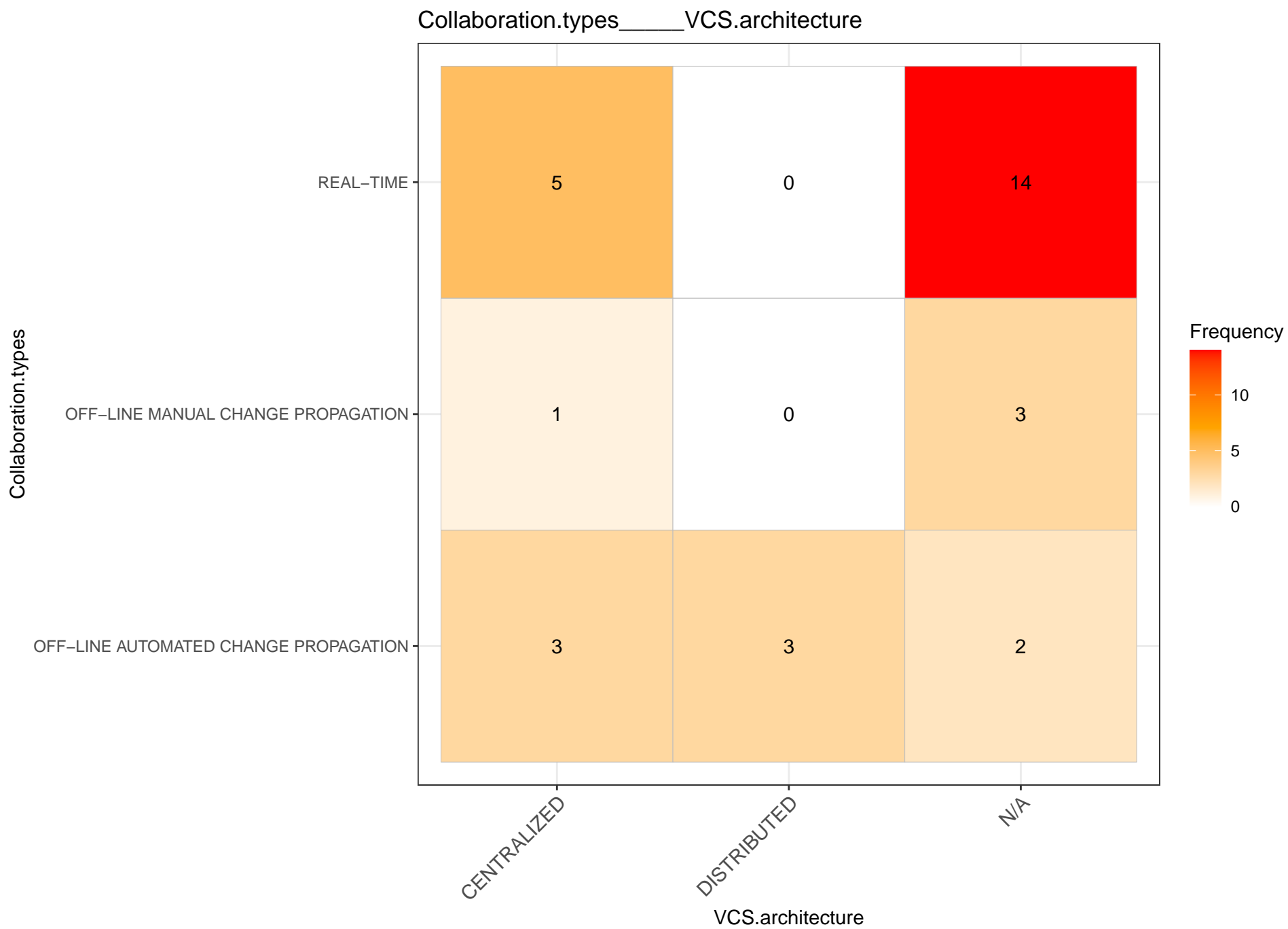
STATE

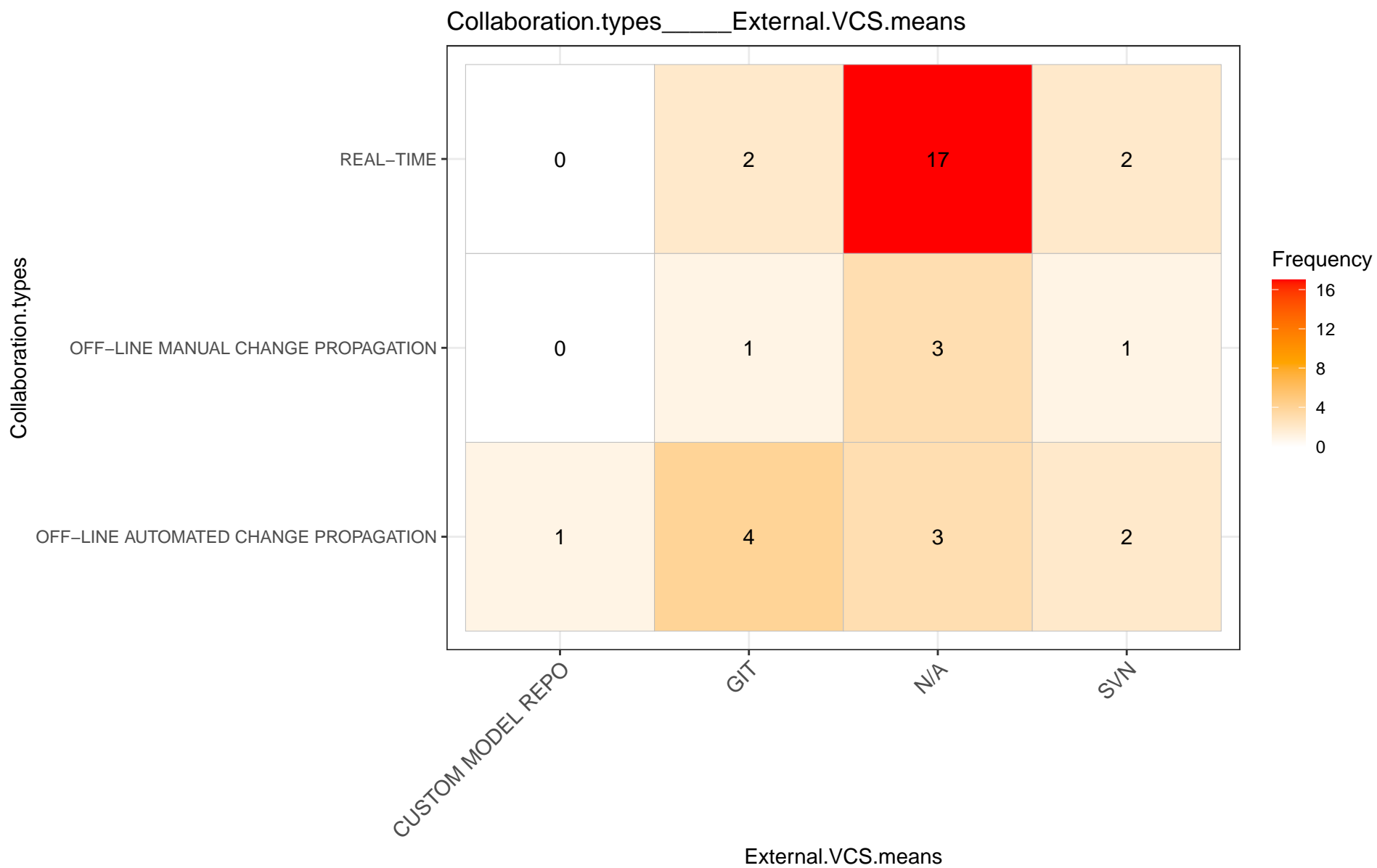
Unit.of.sync





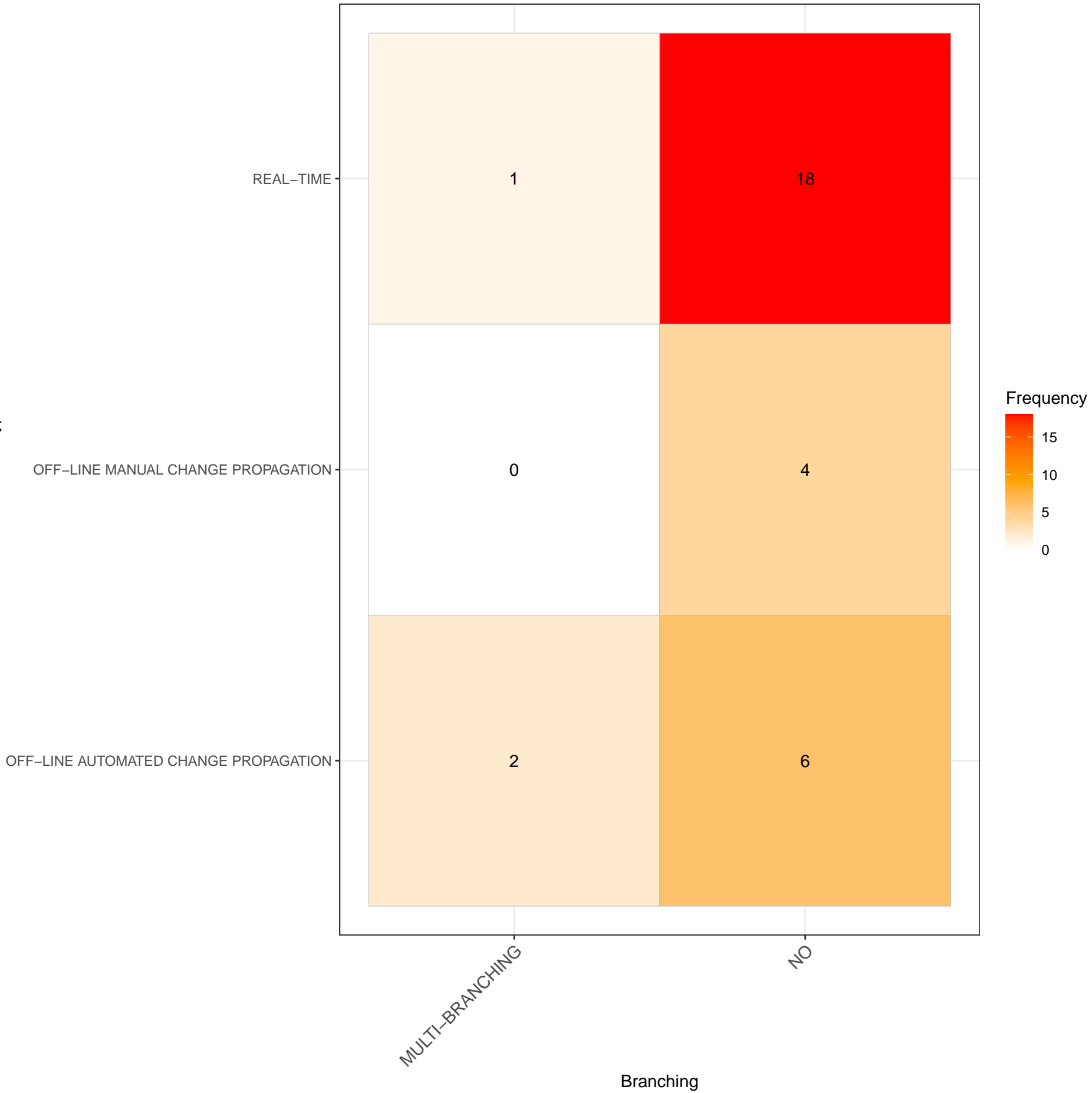






Collaboration.types_____Branching

Collaboration.types



Collaboration.types_____Model.merging.support

REAL-TIME

15

4

OFF-LINE MANUAL CHANGE PROPAGATION

3

1

OFF-LINE AUTOMATED CHANGE PROPAGATION

4

4

NO

YES

Model.merging.support

Frequency

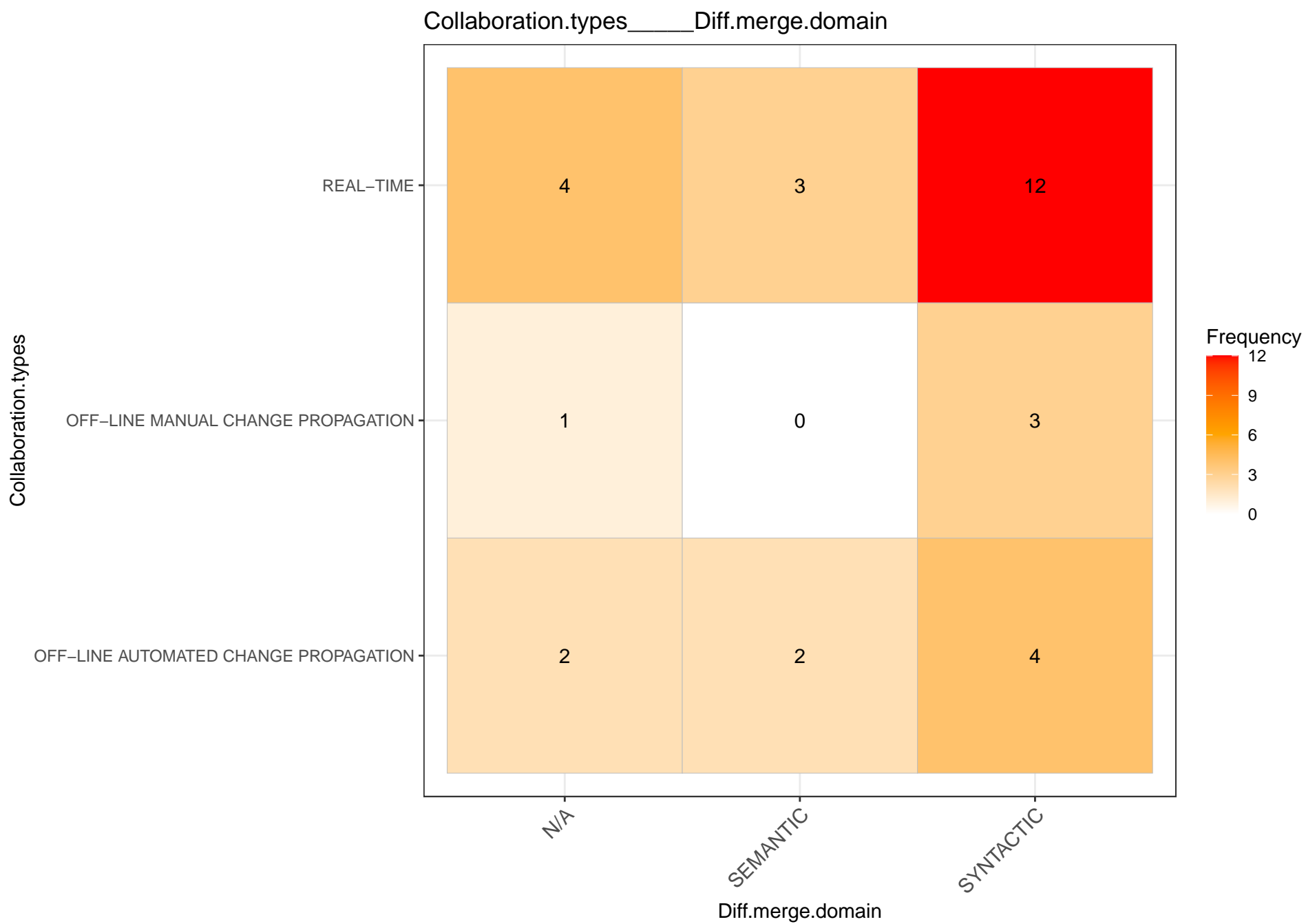
15

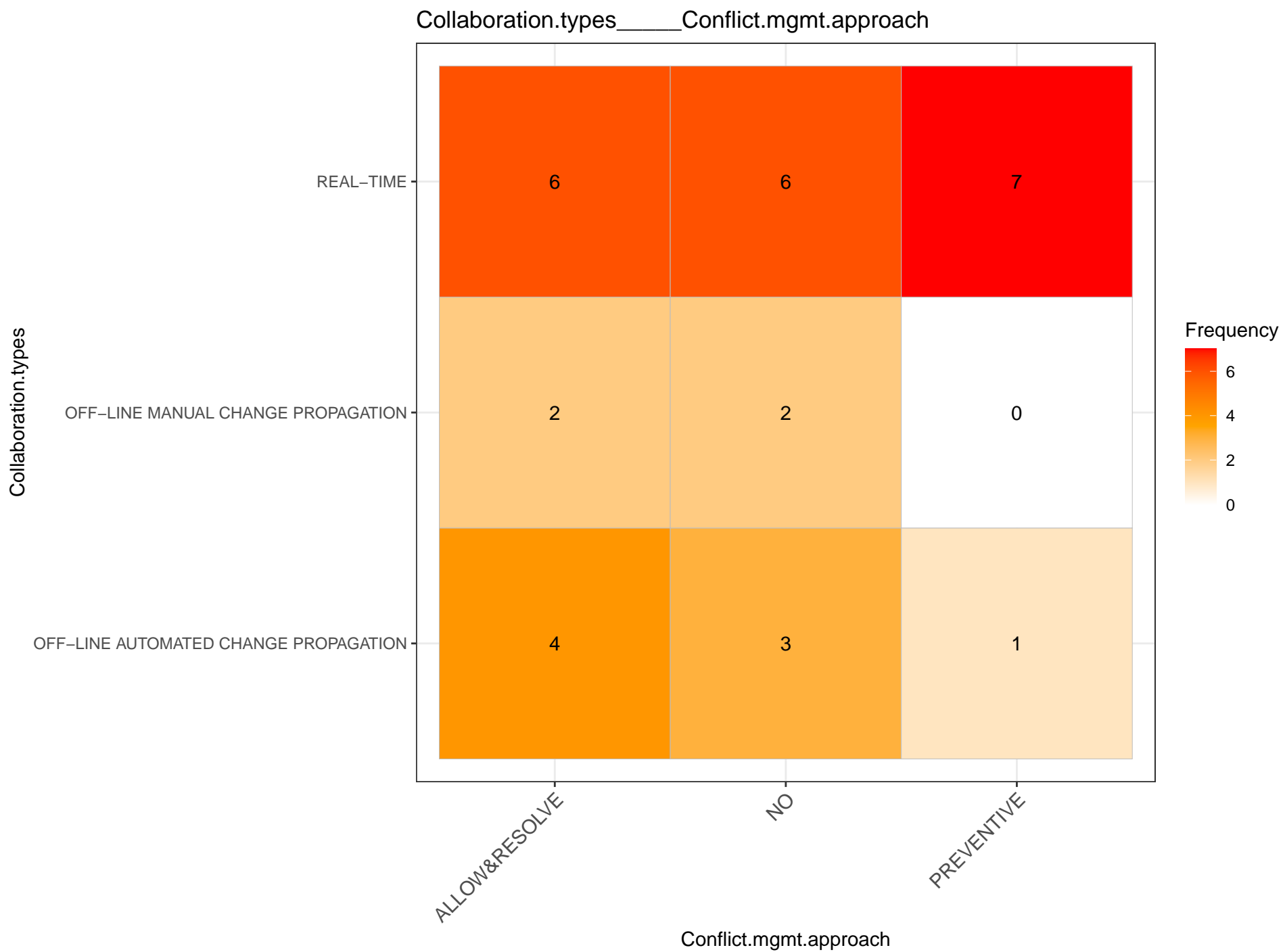
10

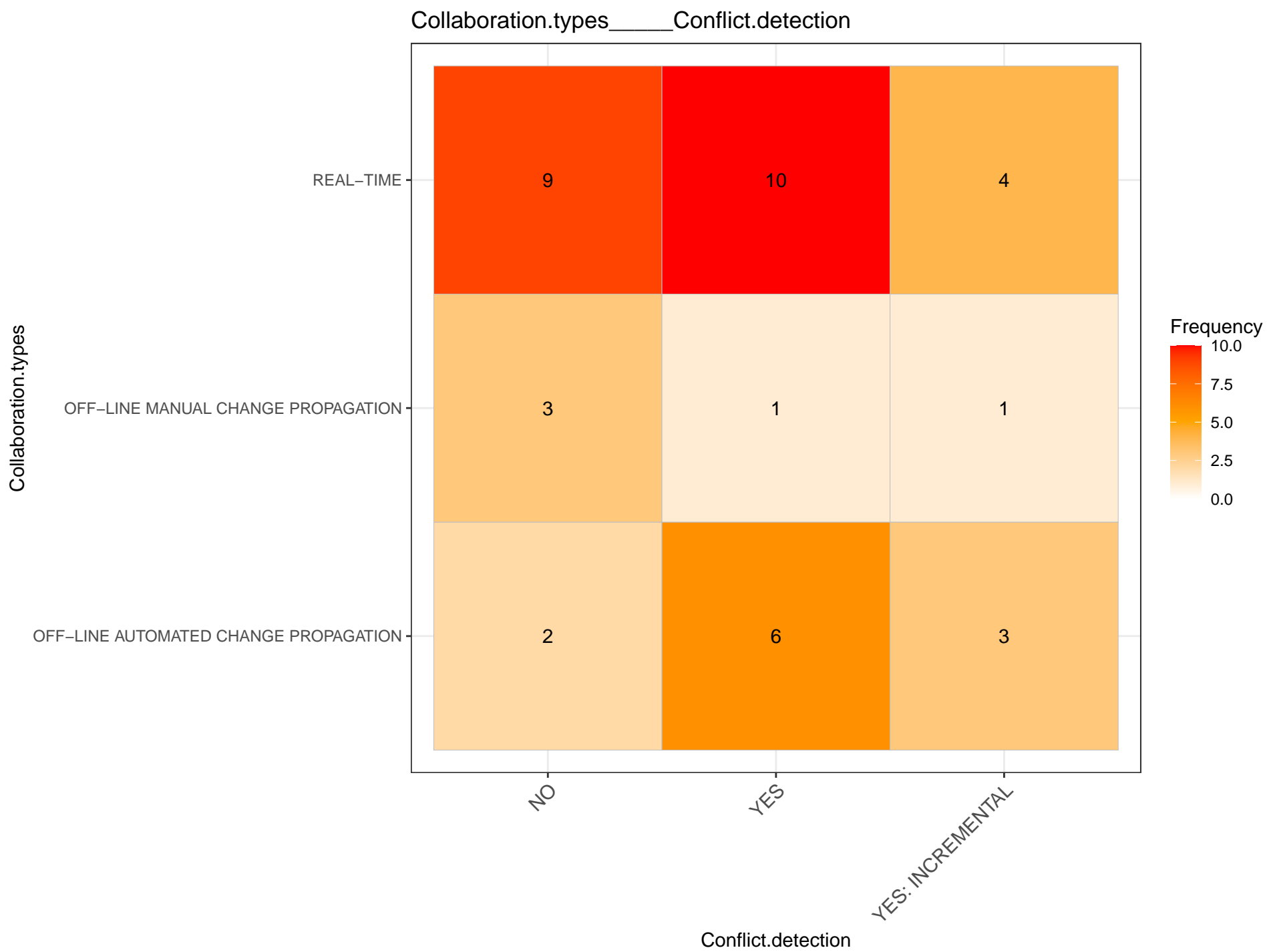
5

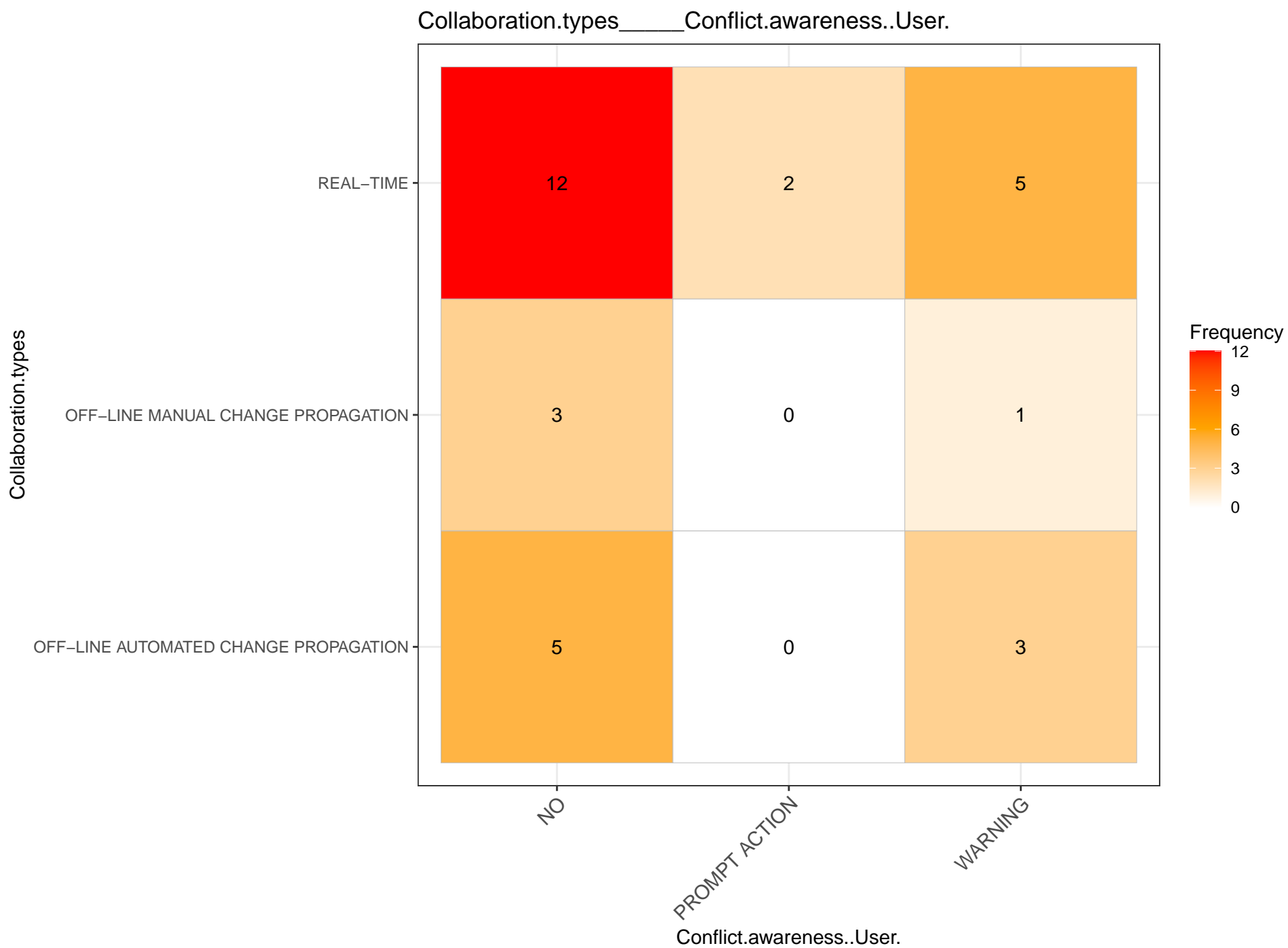
0

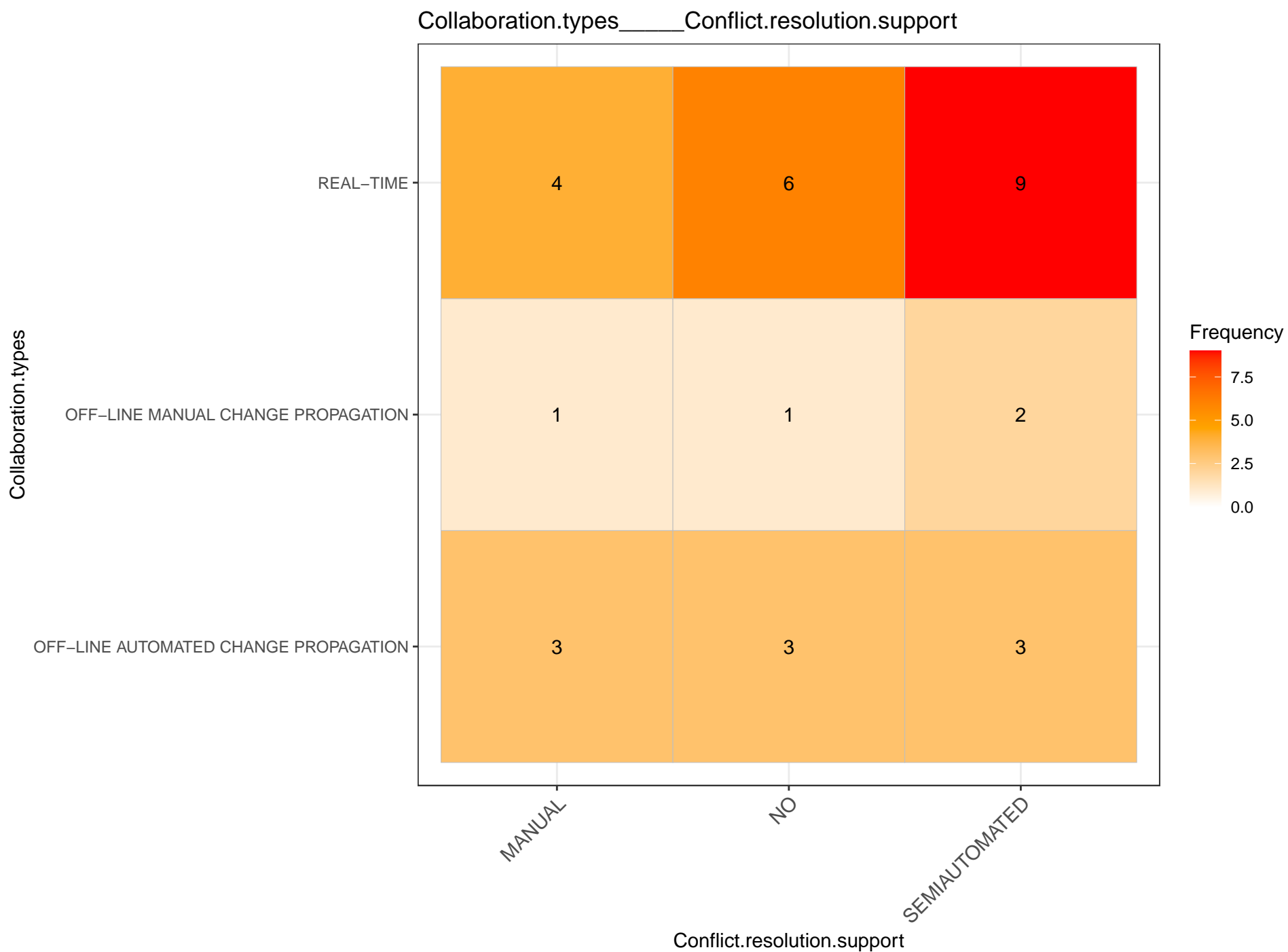
Collaboration.types











Collaboration.types _____ Shared.workspace

Collaboration.types

REAL-TIME

17

2

OFF-LINE MANUAL CHANGE PROPAGATION

4

0

OFF-LINE AUTOMATED CHANGE PROPAGATION

7

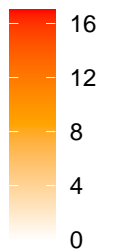
1

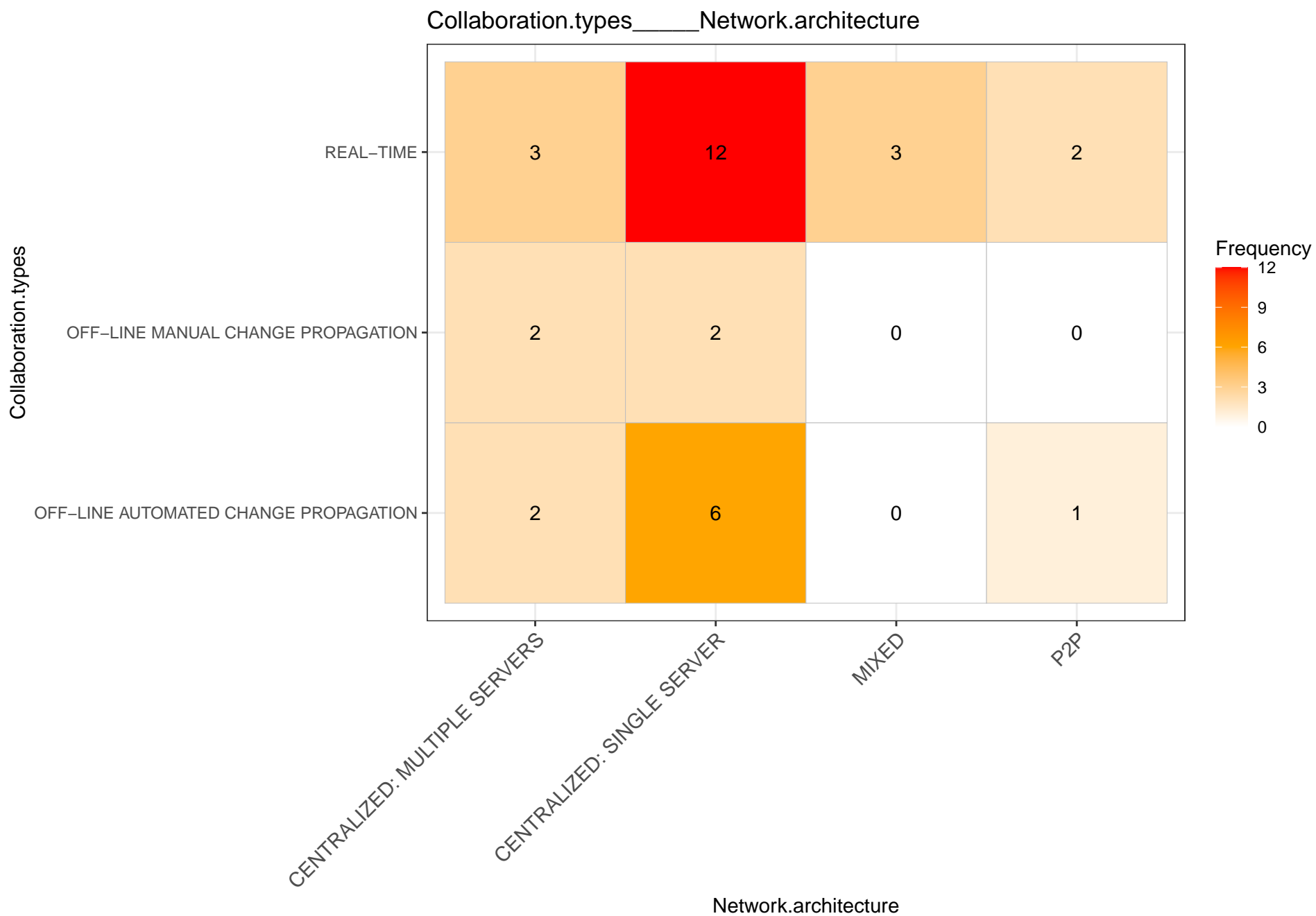
REMOTE

SAMEPLACE

Shared.workspace

Frequency





Collaboration.types _____ Communication.type

Collaboration.types

REAL-TIME

11

19

OFF-LINE MANUAL CHANGE PROPAGATION

4

4

OFF-LINE AUTOMATED CHANGE PROPAGATION

8

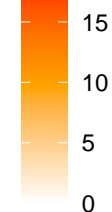
8

ASYNCHRONOUS

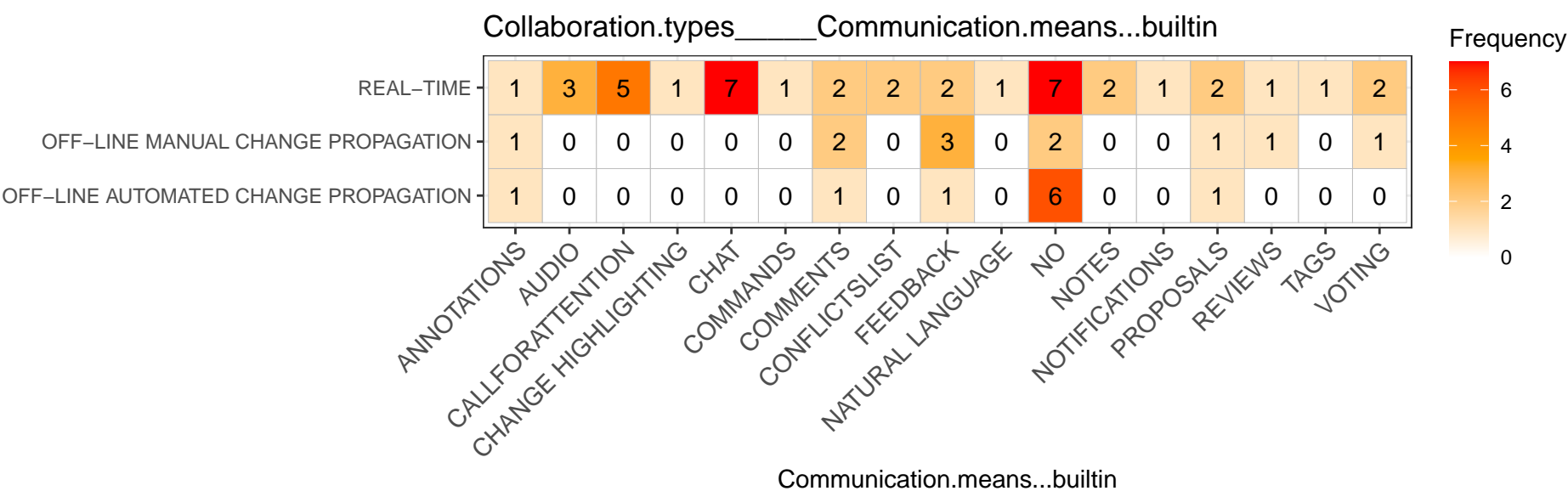
SYNCHRONOUS

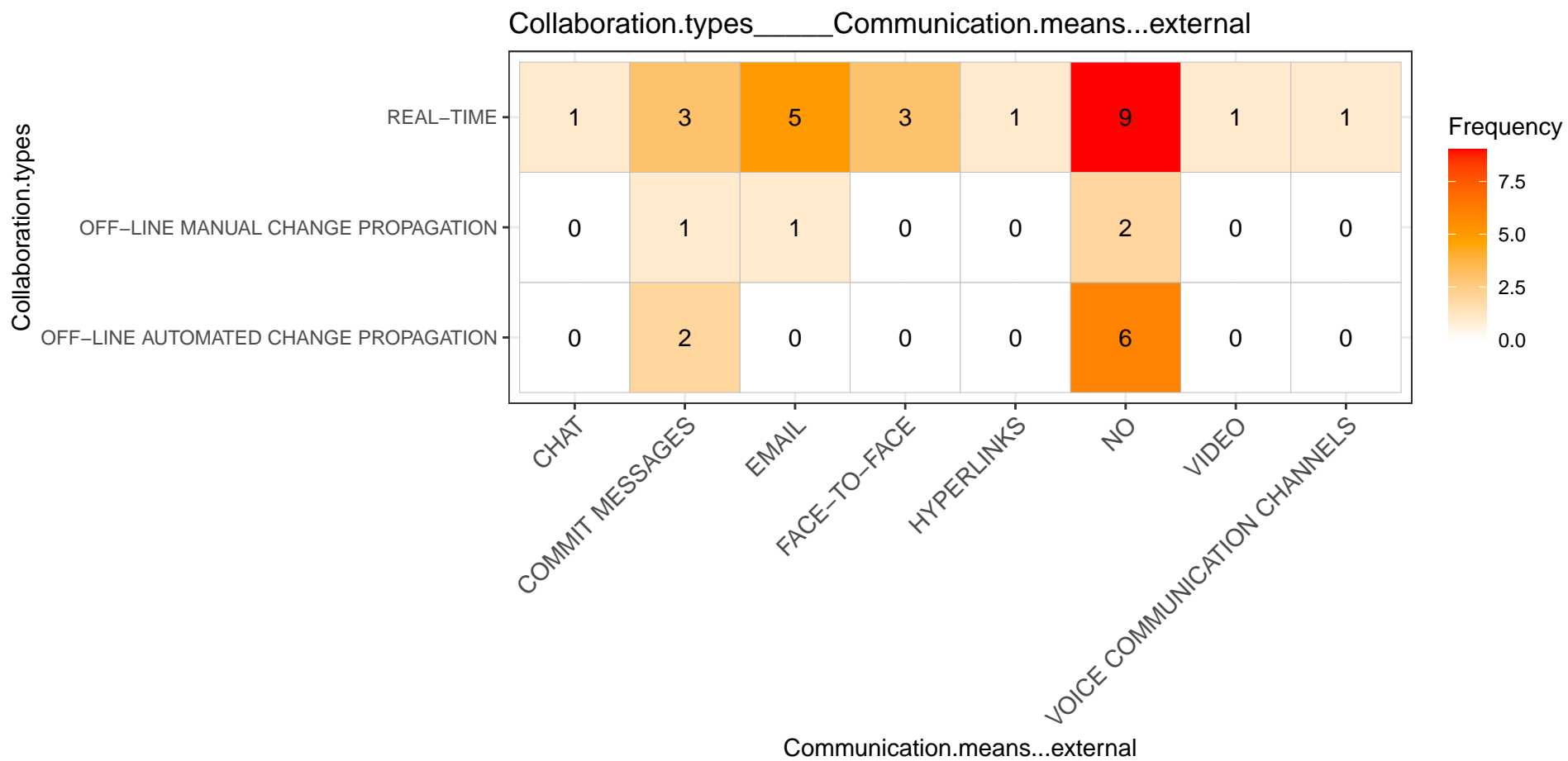
Communication.type

Frequency

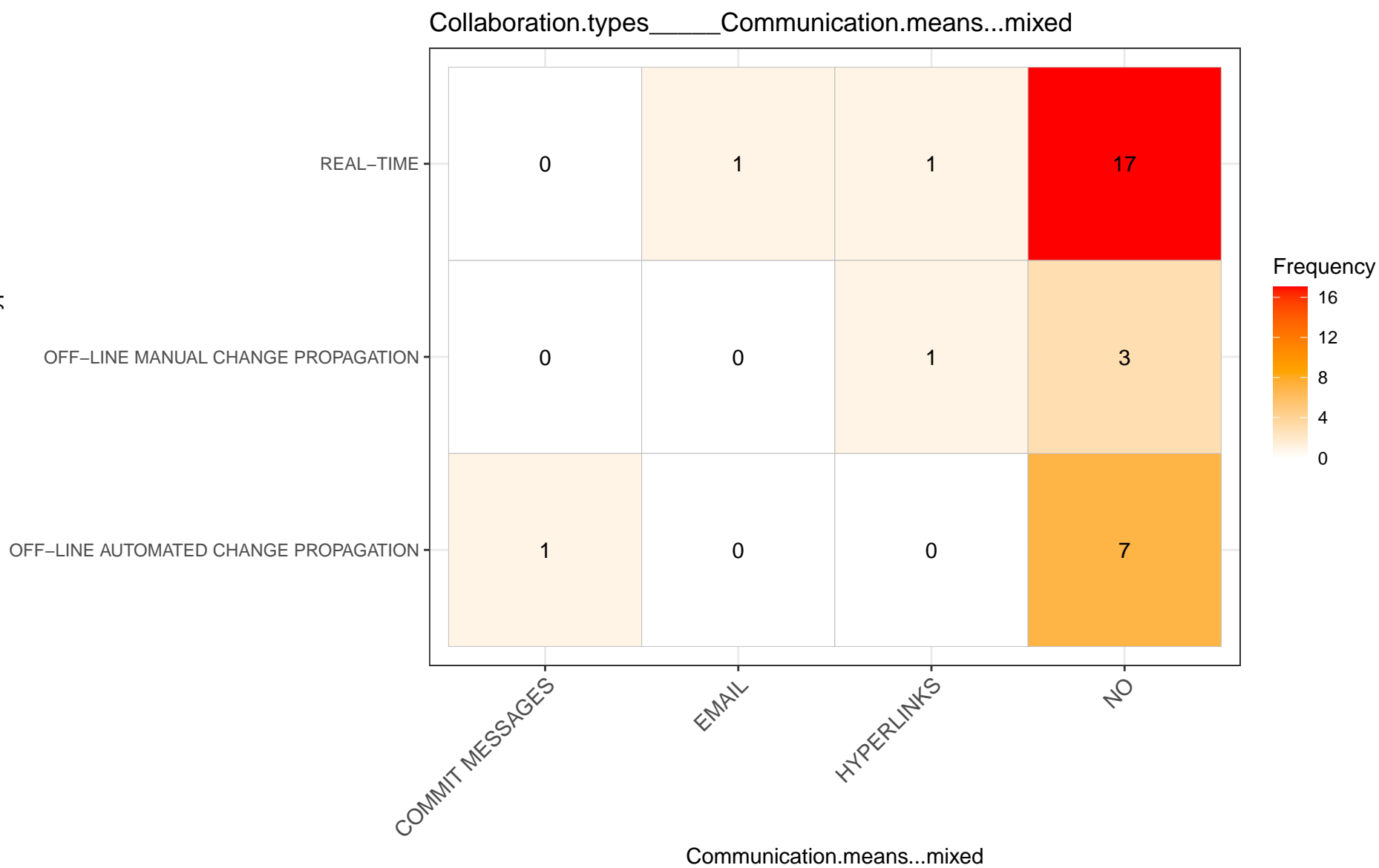


Collaboration.types

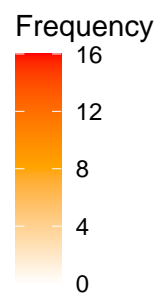
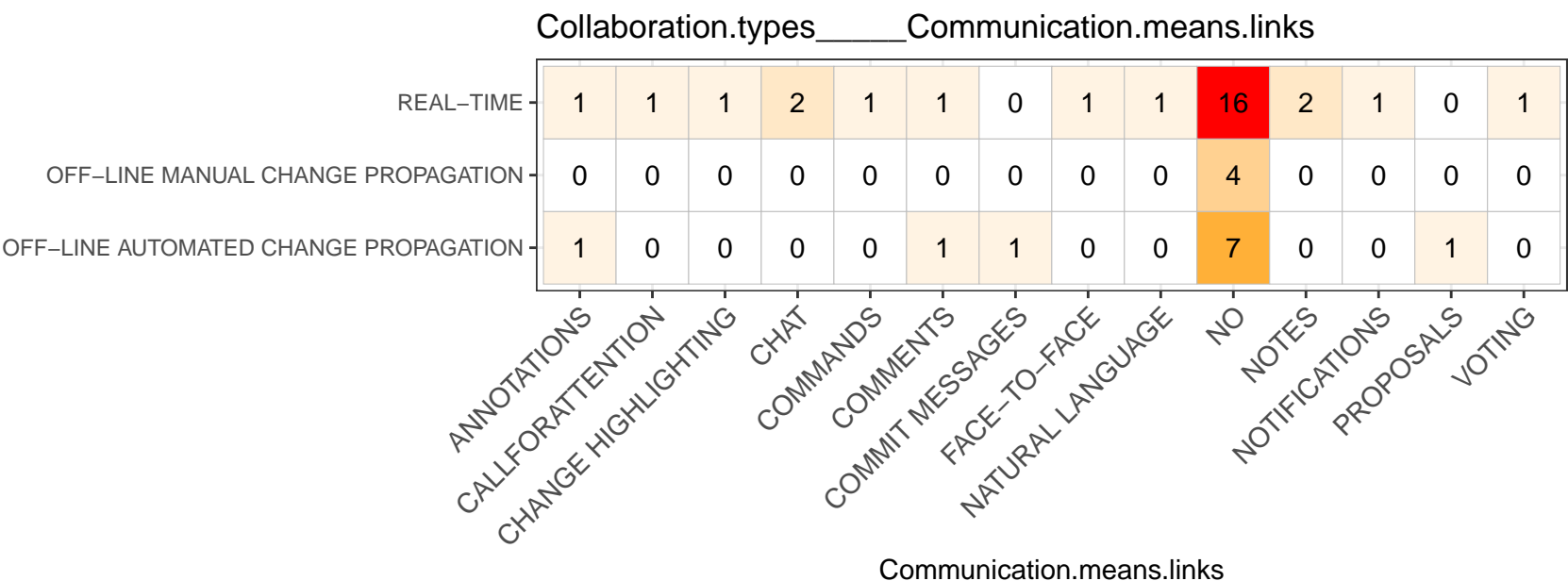




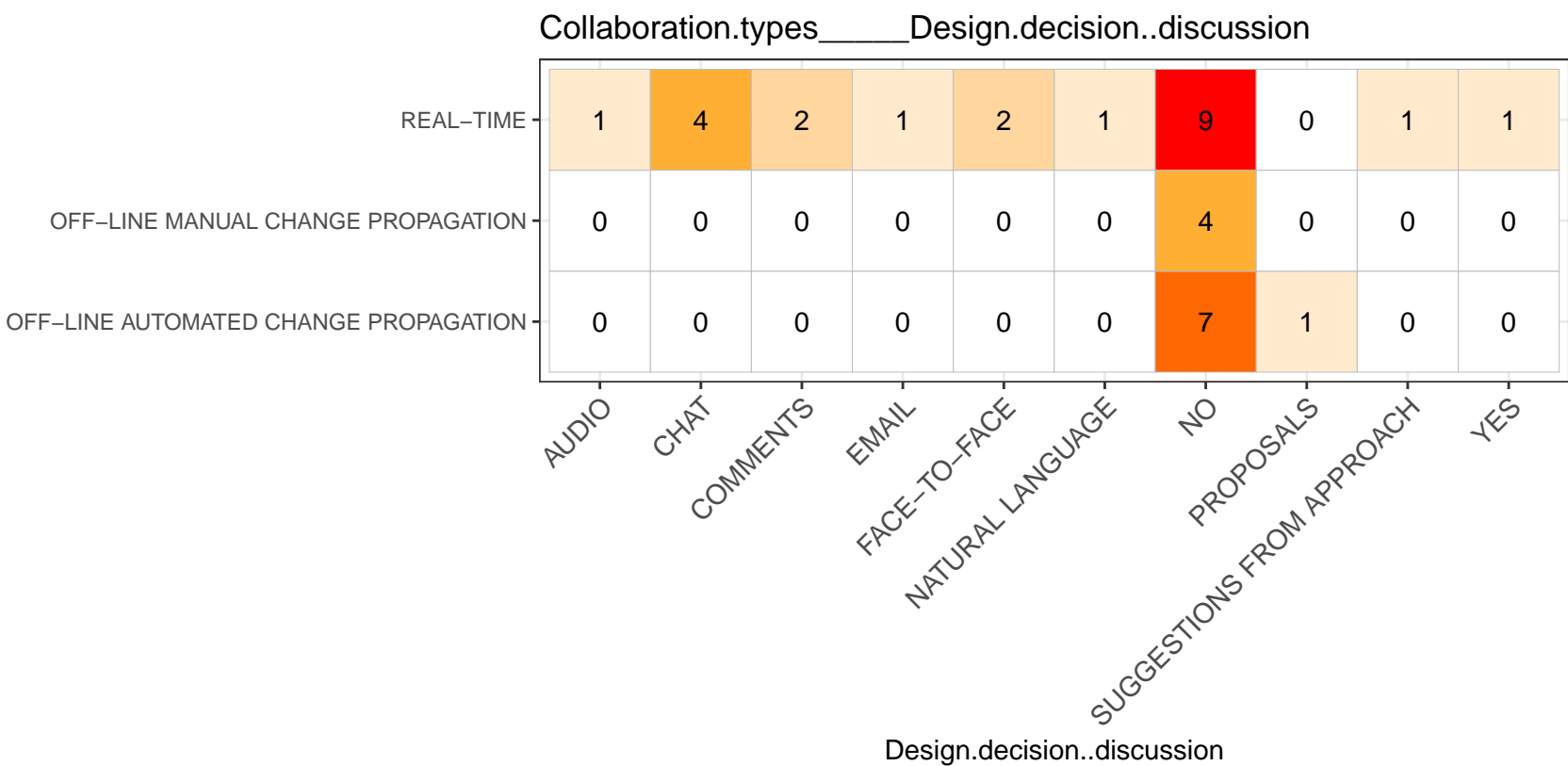
Collaboration.types



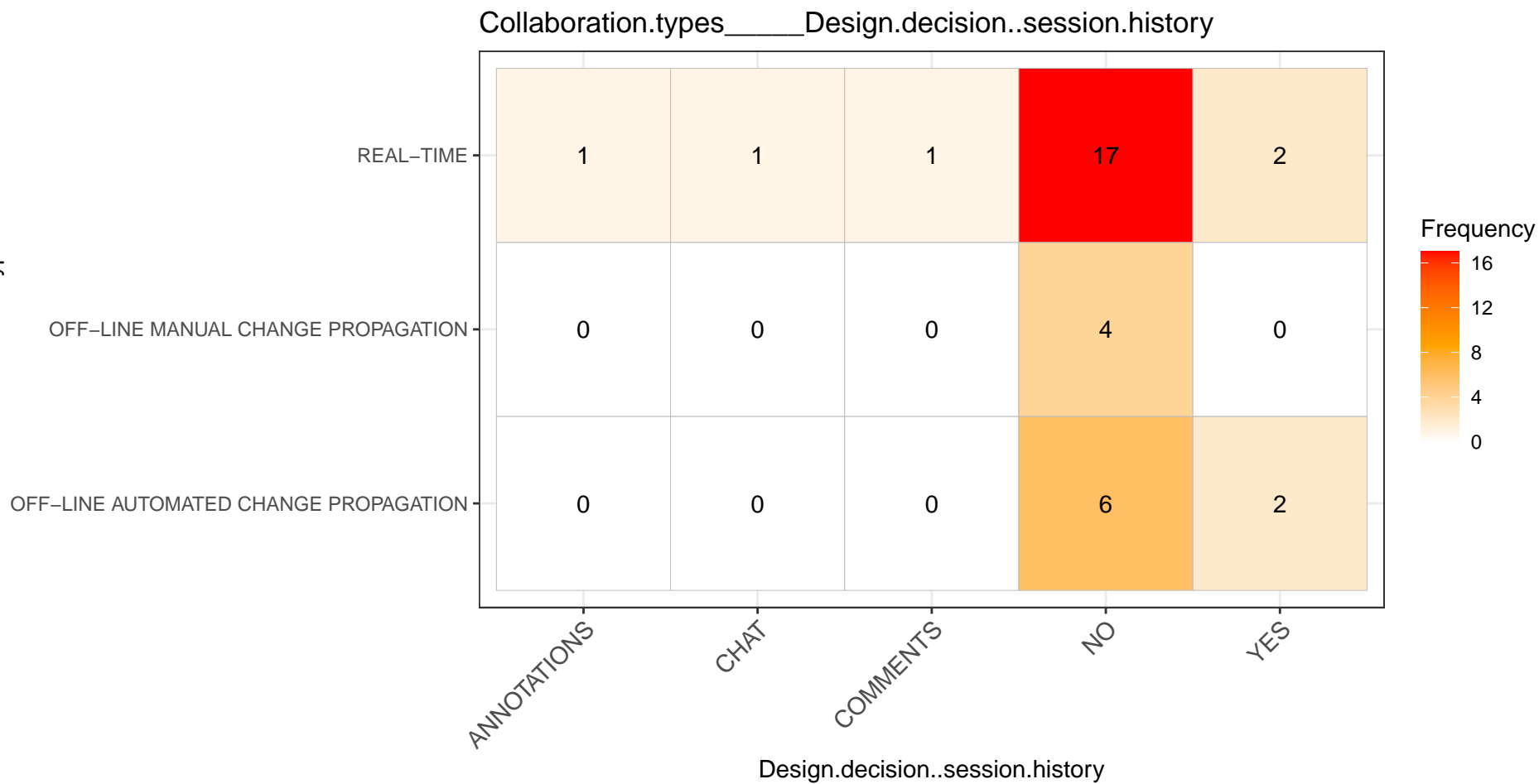
Collaboration.types



Collaboration.types



Collaboration.types



Collaboration.types _____ Stakeholder.types

Collaboration.types

REAL-TIME

9

19

OFF-LINE MANUAL CHANGE PROPAGATION

2

4

OFF-LINE AUTOMATED CHANGE PROPAGATION

0

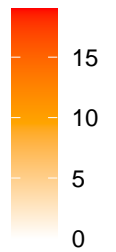
8

NONTECH

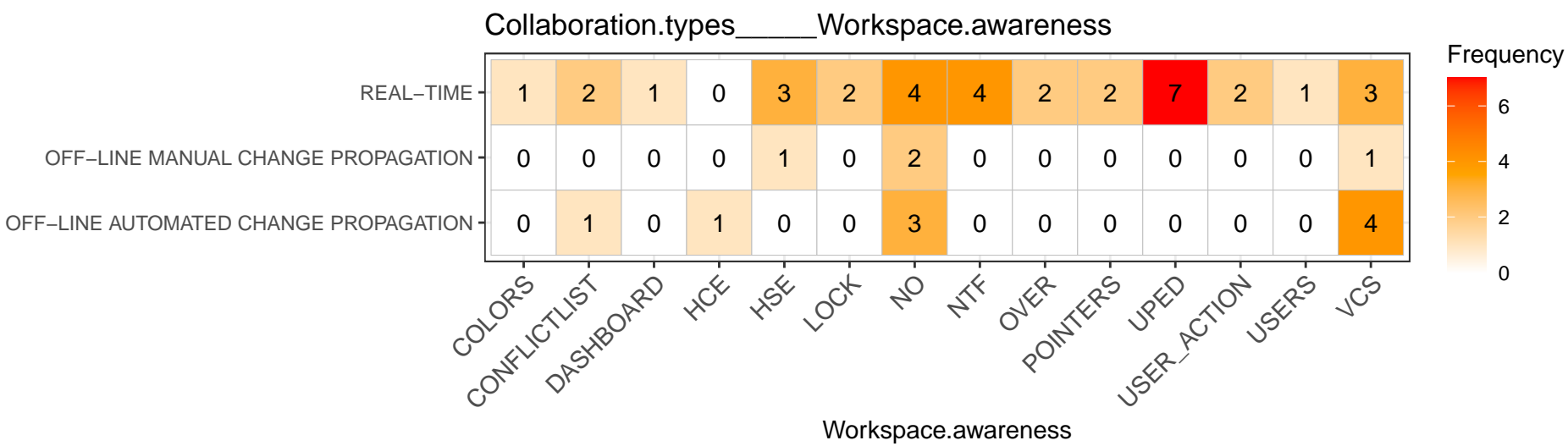
TECH

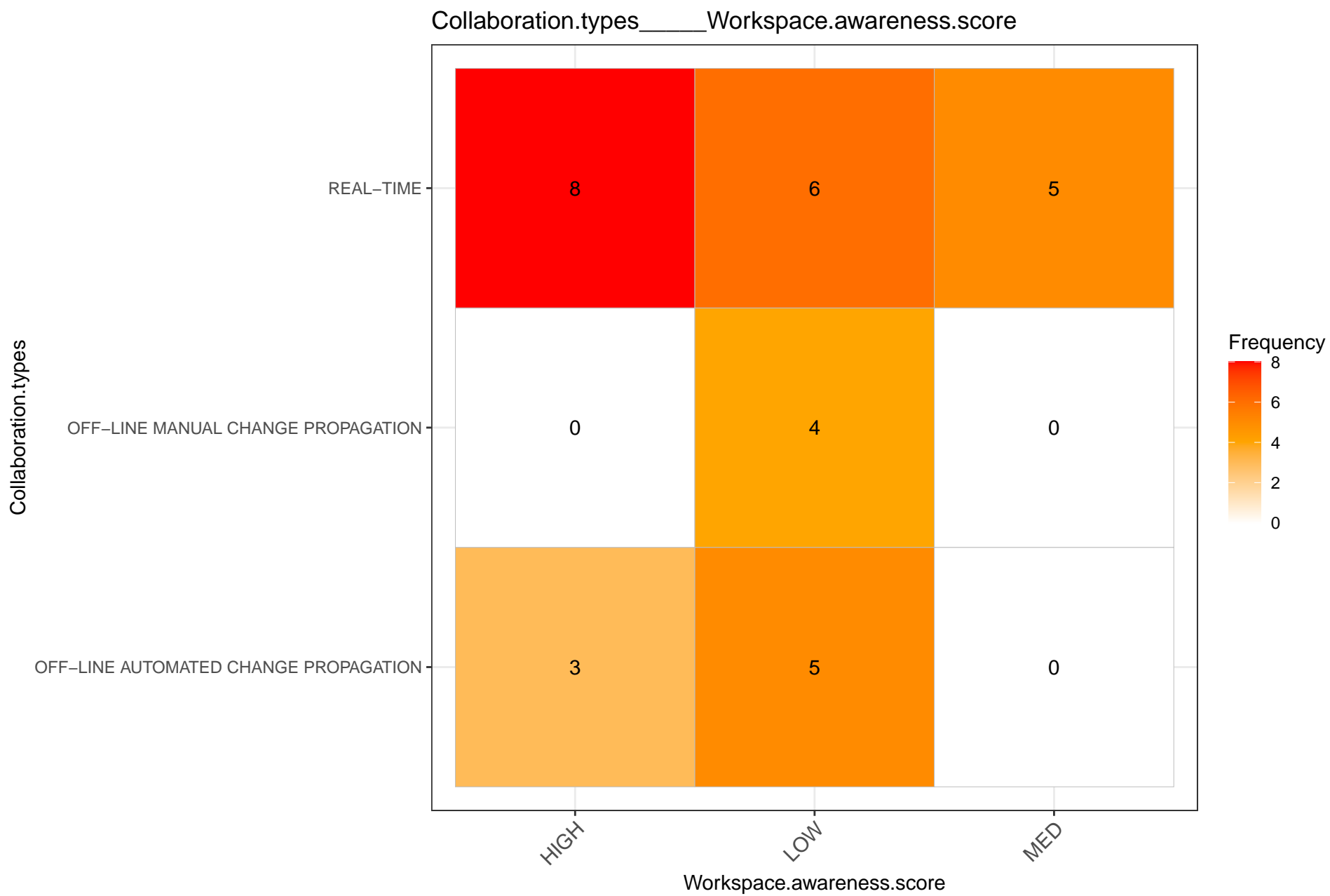
Stakeholder.types

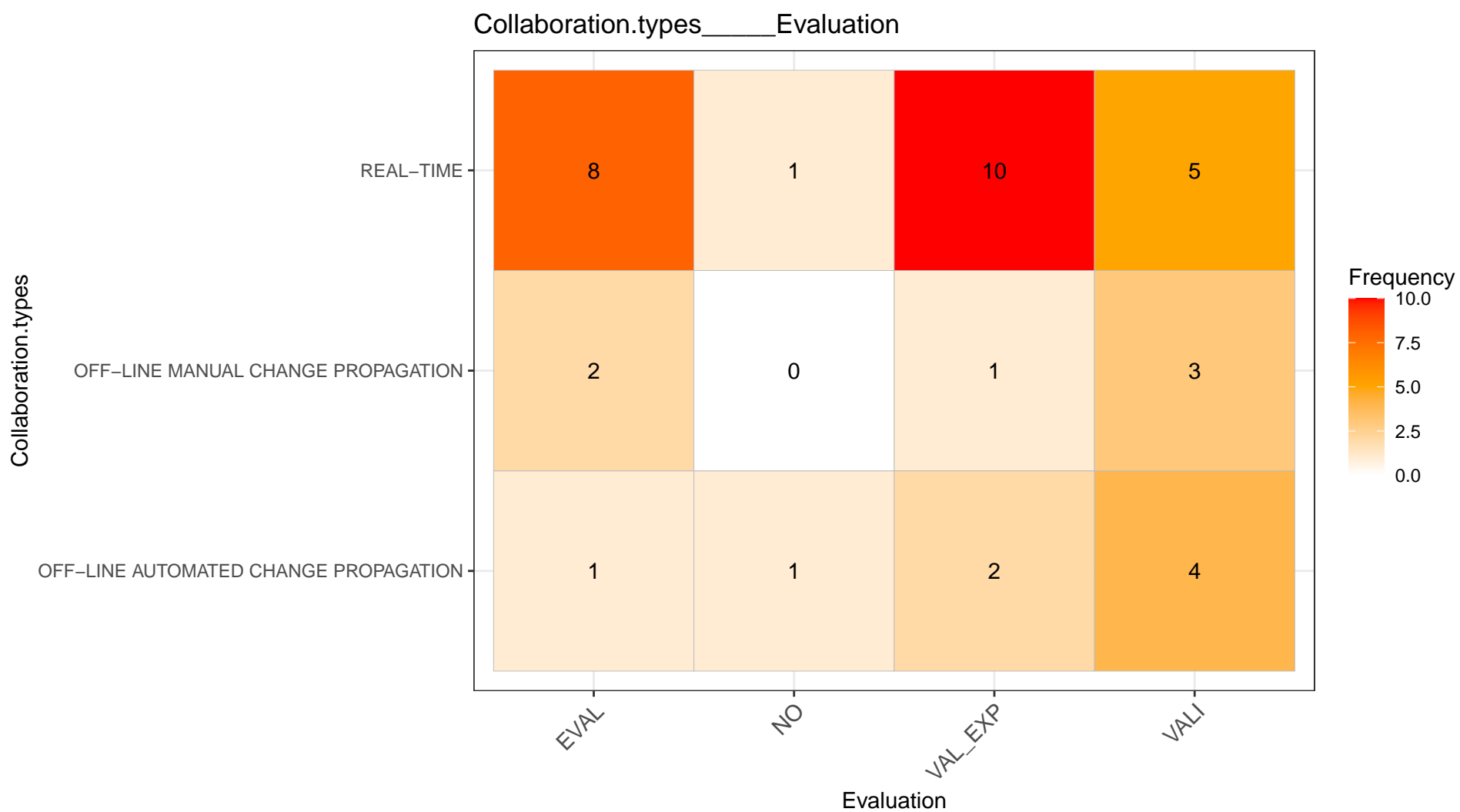
Frequency



Collaboration.types







Collaboration.types_____Tool.availability

Collaboration.types

REAL-TIME

3

16

OFF-LINE MANUAL CHANGE PROPAGATION

2

2

OFF-LINE AUTOMATED CHANGE PROPAGATION

2

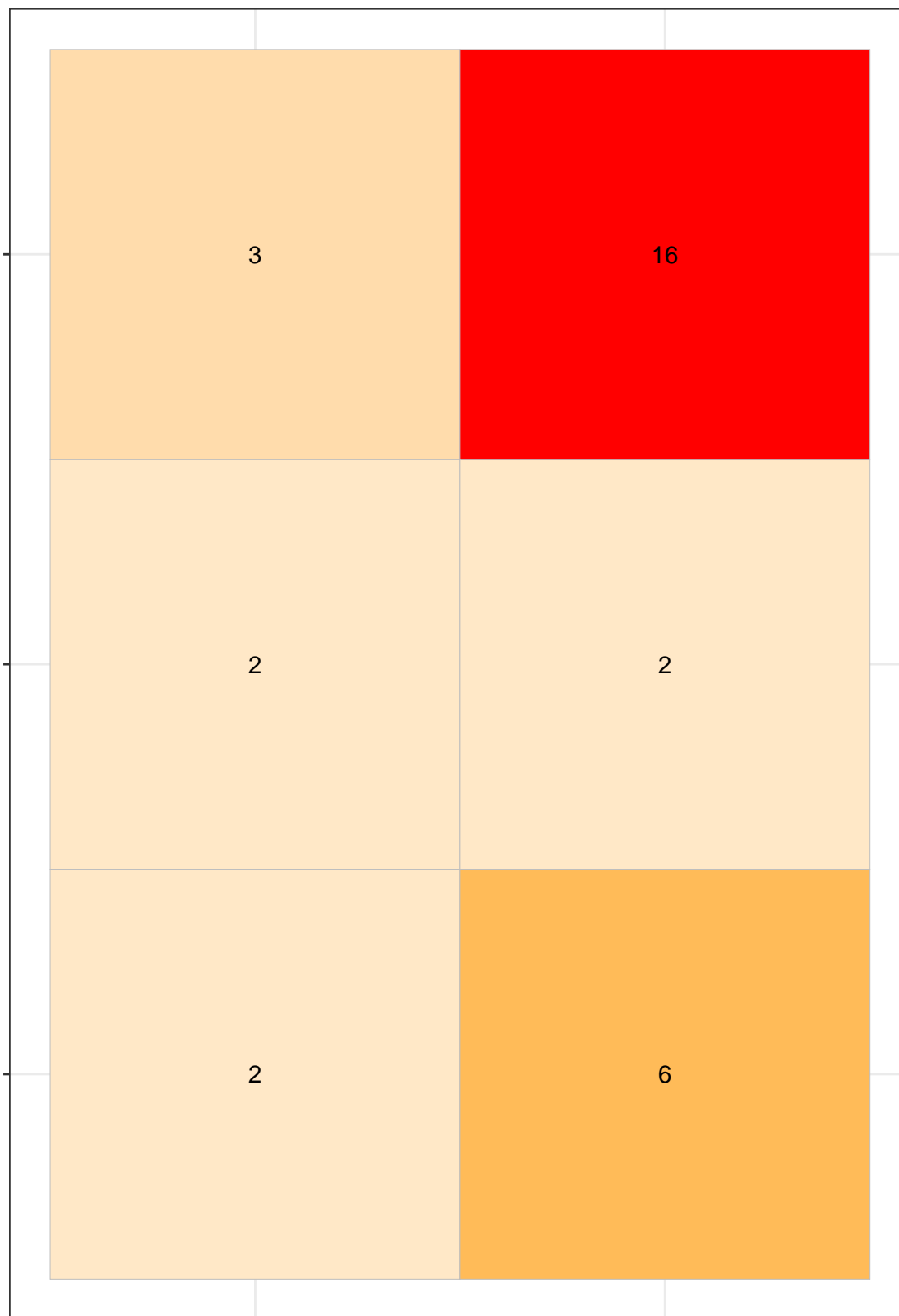
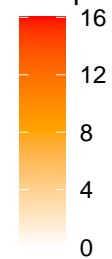
6

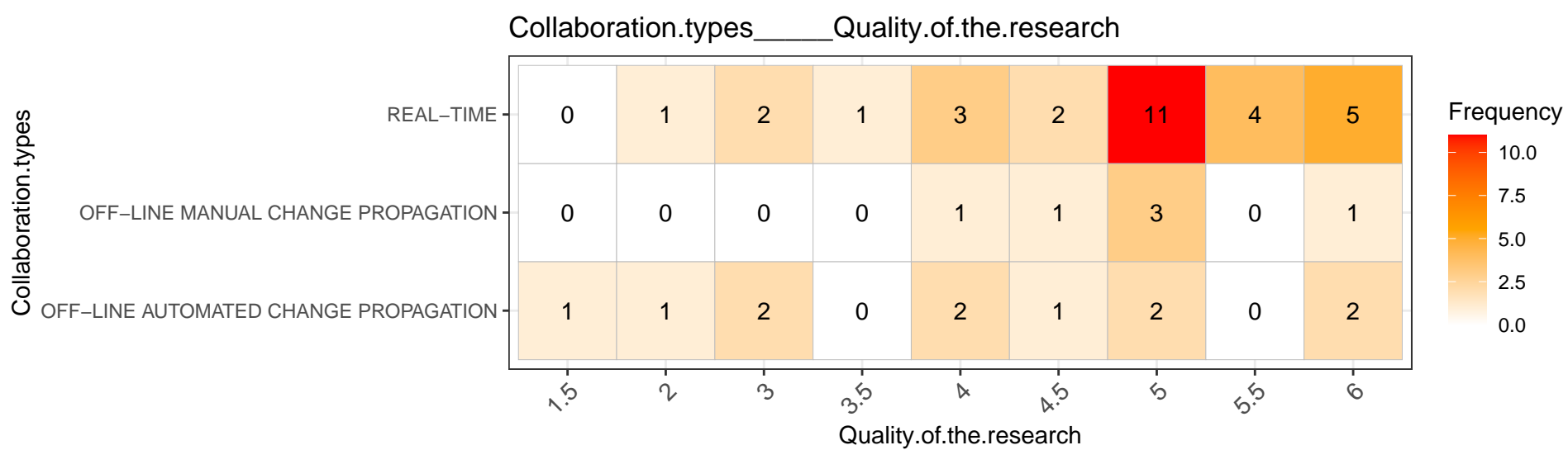
NO

YES

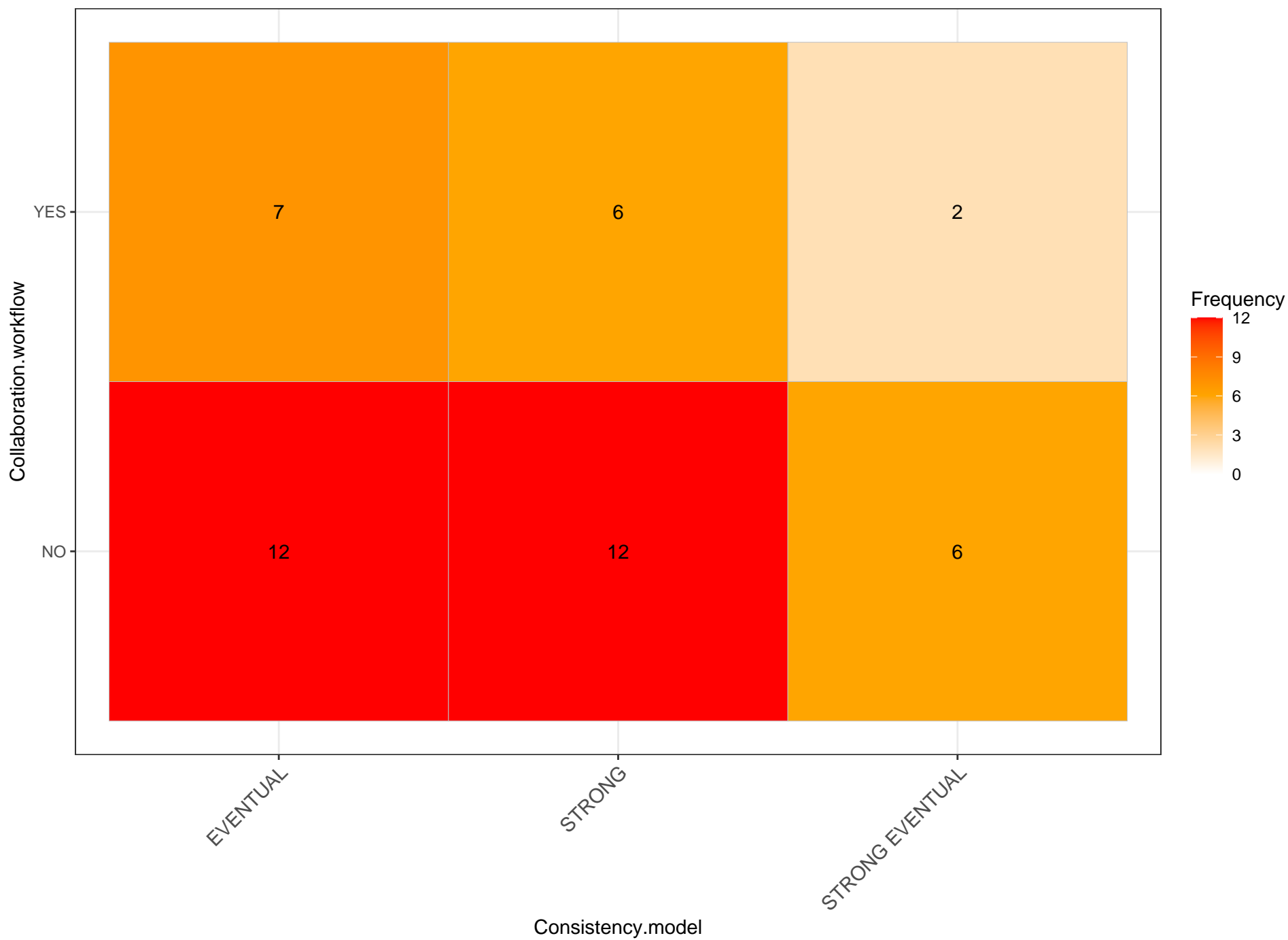
Tool.availability

Frequency





Collaboration.workflow_____Consistency.model



Collaboration.workflow____Unit.of.sync

Collaboration.workflow

YES

5

6

NO

11

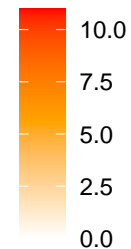
7

CHANGE

STATE

Unit.of.sync

Frequency



Collaboration.workflow____Locking

Collaboration.workflow

YES

10

1

0

NO

12

1

5

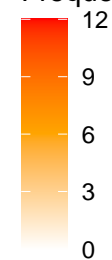
NO

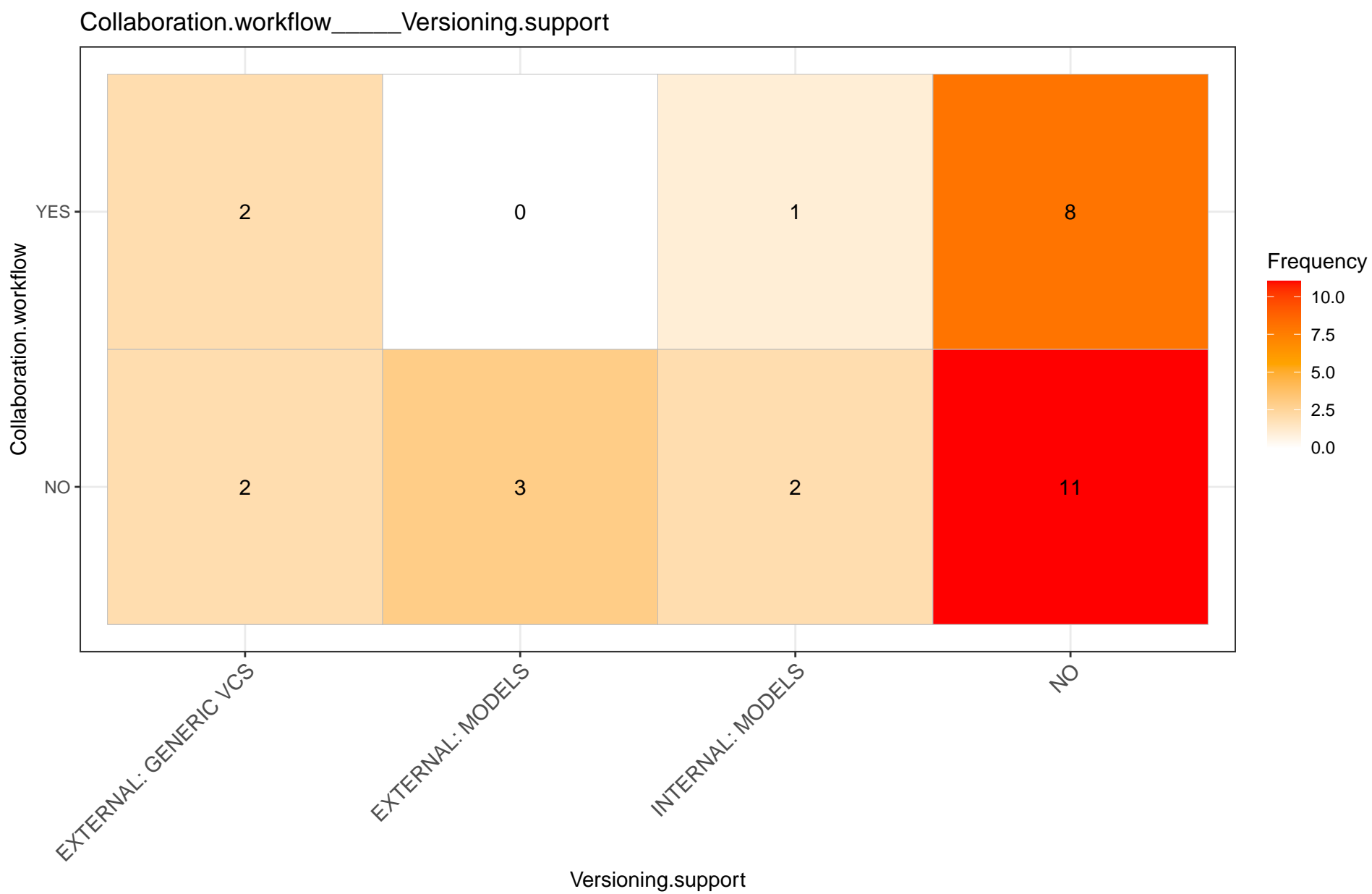
OPTIMISTIC

PESSIMISTIC: PARTLOCK

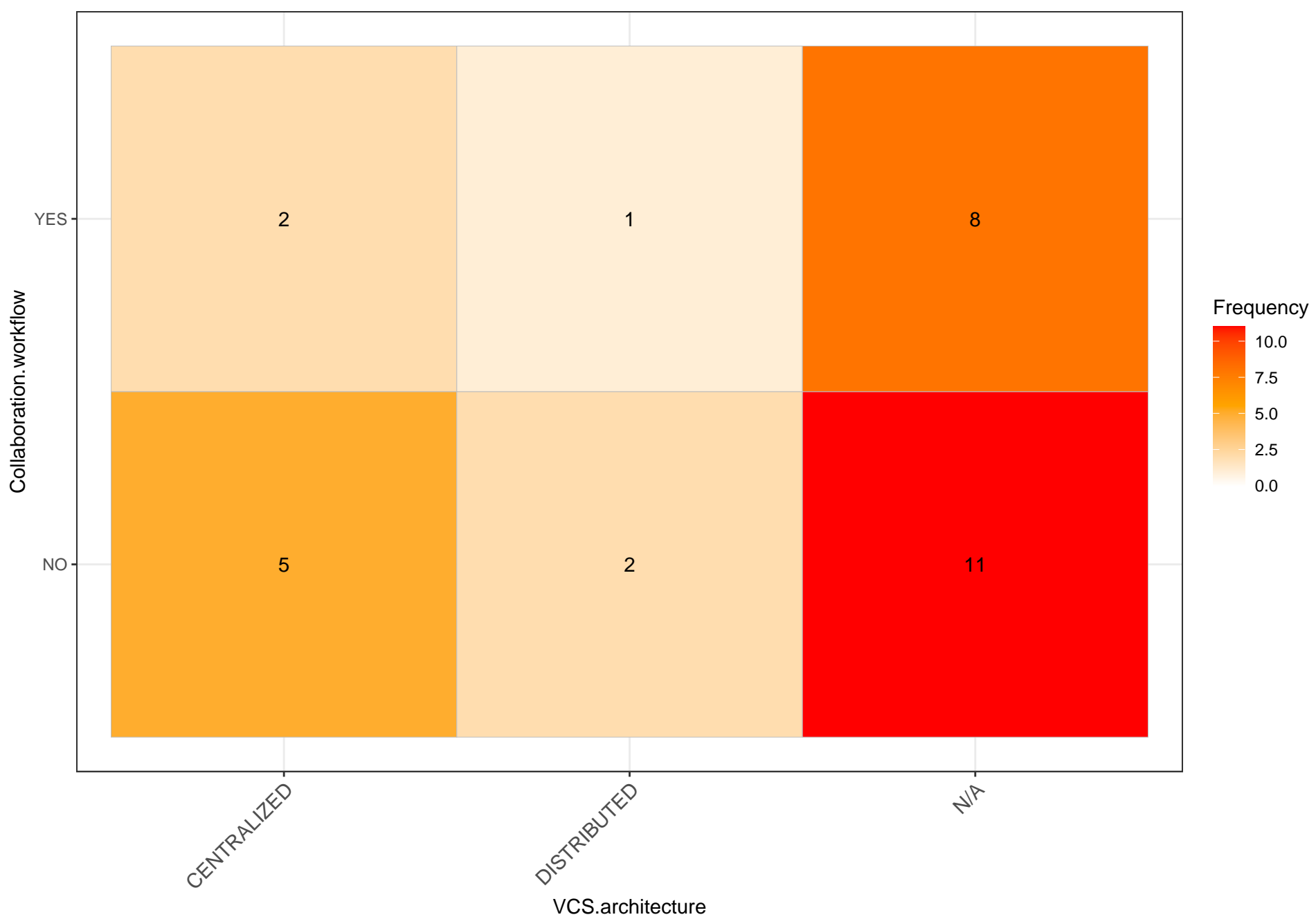
Locking

Frequency





Collaboration.workflow____VCS.architecture



Collaboration.workflow_____External.VCS.means

Collaboration.workflow

YES

0

2

9

1

NO

1

3

14

2

CUSTOM MODEL REPO

GIT

N/A

SVN

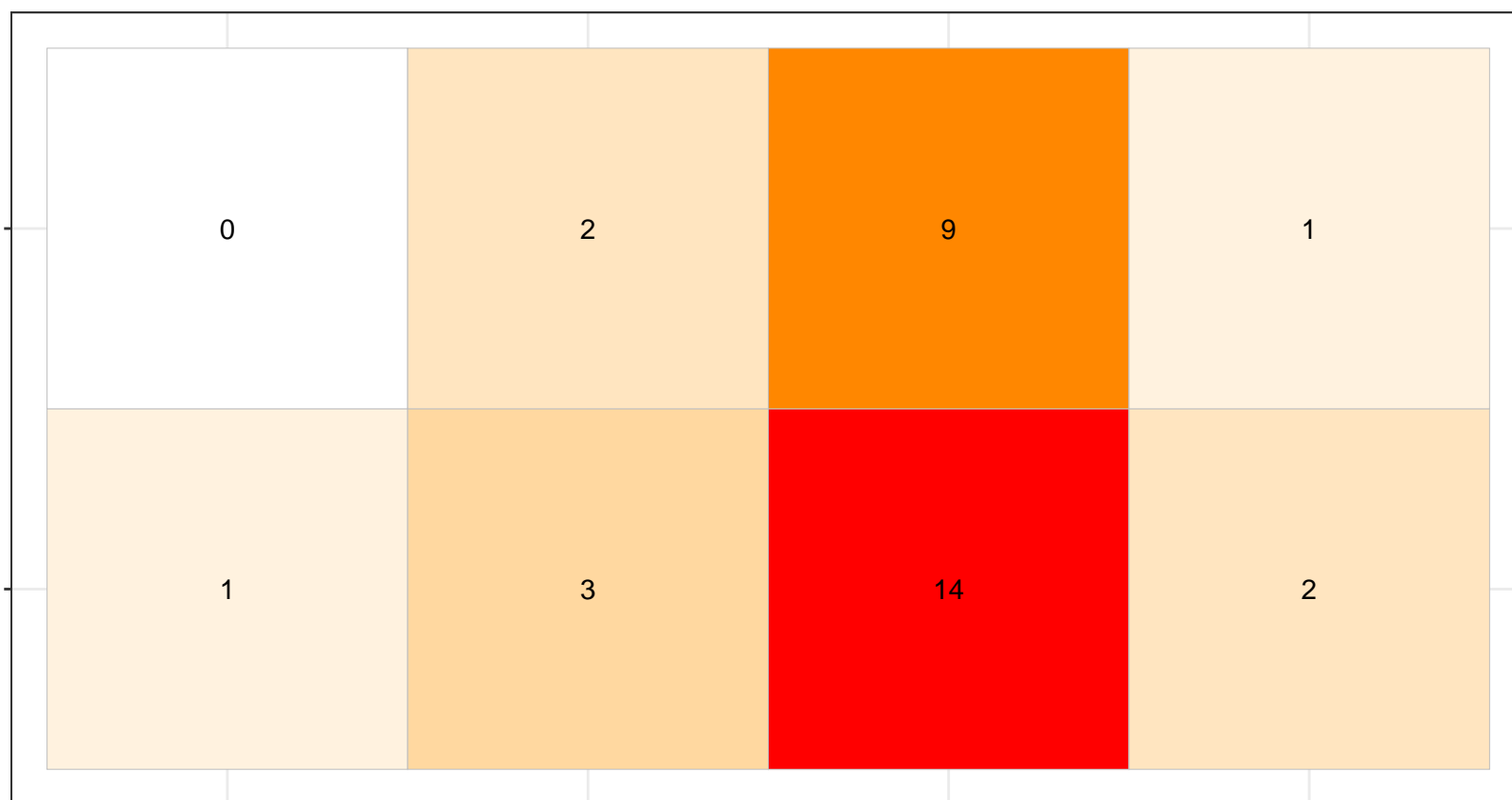
External.VCS.means

Frequency

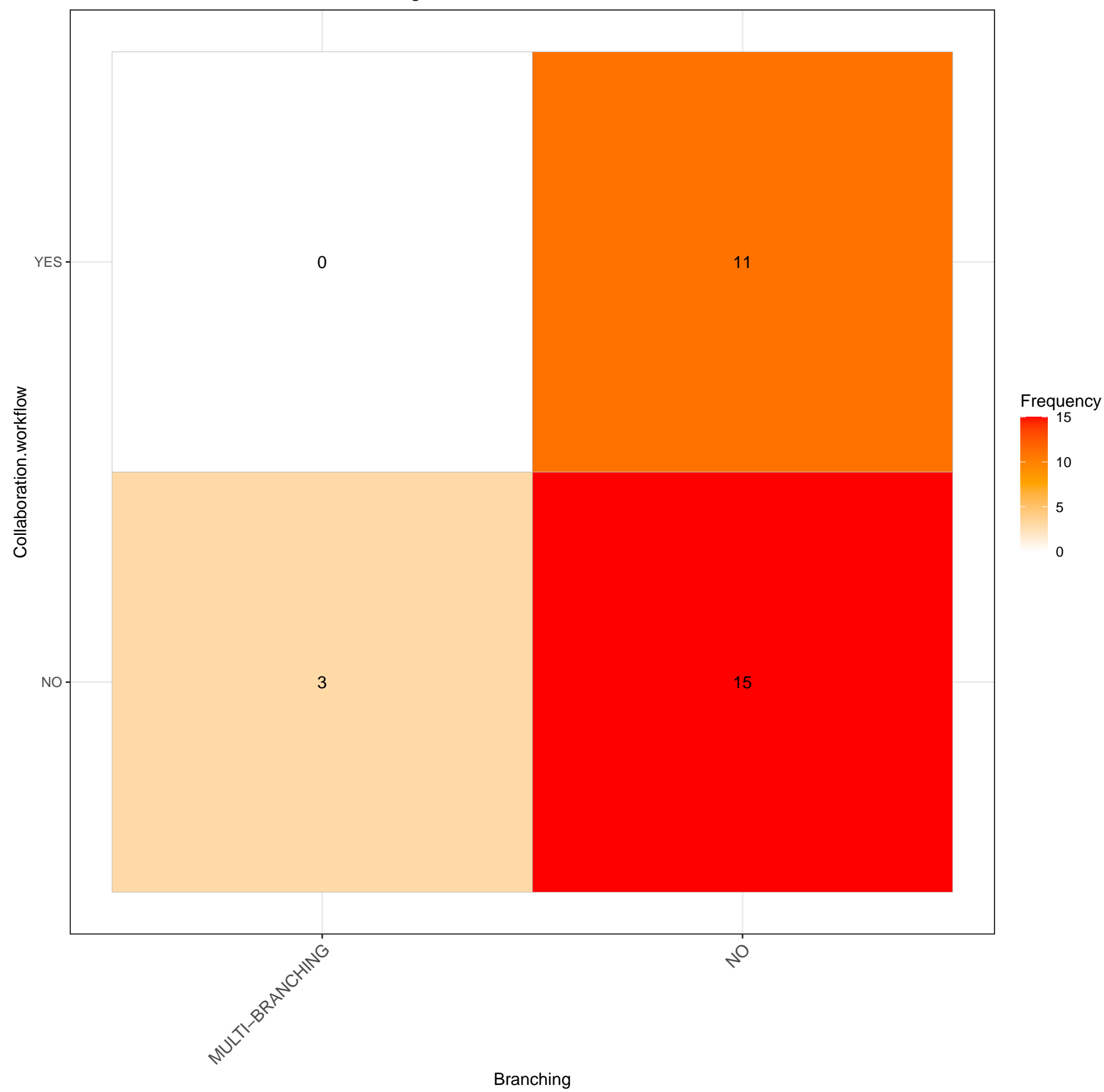
10

5

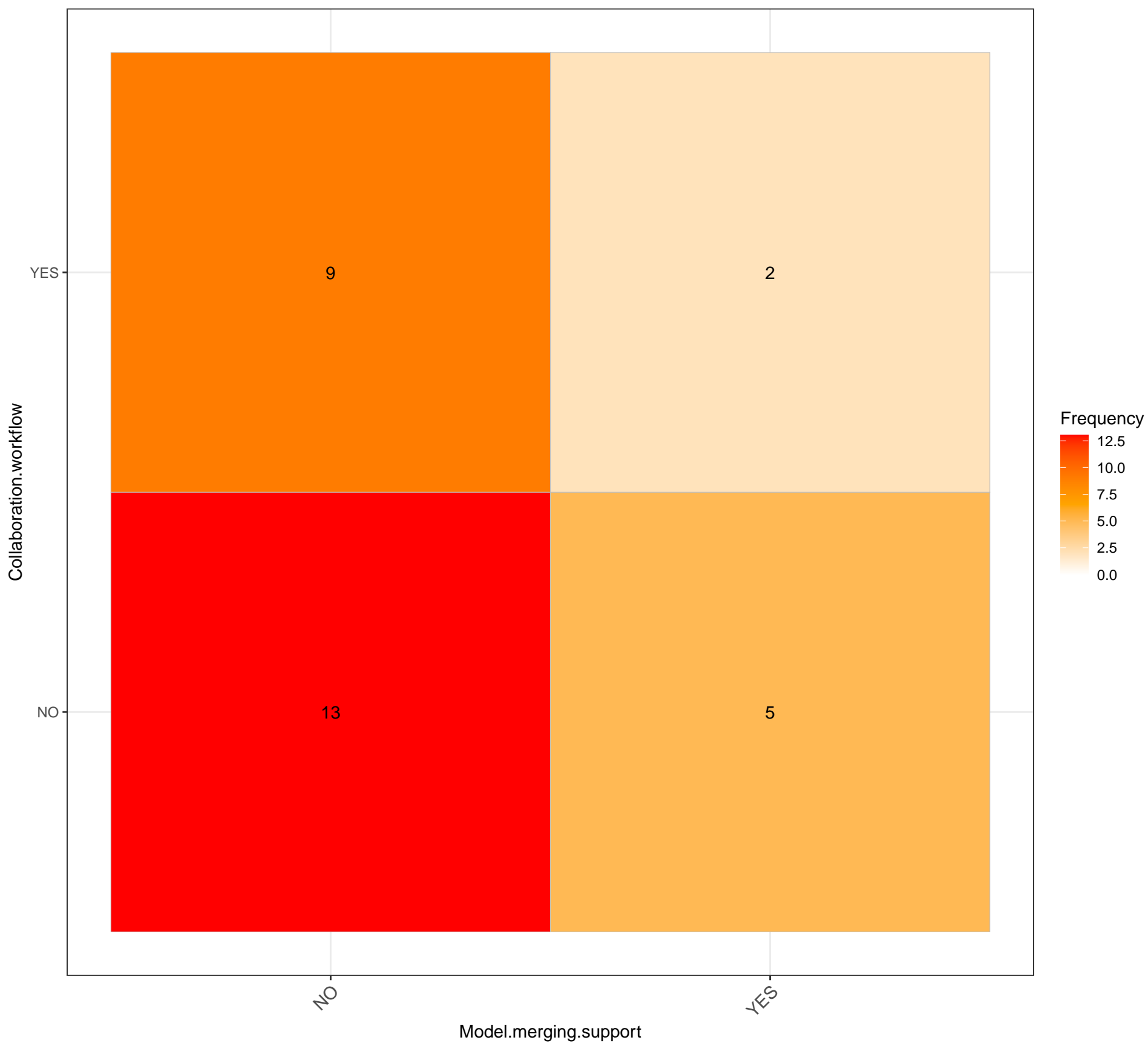
0



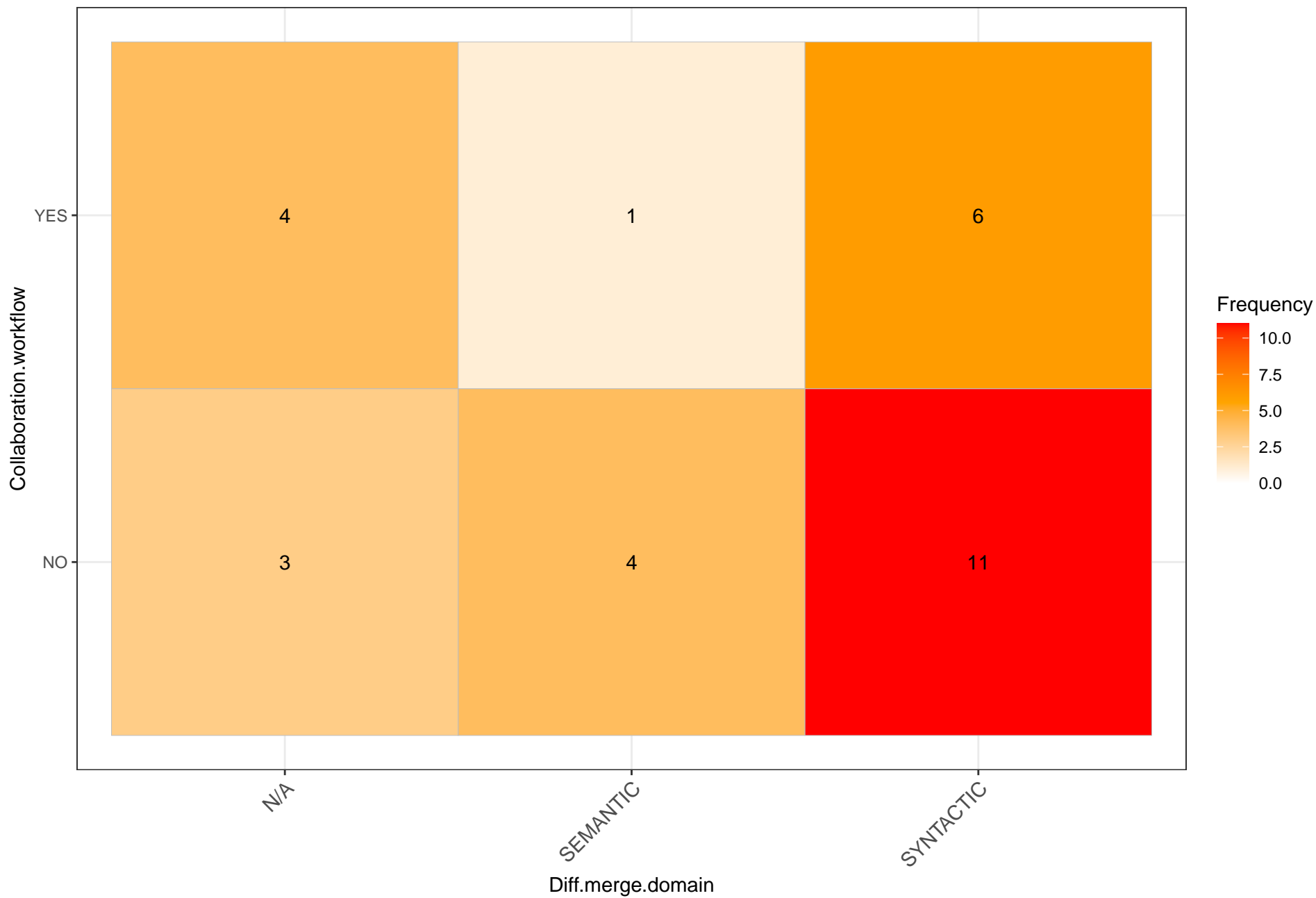
Collaboration.workflow_____Branching



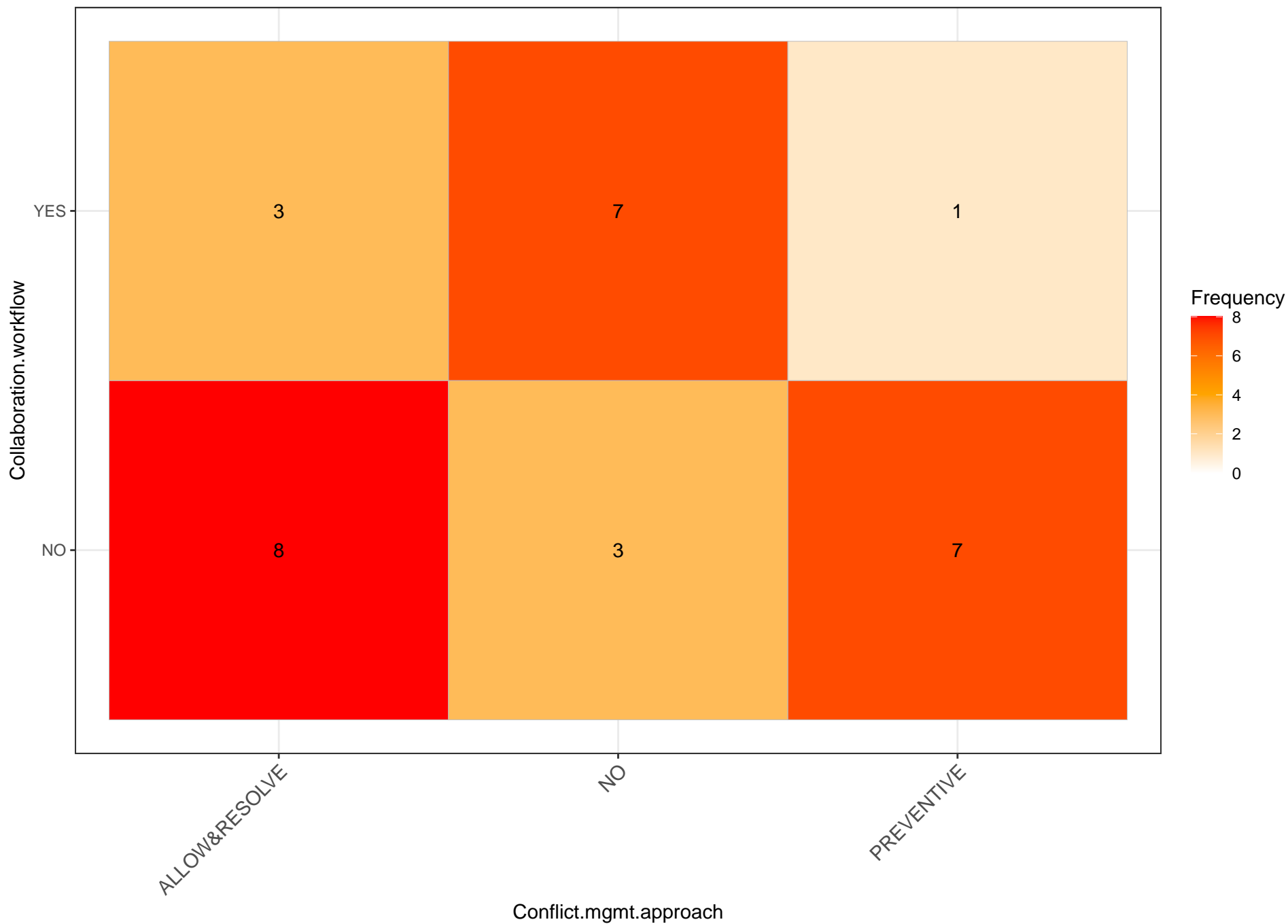
Collaboration.workflow_____Model.merging.support



Collaboration.workflow____Diff.merge.domain



Collaboration.workflow____Conflict.mgmt.approach



Collaboration.workflow_____Conflict.detection

Collaboration.workflow

YES

7

4

1

NO

6

12

6

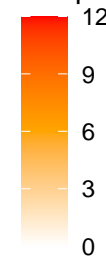
NO

YES

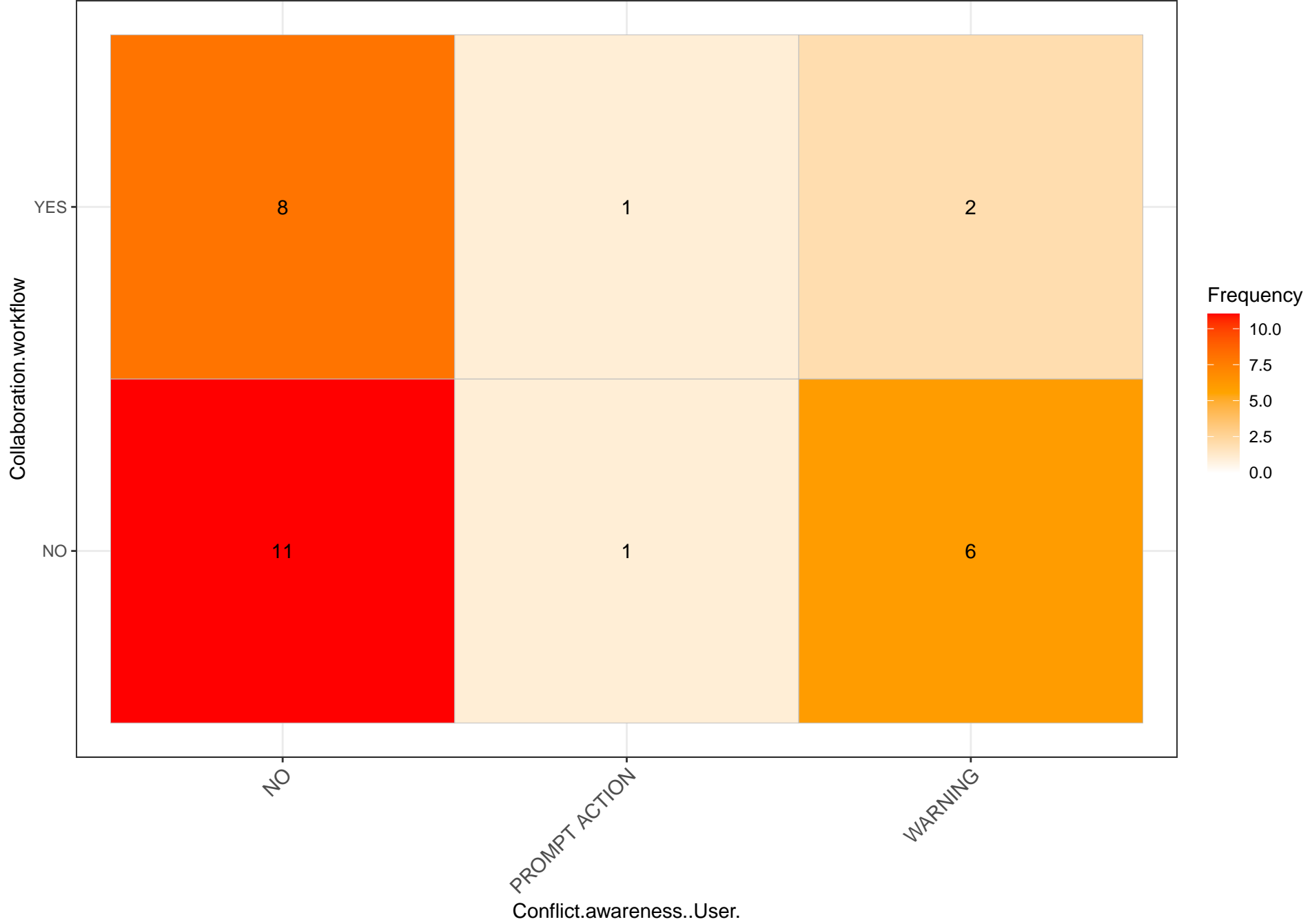
YES: INCREMENTAL

Conflict.detection

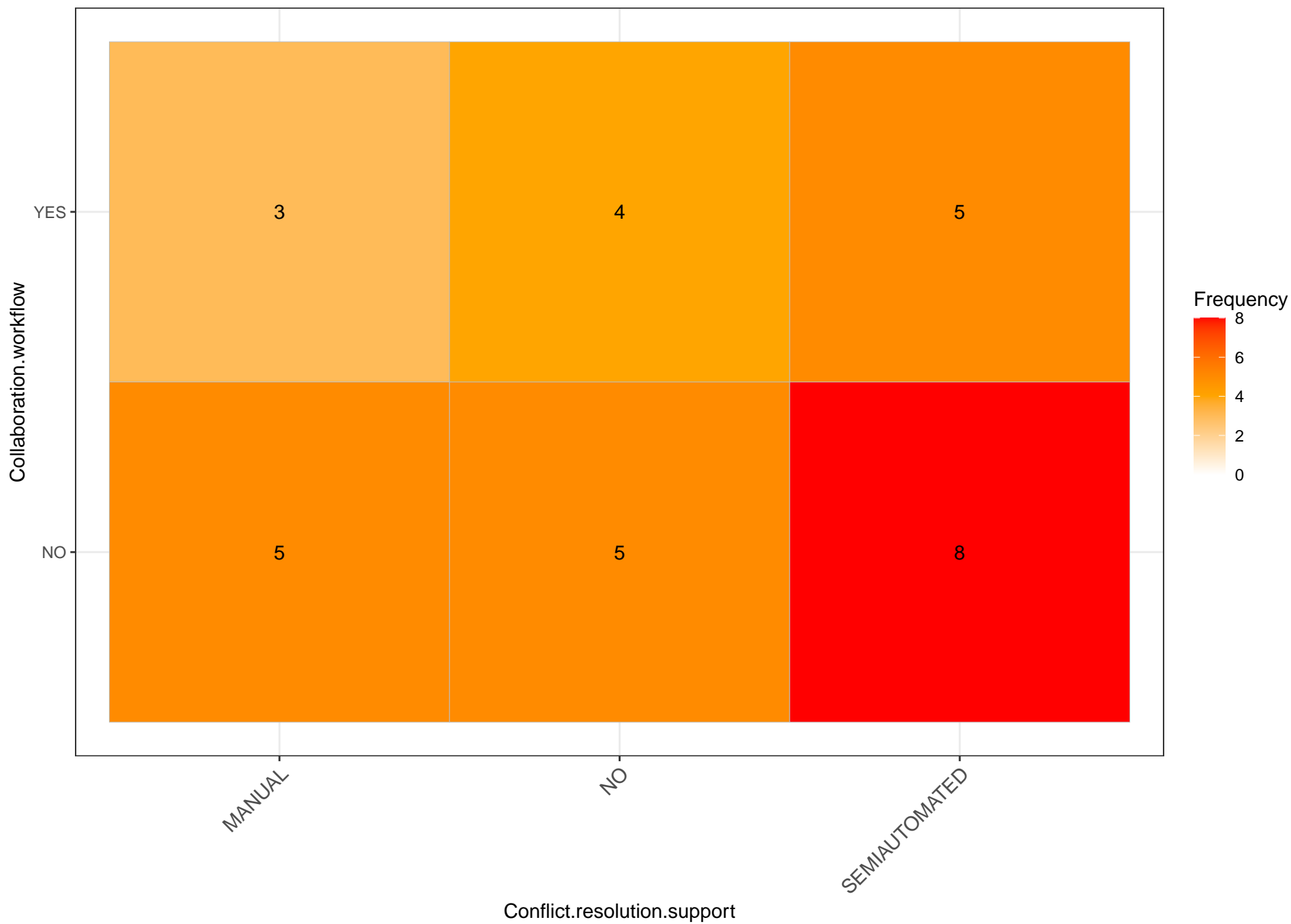
Frequency



Collaboration.workflow_____Conflict.awareness..User.



Collaboration.workflow____Conflict.resolution.support



Collaboration.workflow____Shared.workspace

Collaboration.workflow

YES

10

1

NO

16

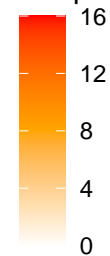
2

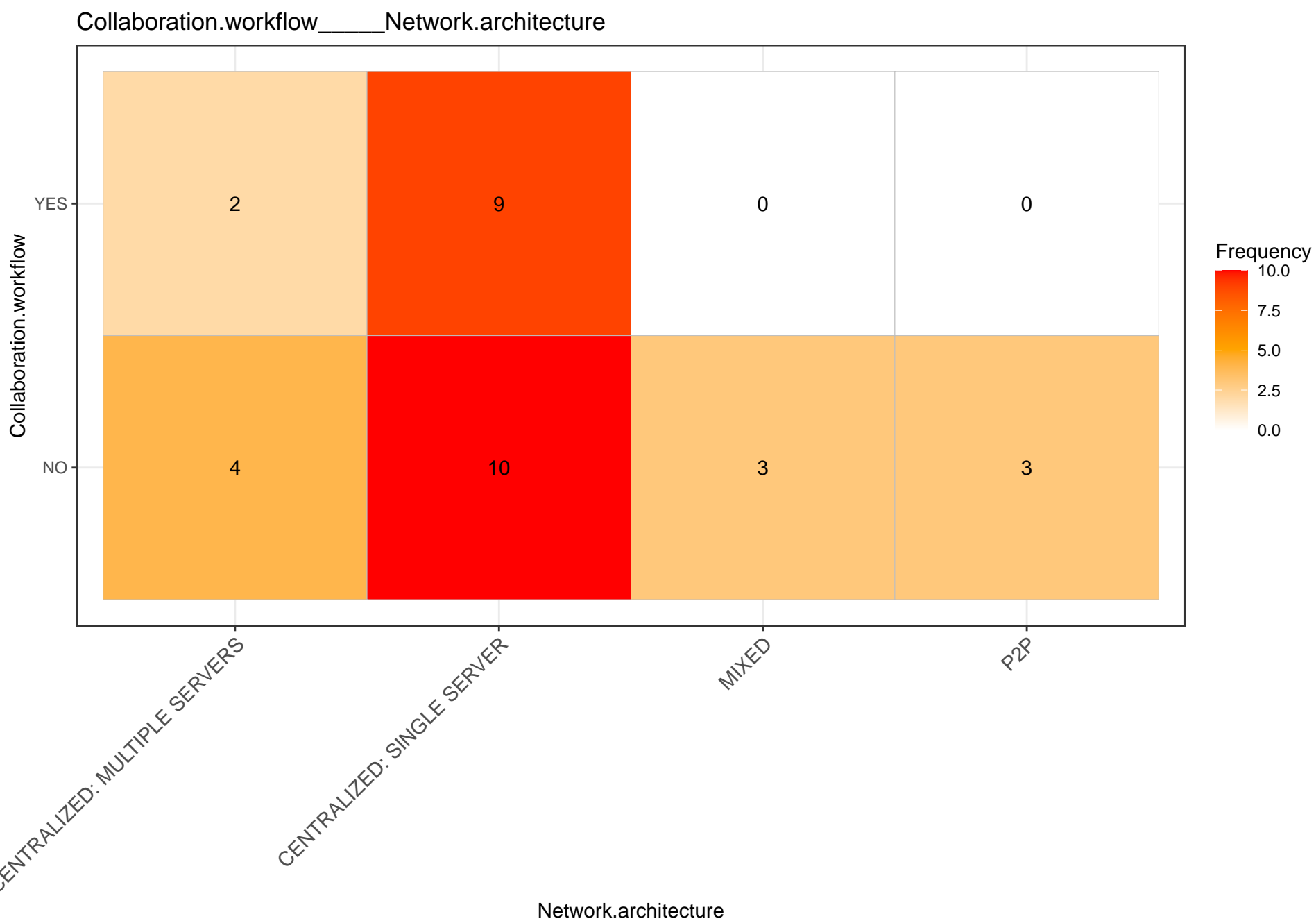
REMOTE

SAMEPLACE

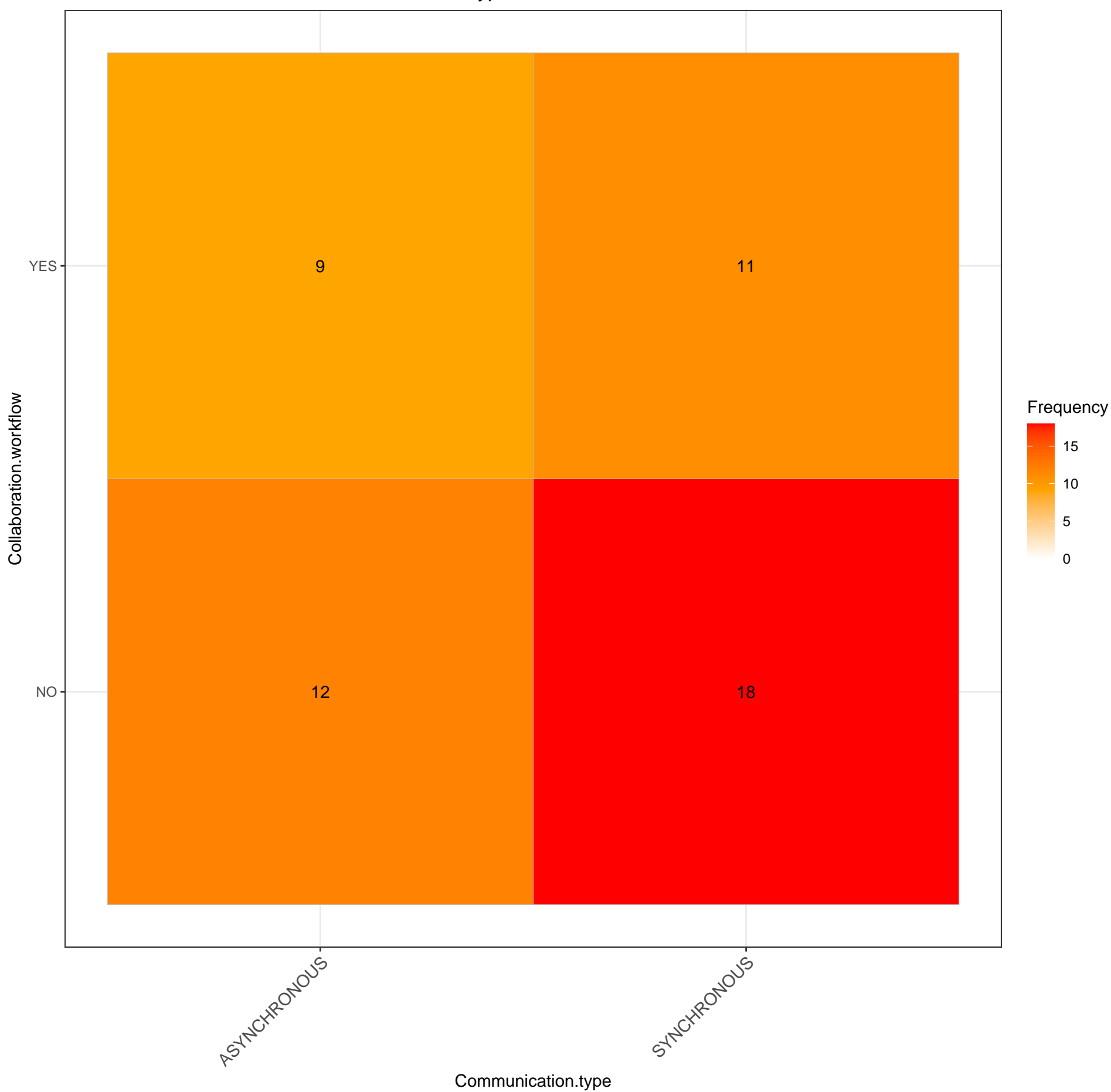
Shared.workspace

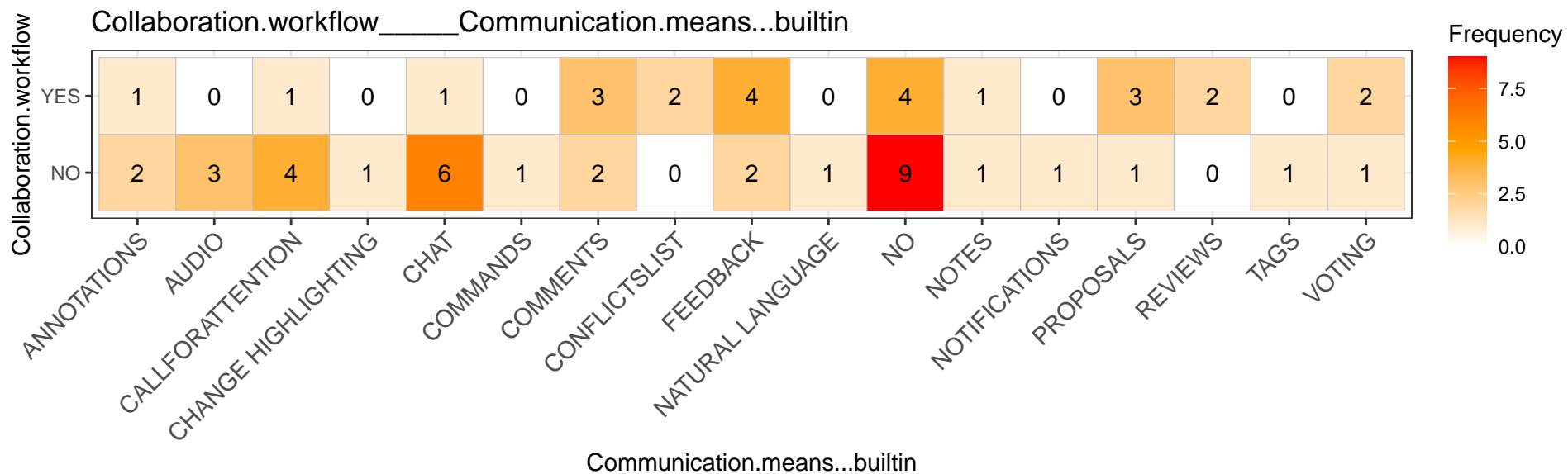
Frequency

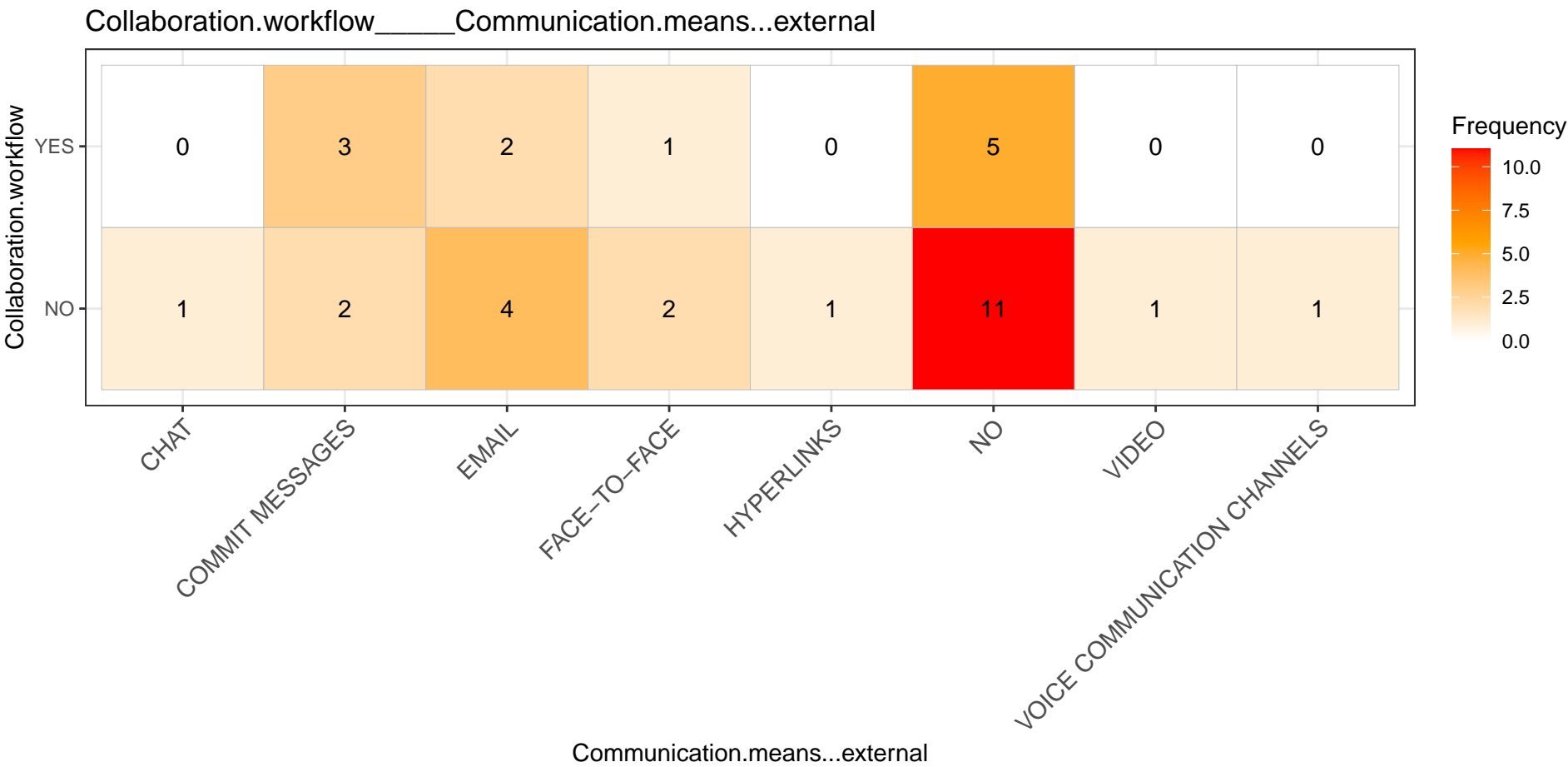




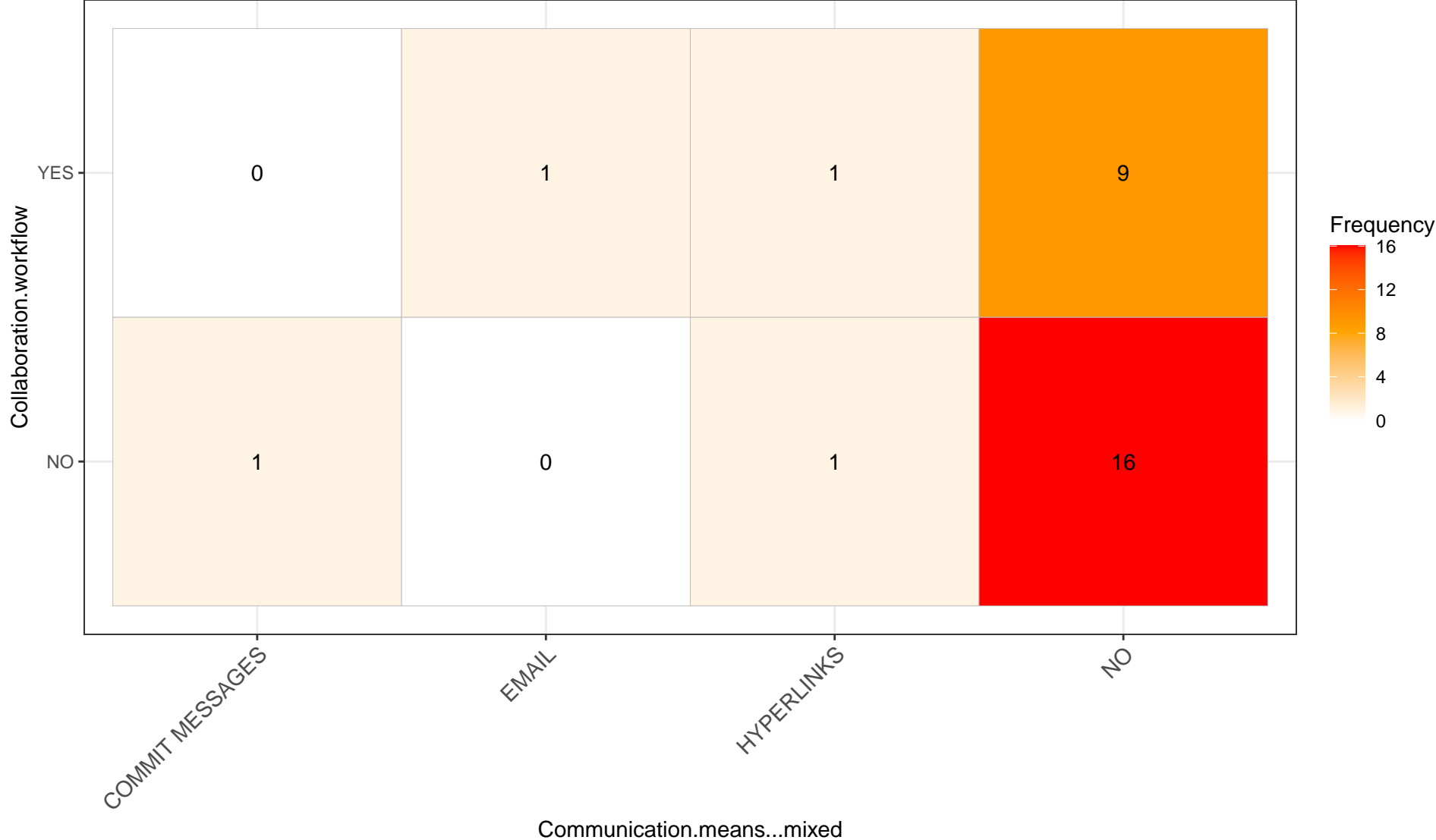
Collaboration.workflow_____Communication.type

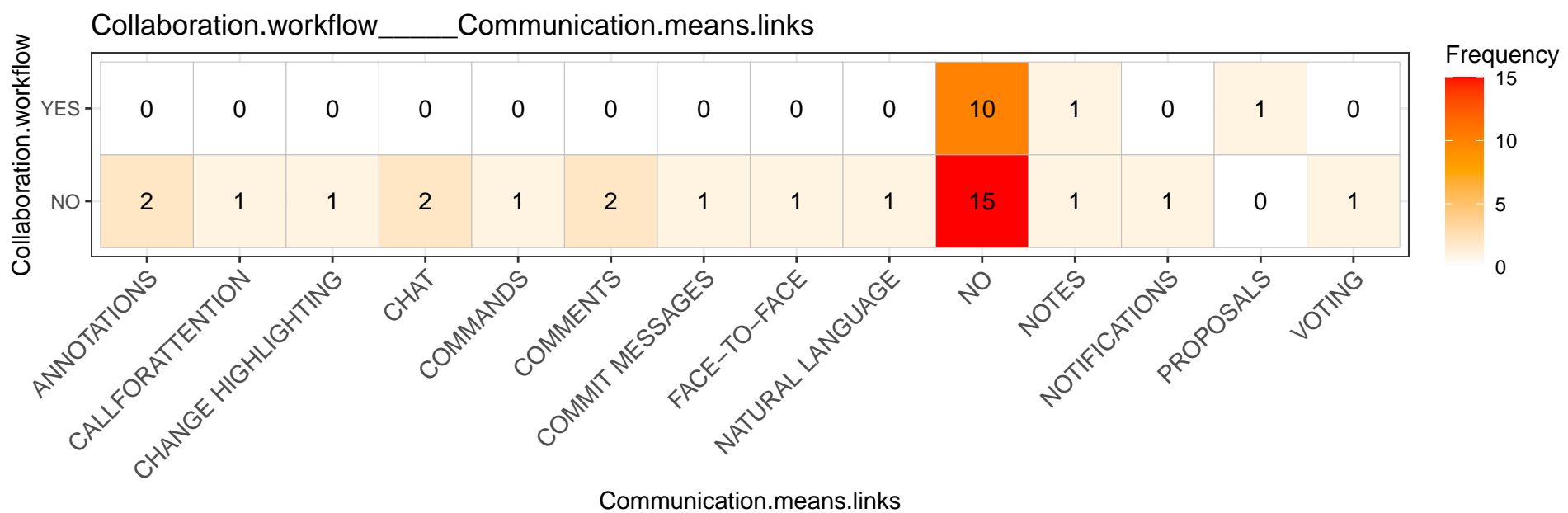


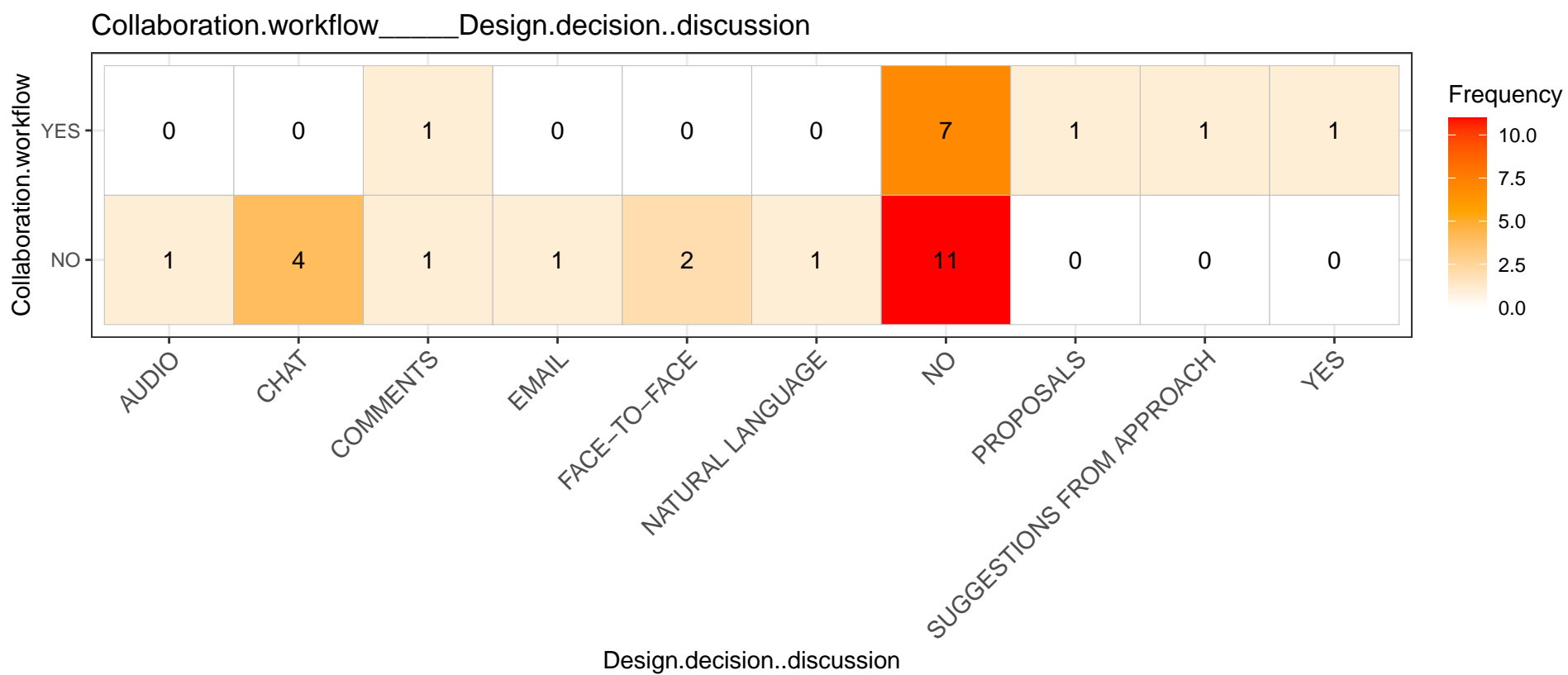




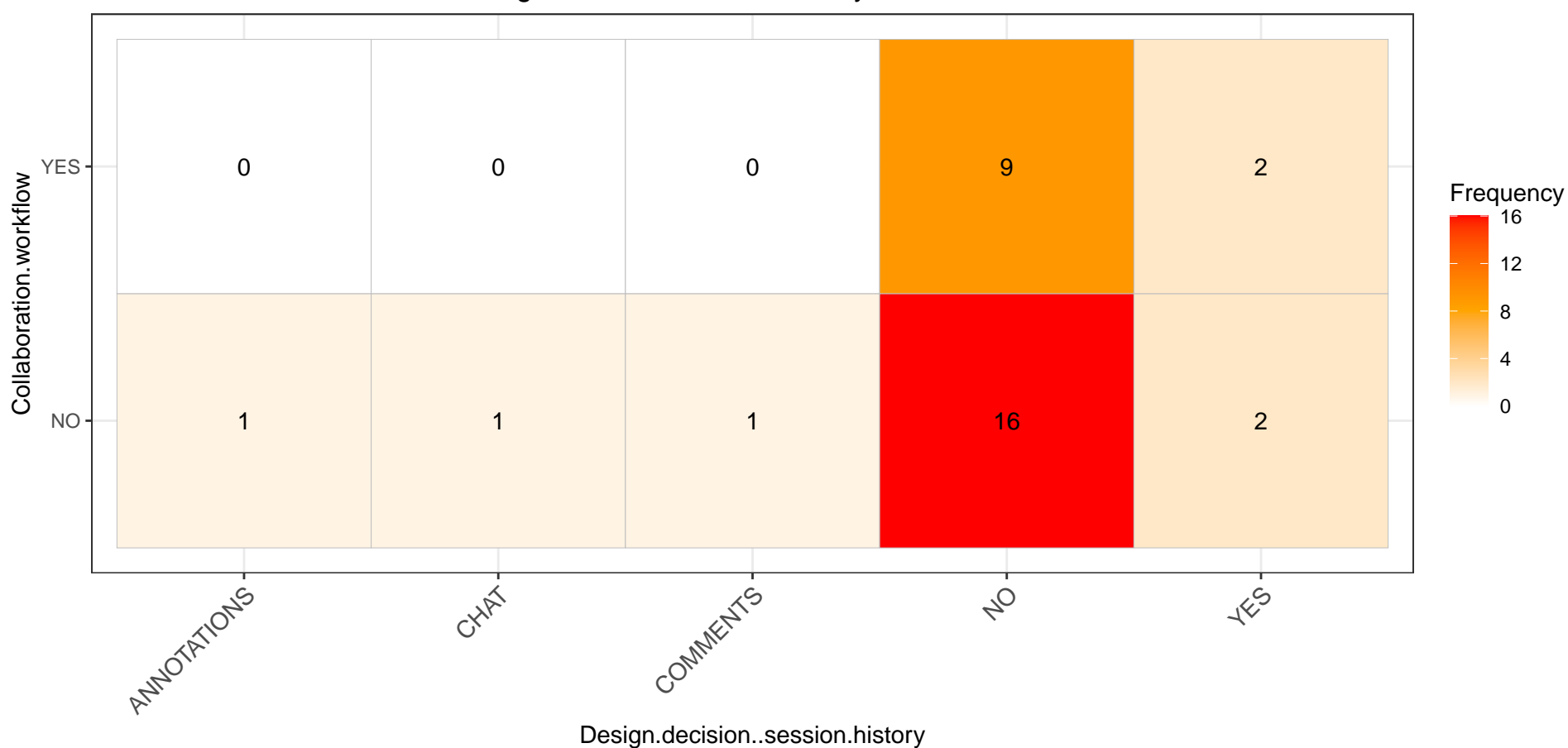
Collaboration.workflow_____Communication.means...mixed







Collaboration.workflow_____Design.decision..session.history



Collaboration.workflow ____ Stakeholder.types

Collaboration.workflow

YES

5

11

NO

6

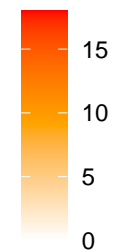
18

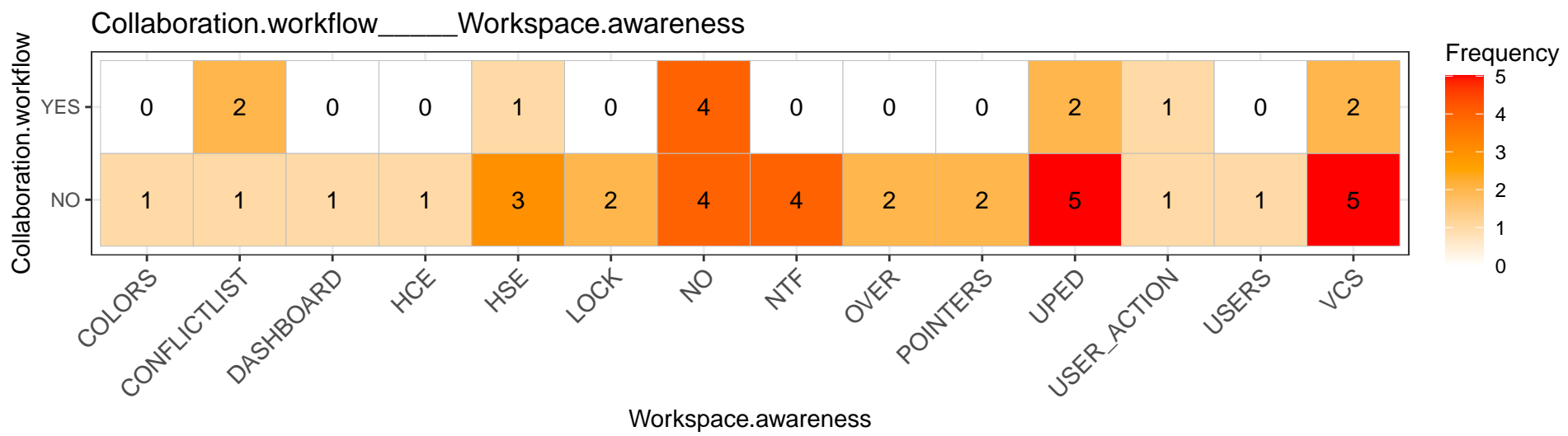
NONTECH

TECH

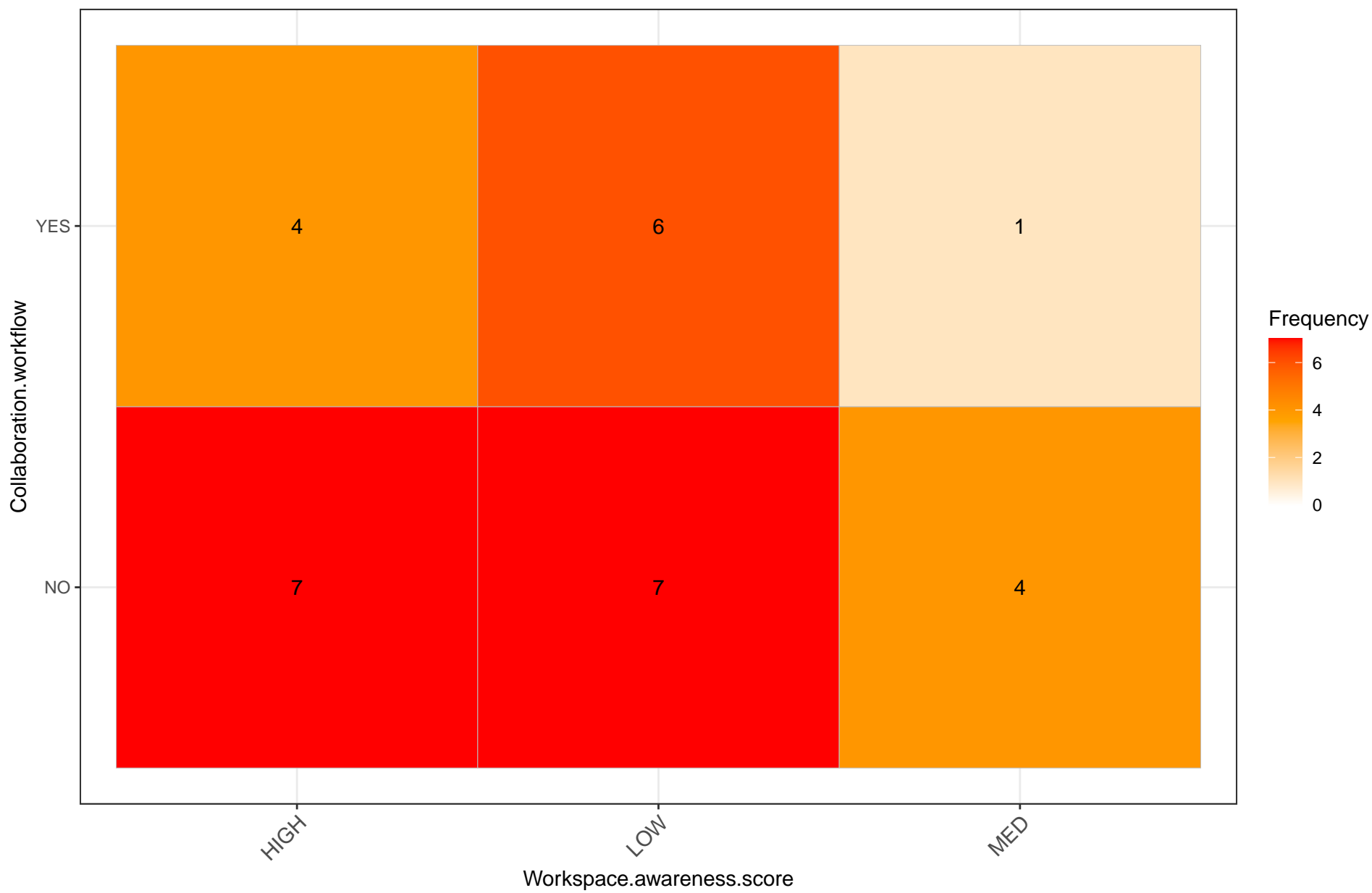
Stakeholder.types

Frequency

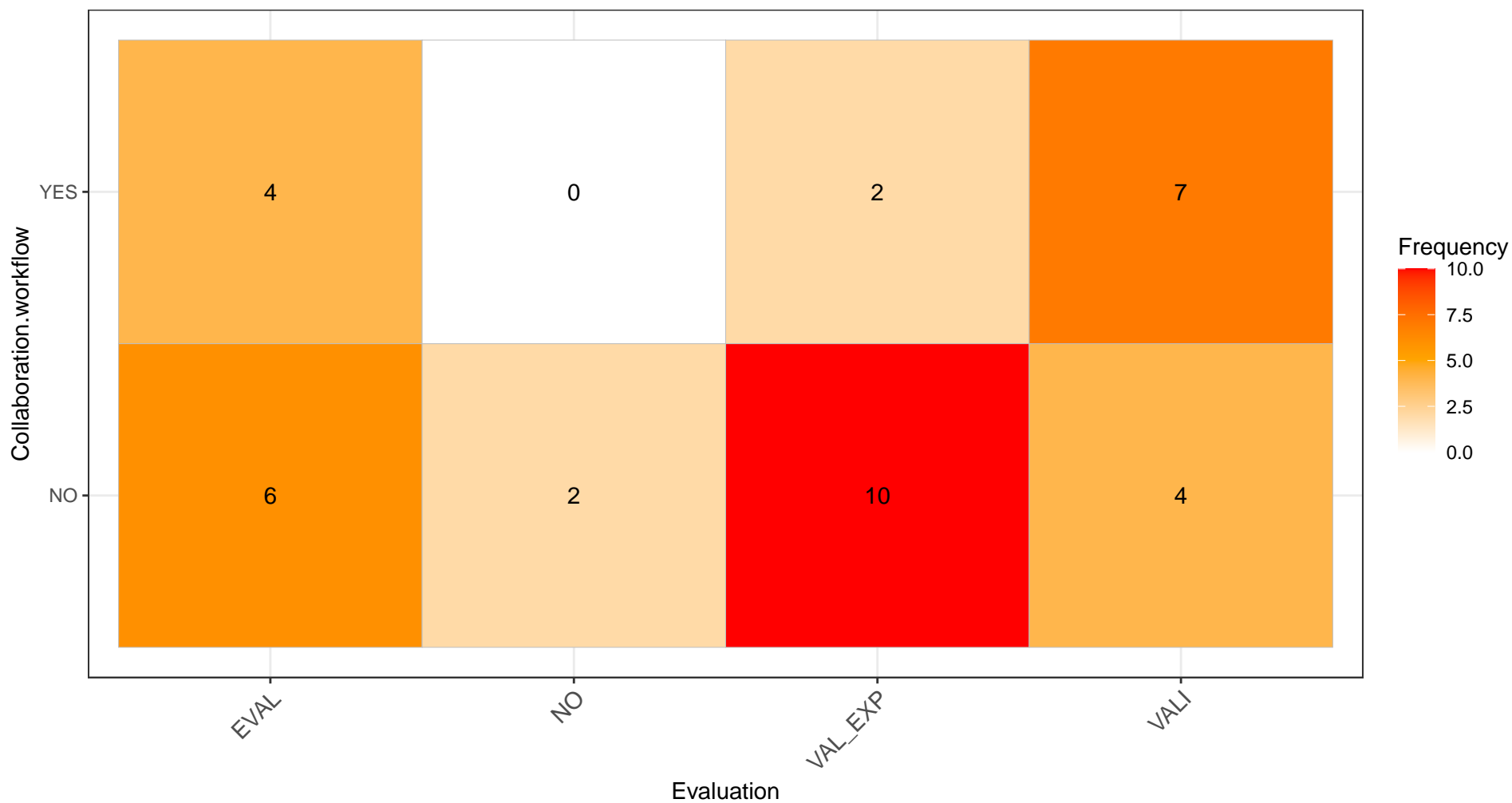




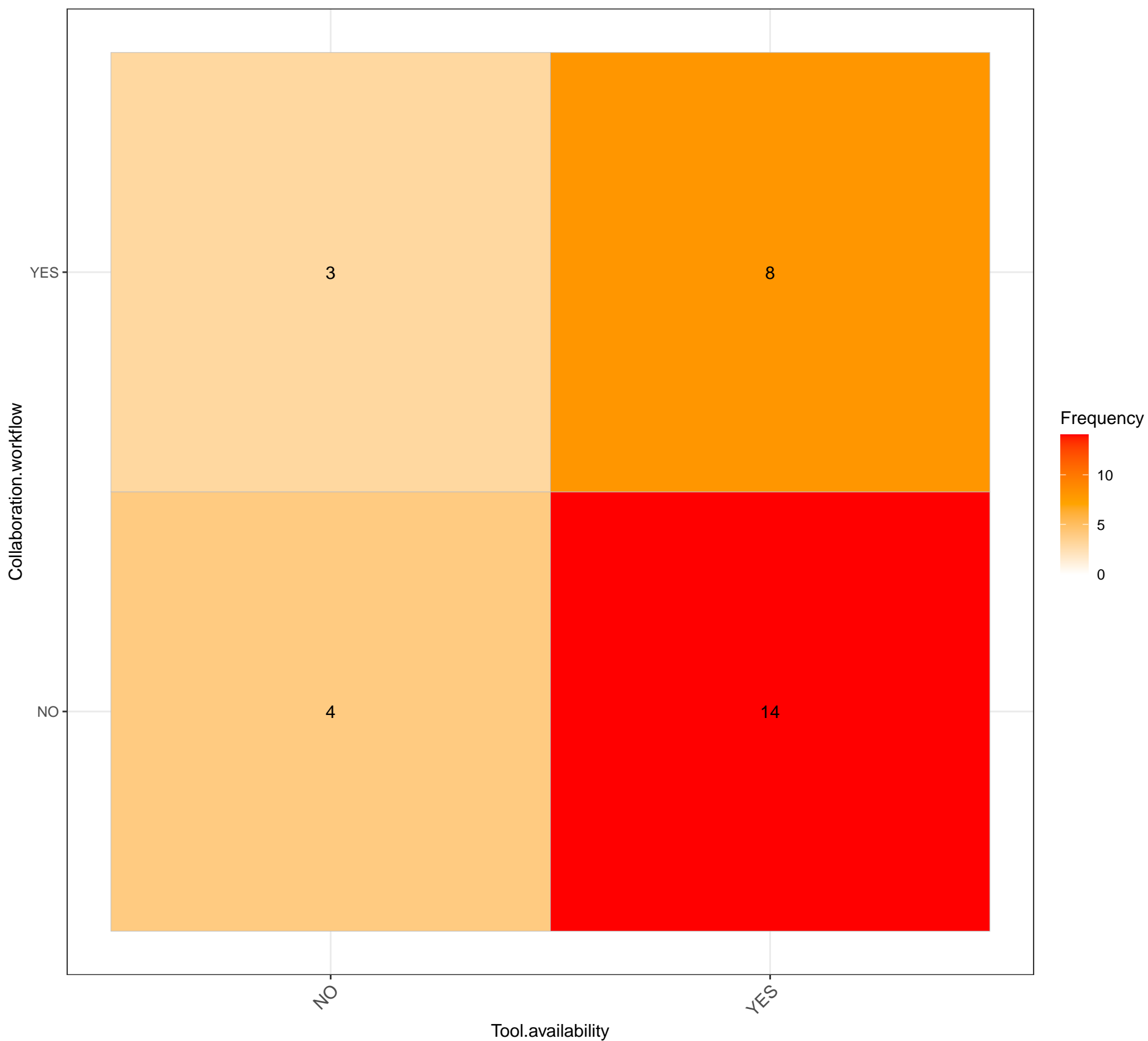
Collaboration.workflow_____Workspace.awareness.score

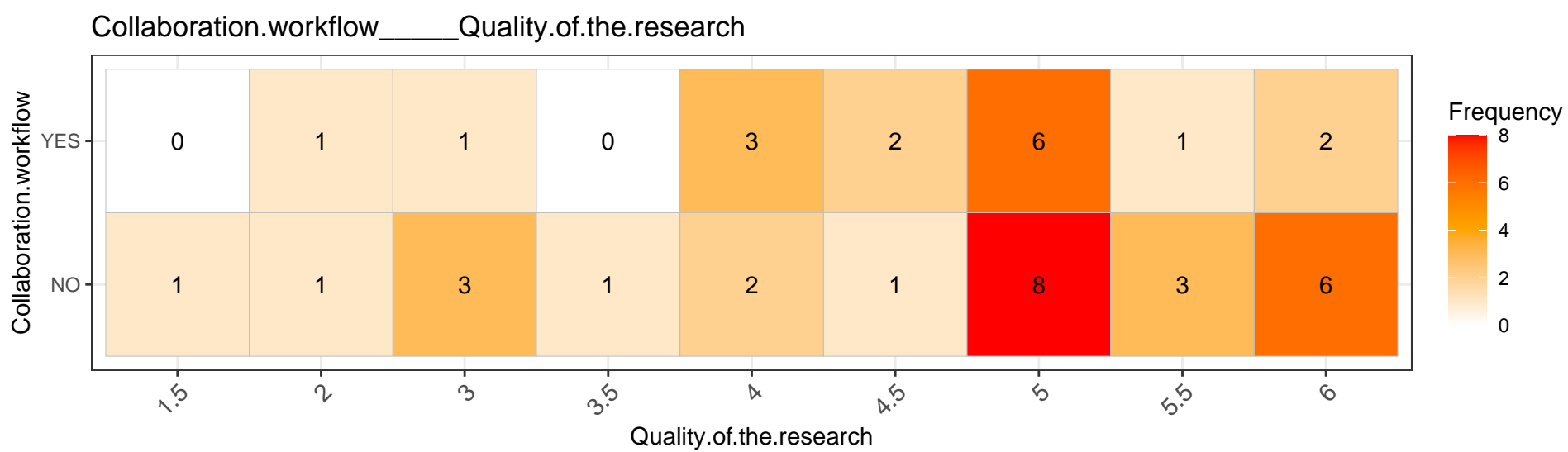


Collaboration.workflow____Evaluation

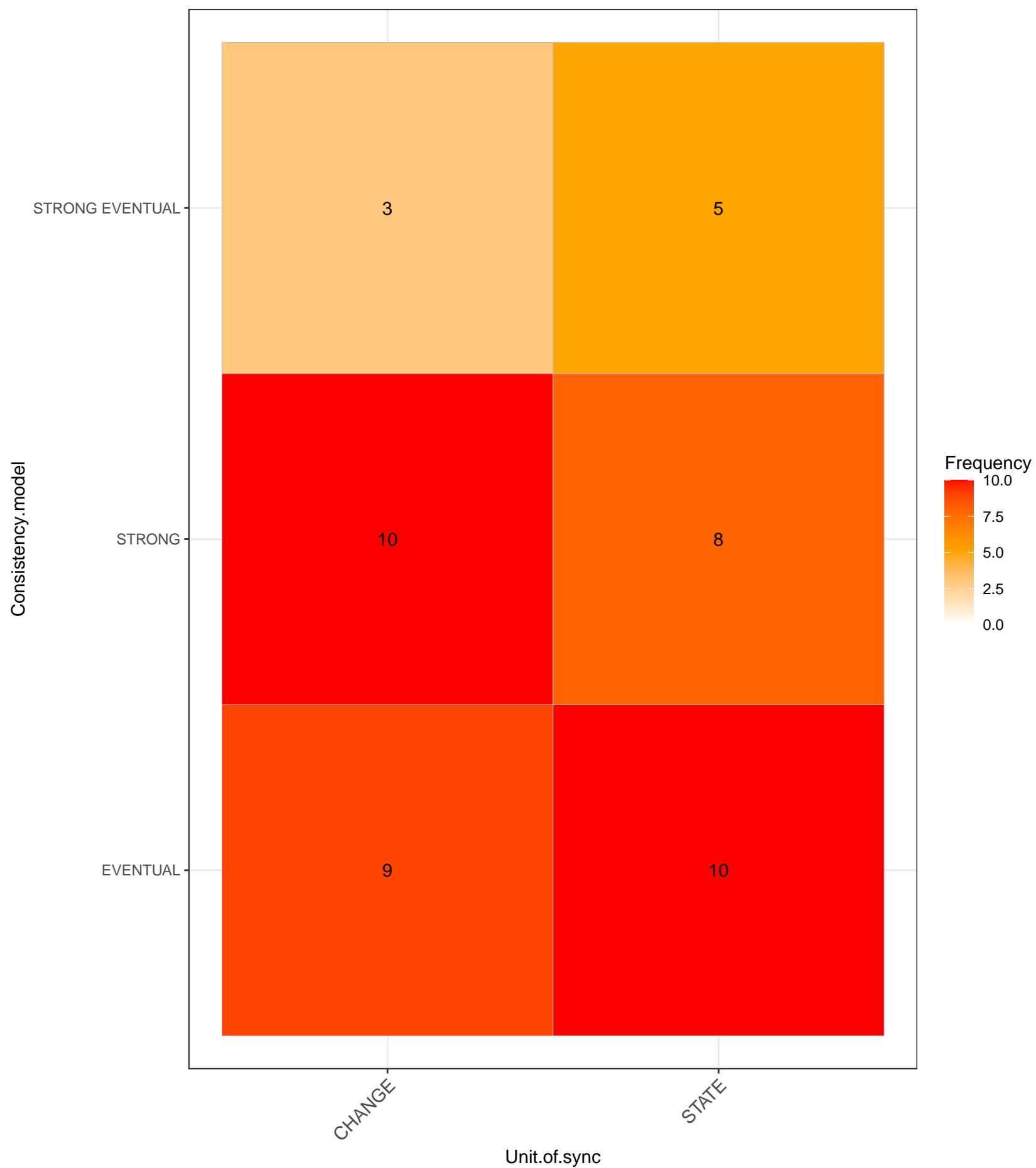


Collaboration.workflow_____Tool.availability





Consistency.model_____Unit.of.sync



Consistency.model_____Locking

Consistency.model

STRONG EVENTUAL

STRONG

EVENTUAL

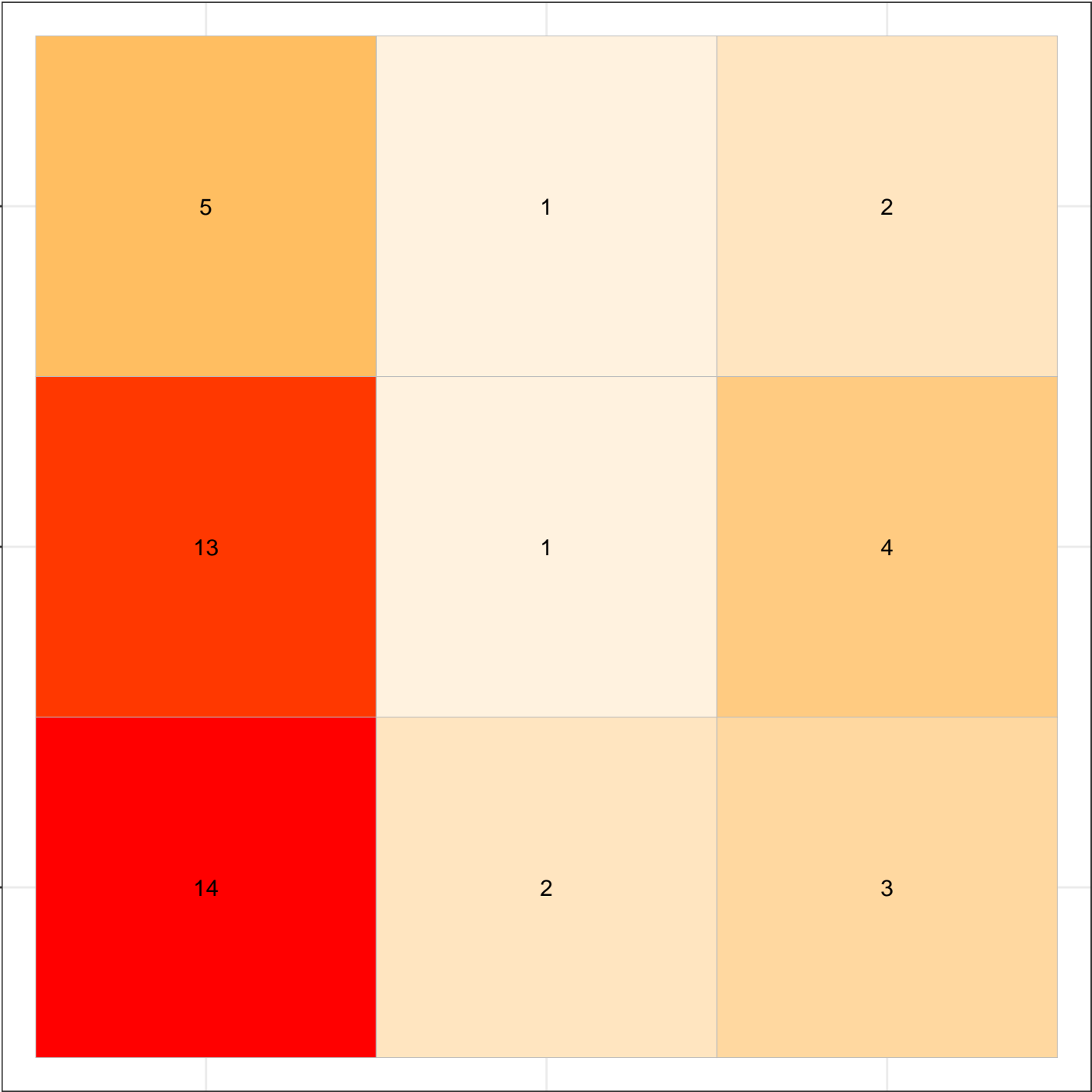
NO

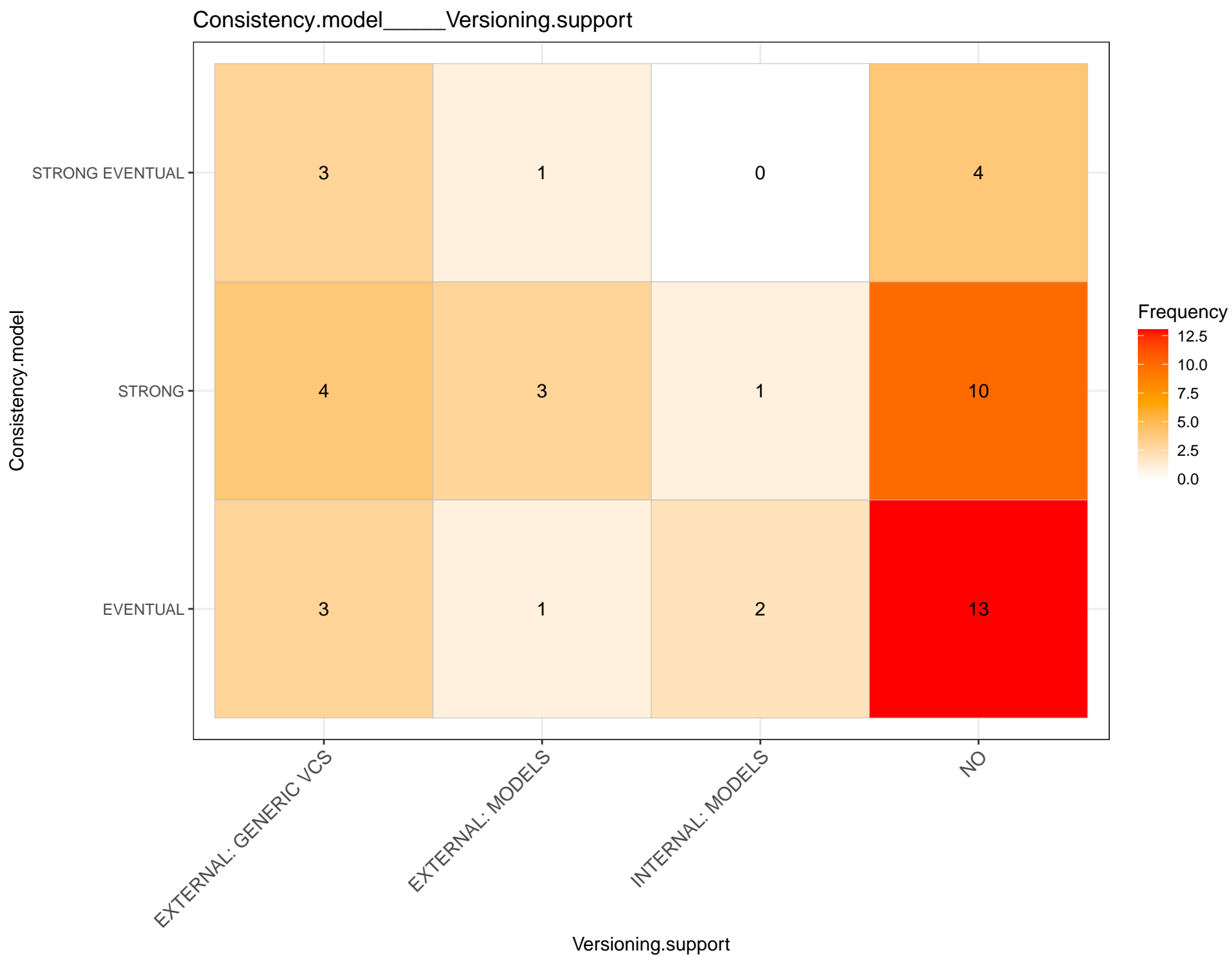
OPTIMISTIC

PESSIMISTIC: PARTLOCK

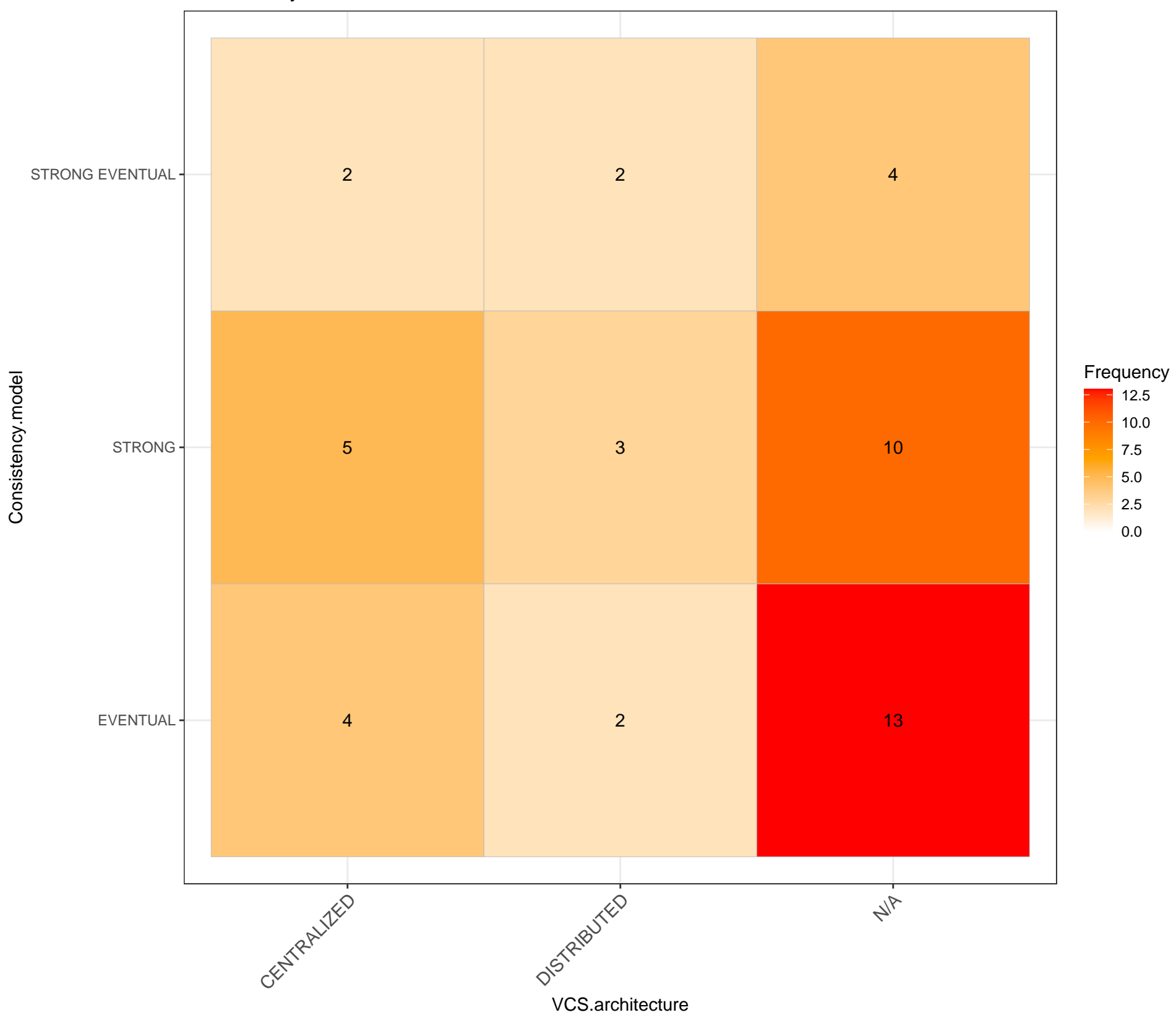
Locking

Frequency





Consistency.model_____VCS.architecture



Consistency.model_____External.VCS.means

Consistency.model

STRONG EVENTUAL

STRONG

EVENTUAL

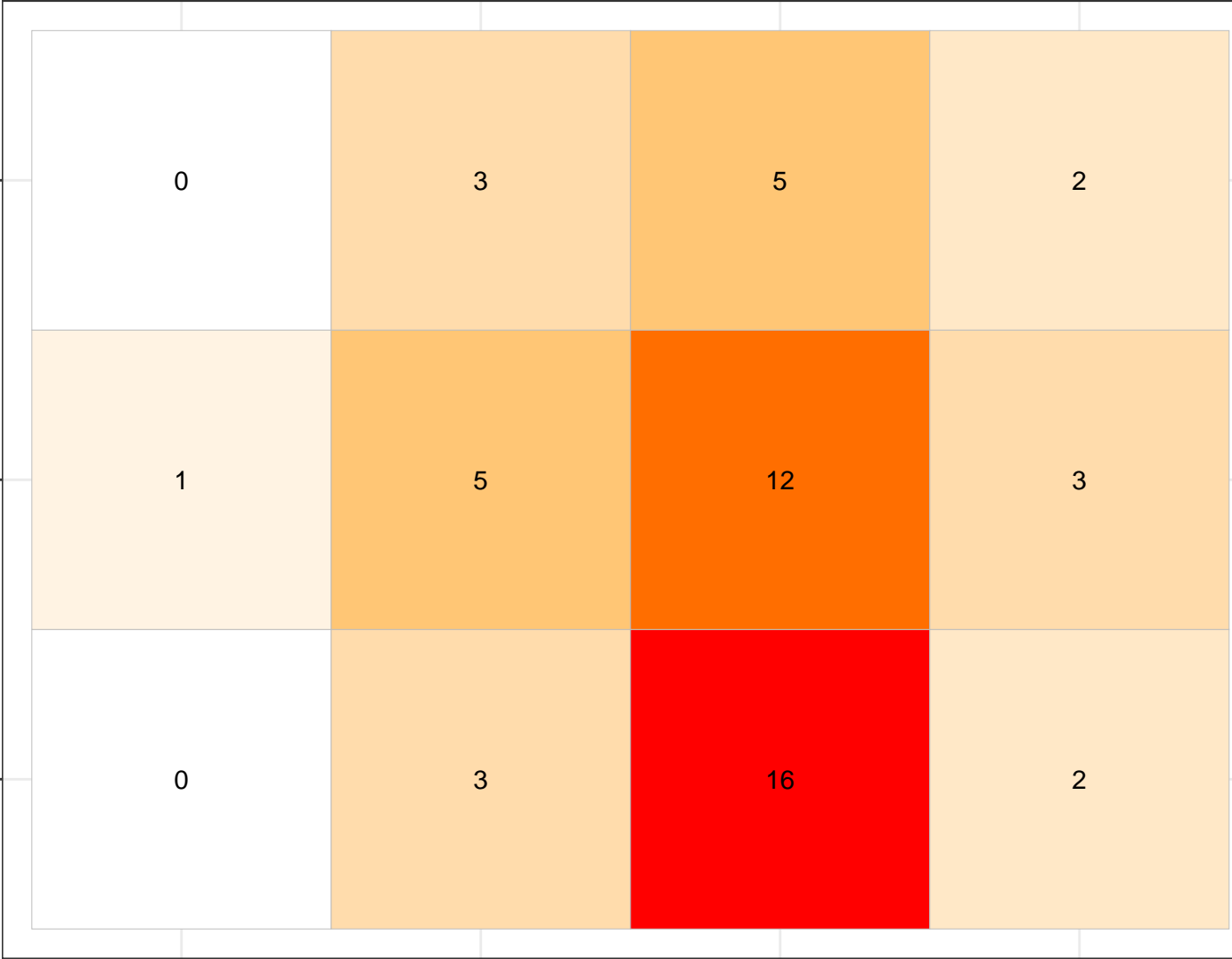
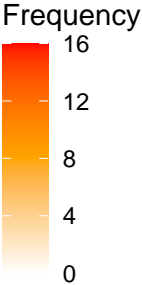
CUSTOM MODEL REPO

GIT

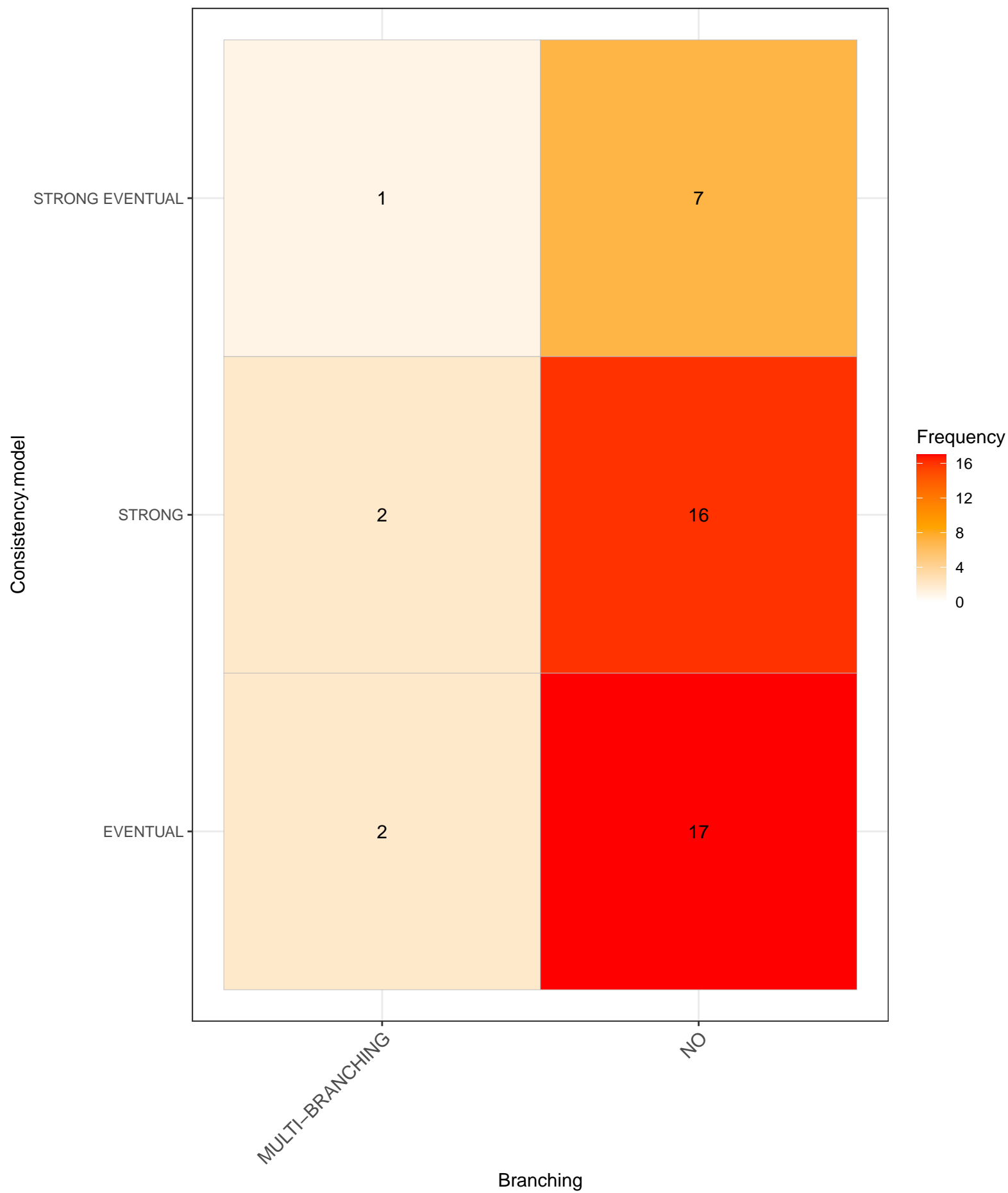
N/A

SVN

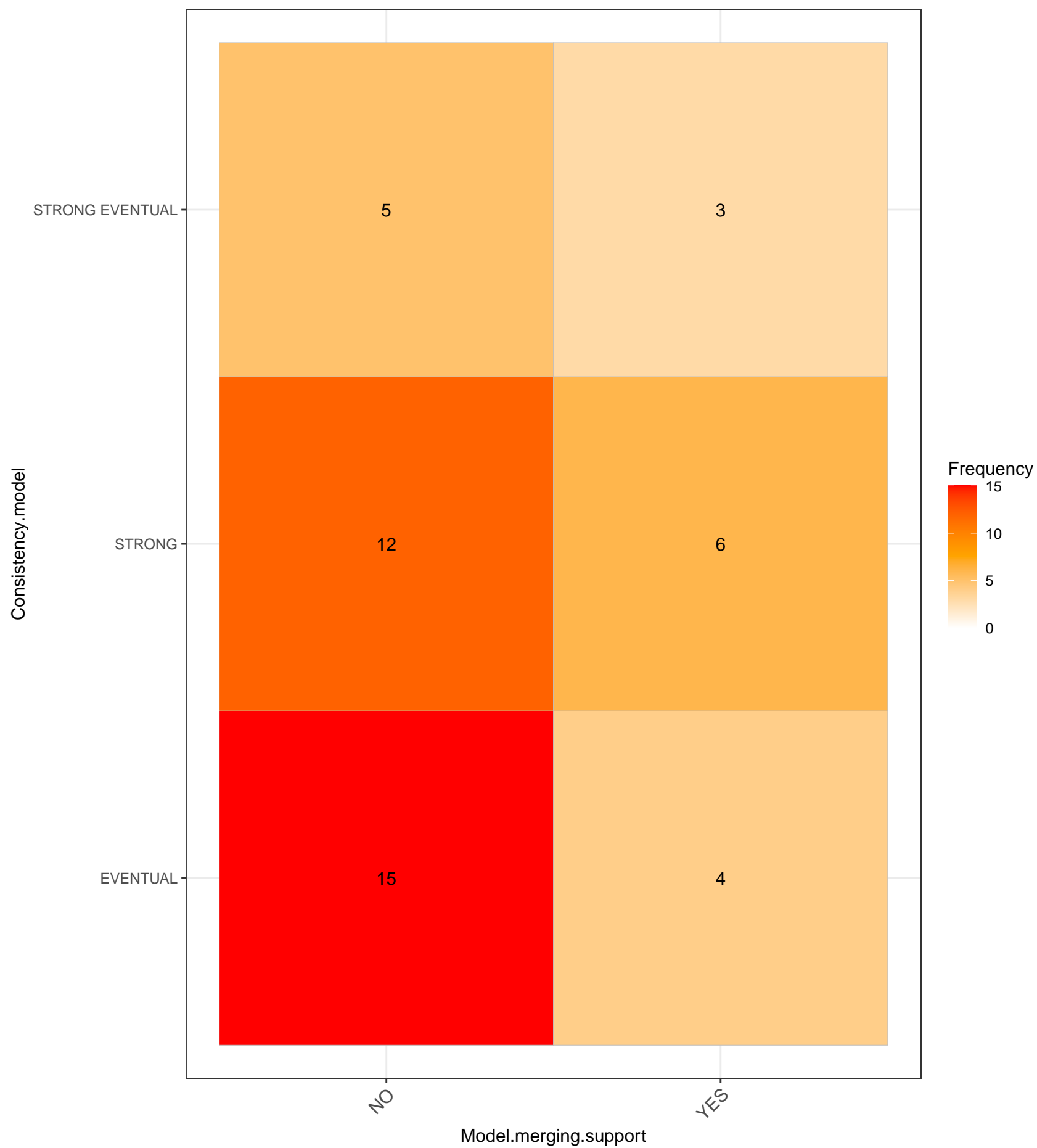
External.VCS.means



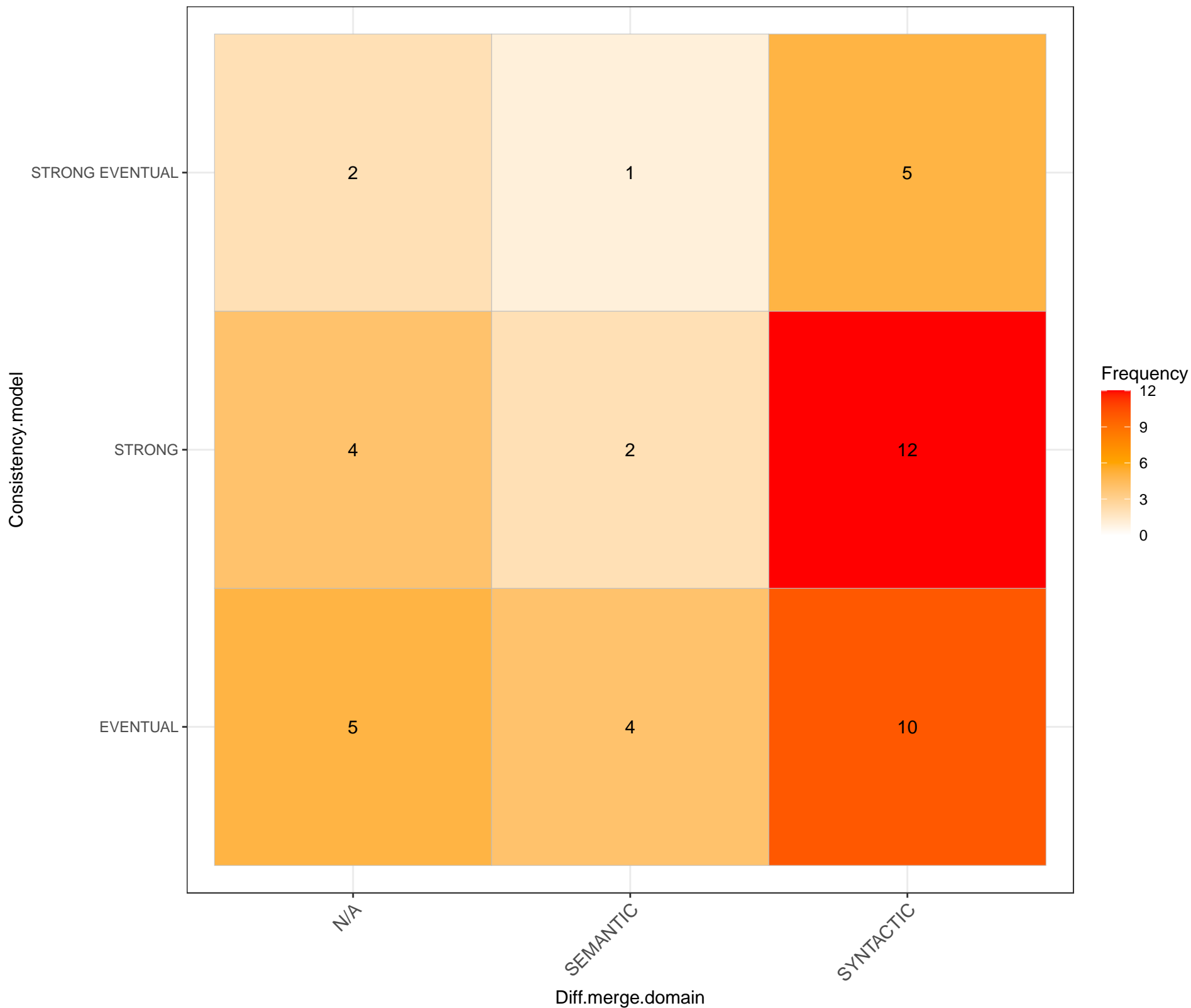
Consistency.model_____Branching



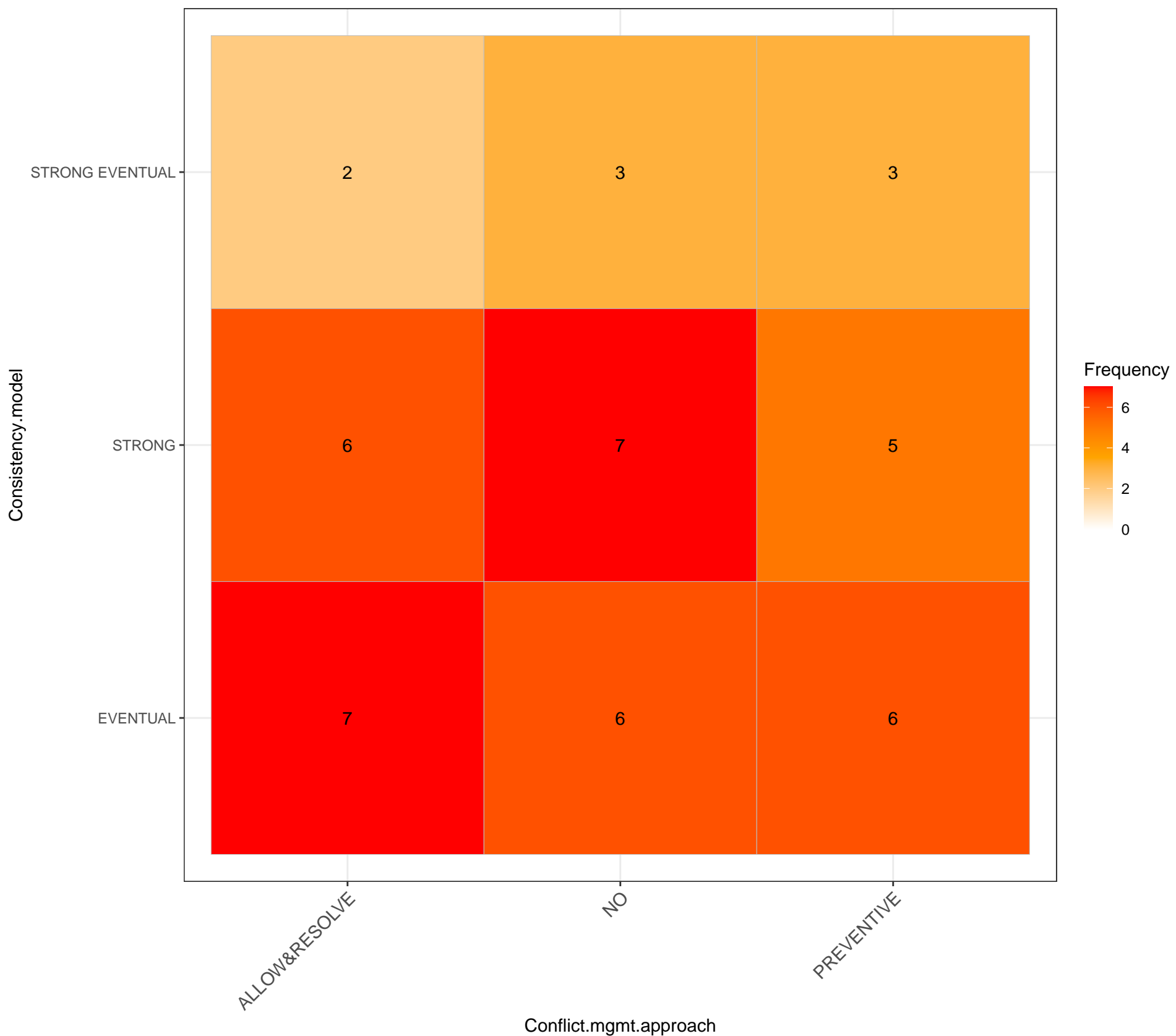
Consistency.model_____Model.merging.support



Consistency.model_____Diff.merge.domain



Consistency.model_____Conflict.mgmt.approach



Consistency.model_____Conflict.detection

Consistency.model

STRONG EVENTUAL

STRONG

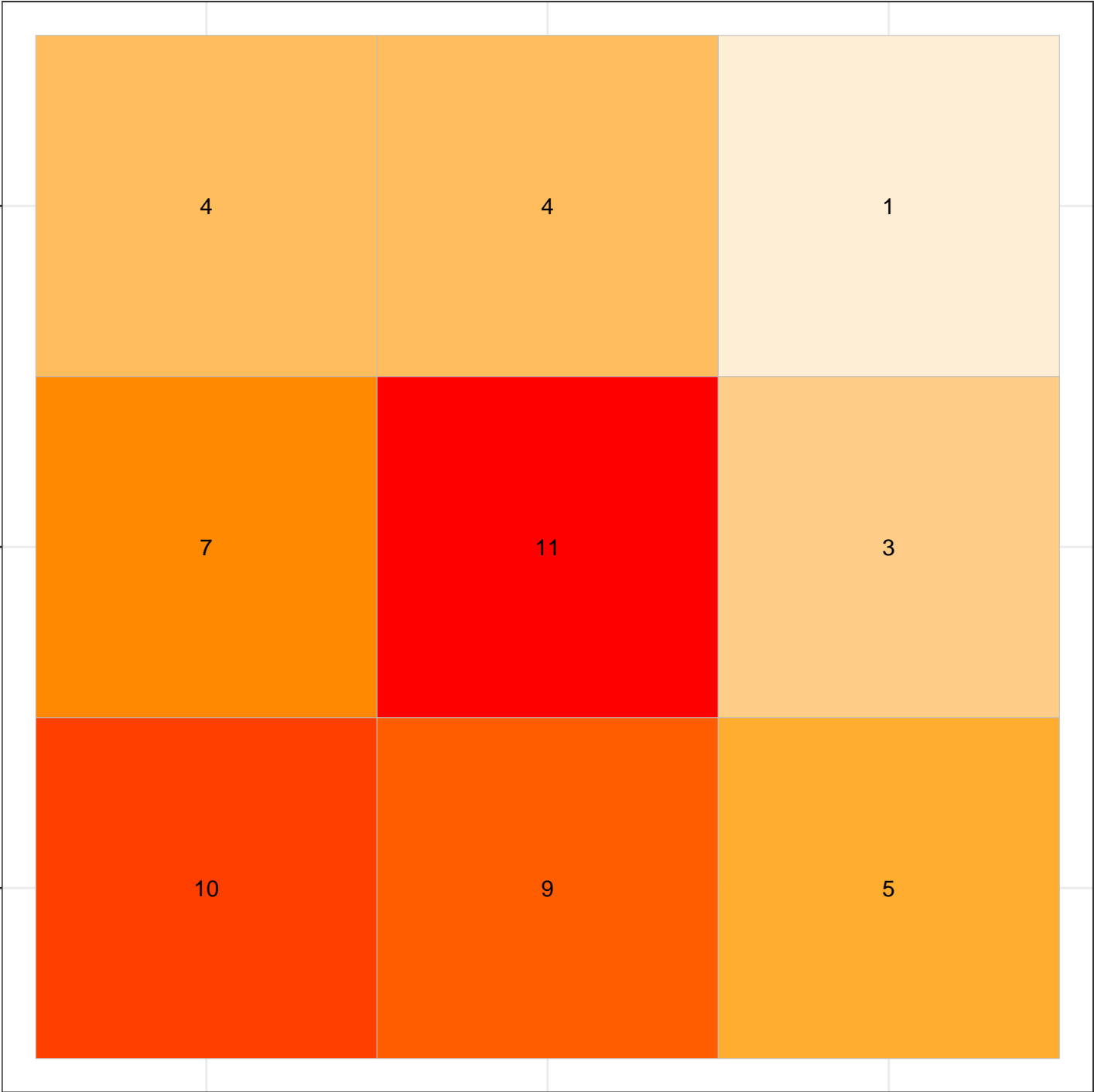
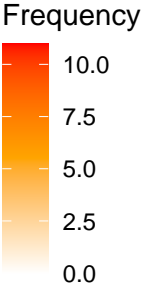
EVENTUAL

NO

YES

YES: INCREMENTAL

Conflict.detection



Consistency.model_____Conflict.awareness..User.

Consistency.model

STRONG EVENTUAL

STRONG

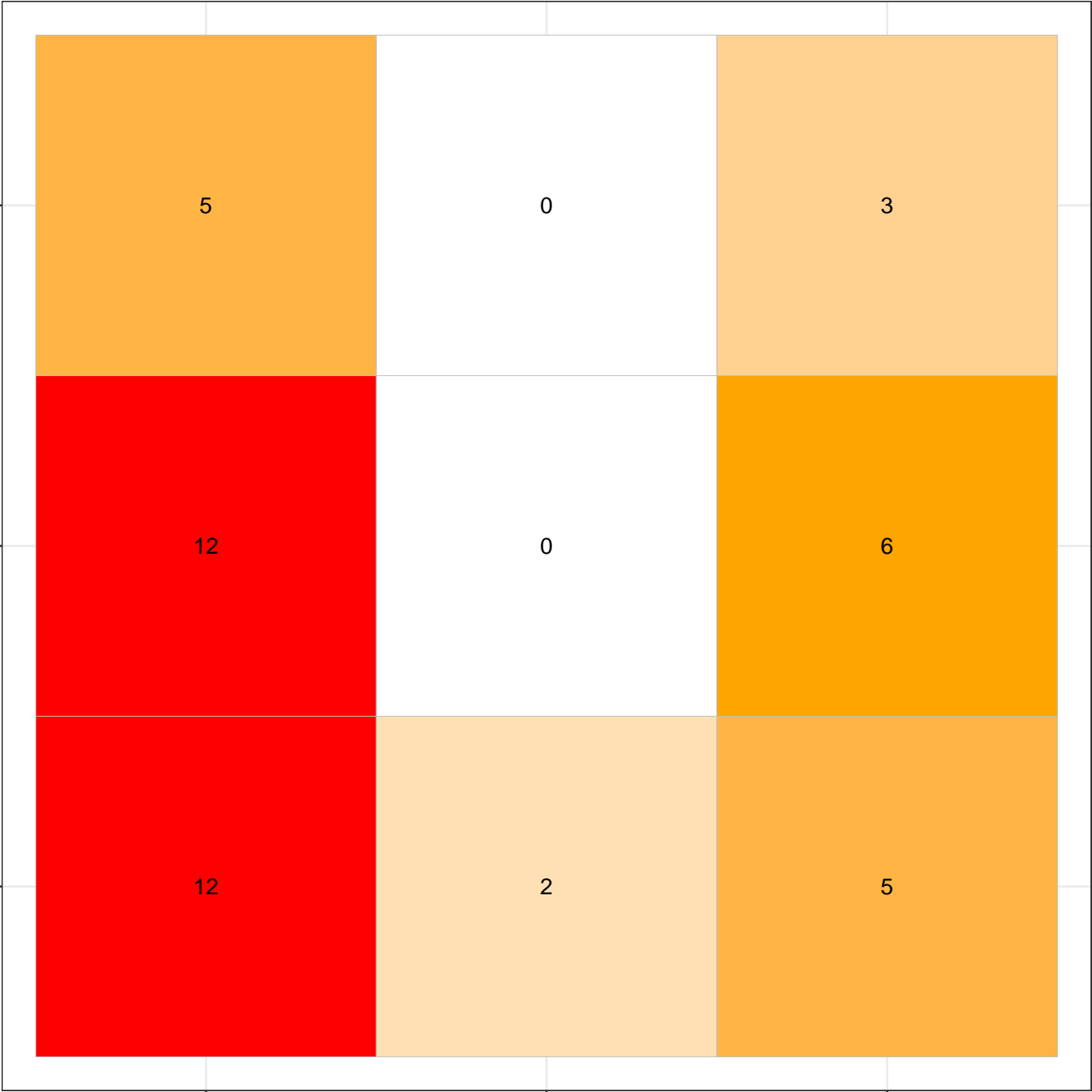
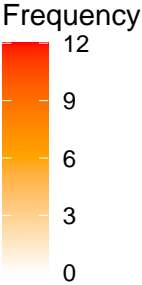
EVENTUAL

NO

PROMPT ACTION

WARNING

Conflict.awareness..User.



Consistency.model_____Conflict.resolution.support

Consistency.model

STRONG EVENTUAL

STRONG

EVENTUAL

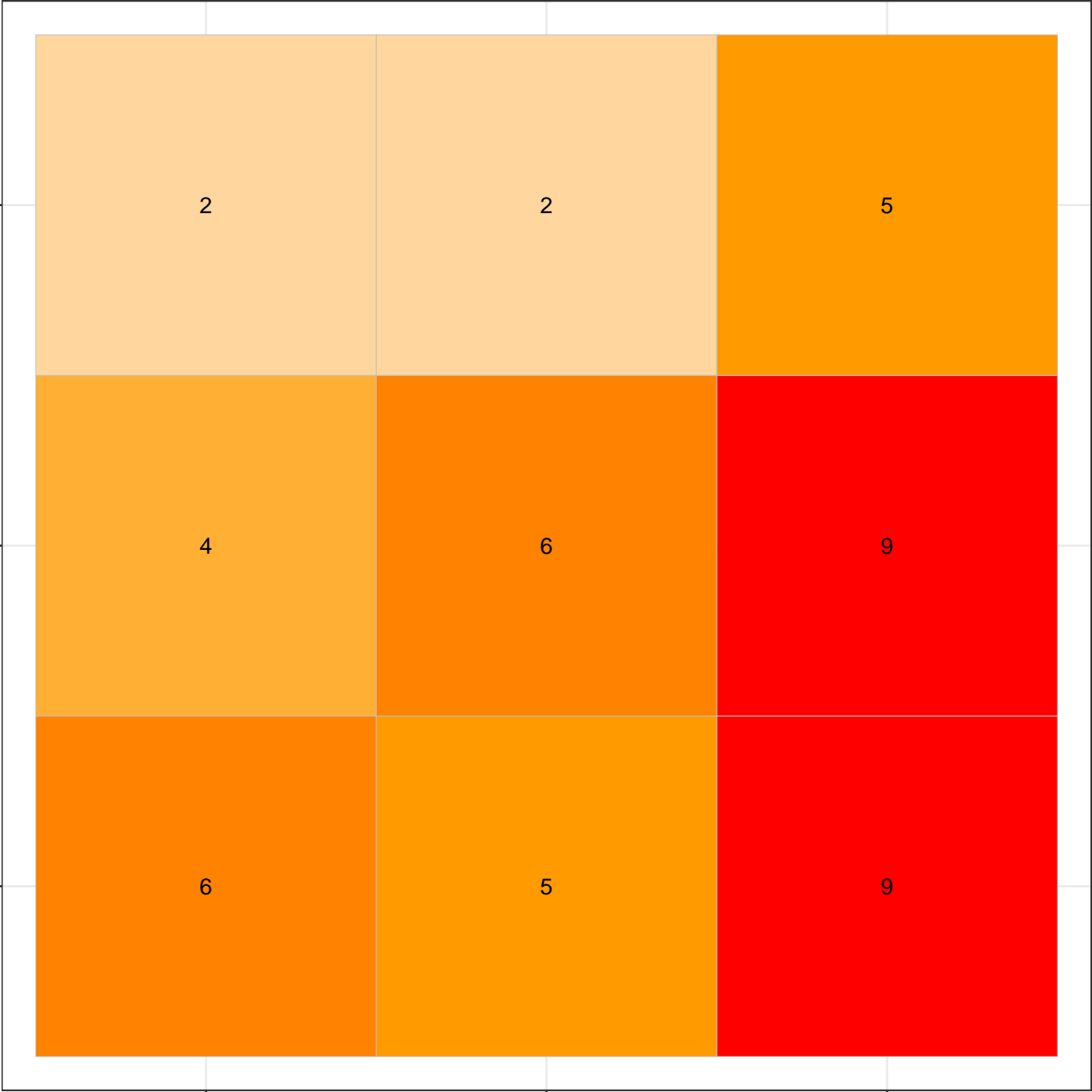
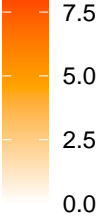
MANUAL

NO

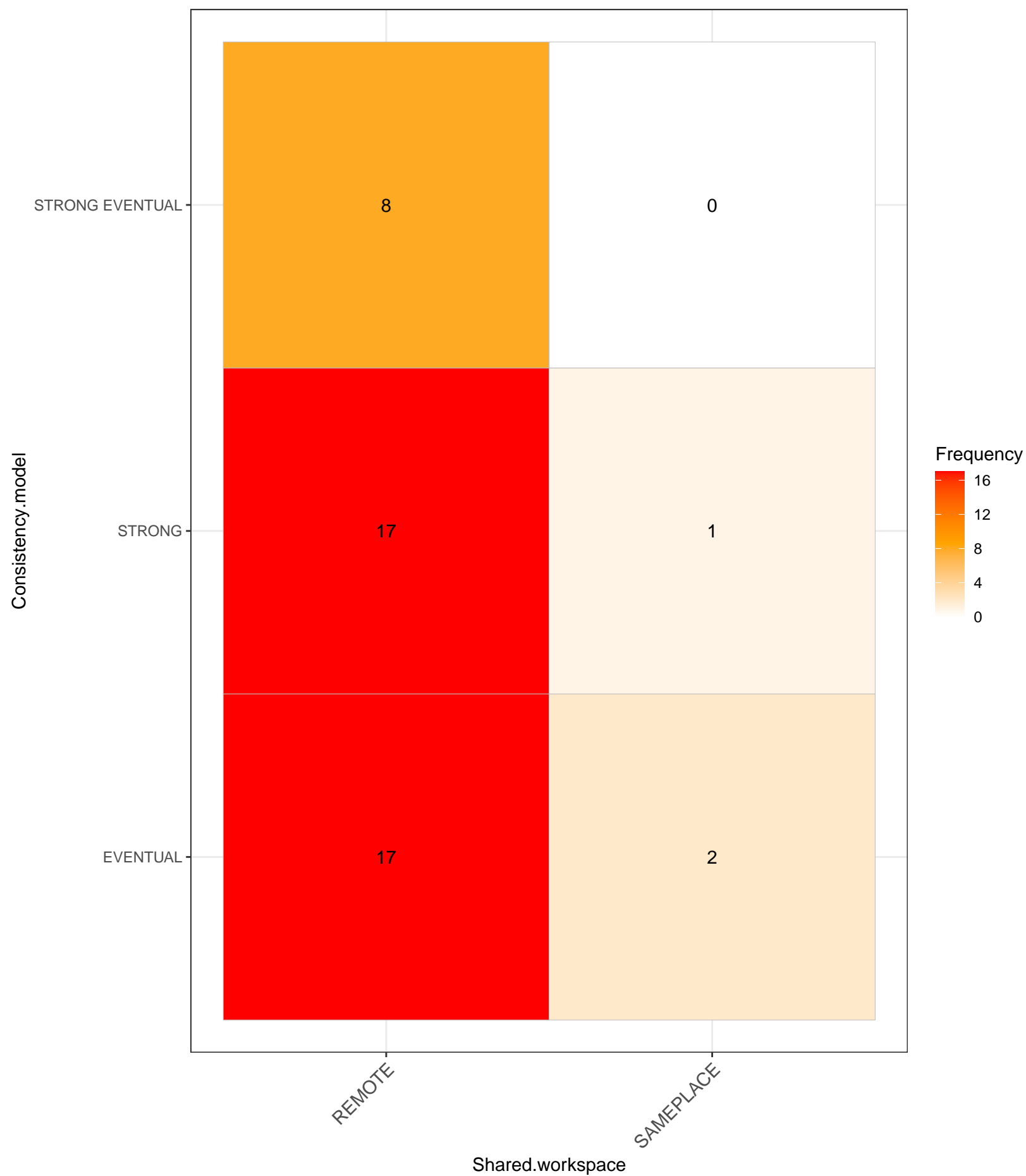
SEMAUTOMATED

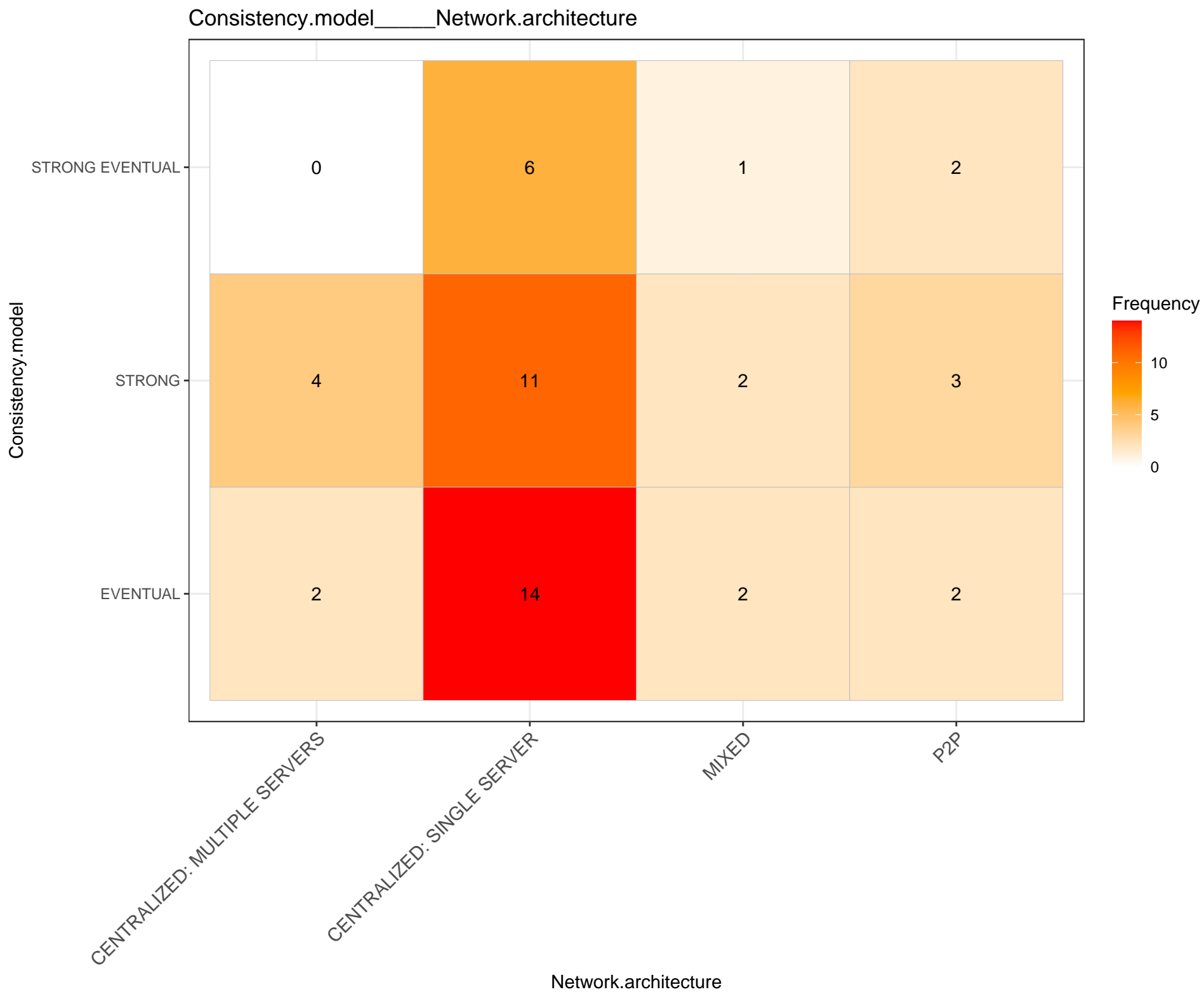
Conflict.resolution.support

Frequency

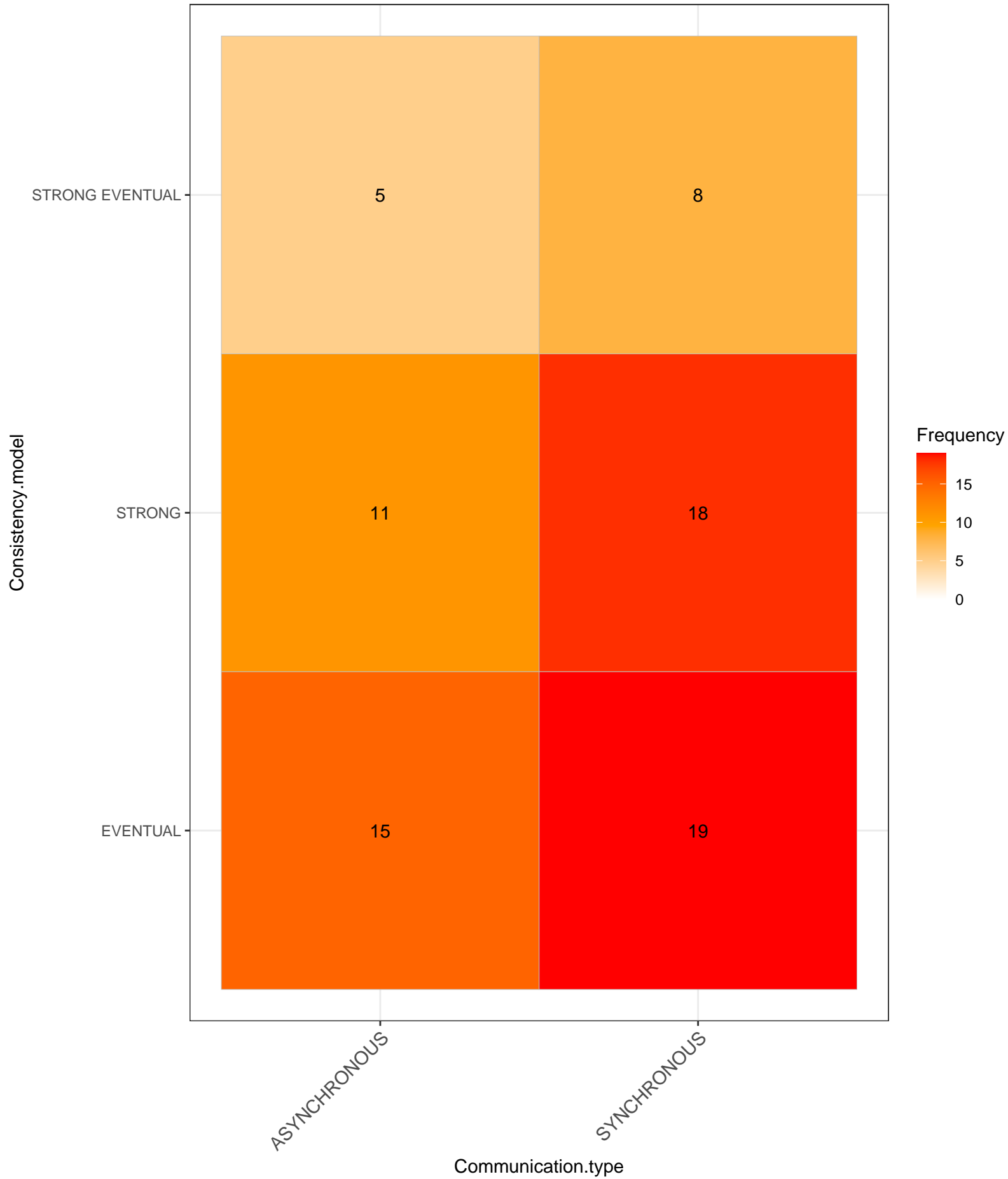


Consistency.model_____Shared.workspace





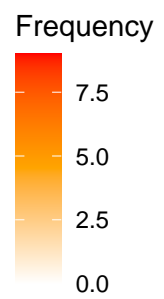
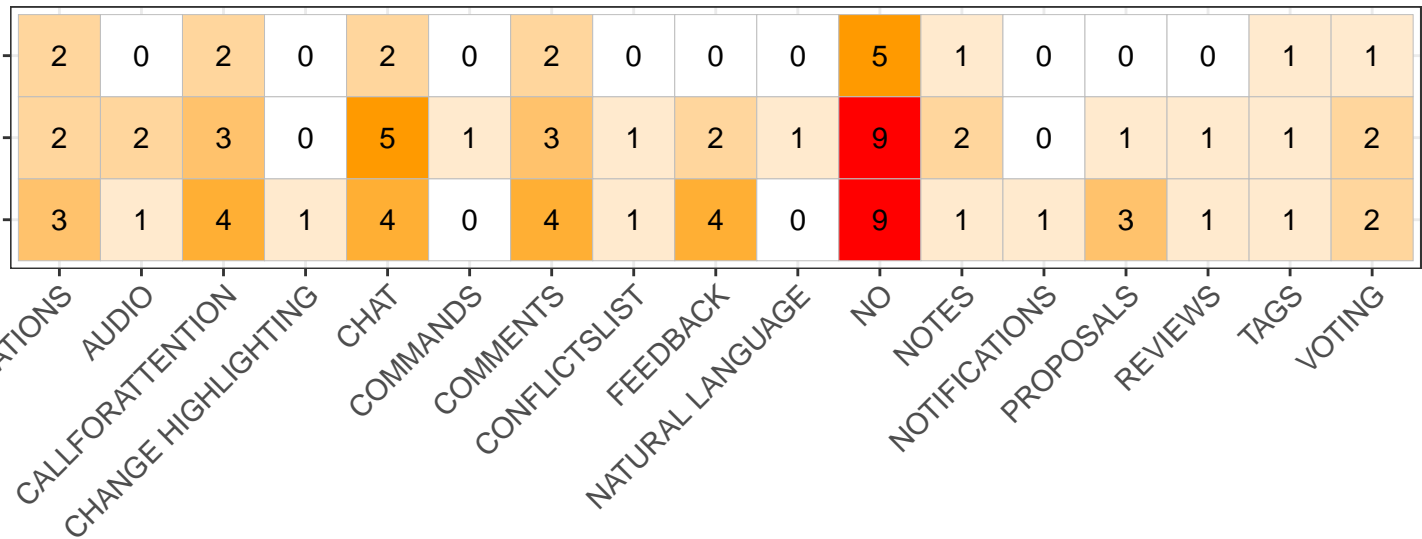
Consistency.model_____Communication.type



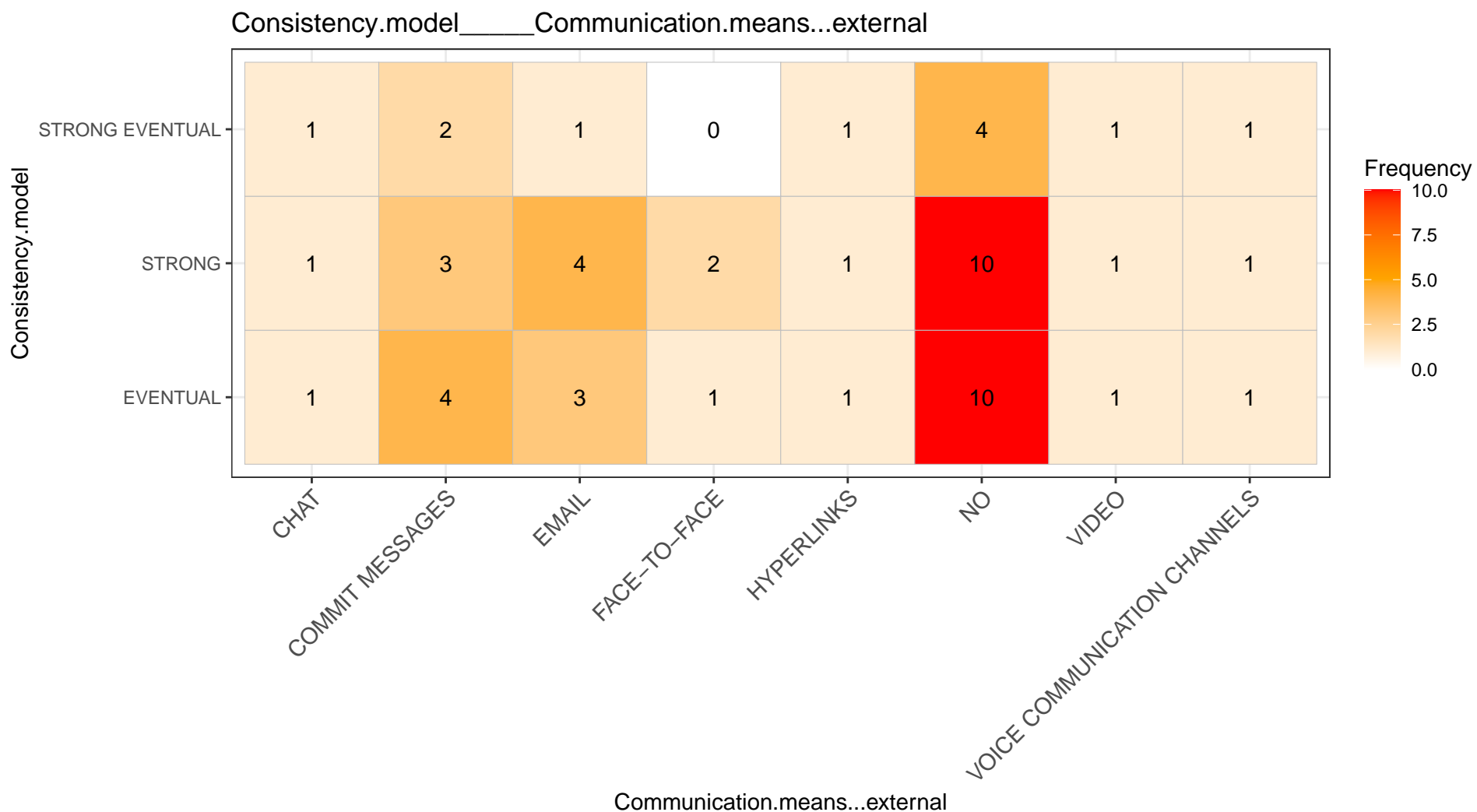
Consistency.model

Consistency.model_____Communication.means...builtin

STRONG EVENTUAL
STRONG
EVENTUAL



Communication.means...builtin



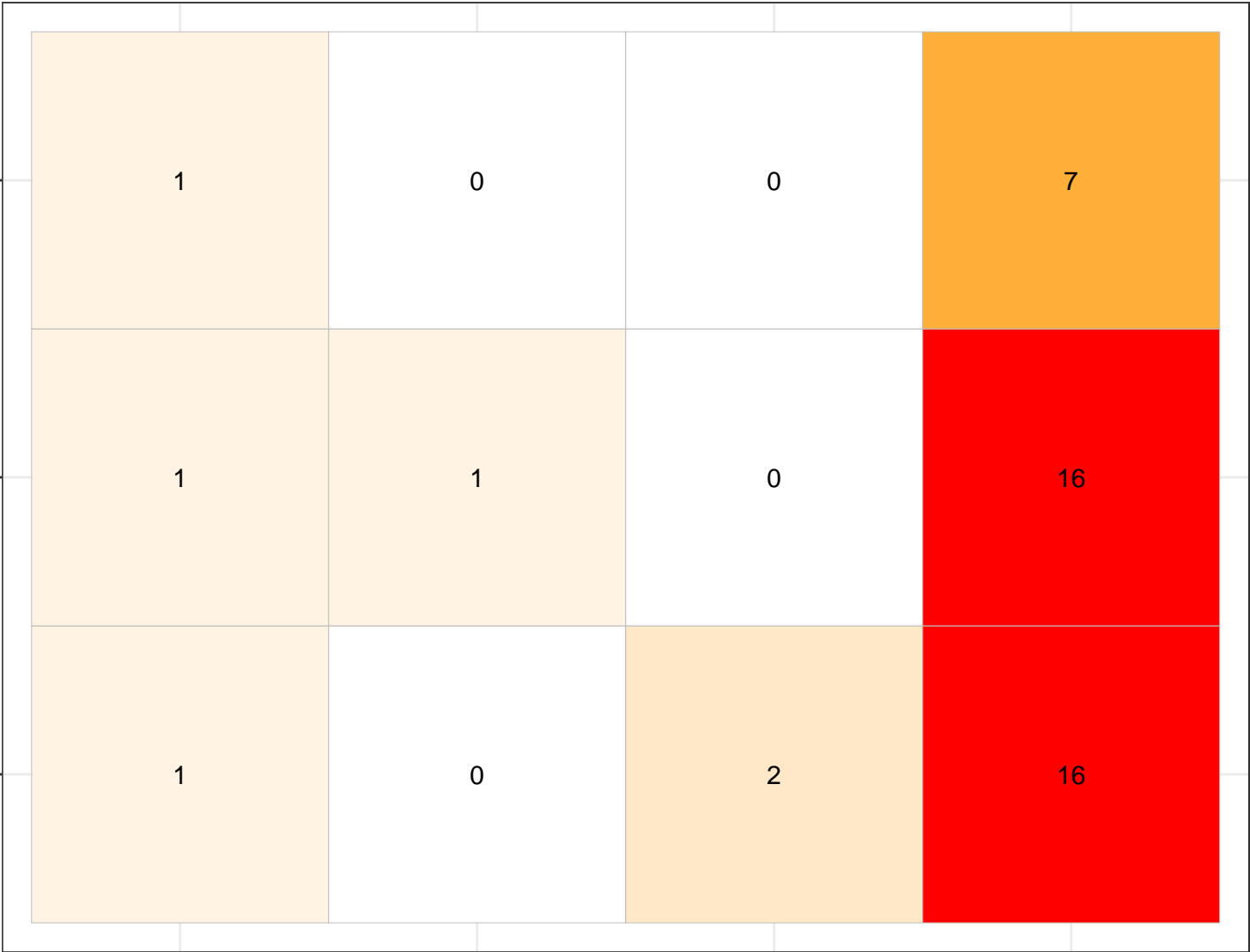
Consistency.model_____Communication.means...mixed

Consistency.model

STRONG EVENTUAL

STRONG

EVENTUAL



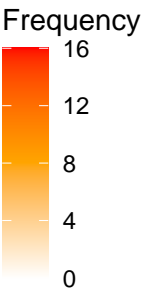
COMMIT MESSAGES

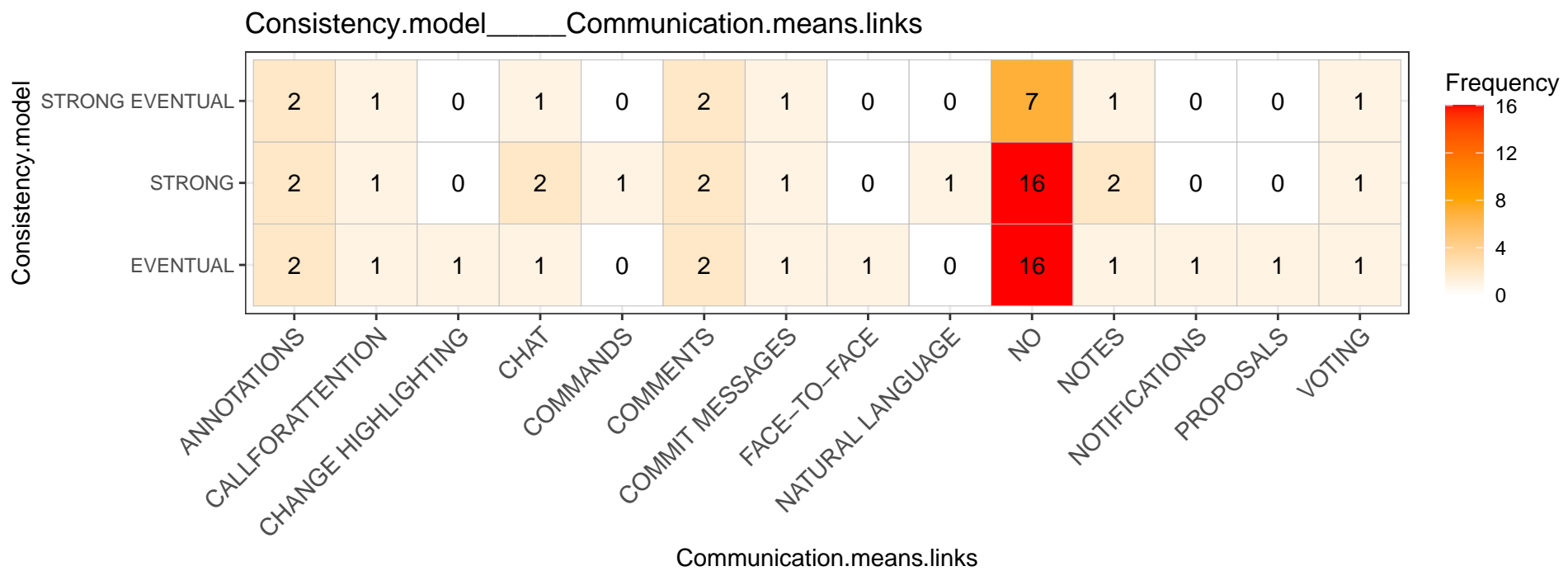
EMAIL

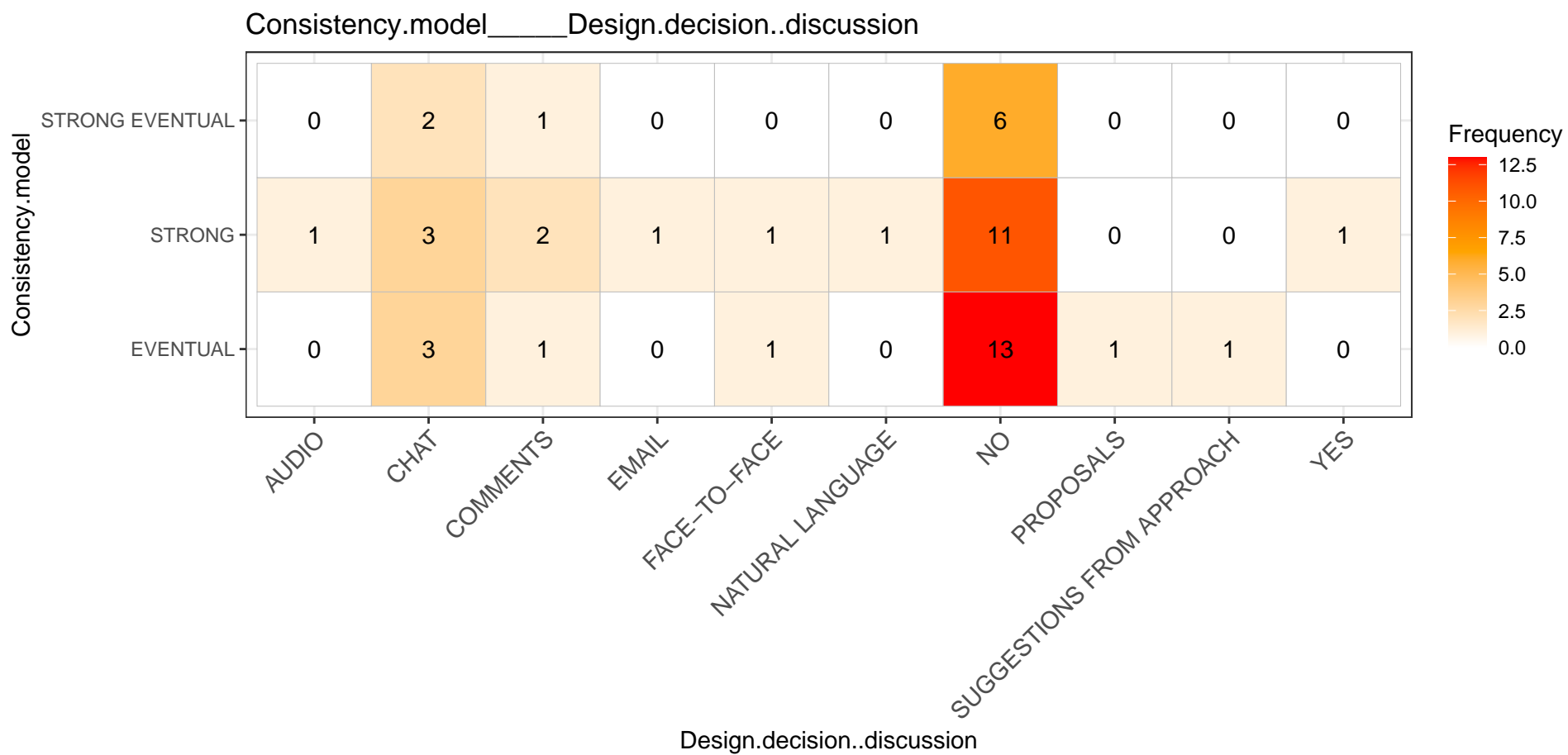
HYPERLINKS

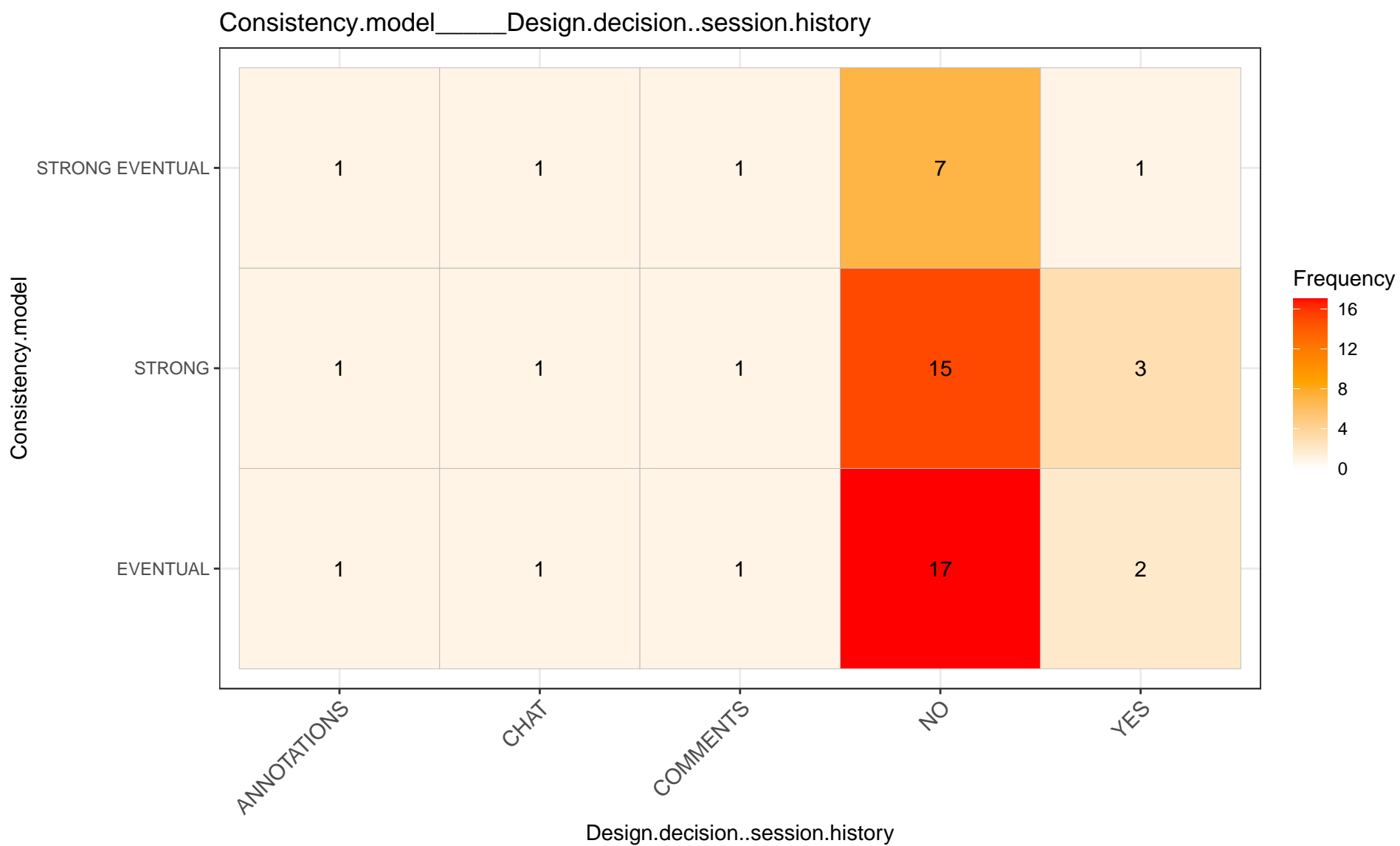
NO

Communication.means...mixed

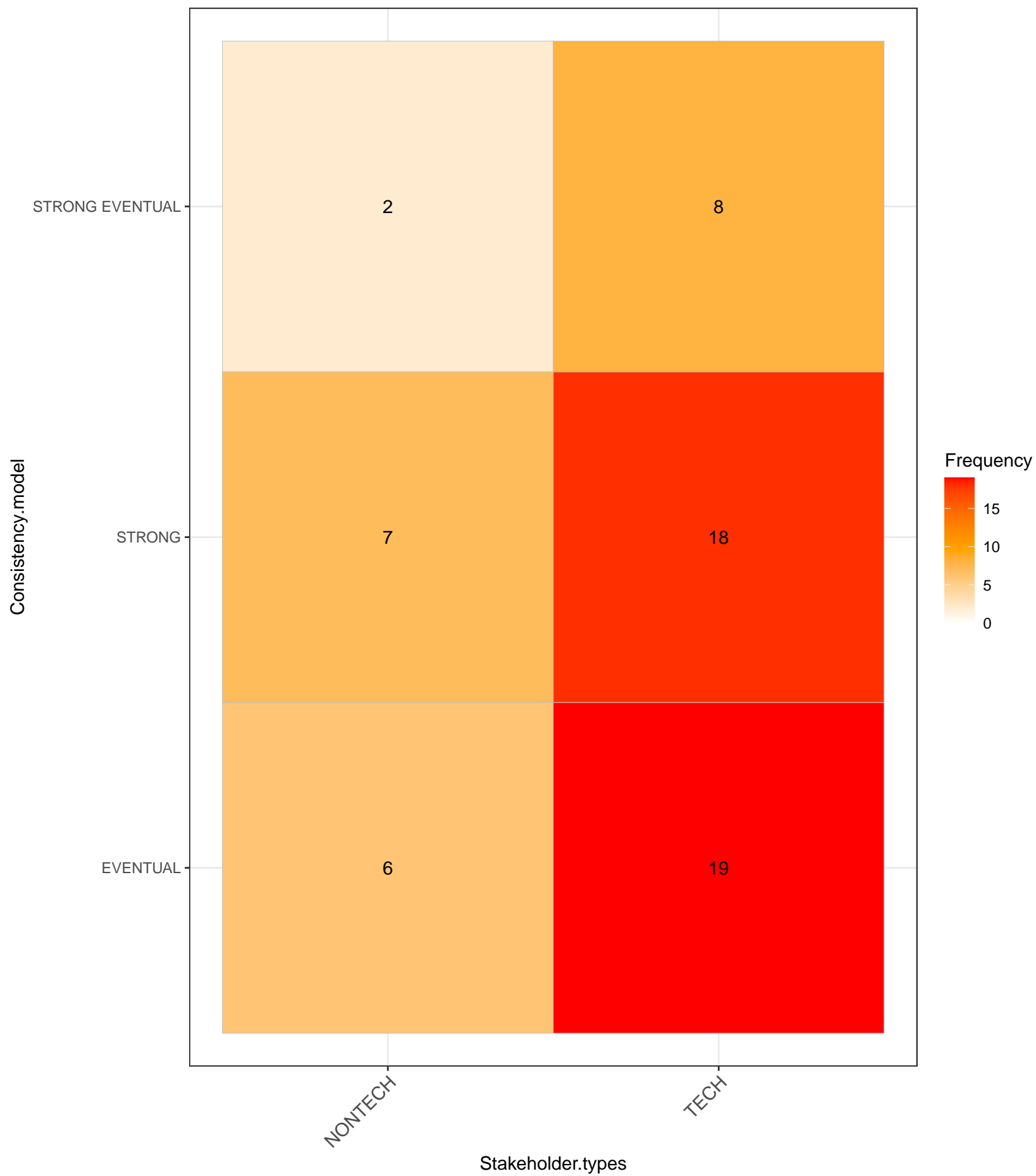


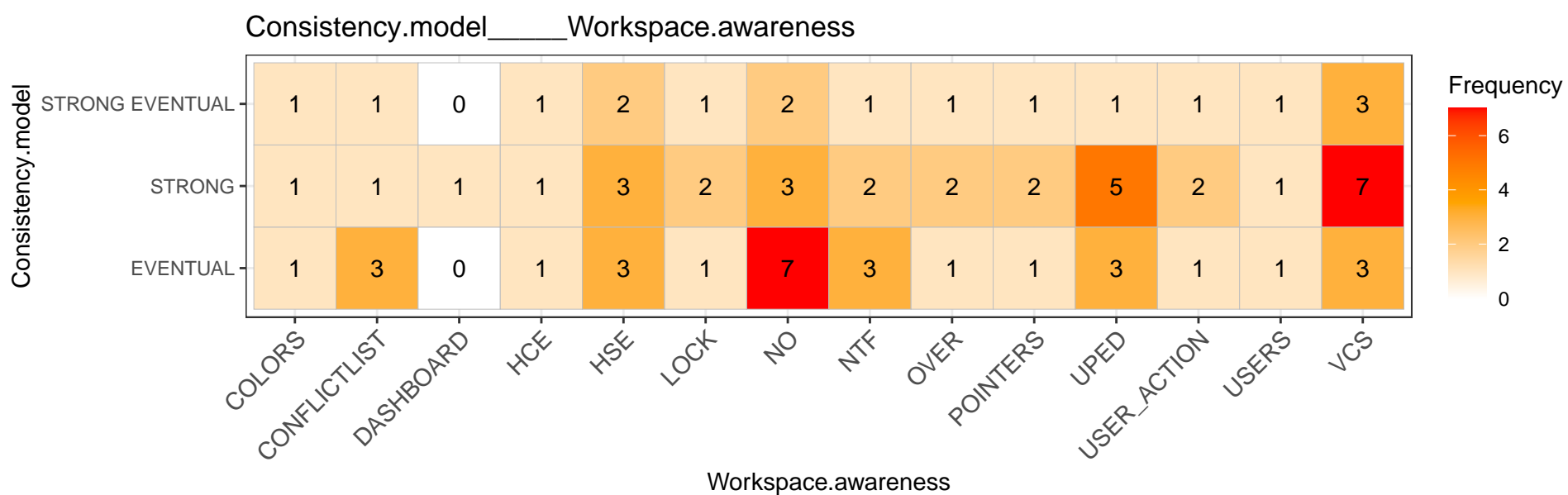






Consistency.model_____Stakeholder.types





Consistency.model_____Workspace.awareness.score

Consistency.model

STRONG EVENTUAL

4

1

3

STRONG

9

6

3

EVENTUAL

6

8

5

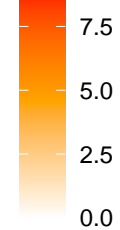
HIGH

LOW

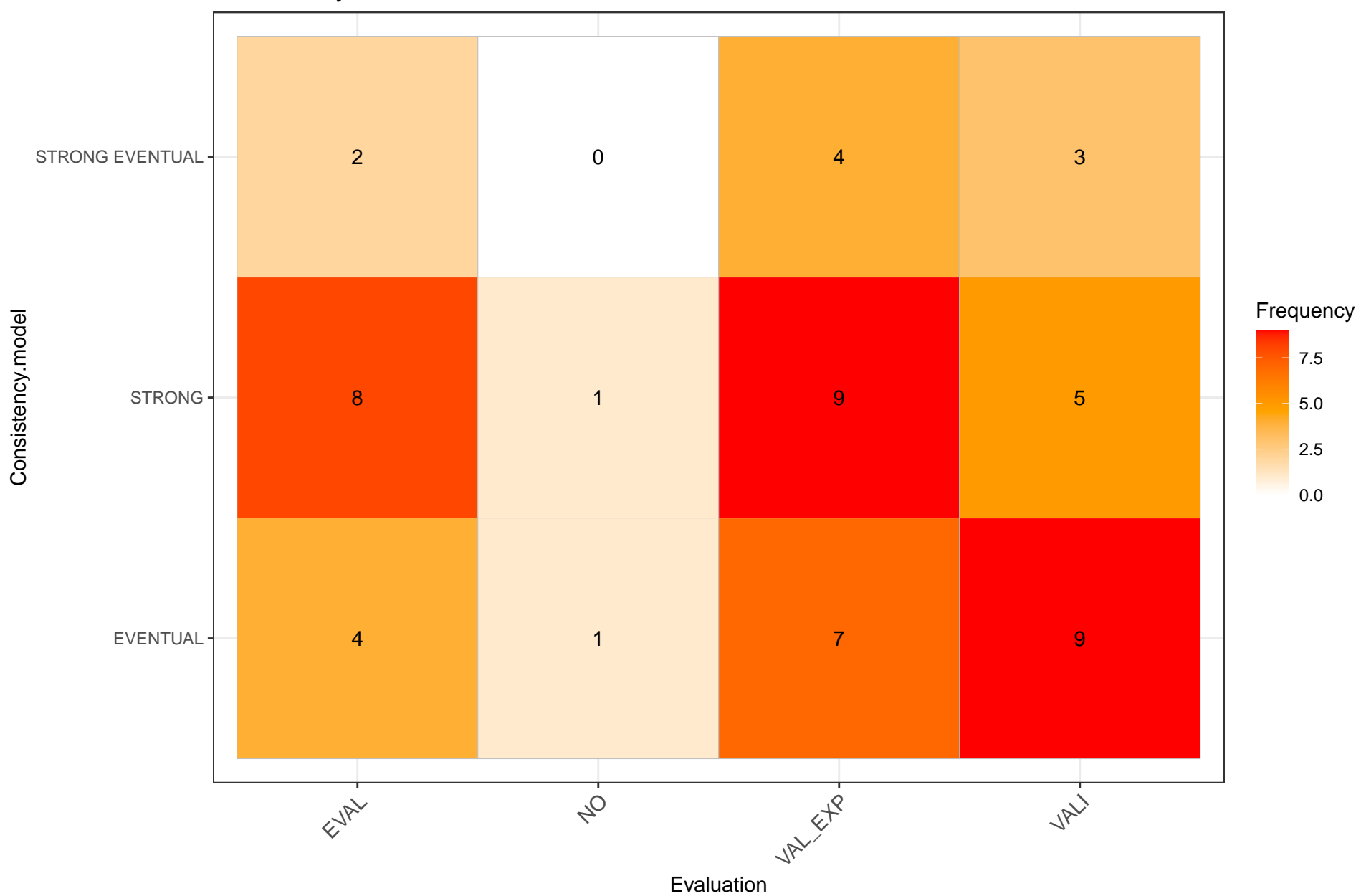
MED

Workspace.awareness.score

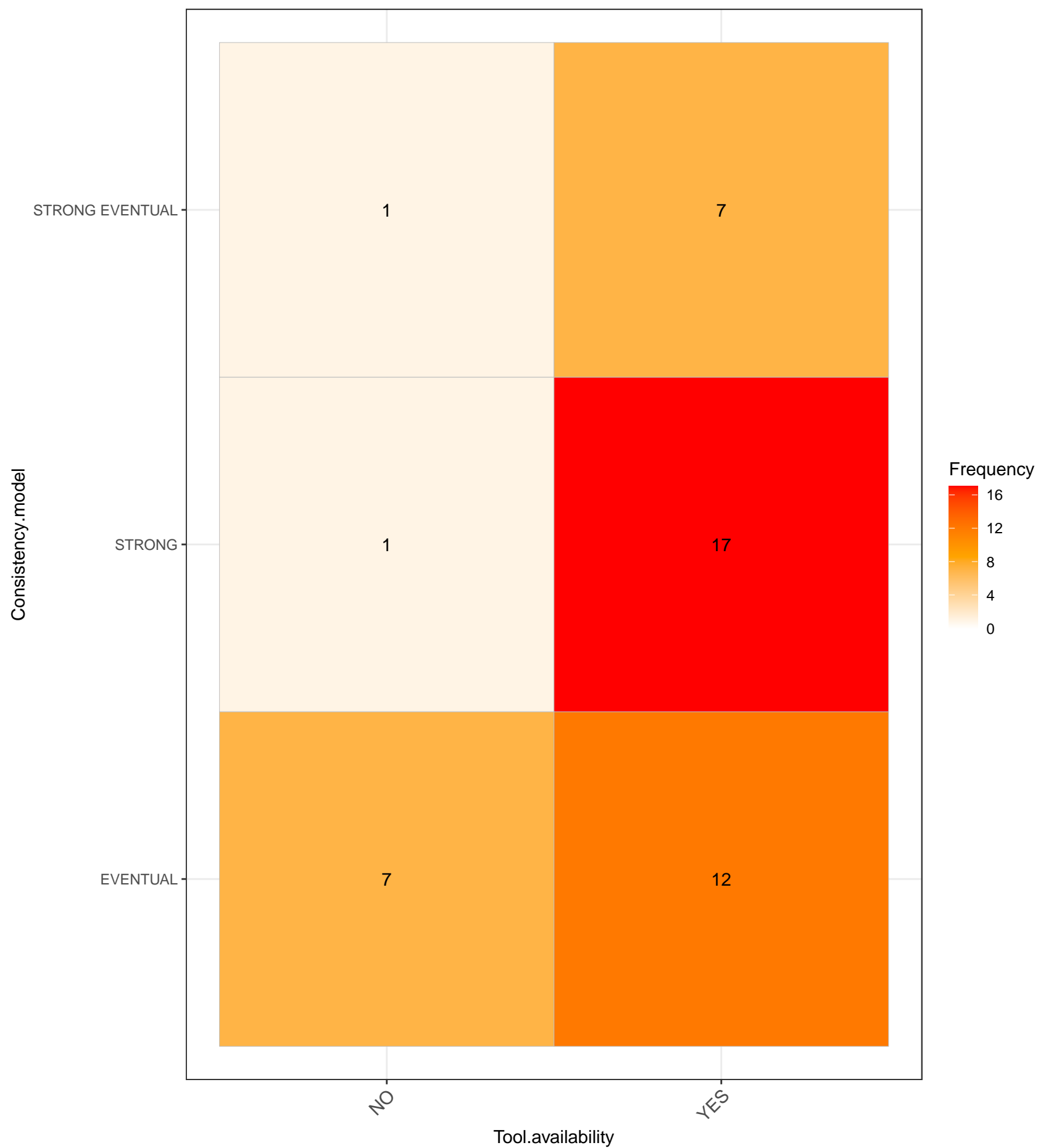
Frequency

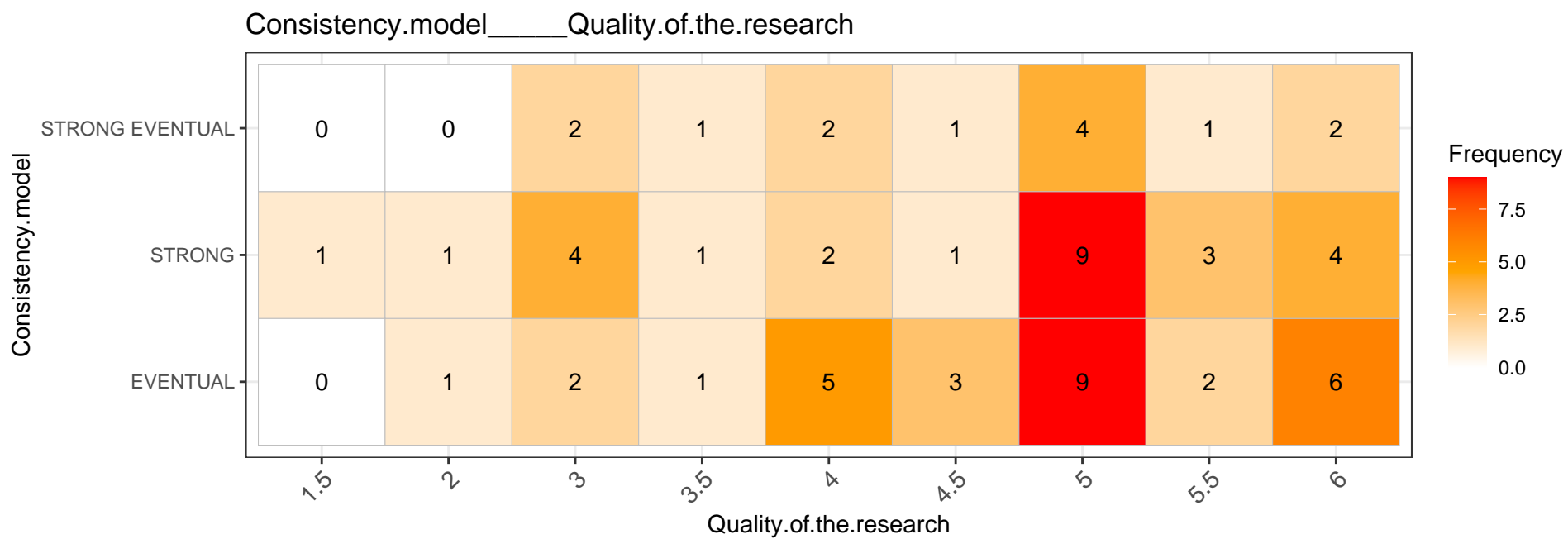


Consistency.model_____Evaluation

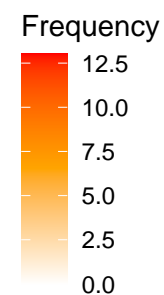
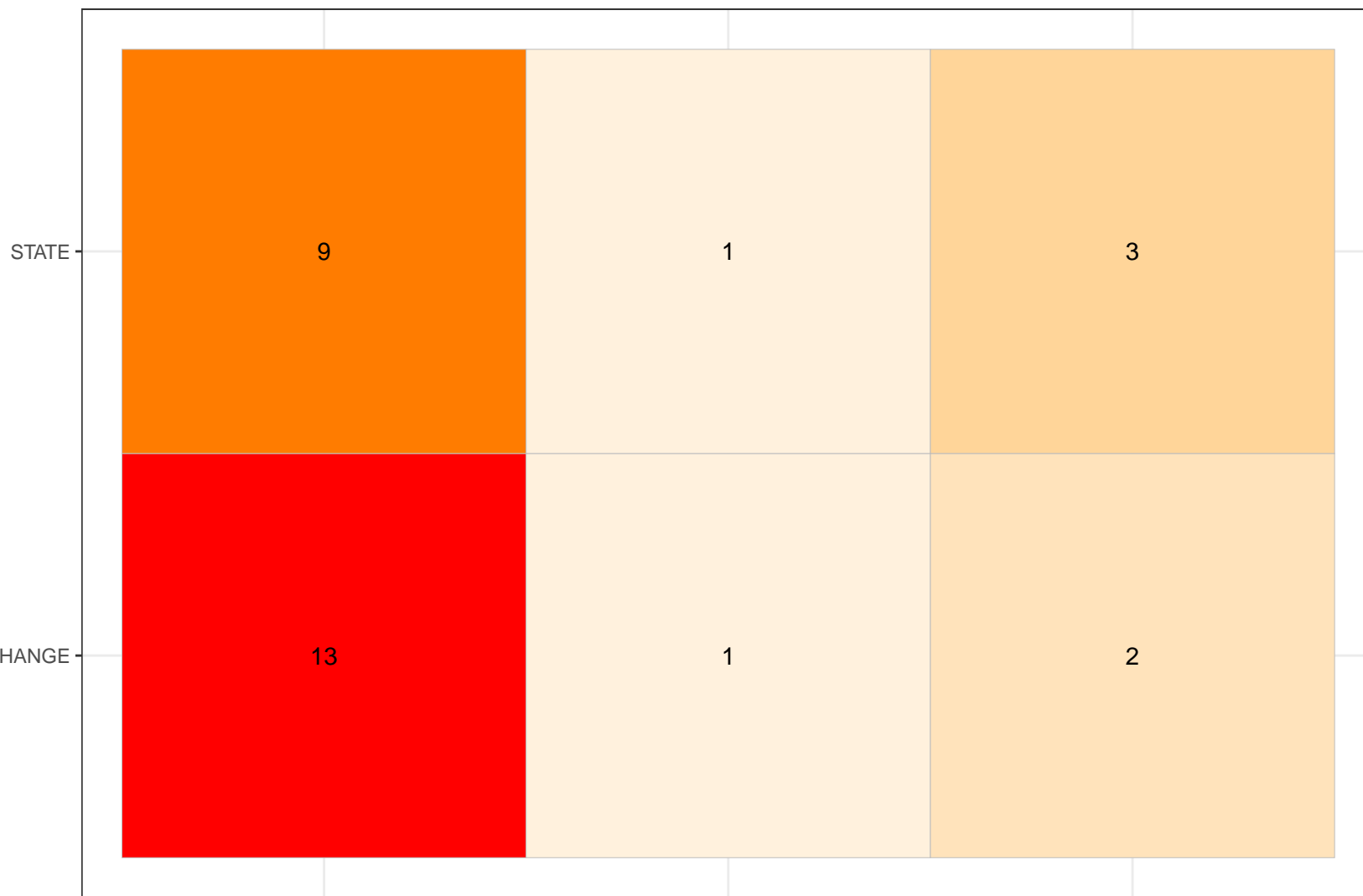


Consistency.model_____Tool.availability





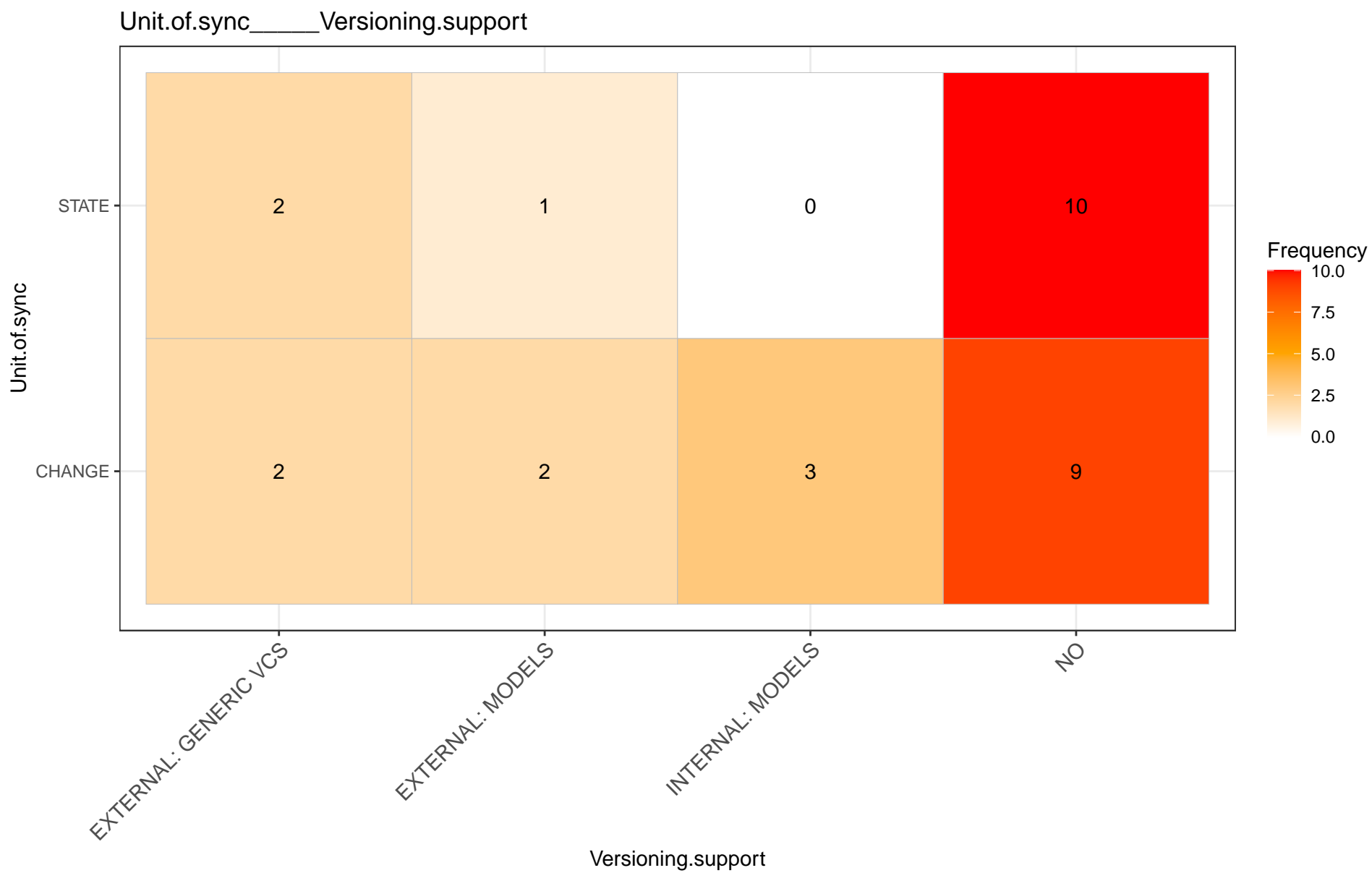
Unit.of.sync_____Locking



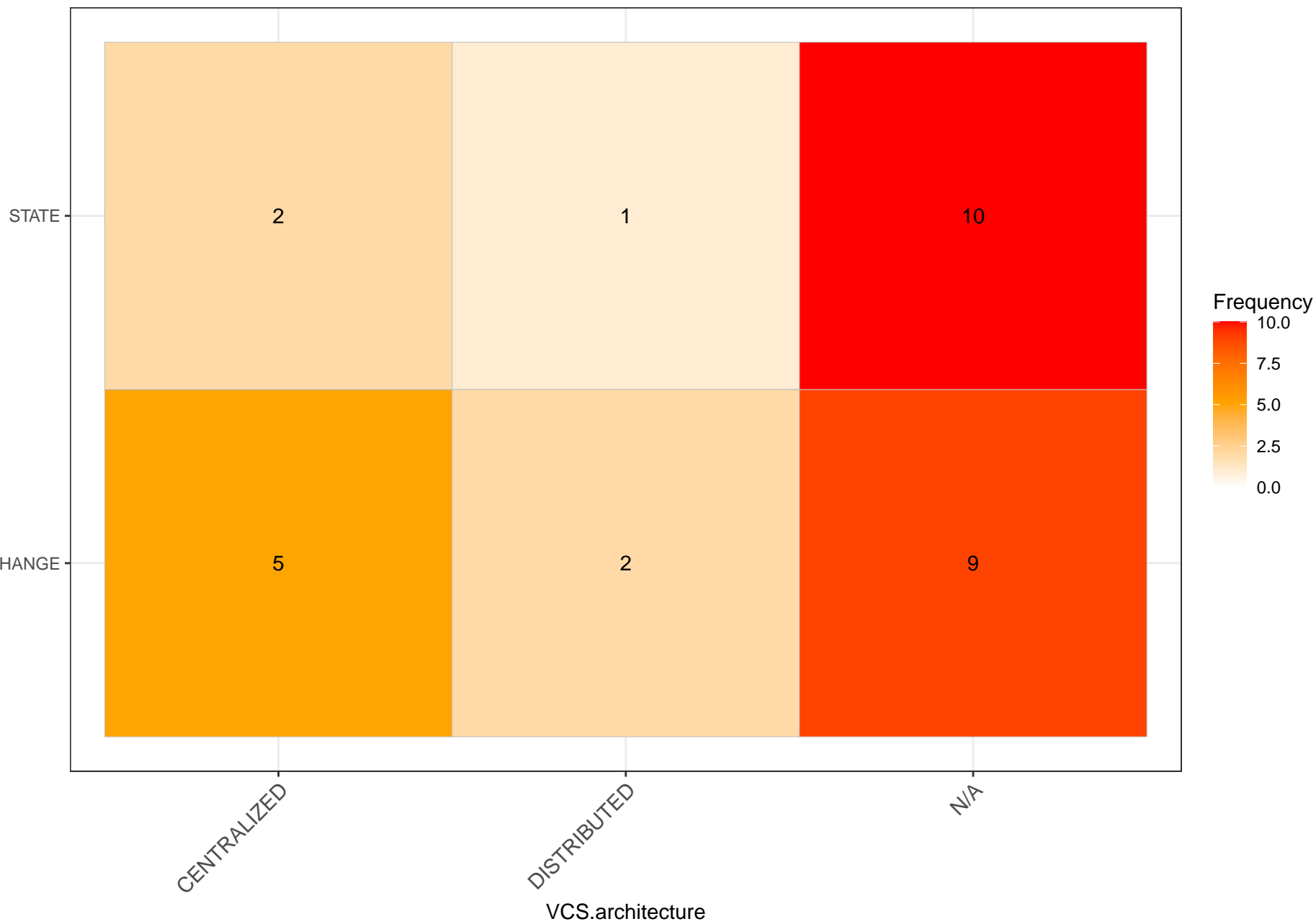
NO
OPTIMISTIC

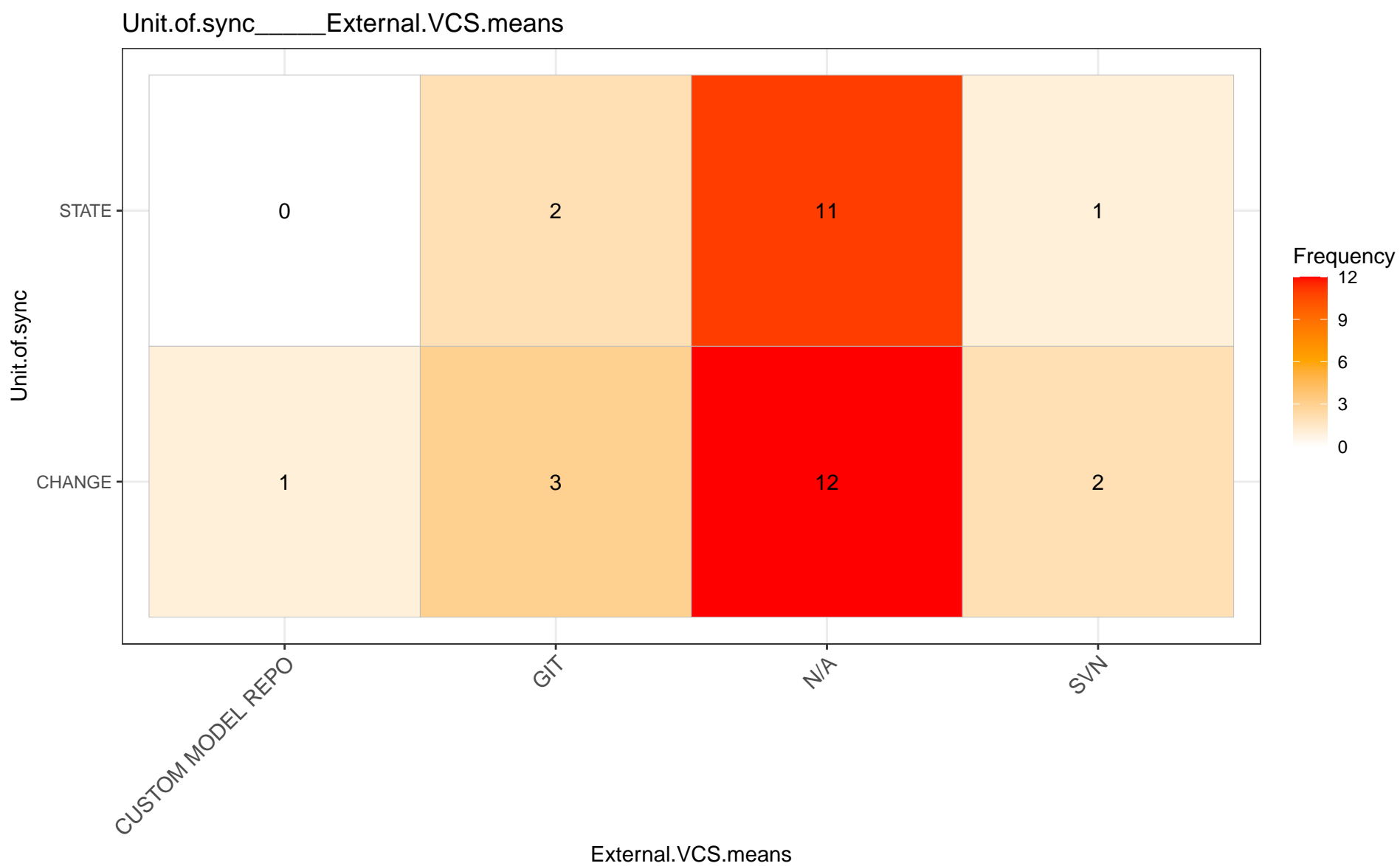
PESSIMISTIC: PARTLOCK

Locking



Unit.of.sync_____VCS.architecture





Unit.of.sync_____Branching

STATE

0

13

Unit.of.sync

CHANGE

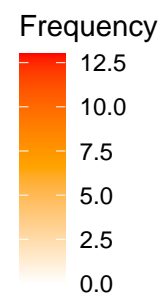
3

13

MULTI-BRANCHING

NO

Branching



Unit.of.sync_____Model.merging.support

Unit.of.sync

STATE

9

4

CHANGE

13

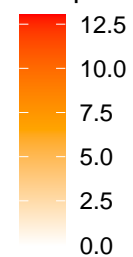
3

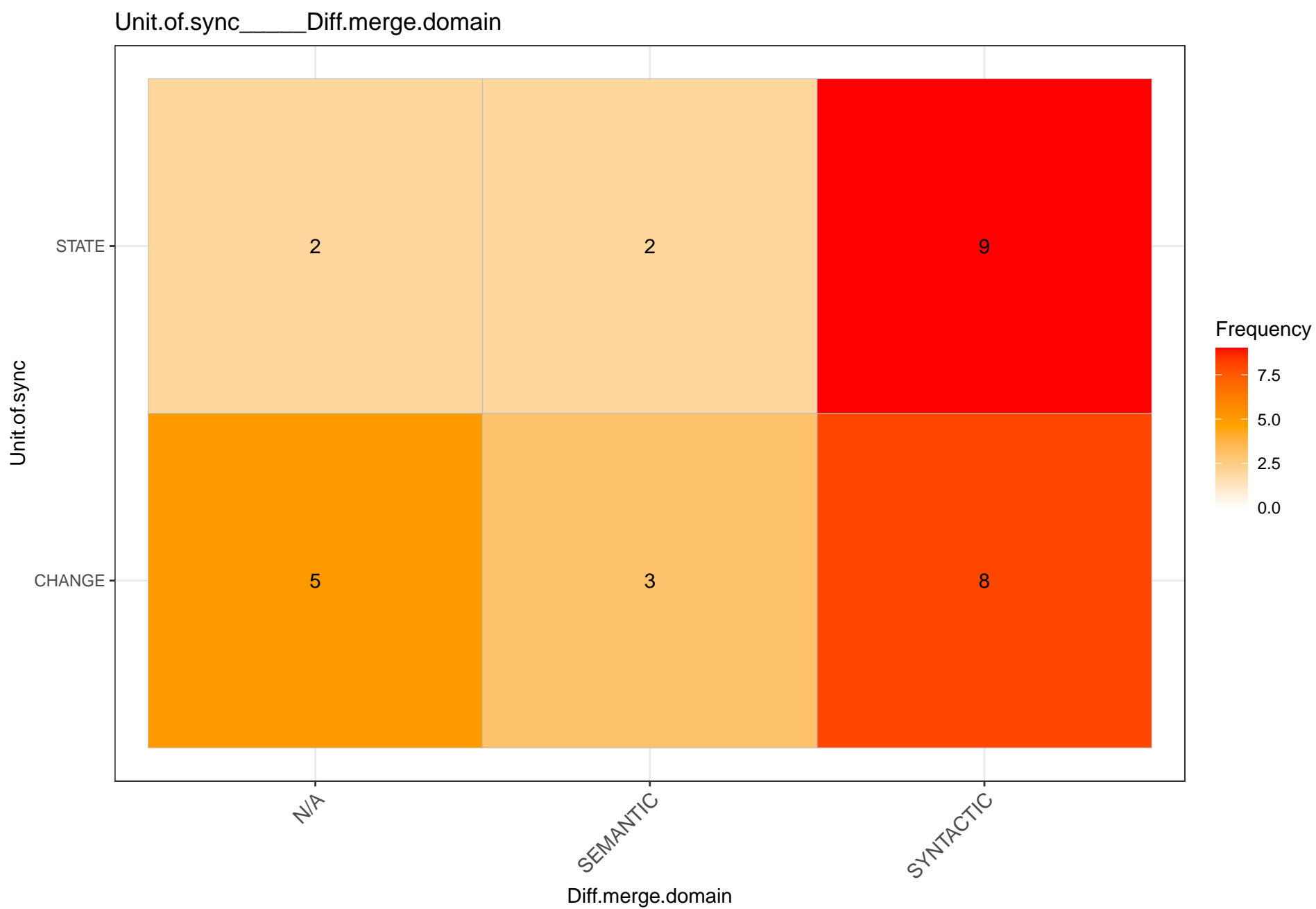
NO

YES

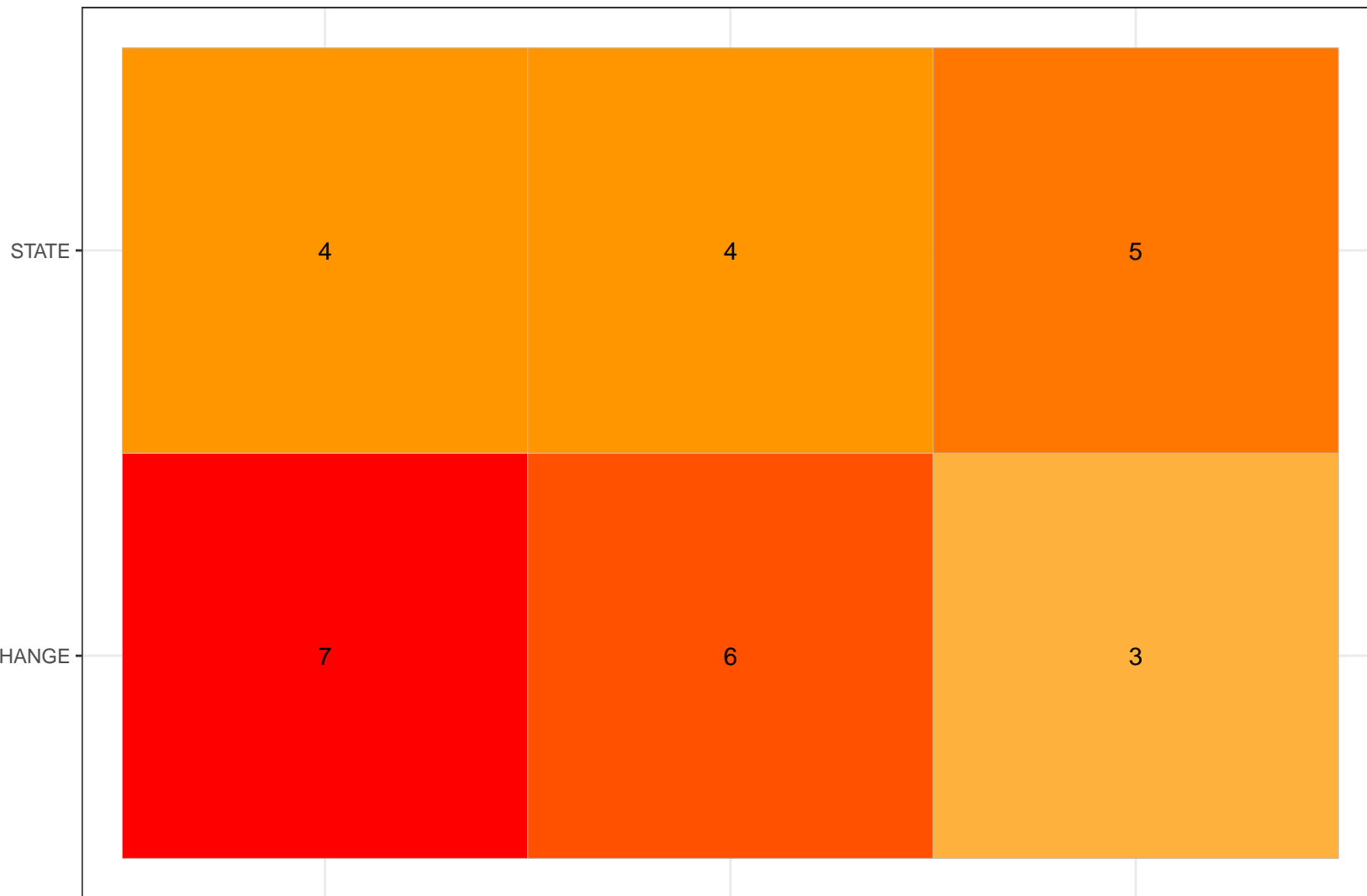
Model.merging.support

Frequency





Unit.of.sync_____Conflict.mgmt.approach



Frequency

6

4

2

0

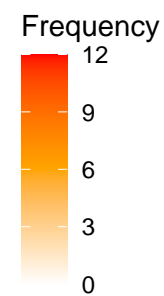
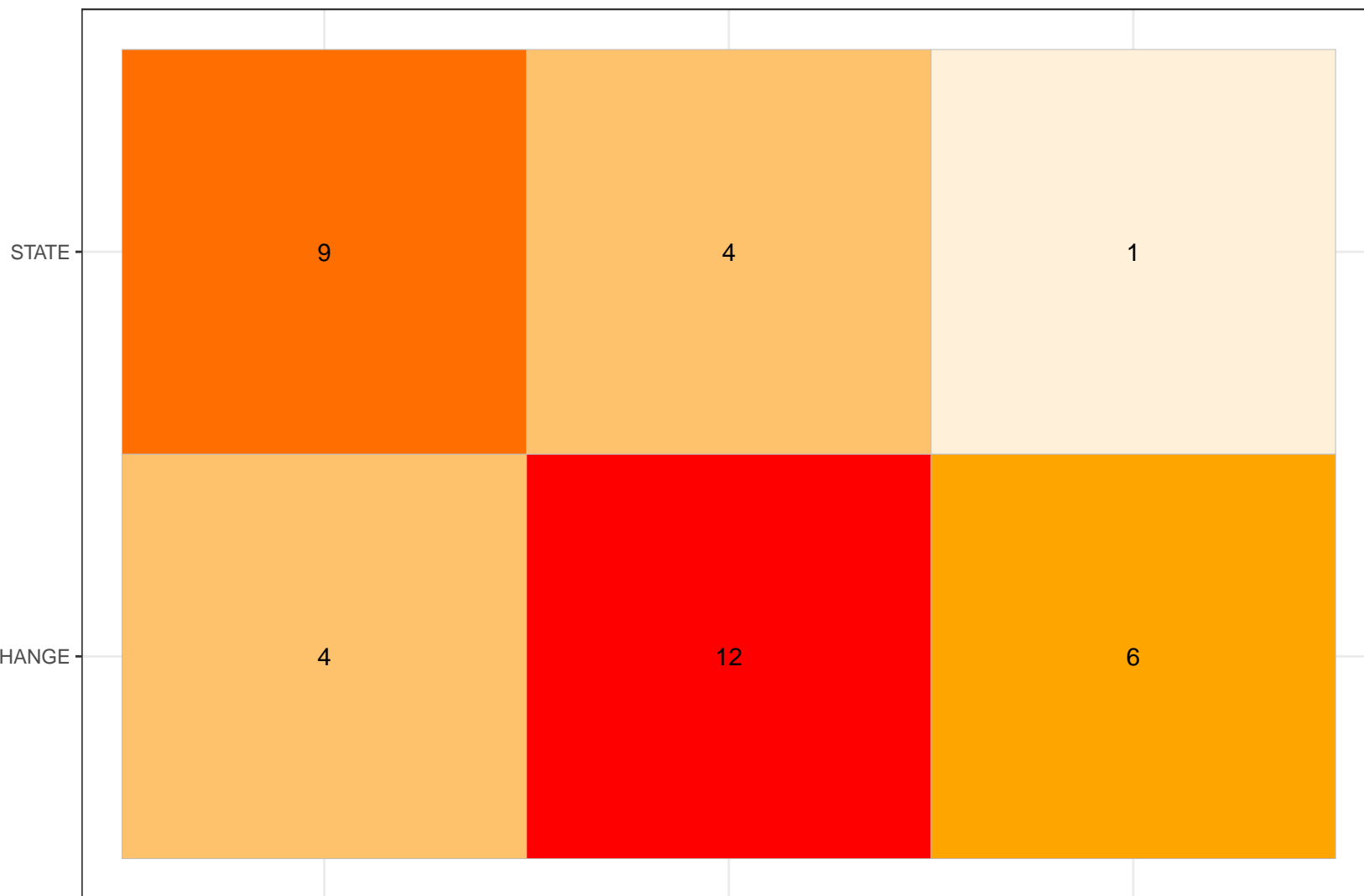
ALLOW&RESOLVE

NO

PREVENTIVE

Conflict.mgmt.approach

Unit.of.sync_____Conflict.detection



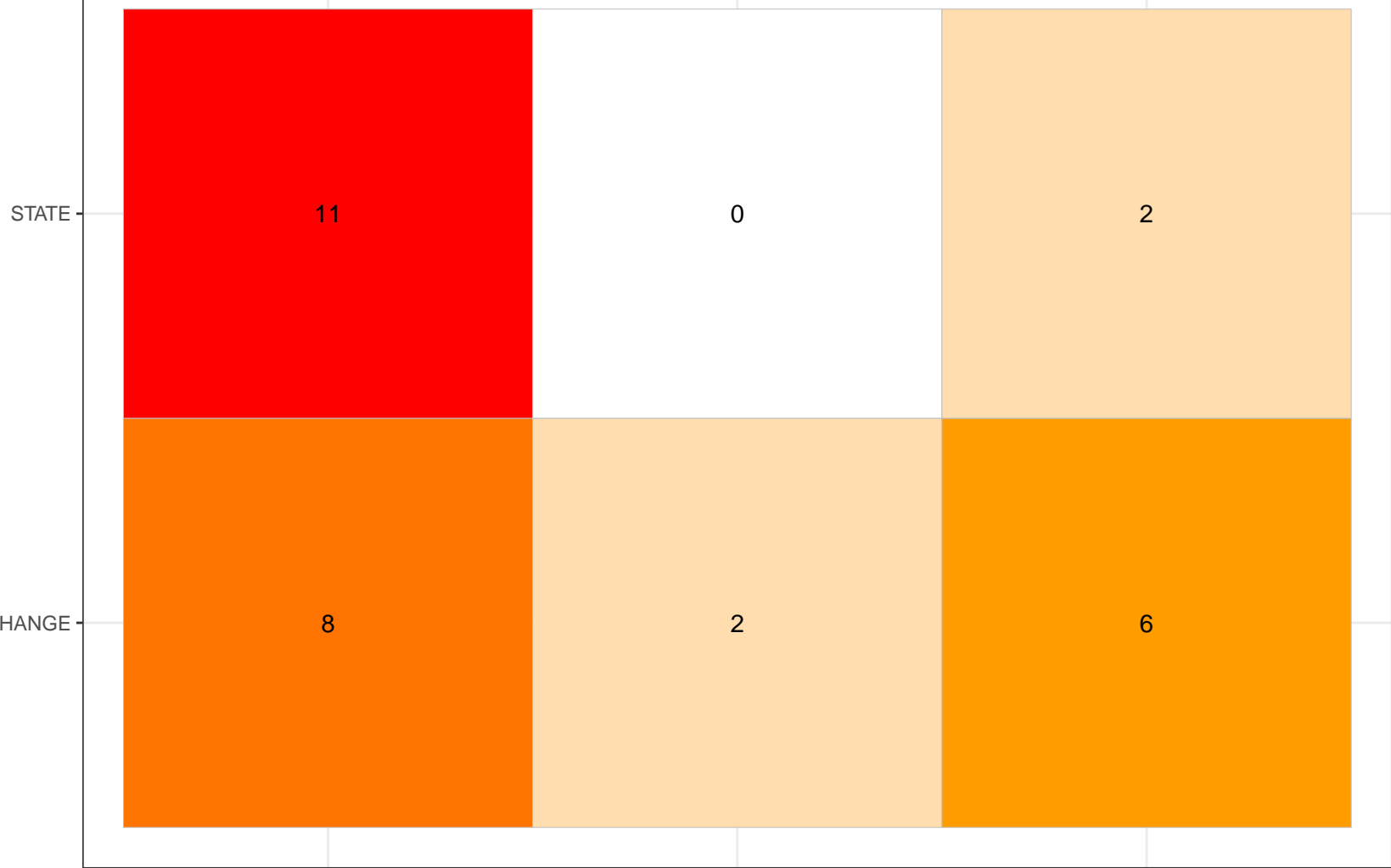
NO

YES

YES: INCREMENTAL

Conflict.detection

Unit.of.sync_____Conflict.awareness..User.

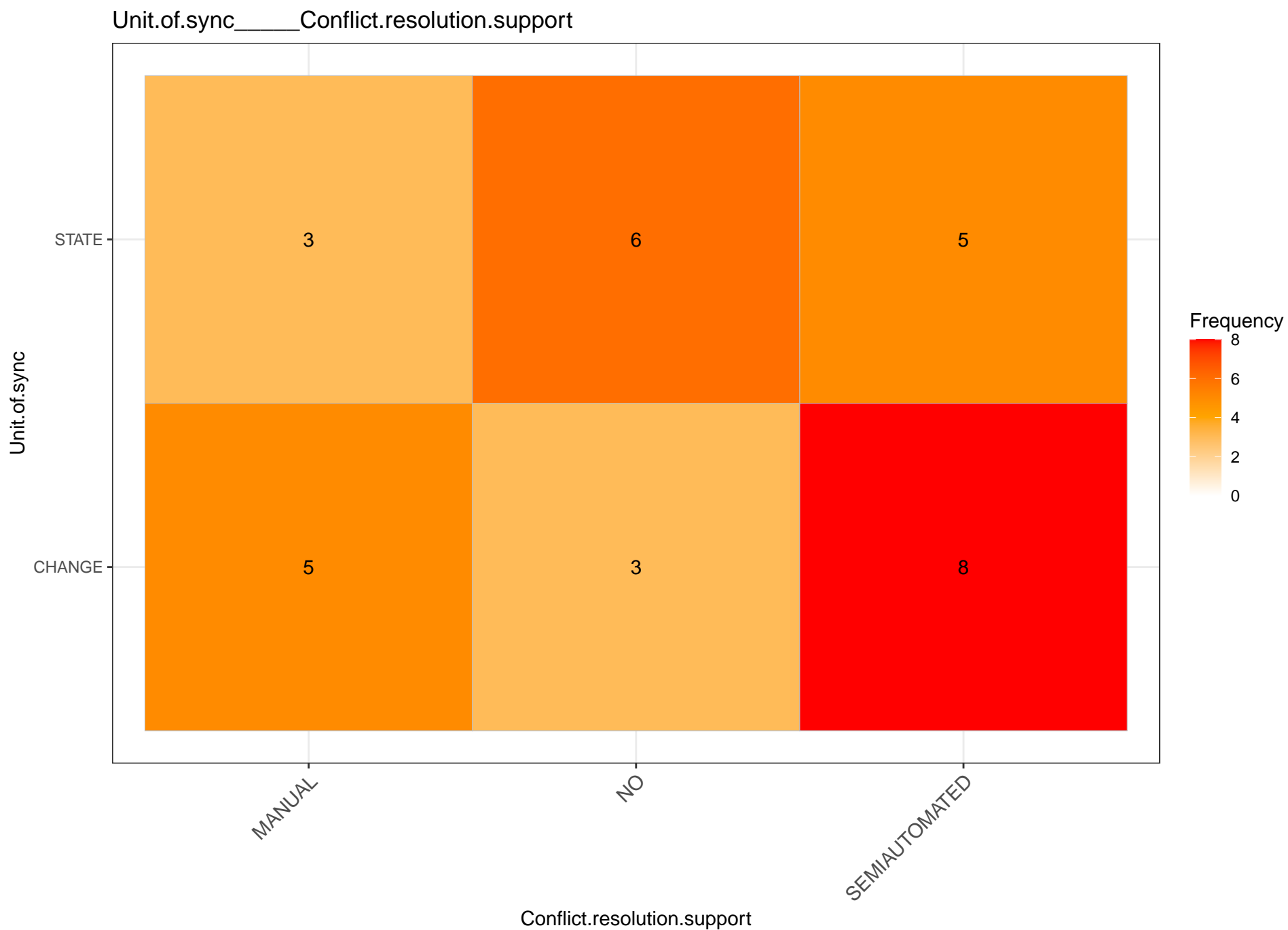


NO

PROMPT ACTION

WARNING

Conflict.awareness..User.



Unit.of.sync____Shared.workspace

Unit.of.sync

STATE

11

2

CHANGE

15

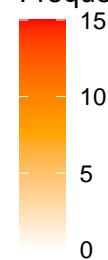
1

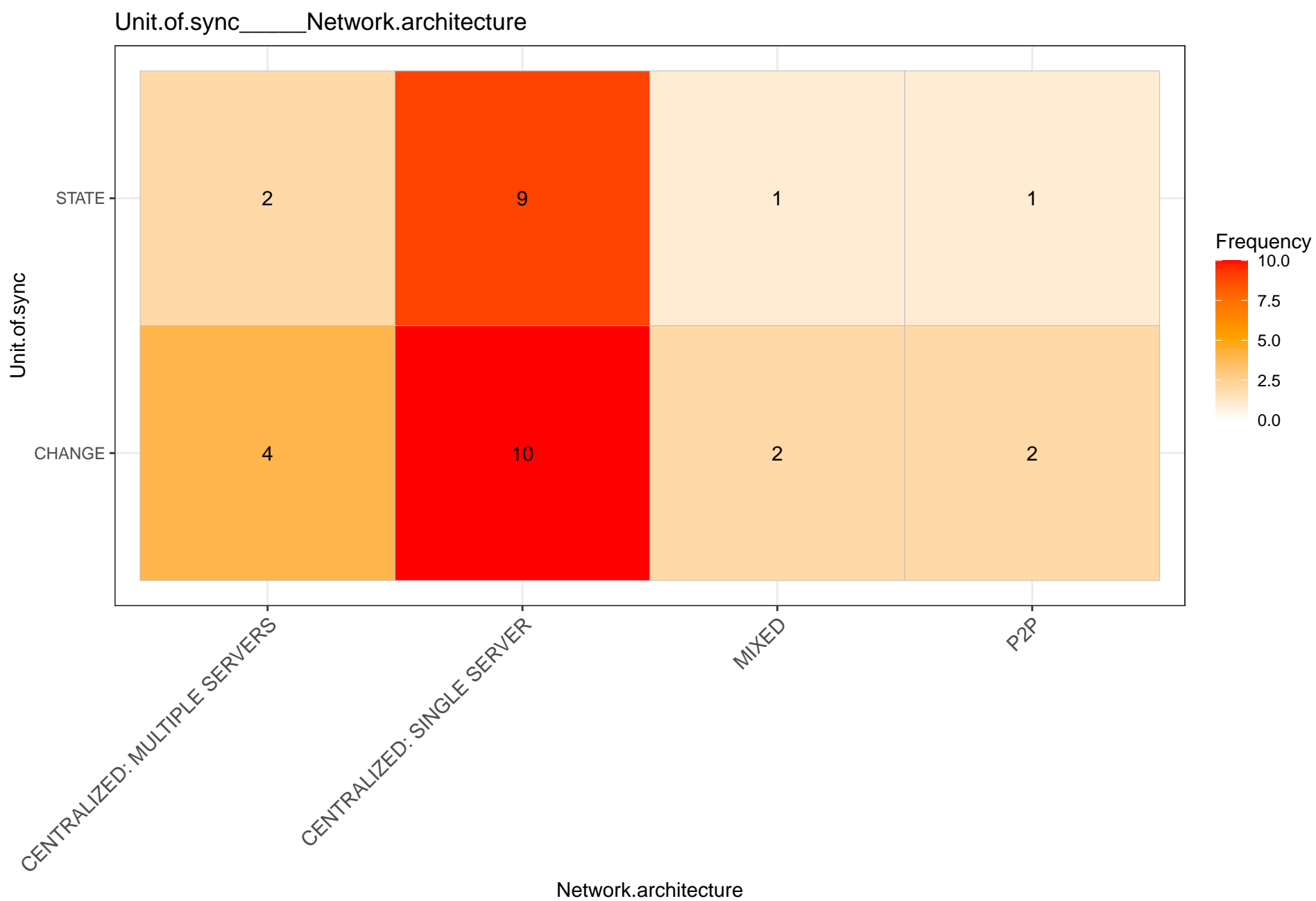
REMOTE

SAMEPLACE

Shared.workspace

Frequency





Unit.of.sync_____Communication.type

Unit.of.sync

STATE

9

13

CHANGE

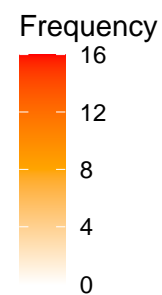
12

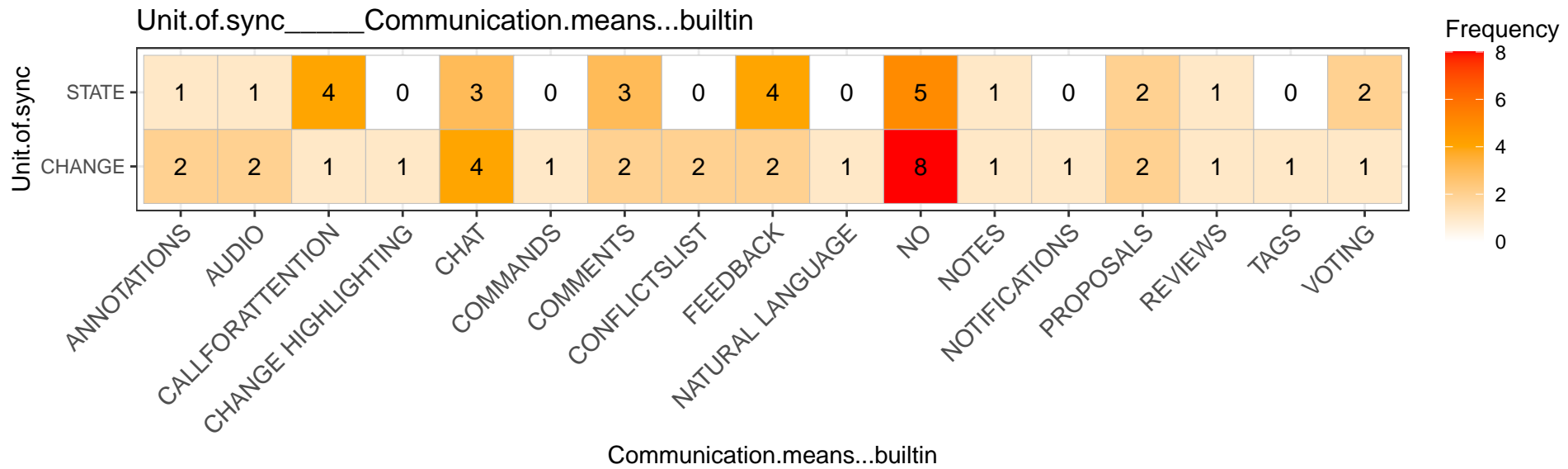
16

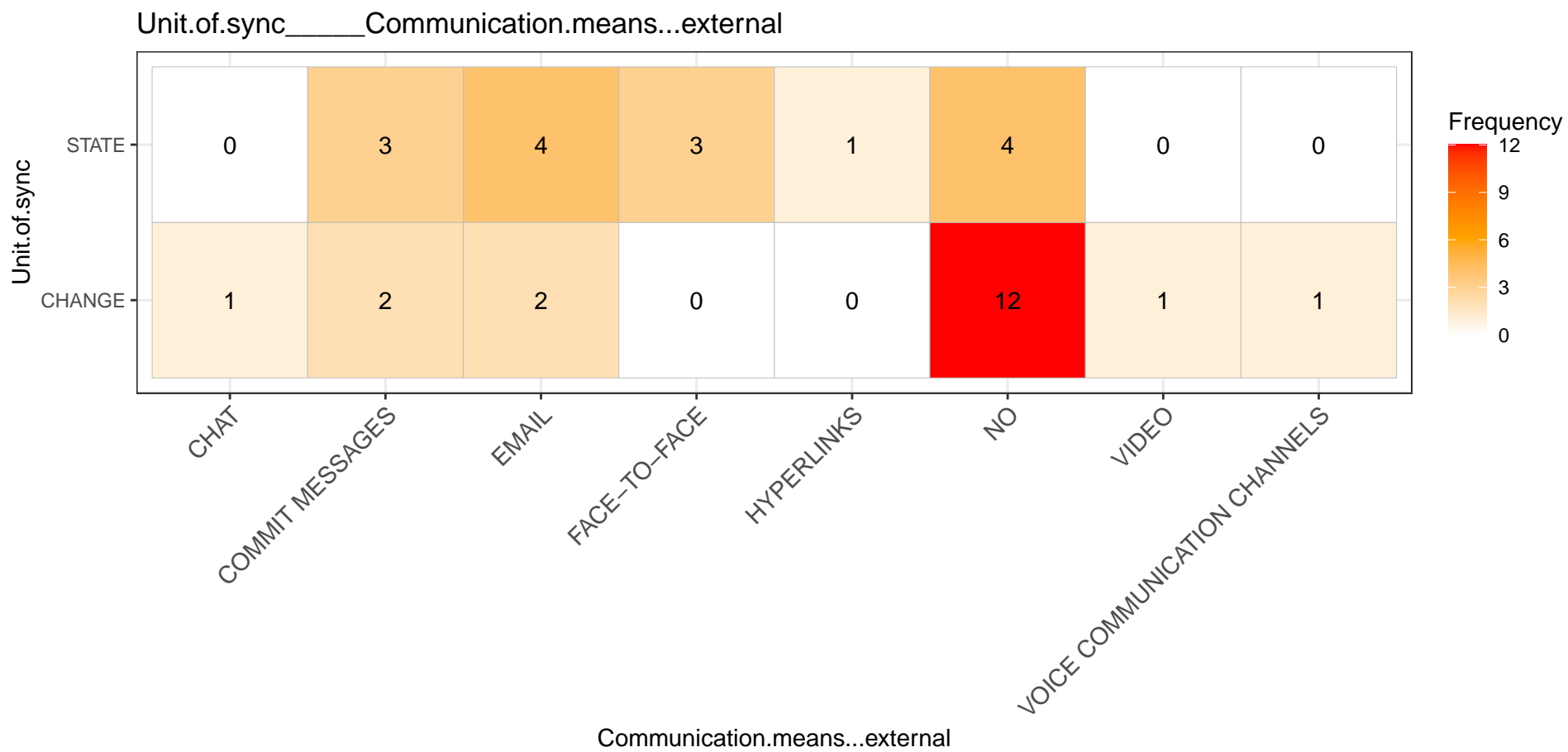
ASYNCHRONOUS

SYNCHRONOUS

Communication.type







Unit.of.sync_____Communication.means...mixed

STATE

0

0

2

11

Unit.of.sync

CHANGE

1

1

0

14

COMMIT MESSAGES

EMAIL

HYPERLINKS

NO

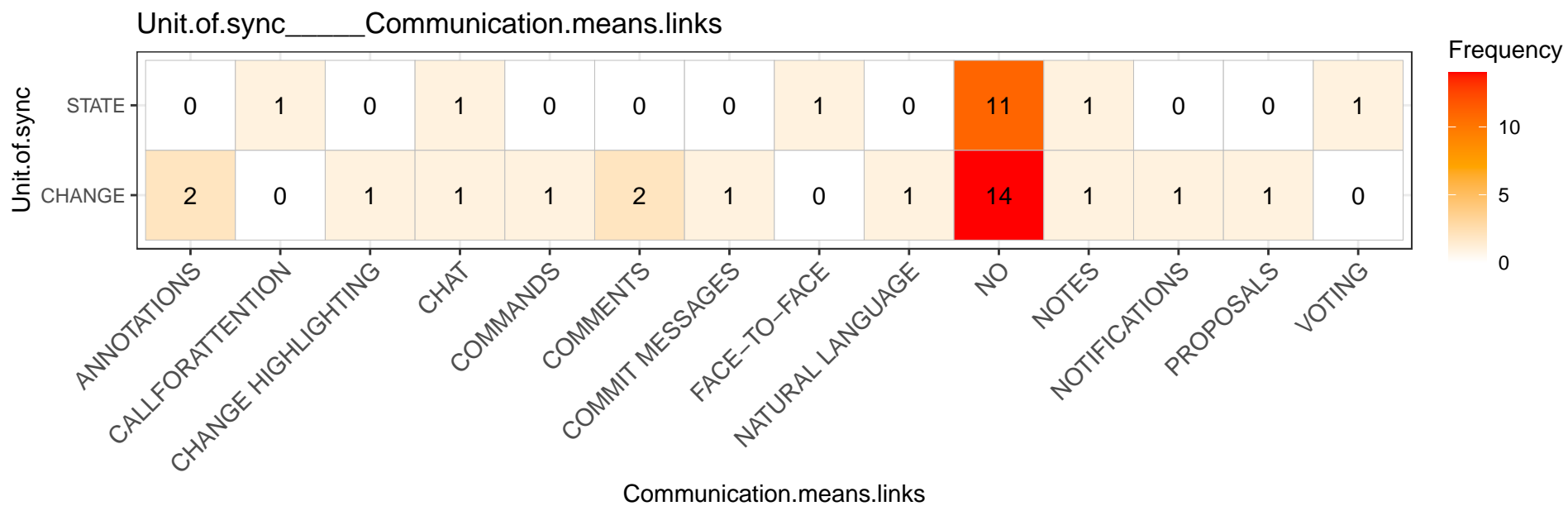
Communication.means...mixed

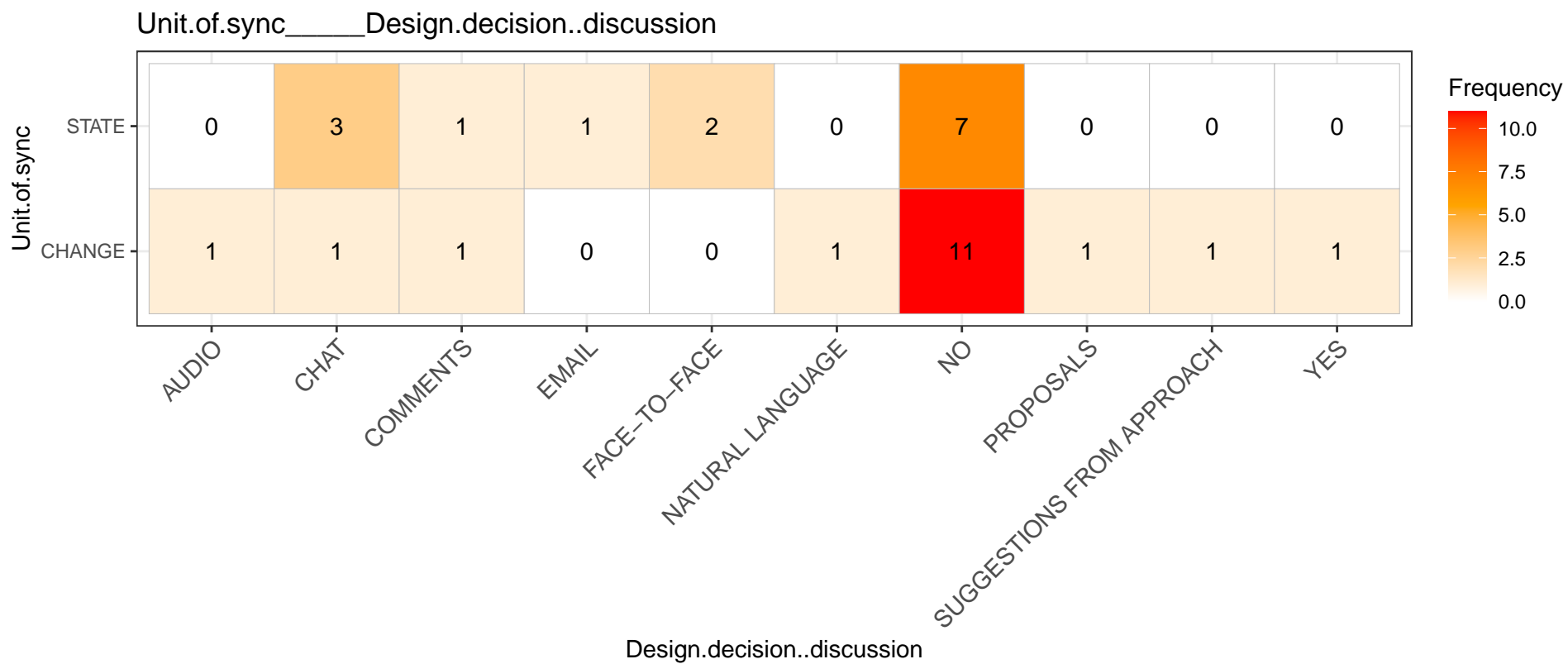
Frequency

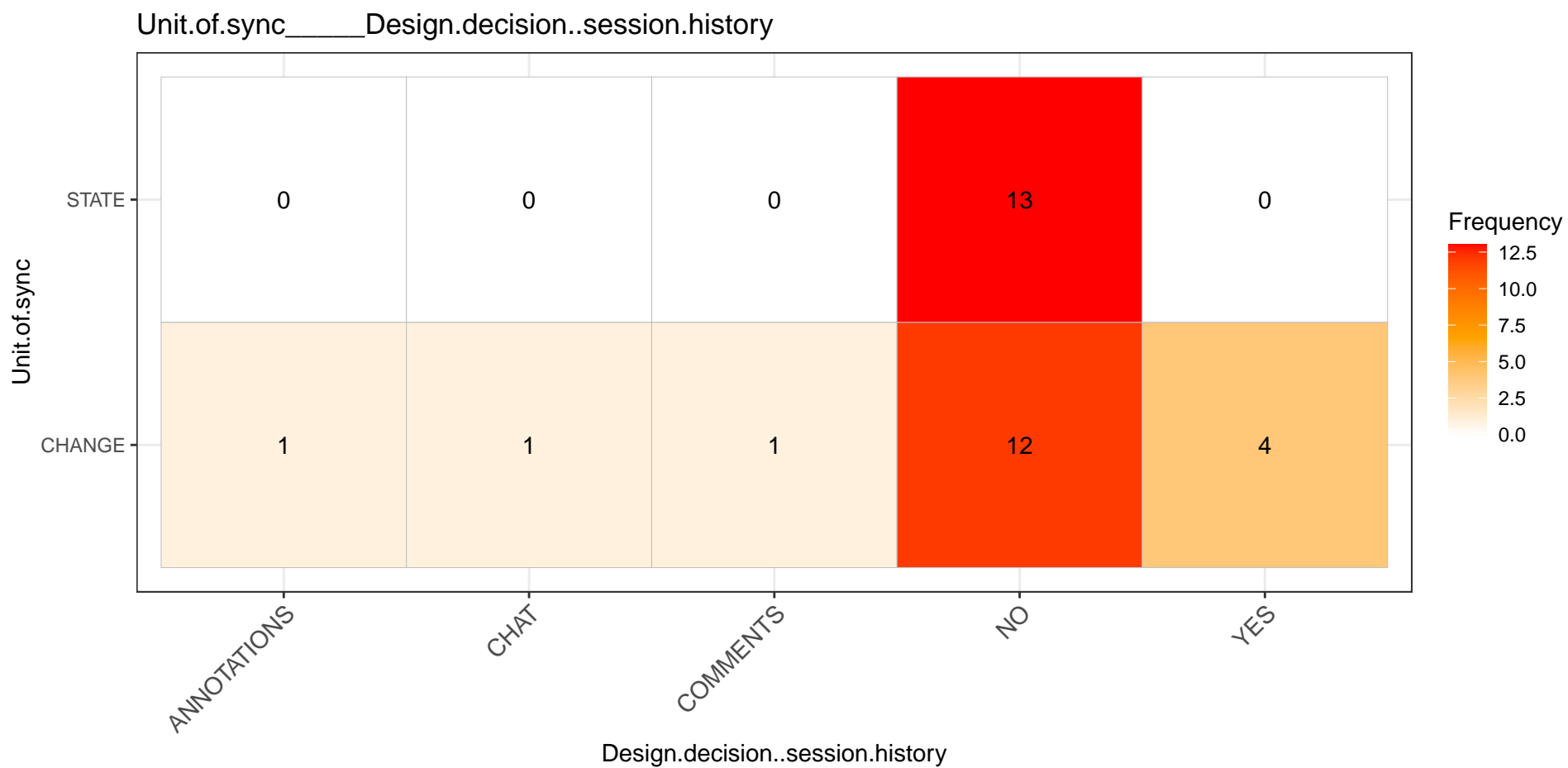
10

5

0







Unit.of.sync_____Stakeholder.types

Unit.of.sync

STATE

7

13

CHANGE

4

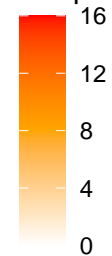
16

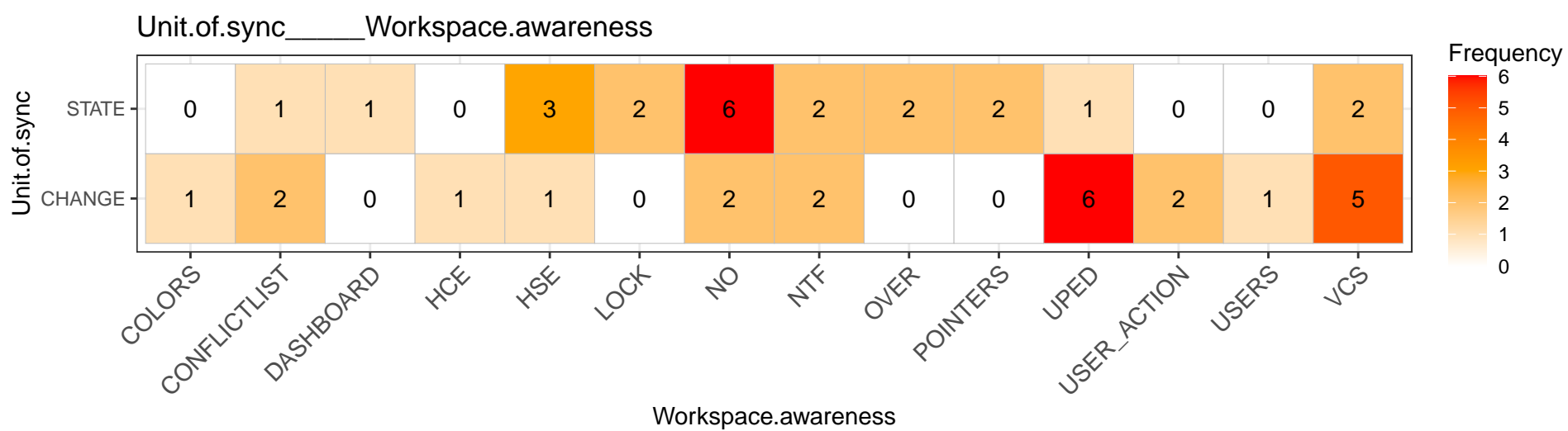
NONTECH

TECH

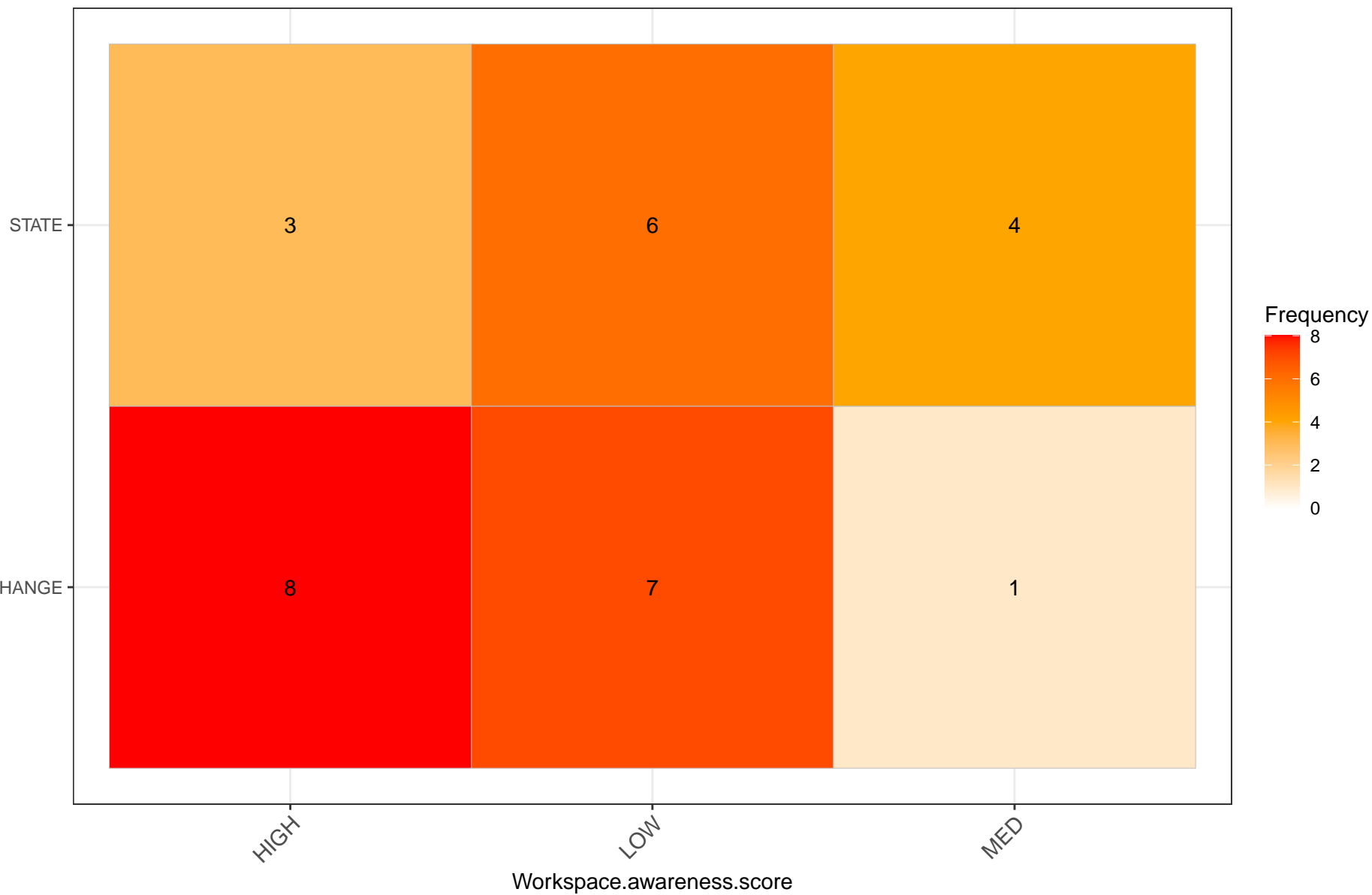
Stakeholder.types

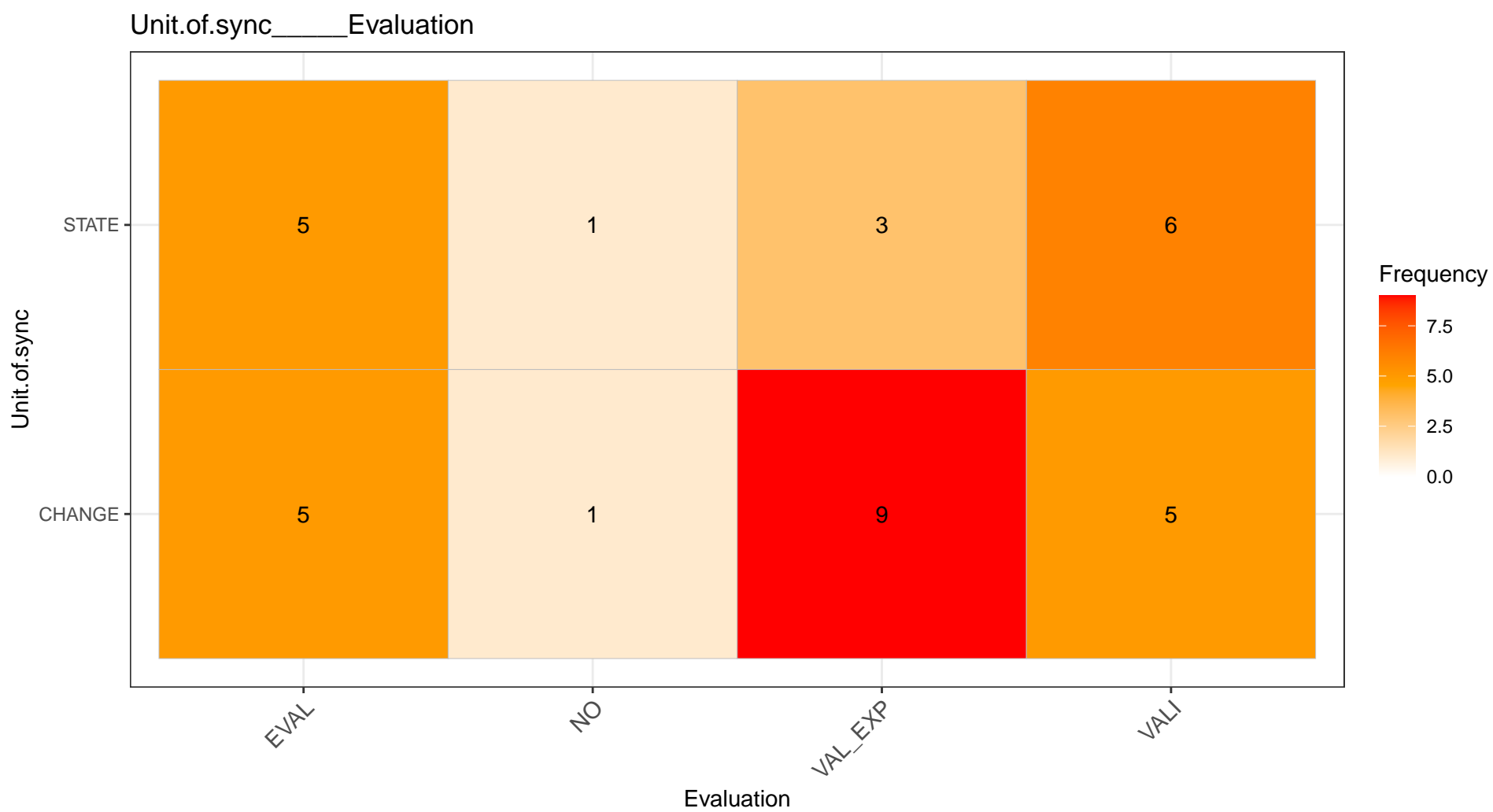
Frequency



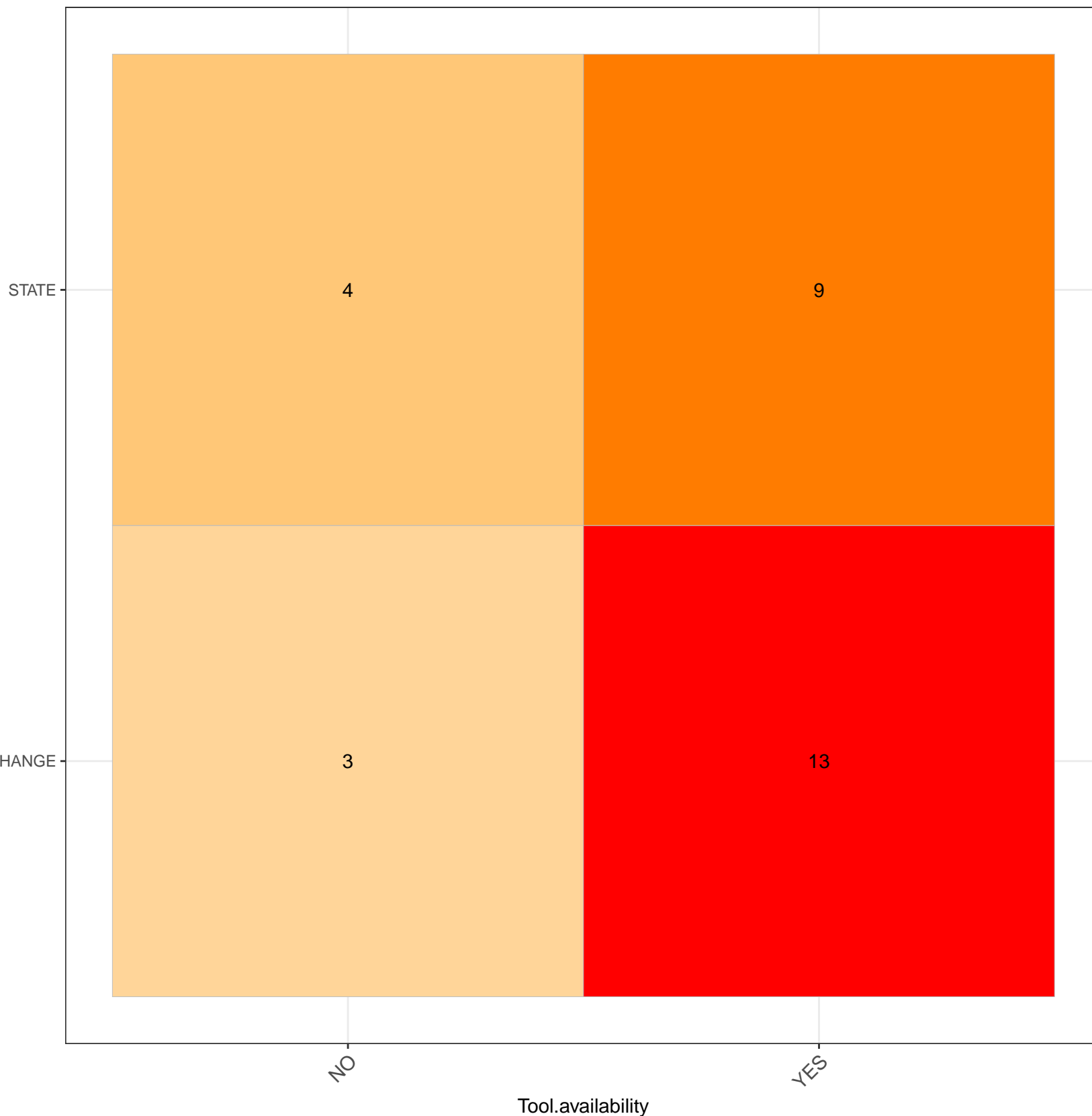


Unit.of.sync_____Workspace.awareness.score

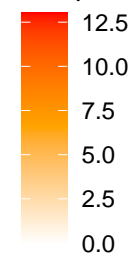


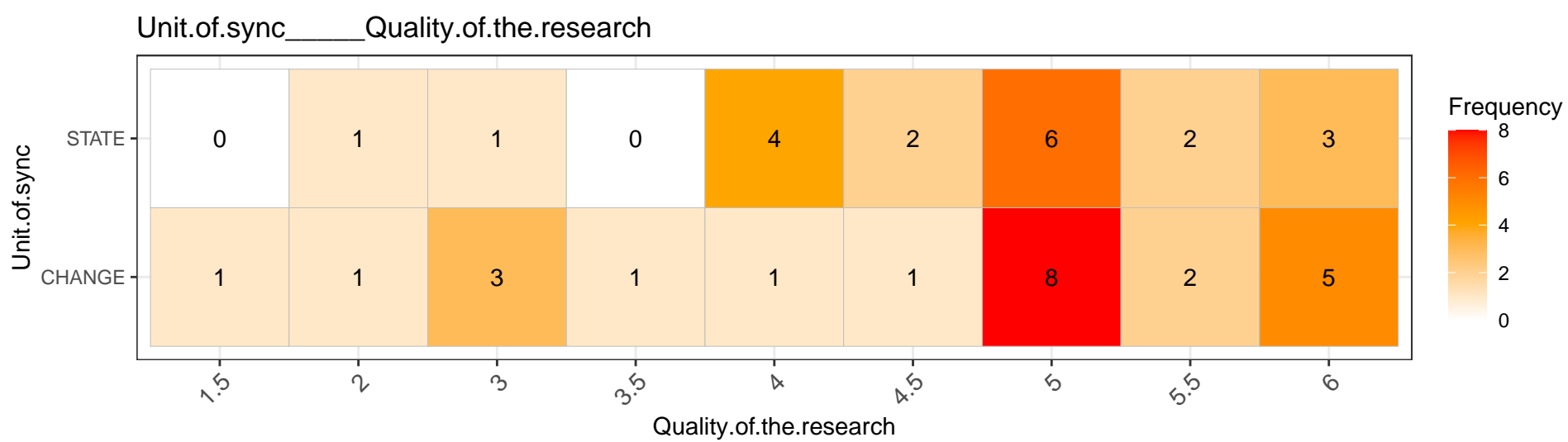


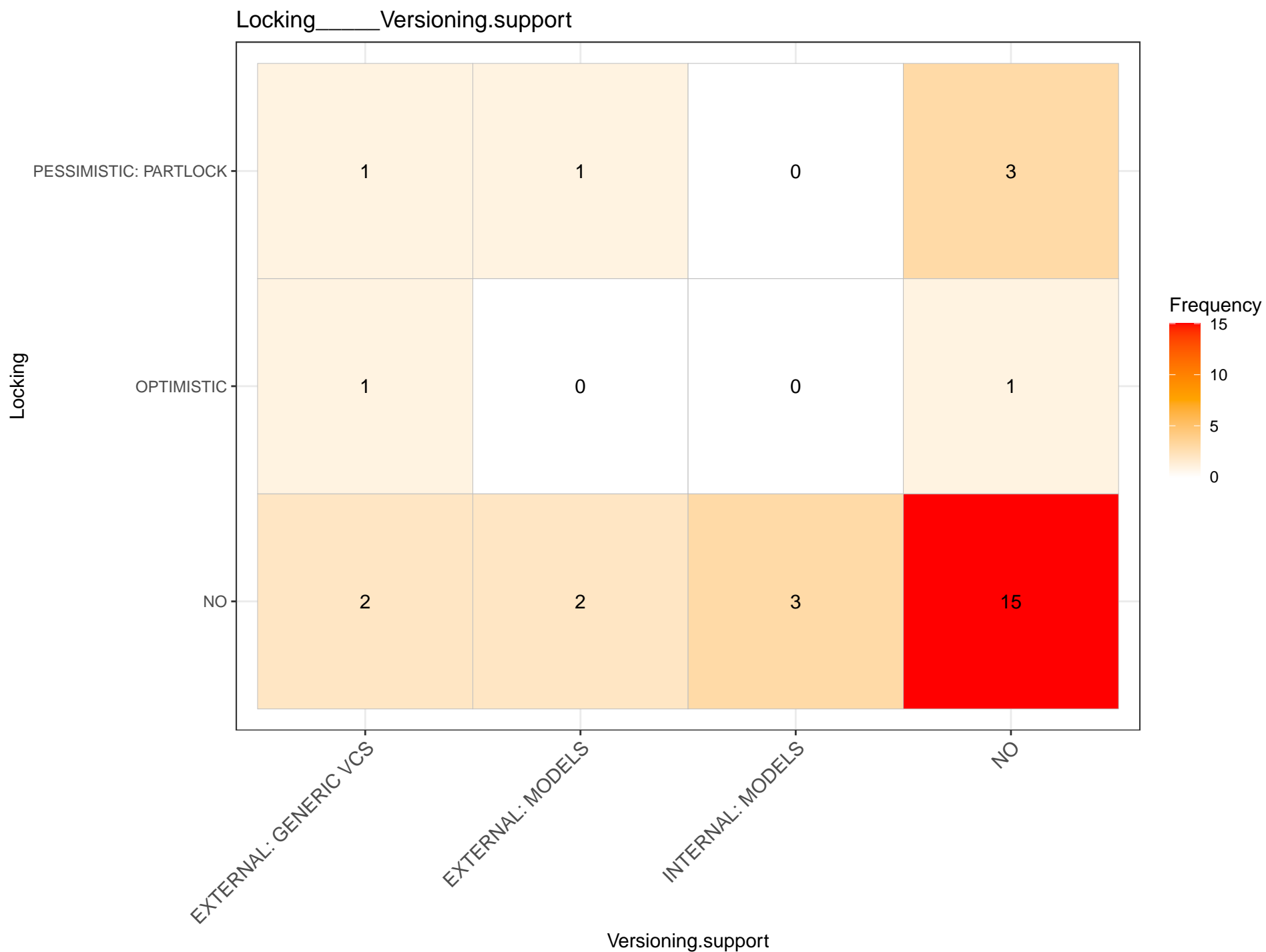
Unit.of.sync_____Tool.availability

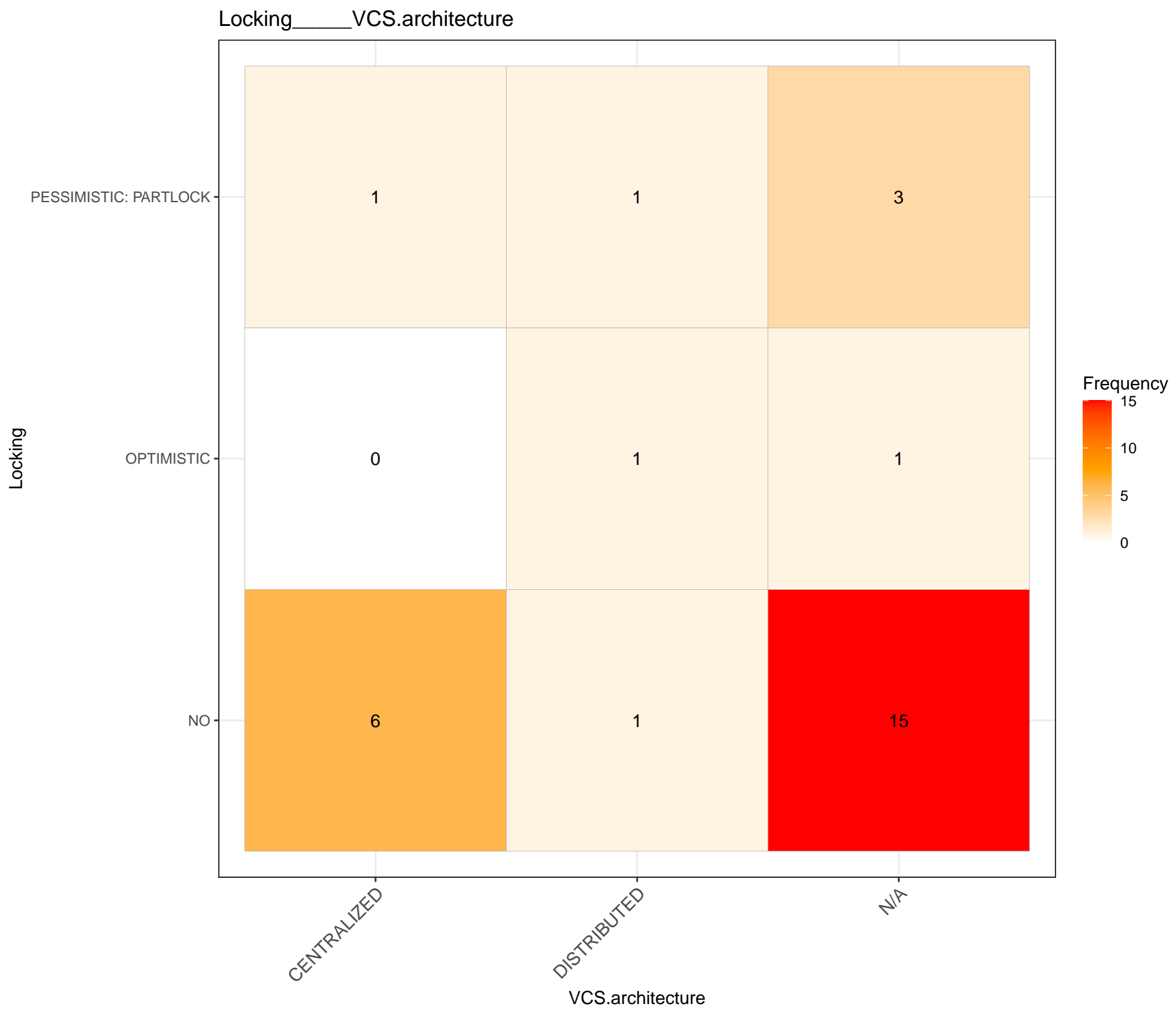


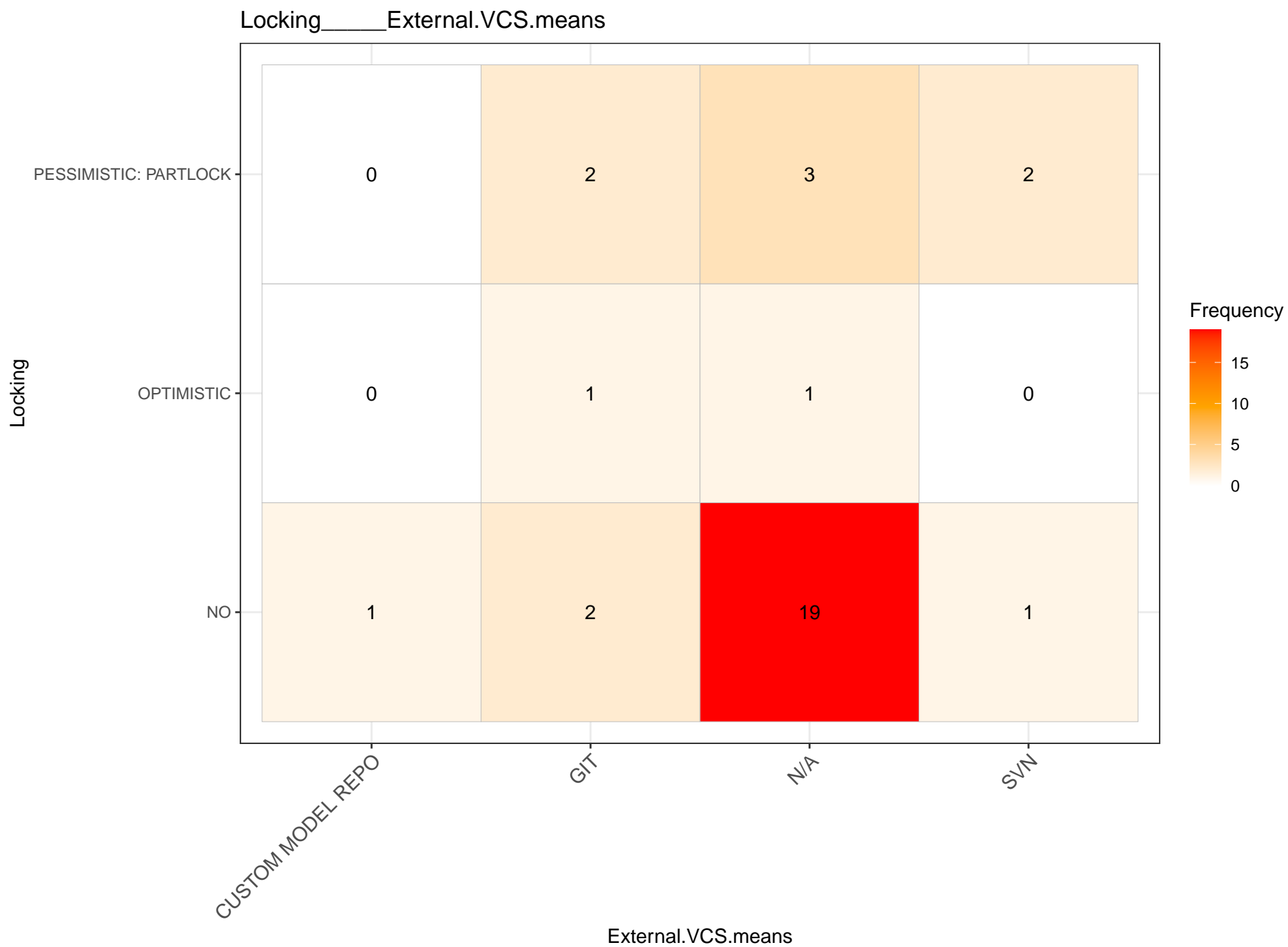
Frequency



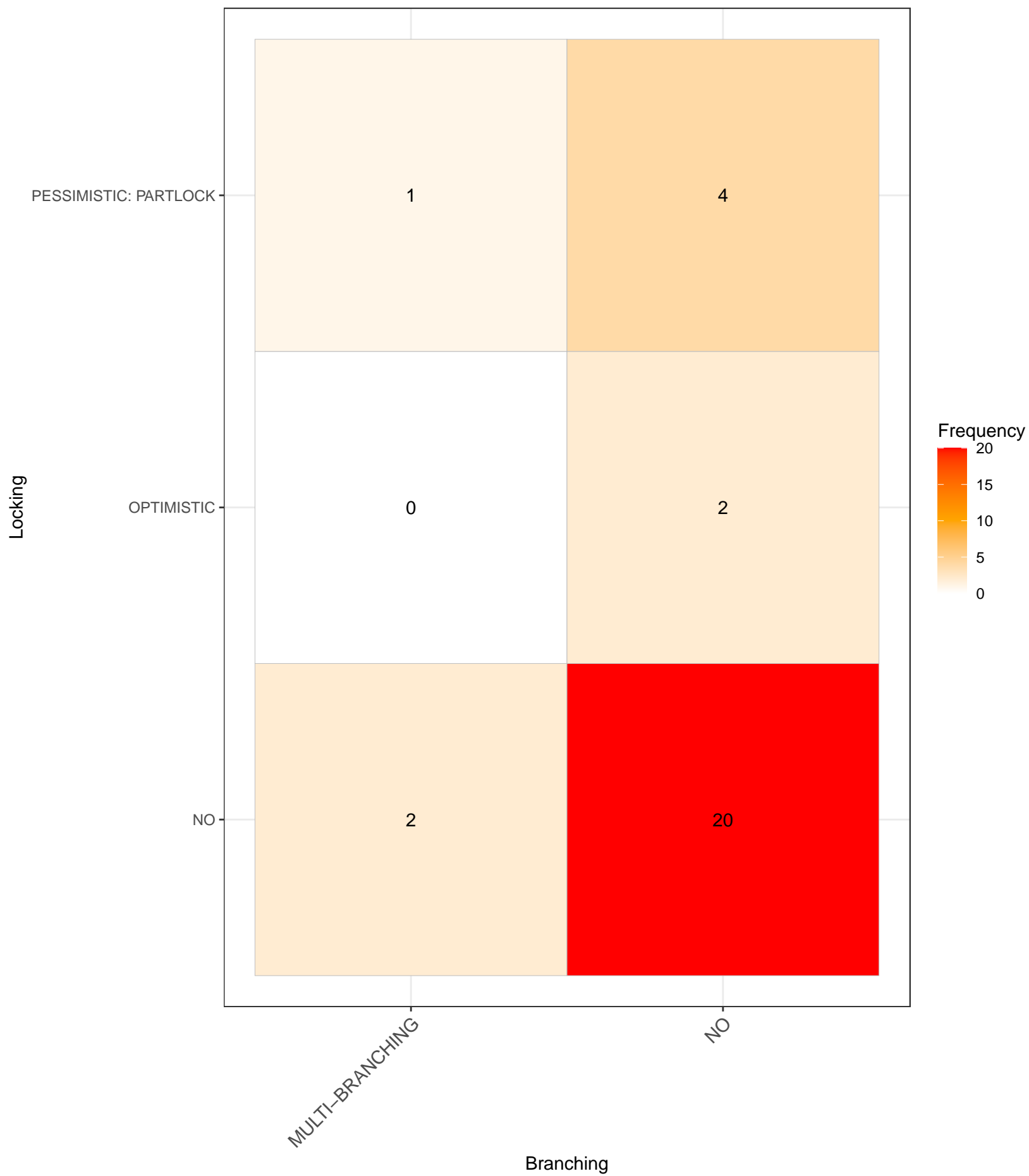




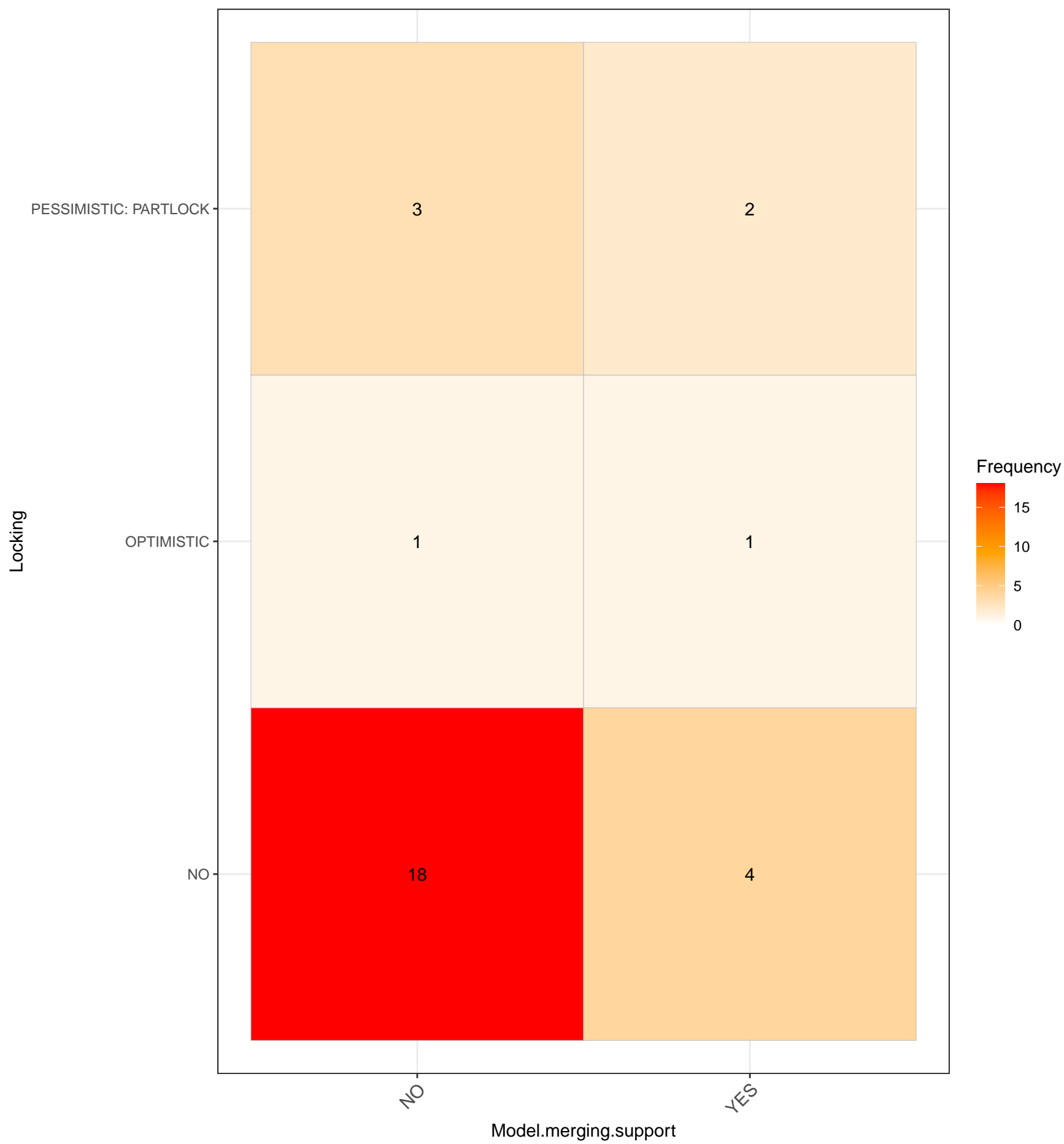


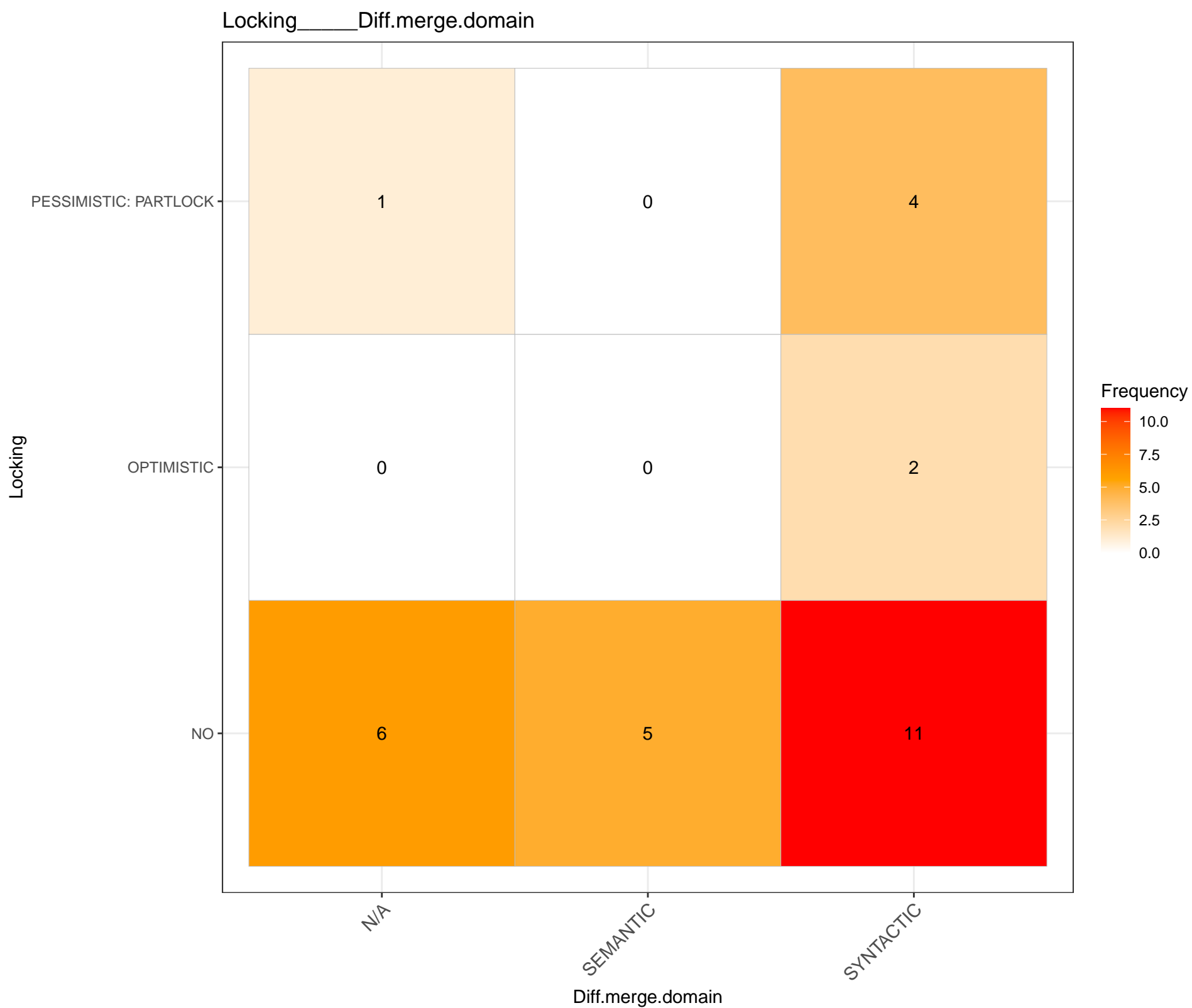


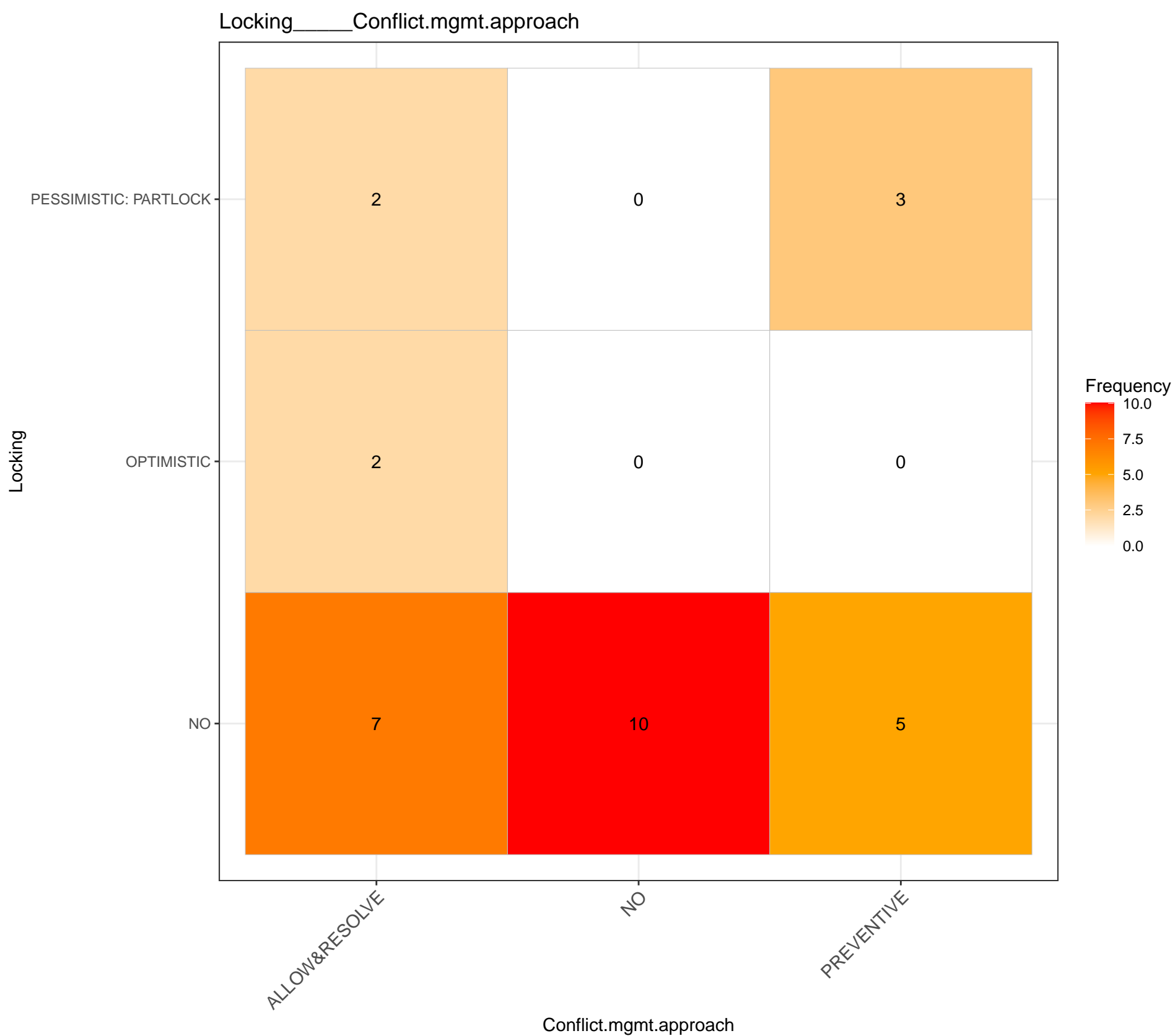
Locking_____Branching

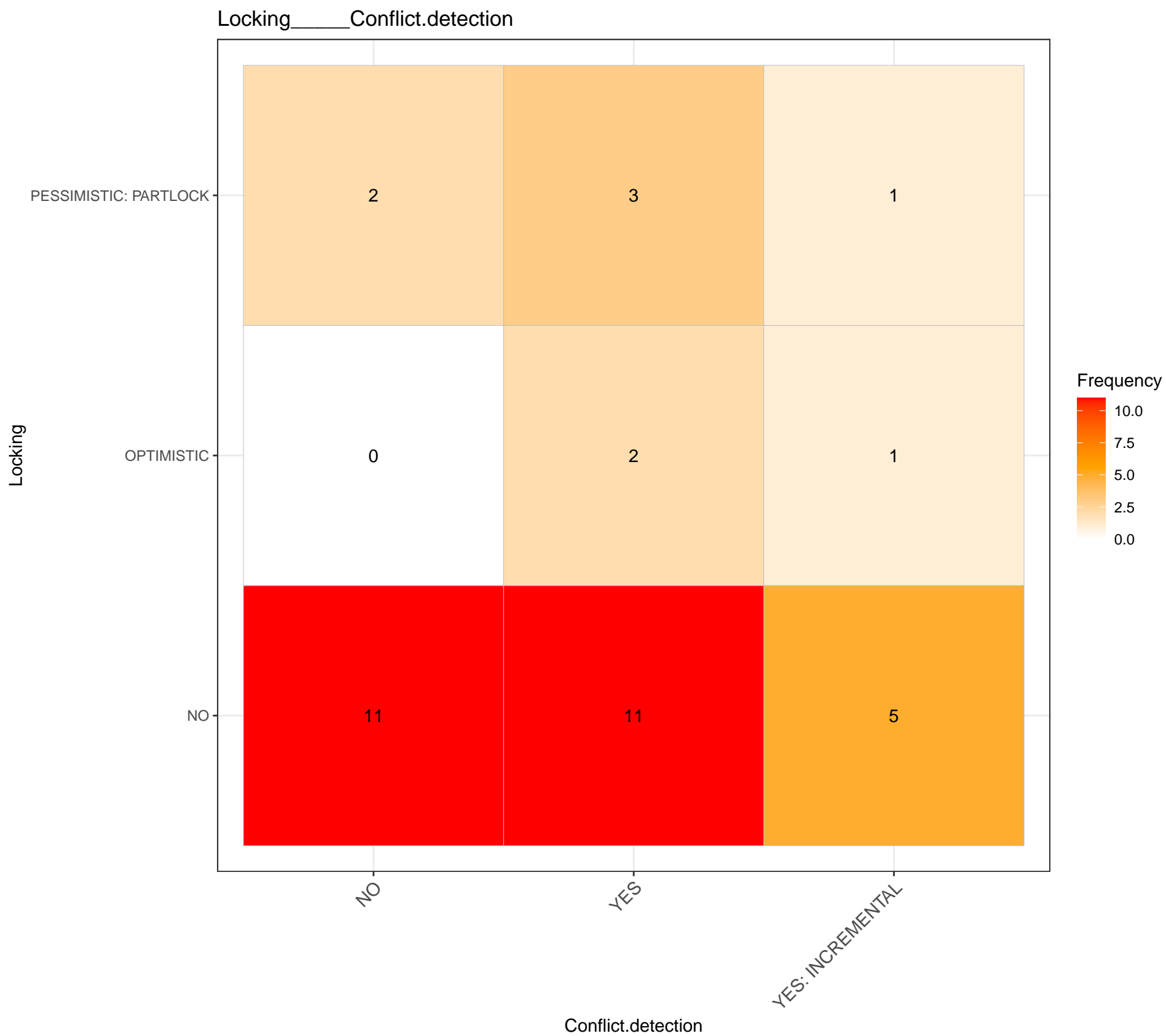


Locking_____Model.merging.support









Locking_____Conflict.awareness..User.

PESSIMISTIC: PARTLOCK

OPTIMISTIC

NO

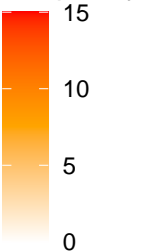
NO

PROMPT ACTION

WARNING

Conflict.awareness..User.

Frequency



4

0

1

0

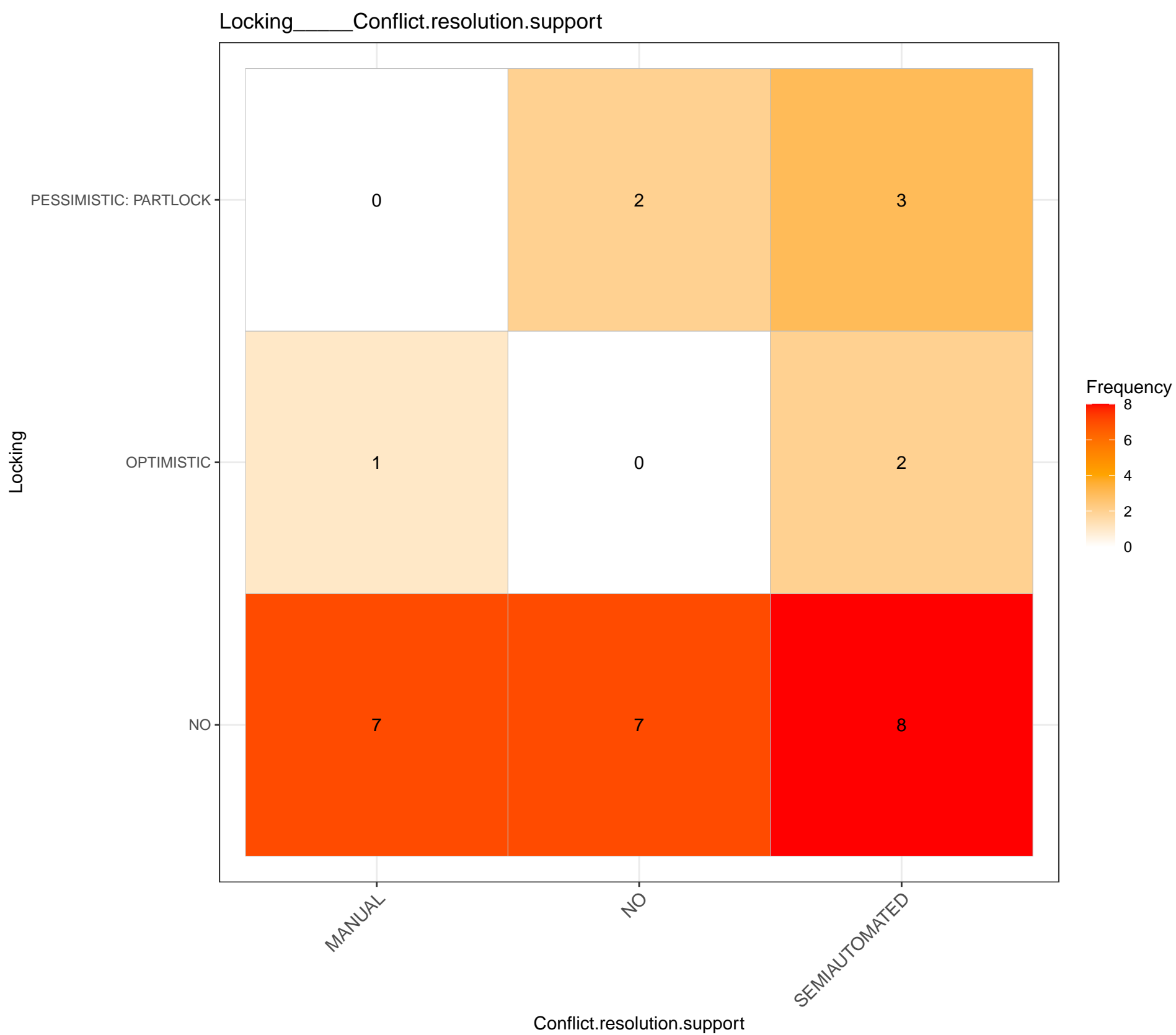
0

2

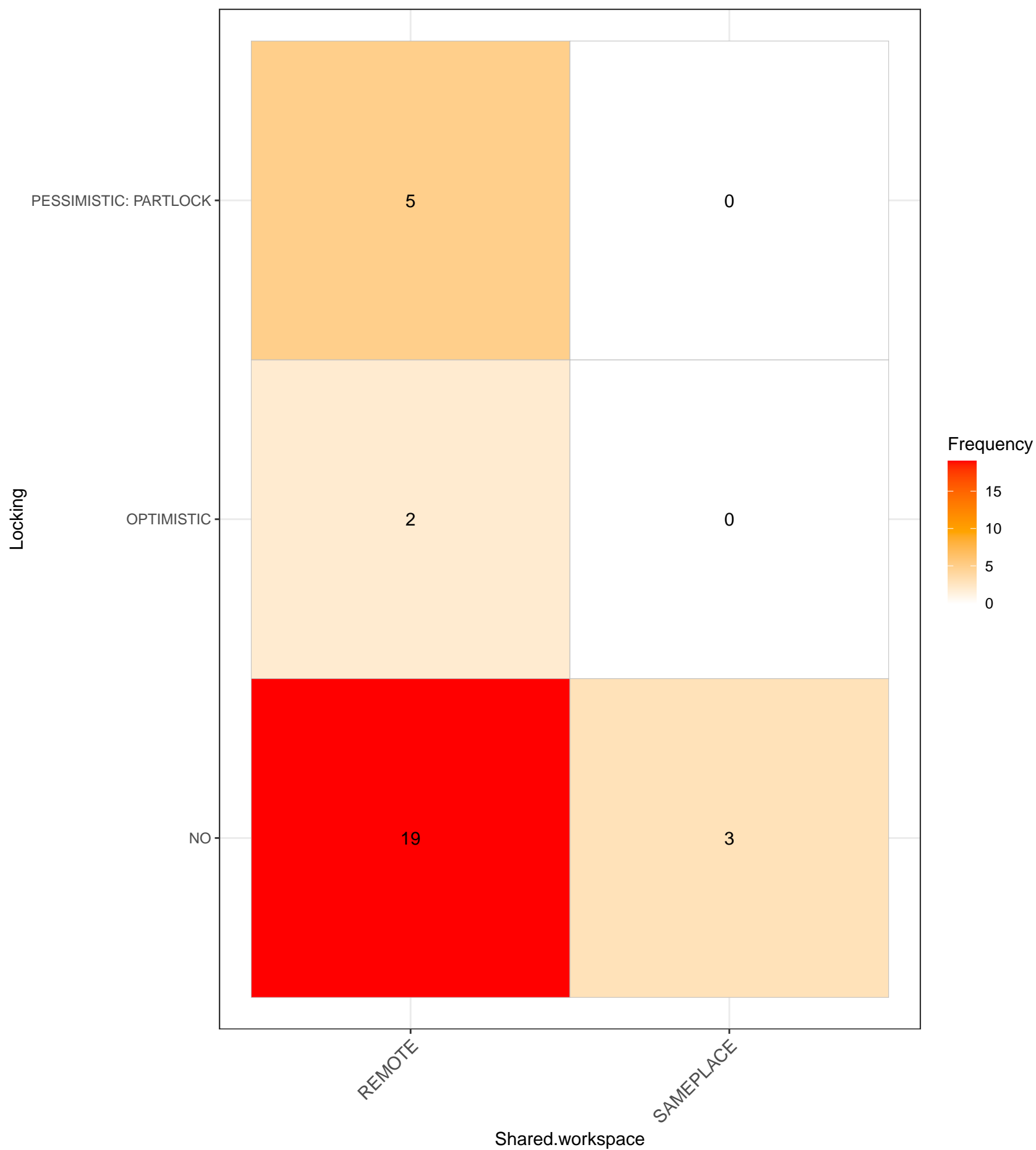
15

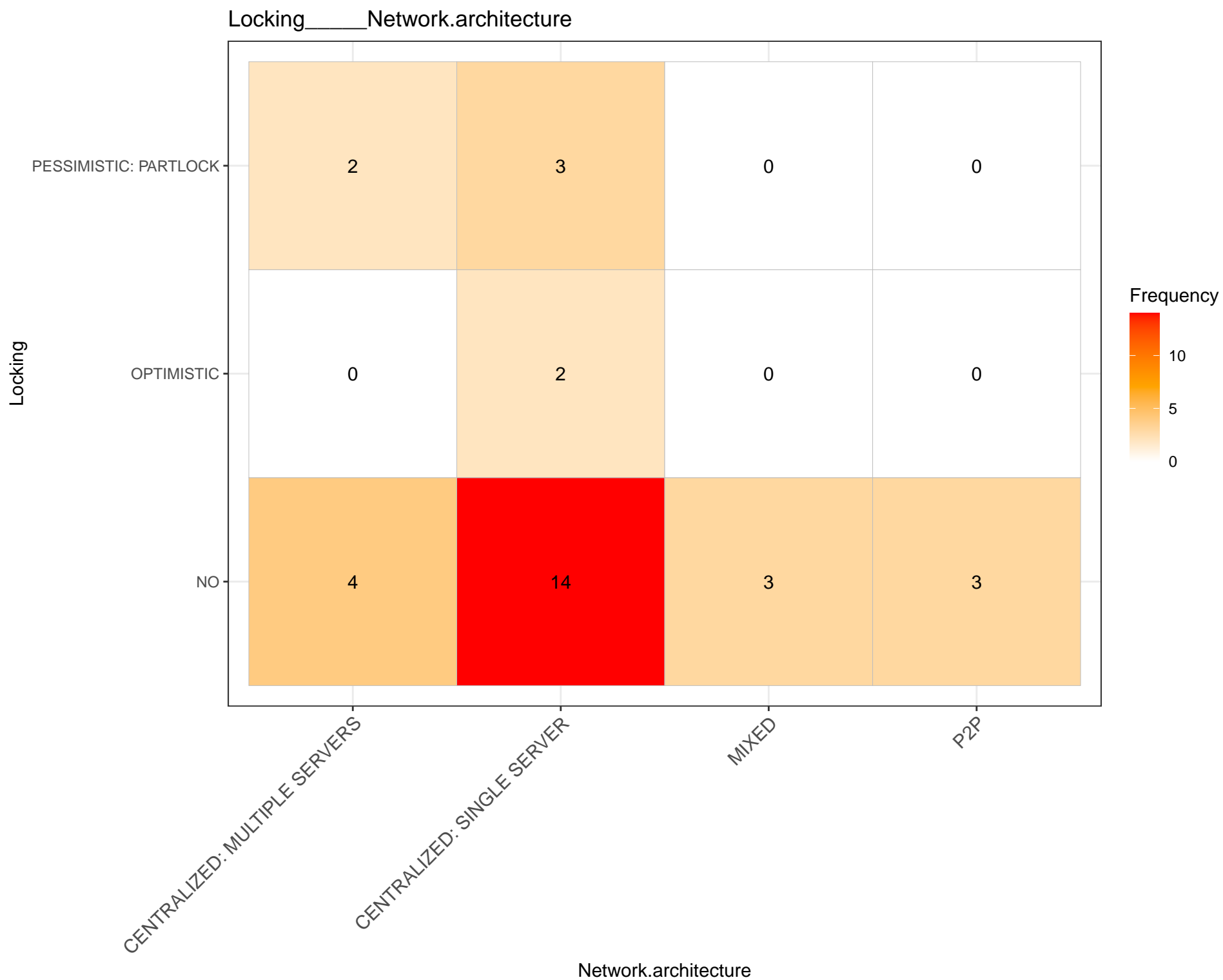
2

5

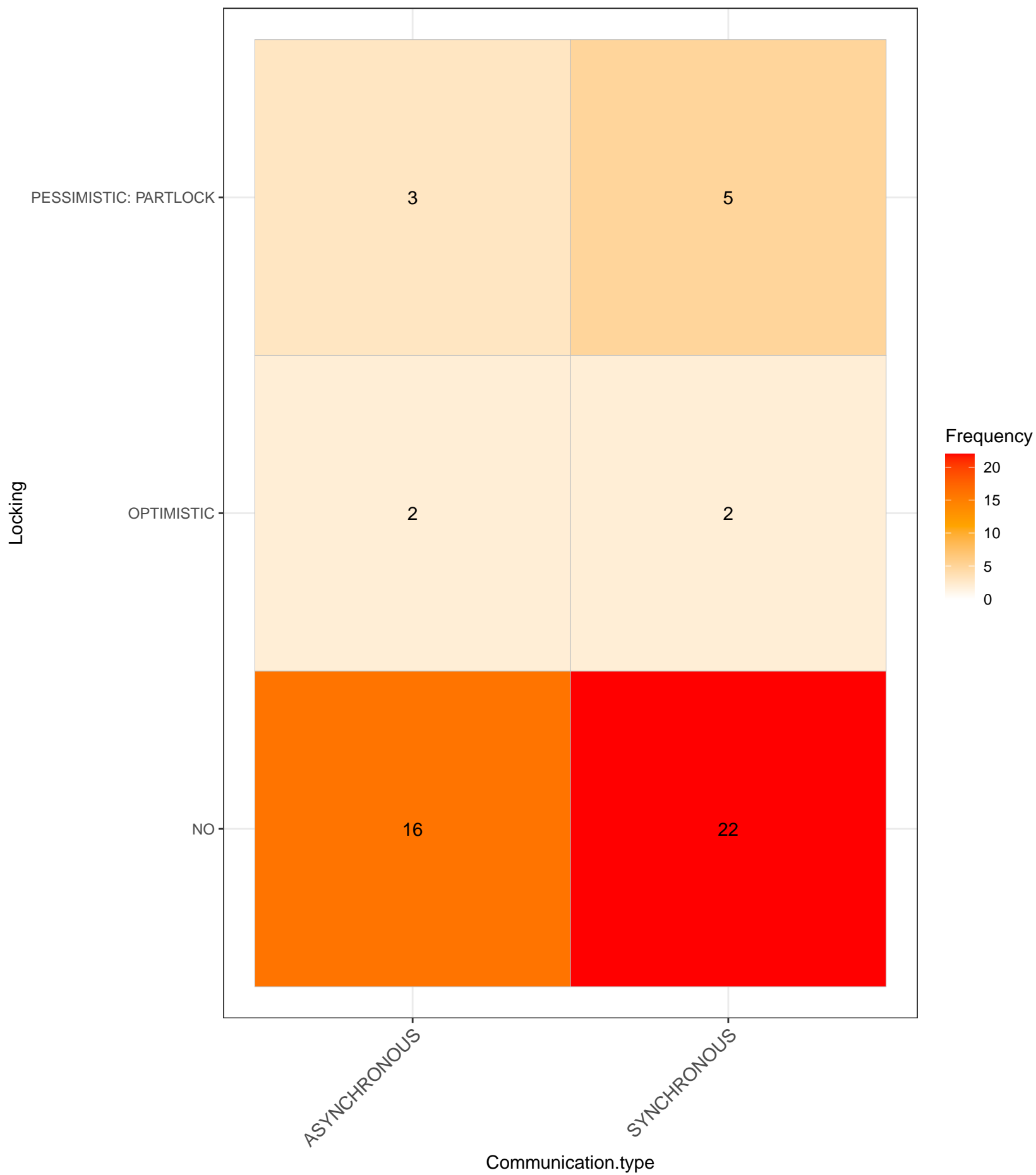


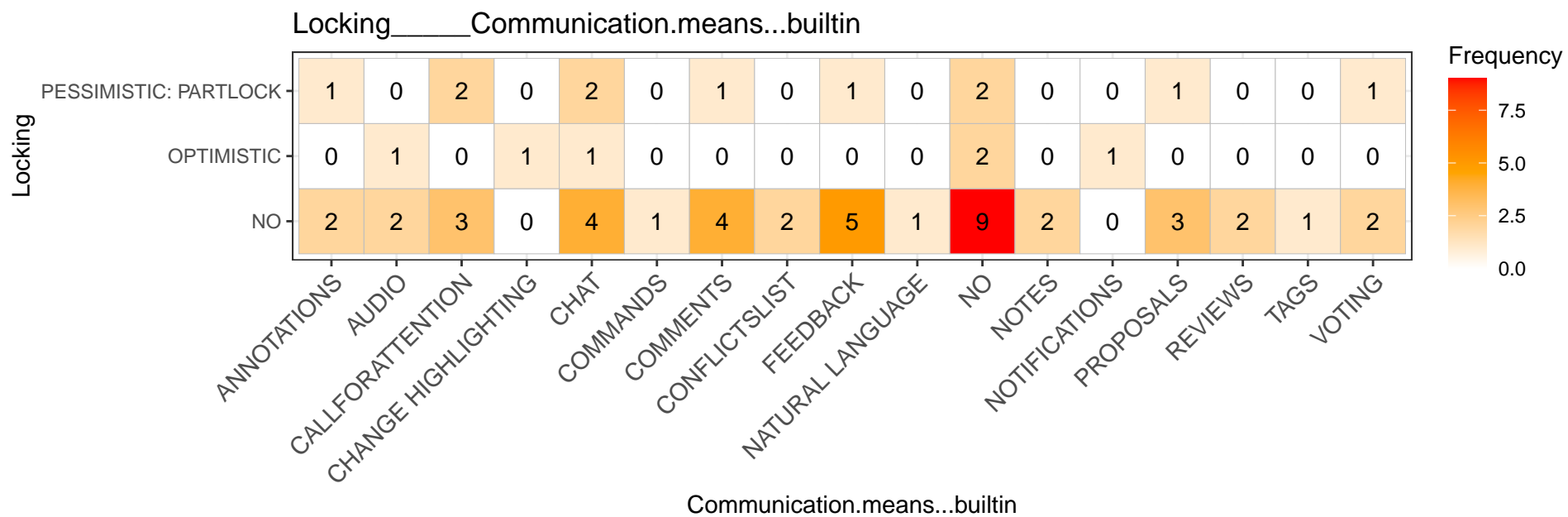
Locking Shared.workspace

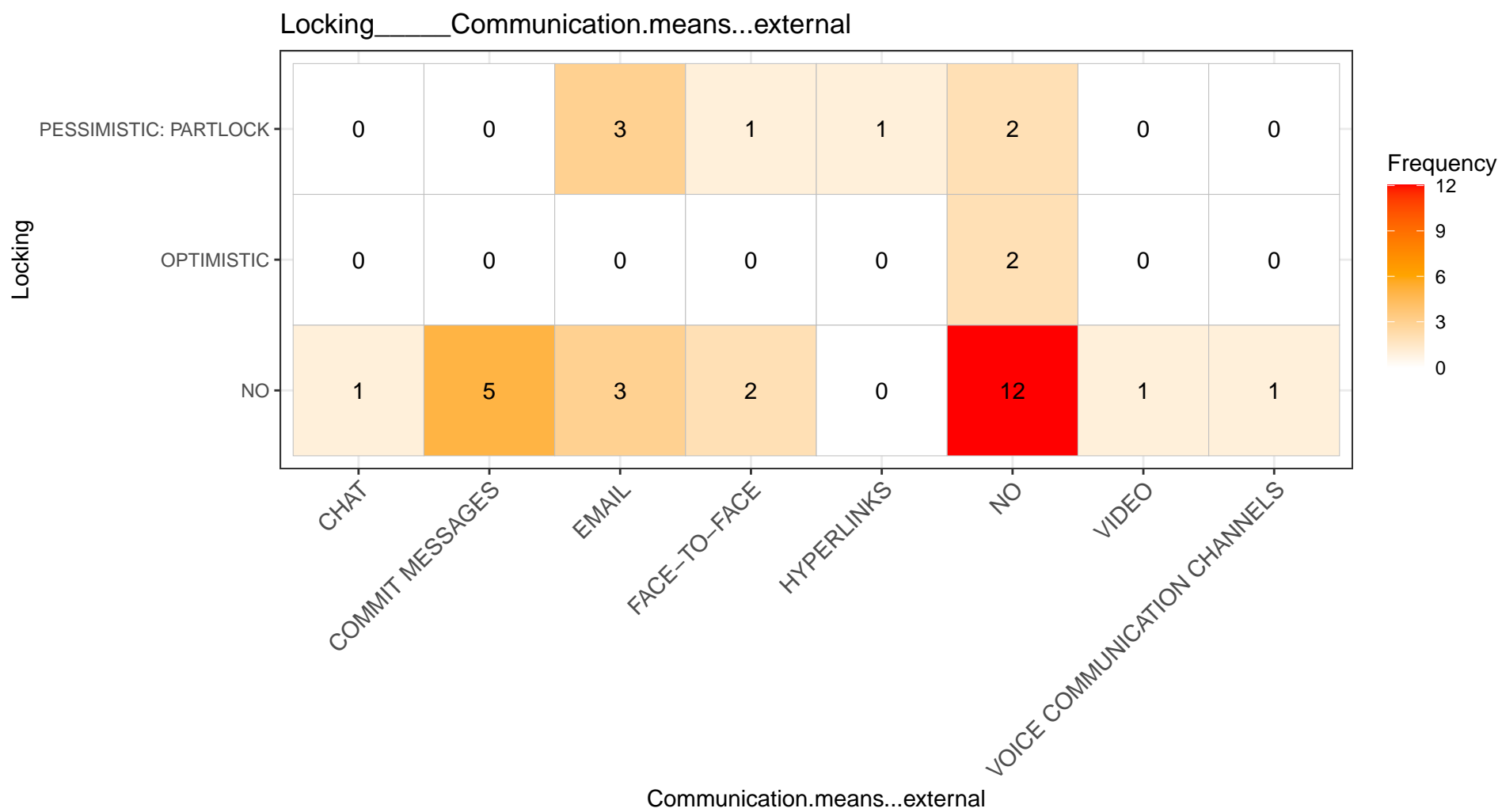


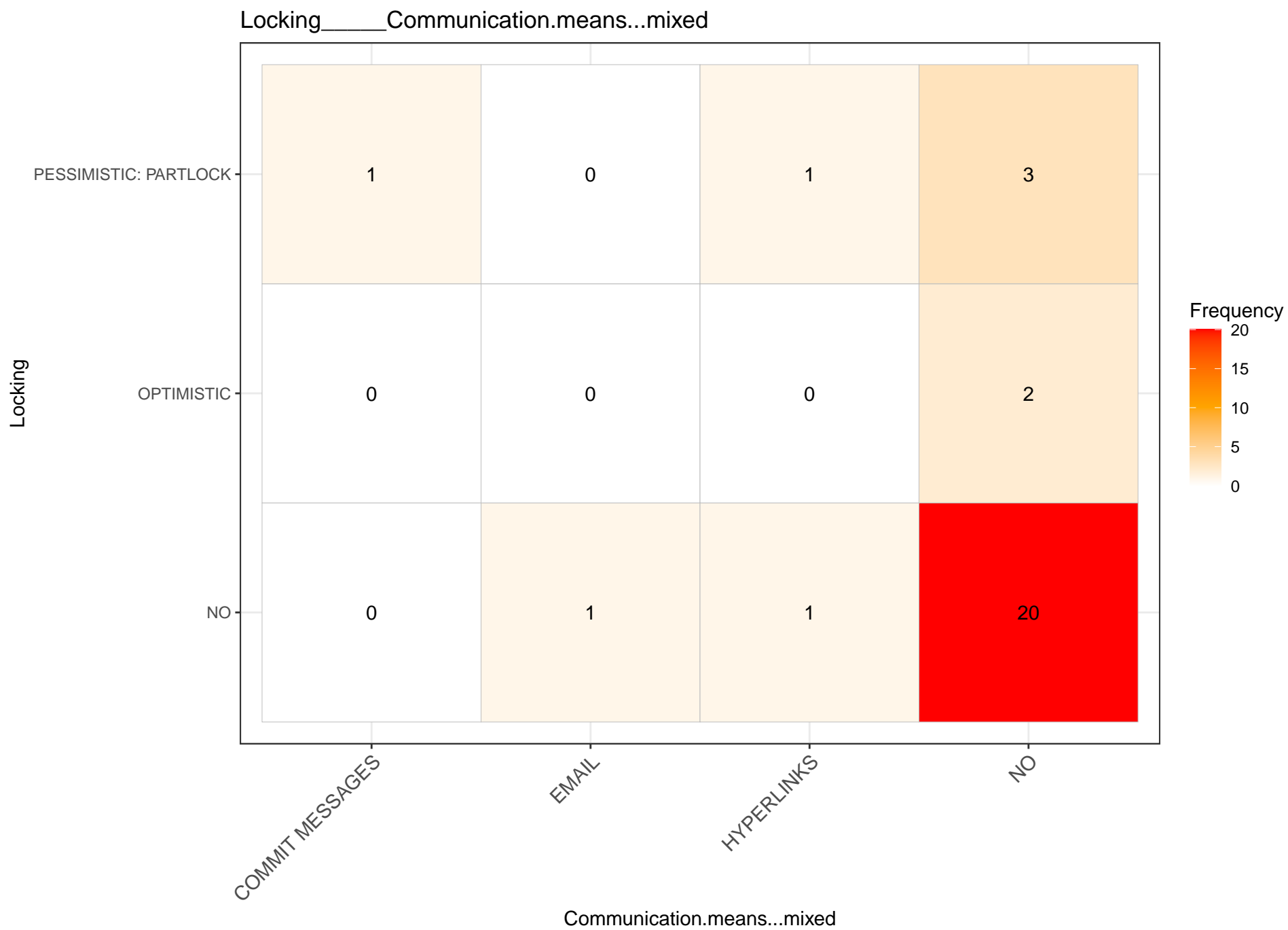


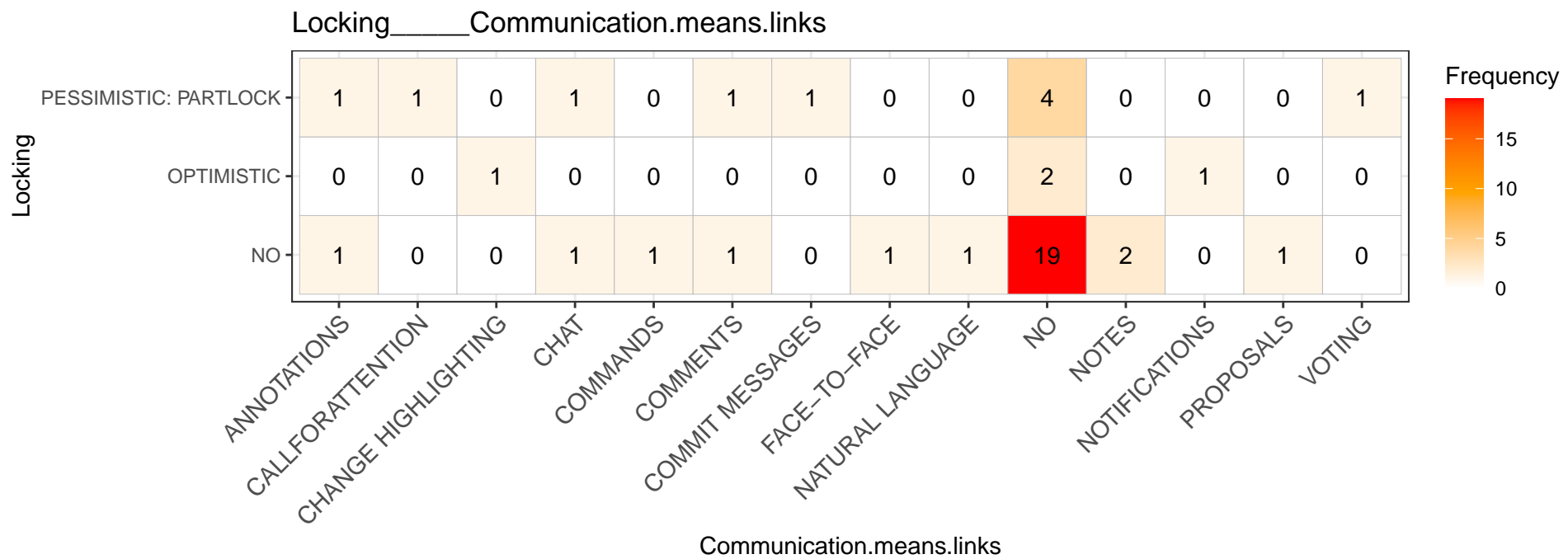
Locking_____Communication.type

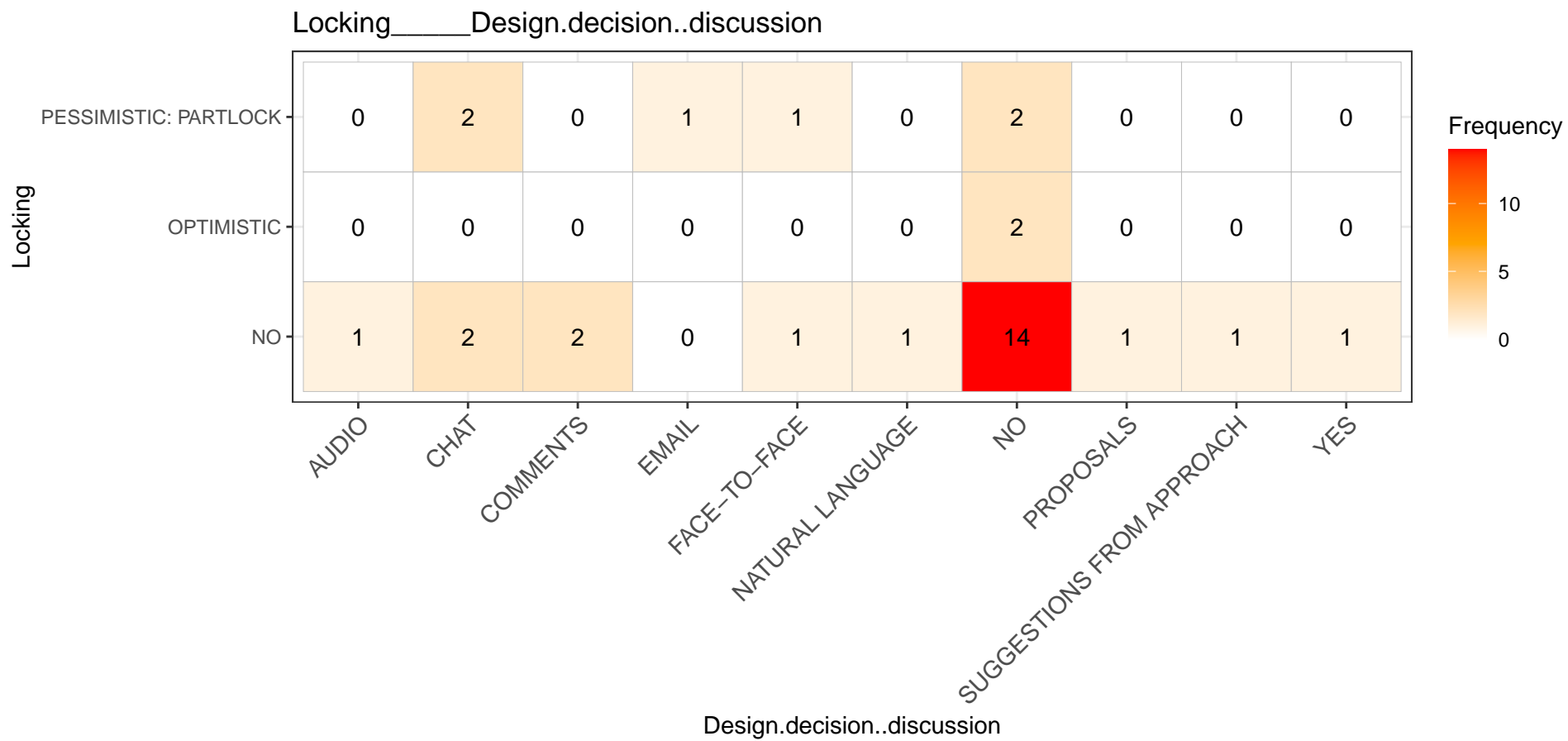


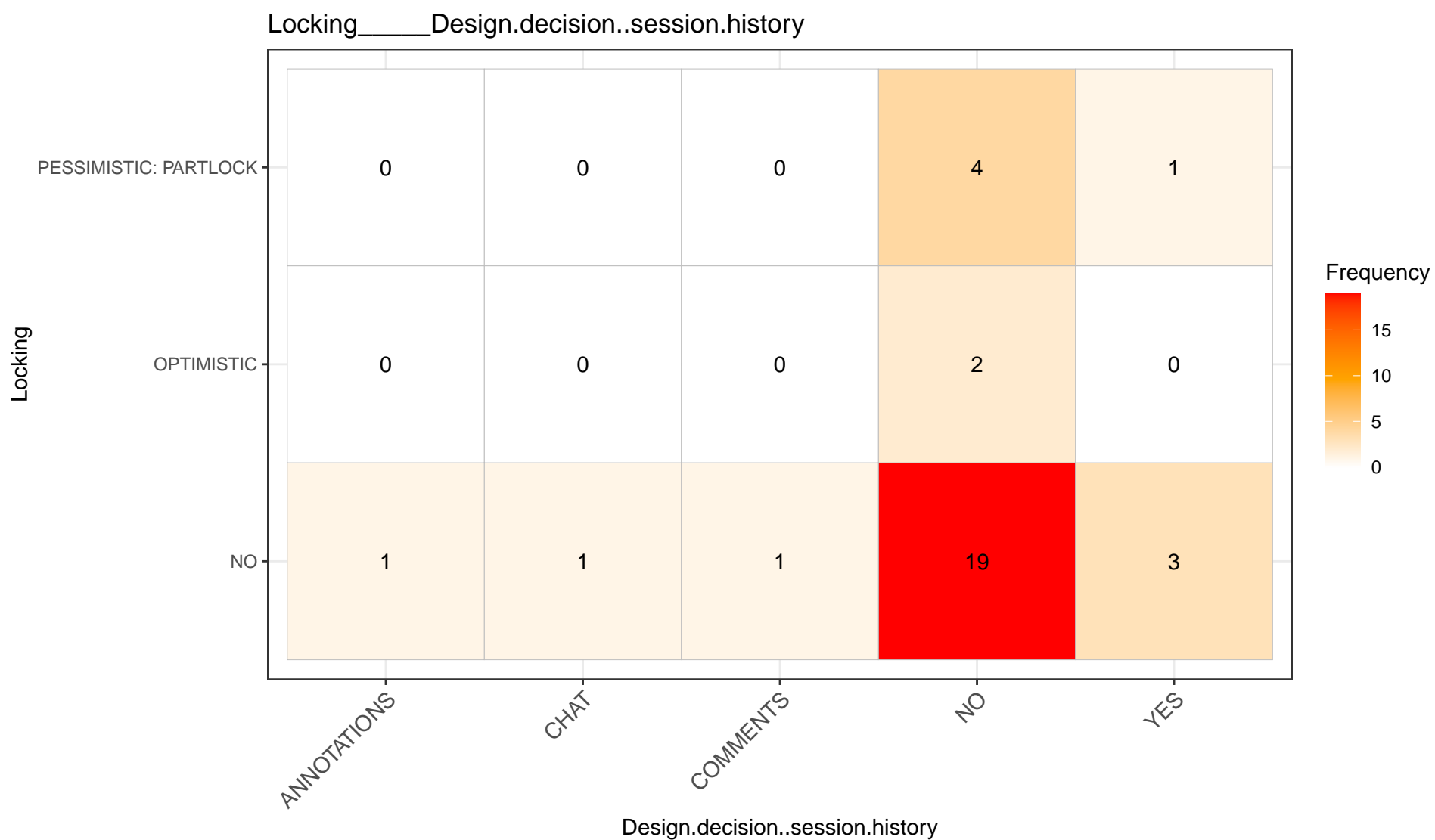












Locking_____Stakeholder.types

Locking

PESSIMISTIC: PARTLOCK

OPTIMISTIC

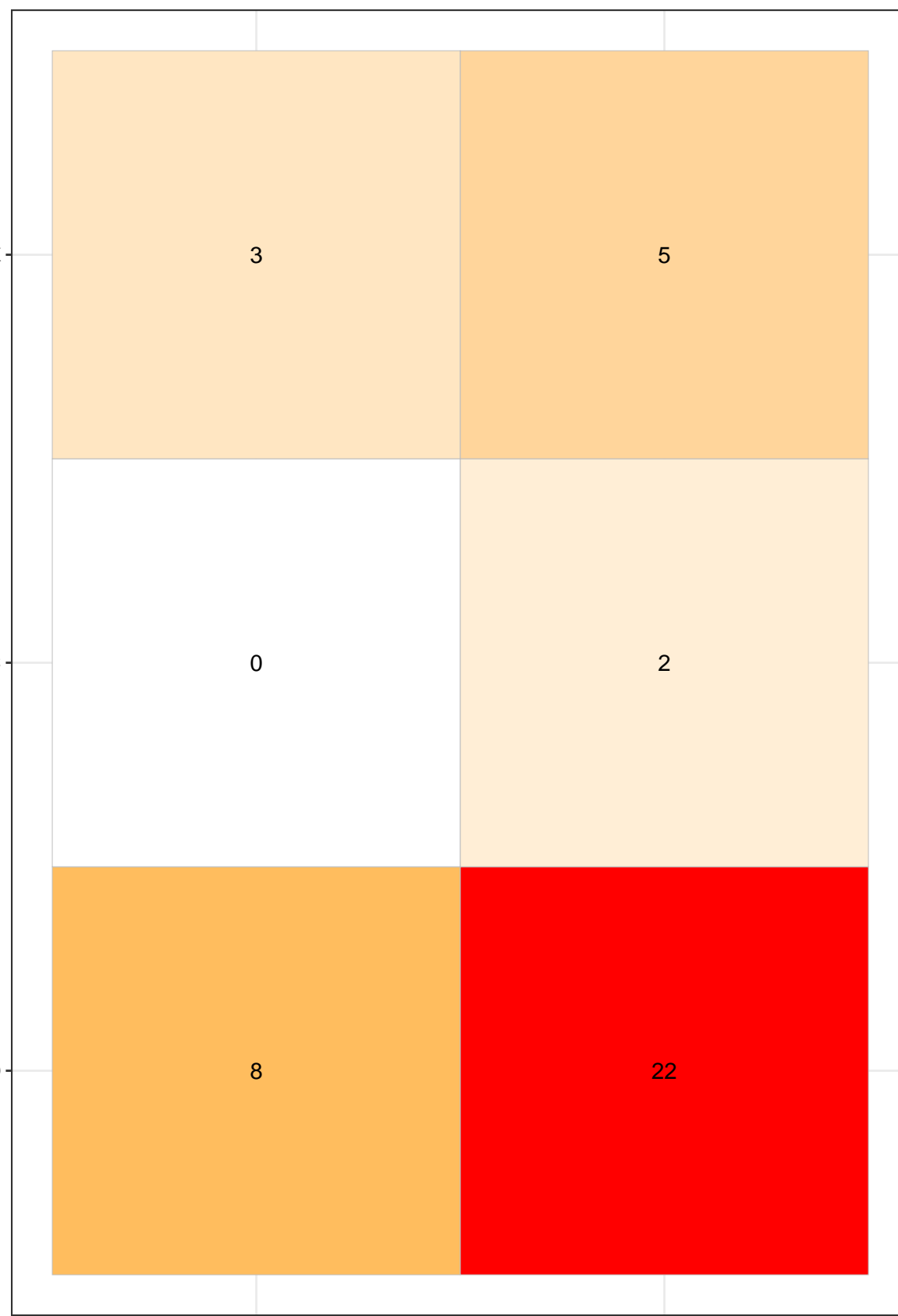
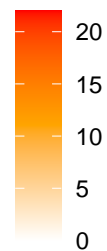
NO

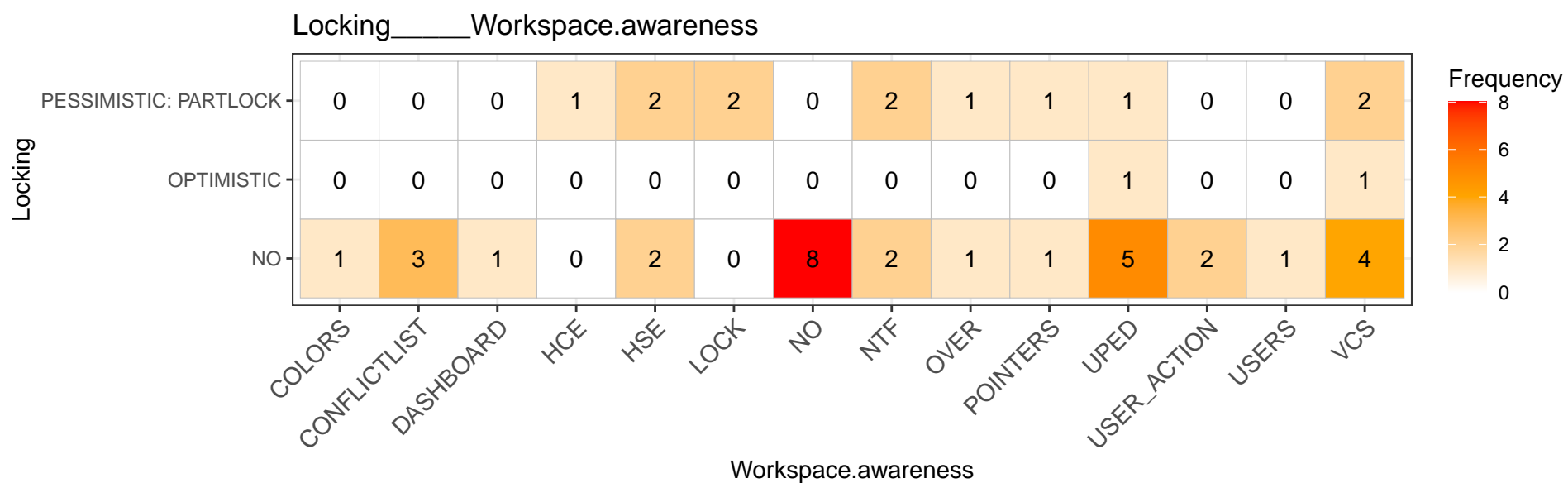
NONTECH

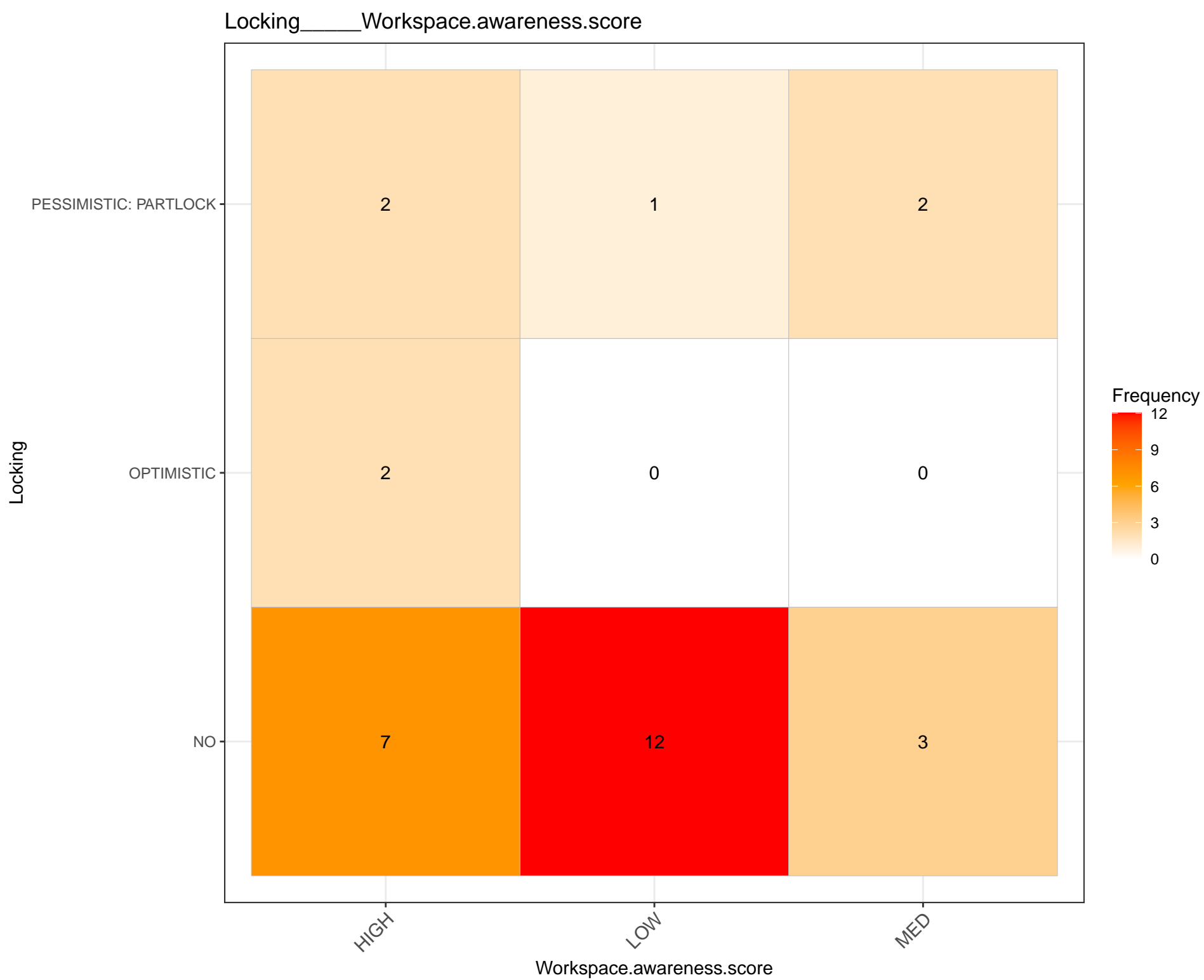
TECH

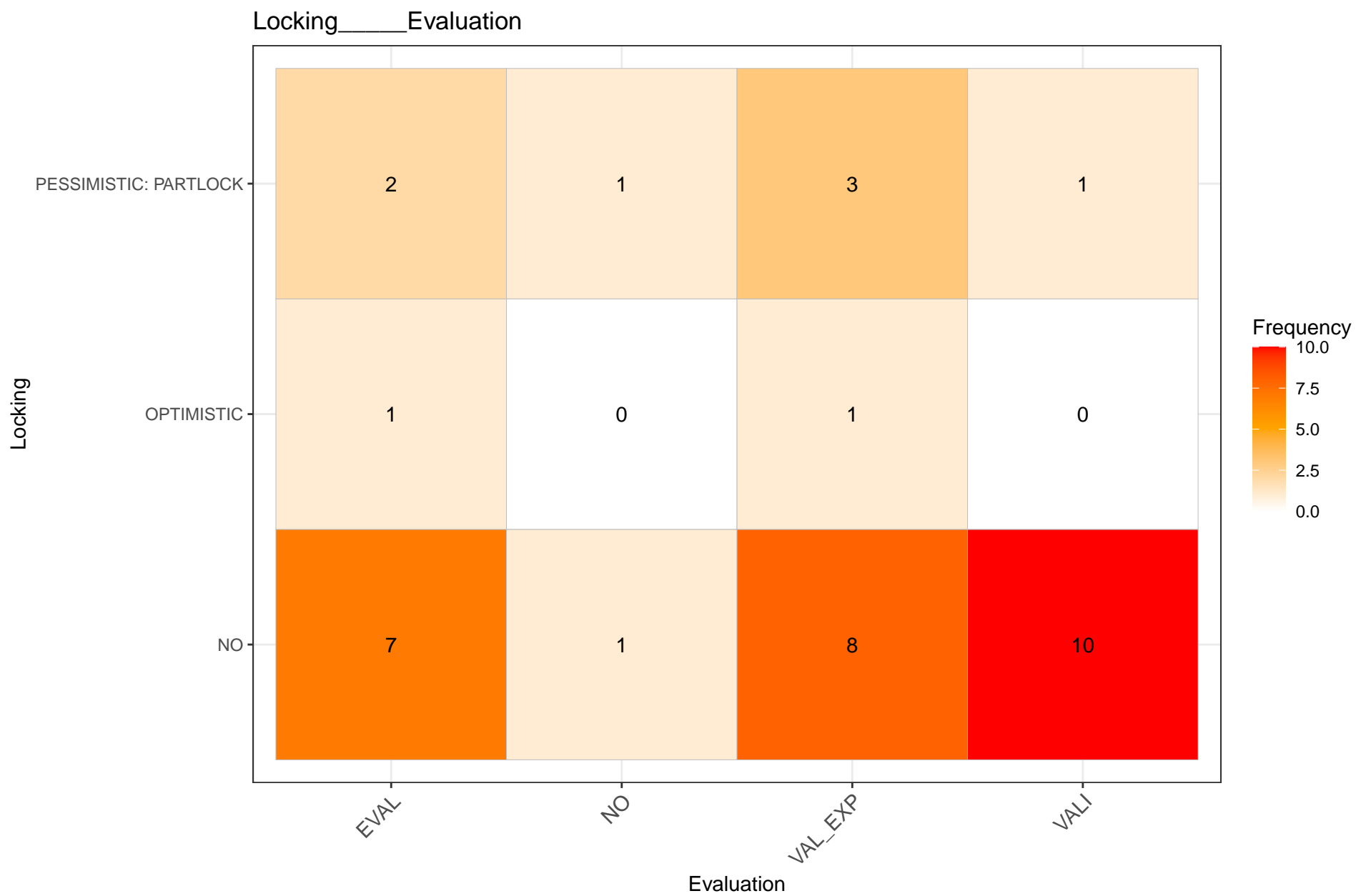
Stakeholder.types

Frequency









Locking_____Tool.availability

Locking

PESSIMISTIC: PARTLOCK

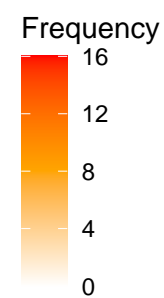
OPTIMISTIC

NO

NO

YES

Tool.availability



1

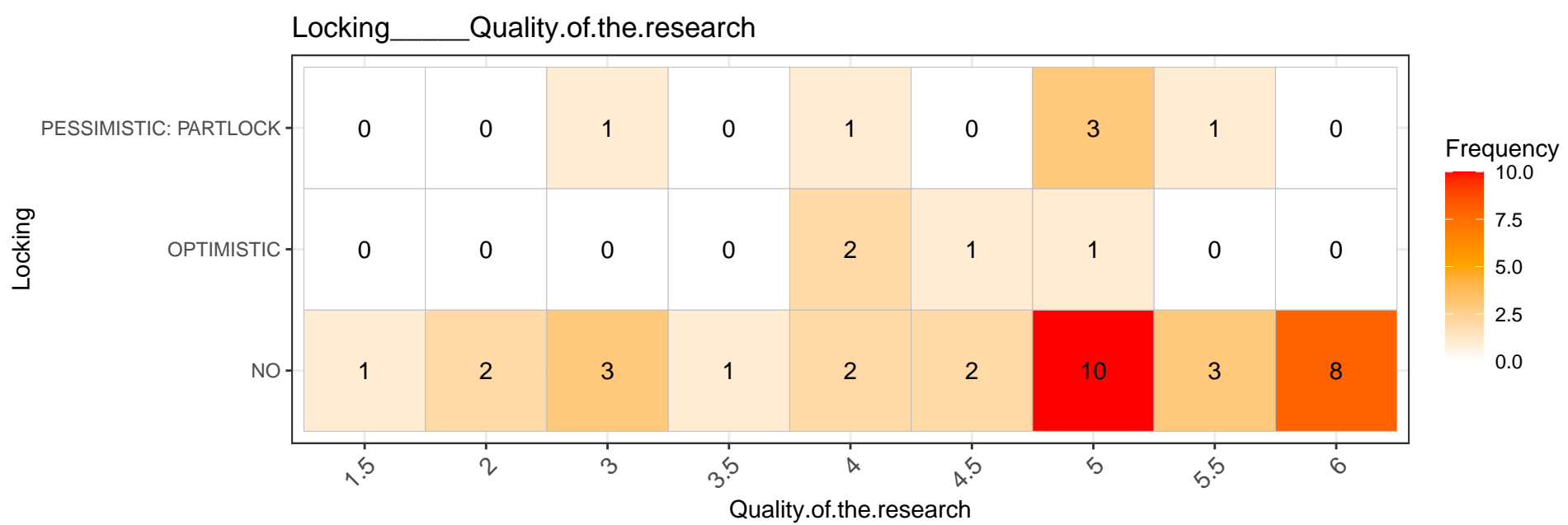
4

0

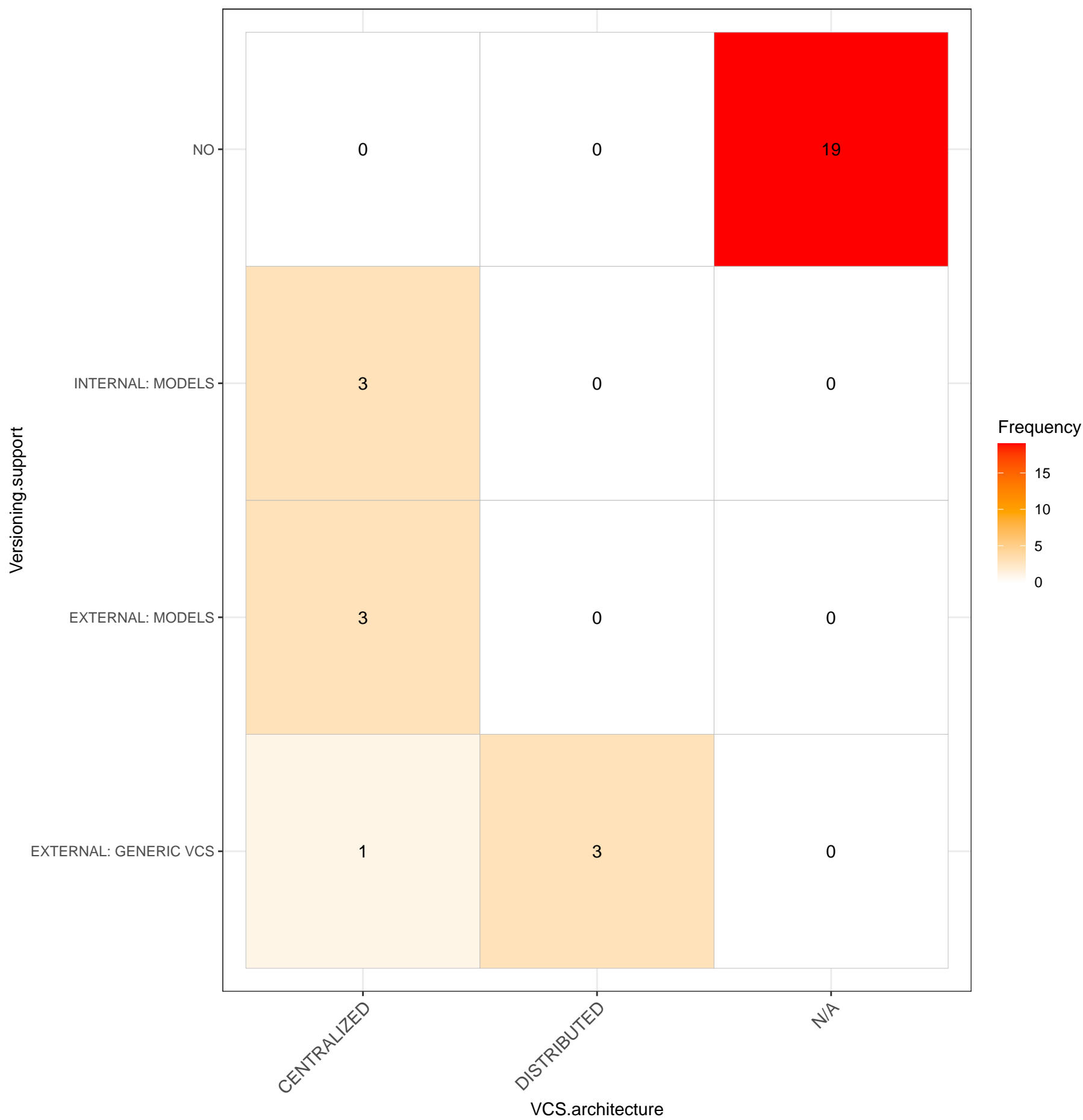
2

6

16



Versioning.support_____VCS.architecture



Versioning.support_____External.VCS.means

Versioning.support

NO

0

0

19

0

INTERNAL: MODELS

0

0

3

0

EXTERNAL: MODELS

1

1

1

1

EXTERNAL: GENERIC VCS

0

4

0

2

CUSTOM MODEL REPO

GIT

N/A

SVN

External.VCS.means

Frequency



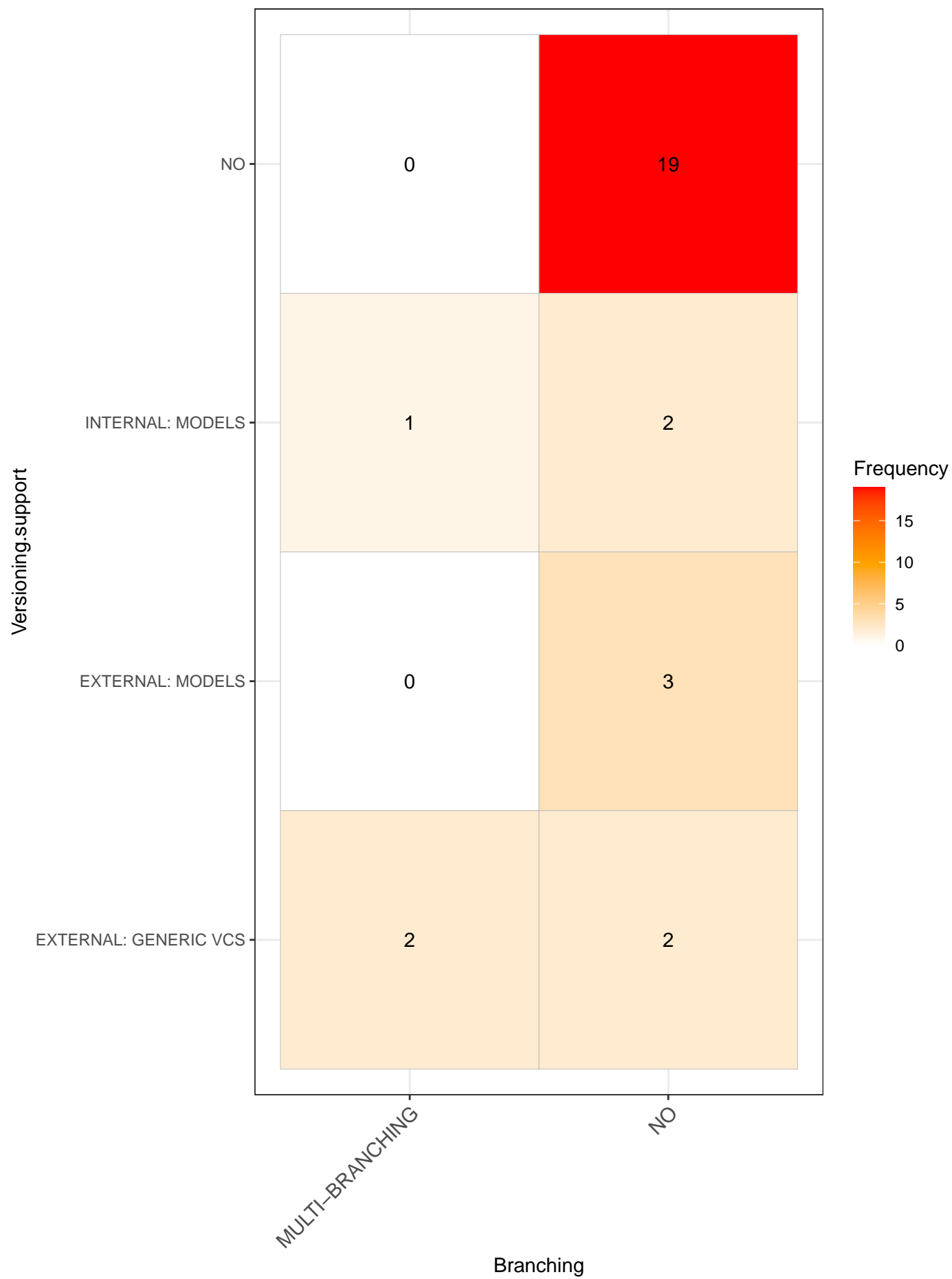
15

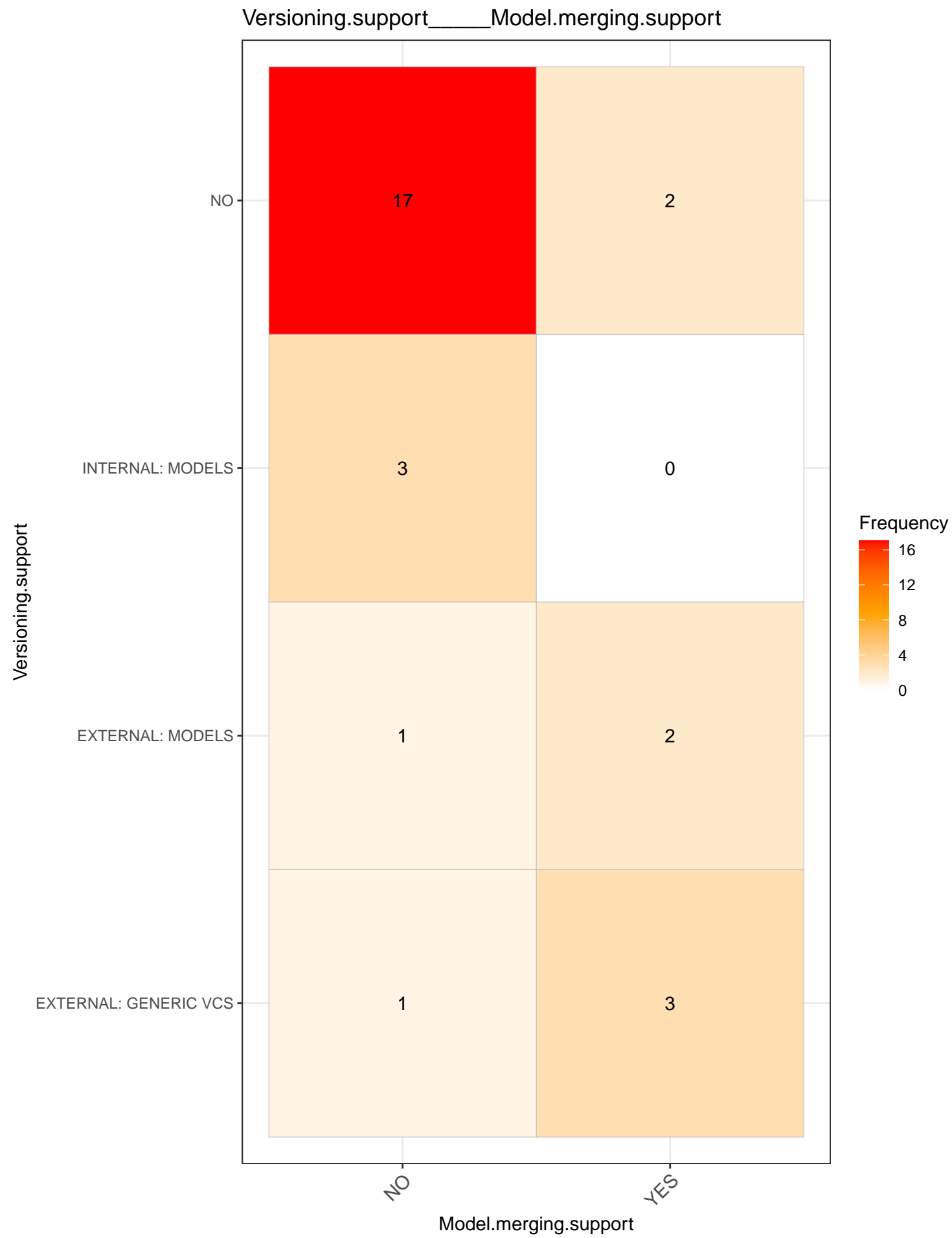
10

5

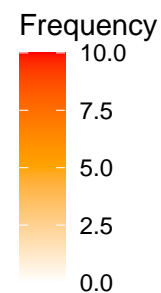
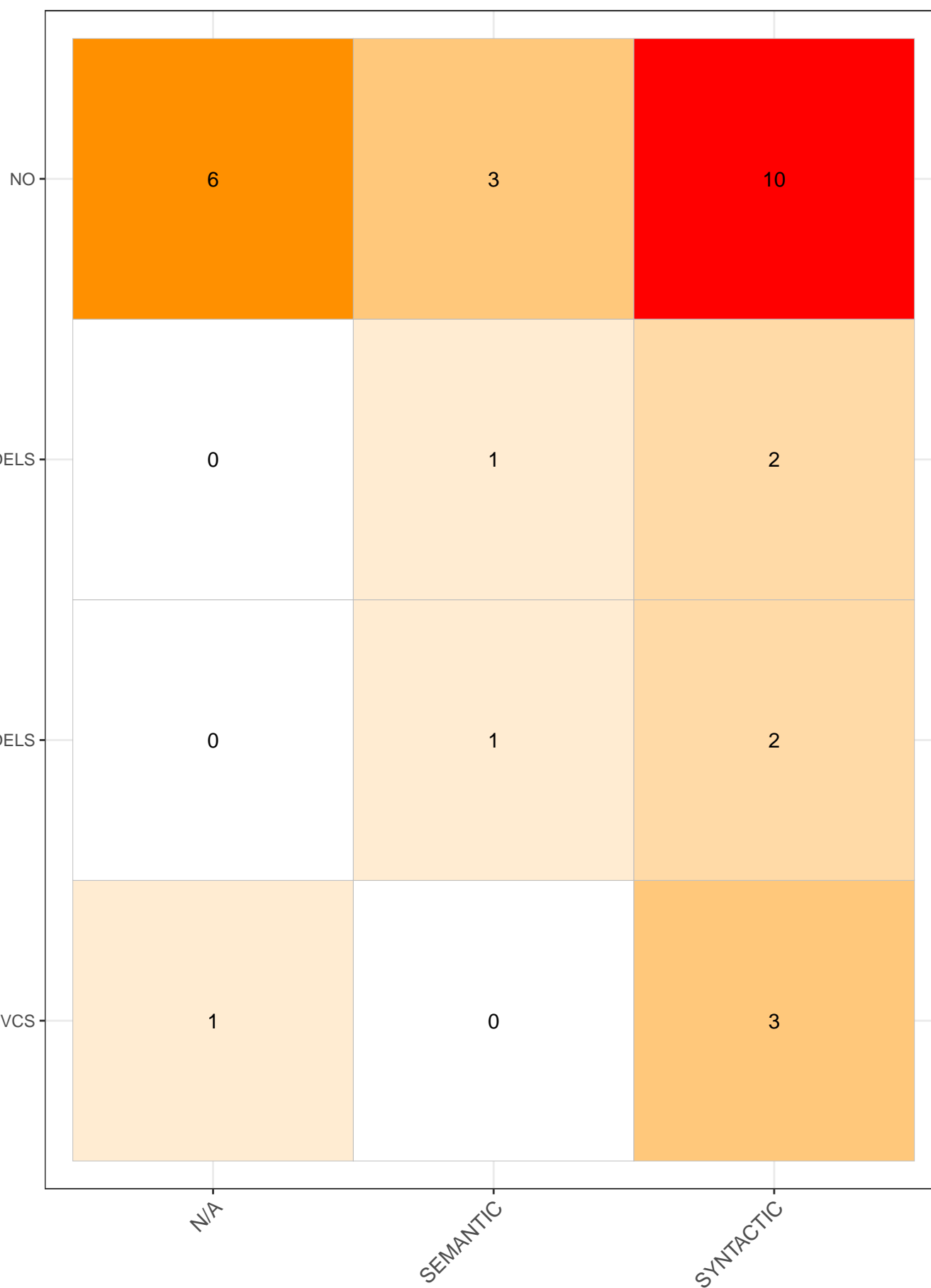
0

Versioning.support_____Branching





Versioning.support_____Diff.merge.domain



Versioning.support

EXTERNAL: GENERIC VCS

EXTERNAL: MODELS

INTERNAL: MODELS

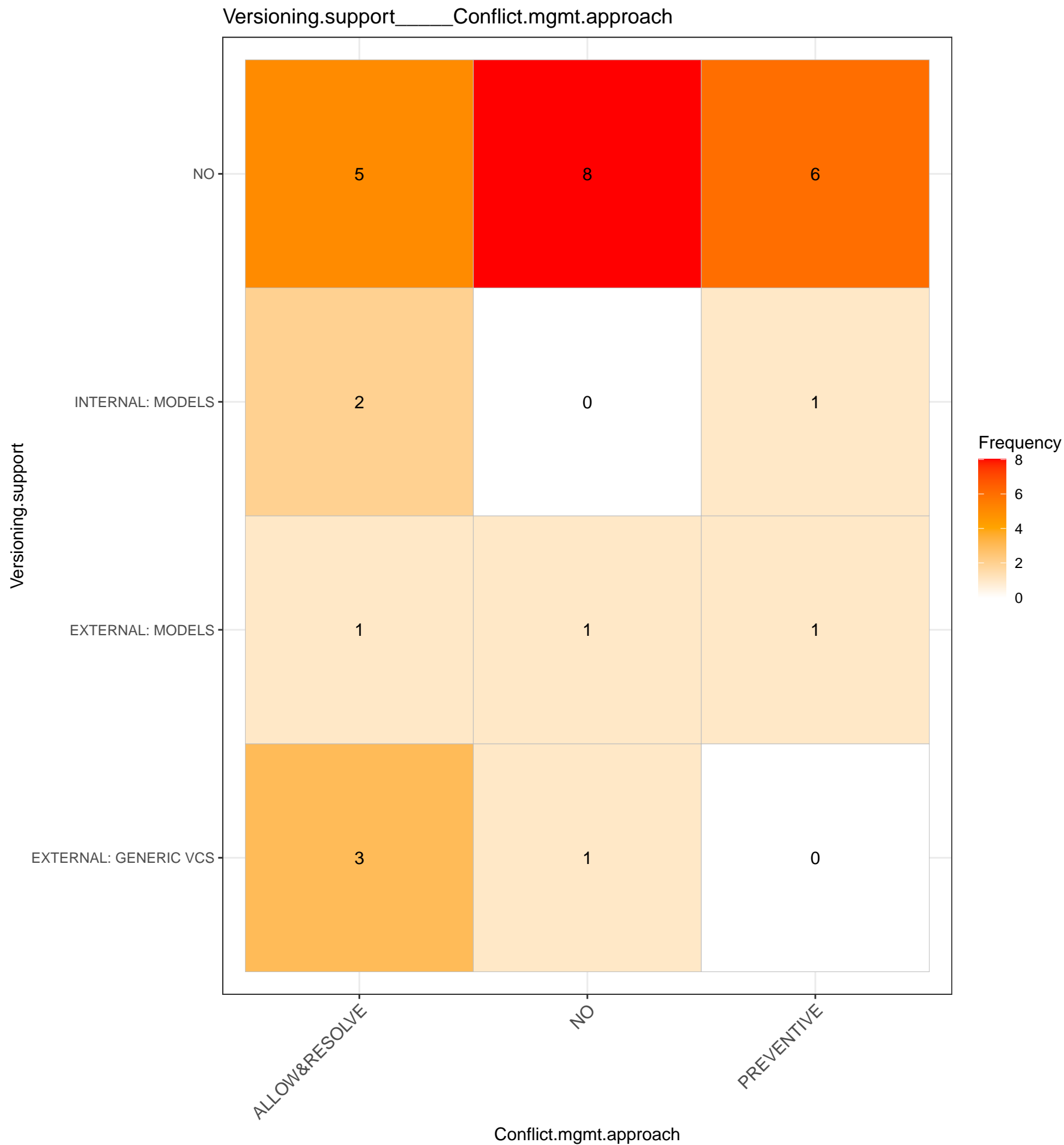
NO

N/A

SEMANTIC

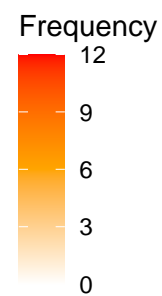
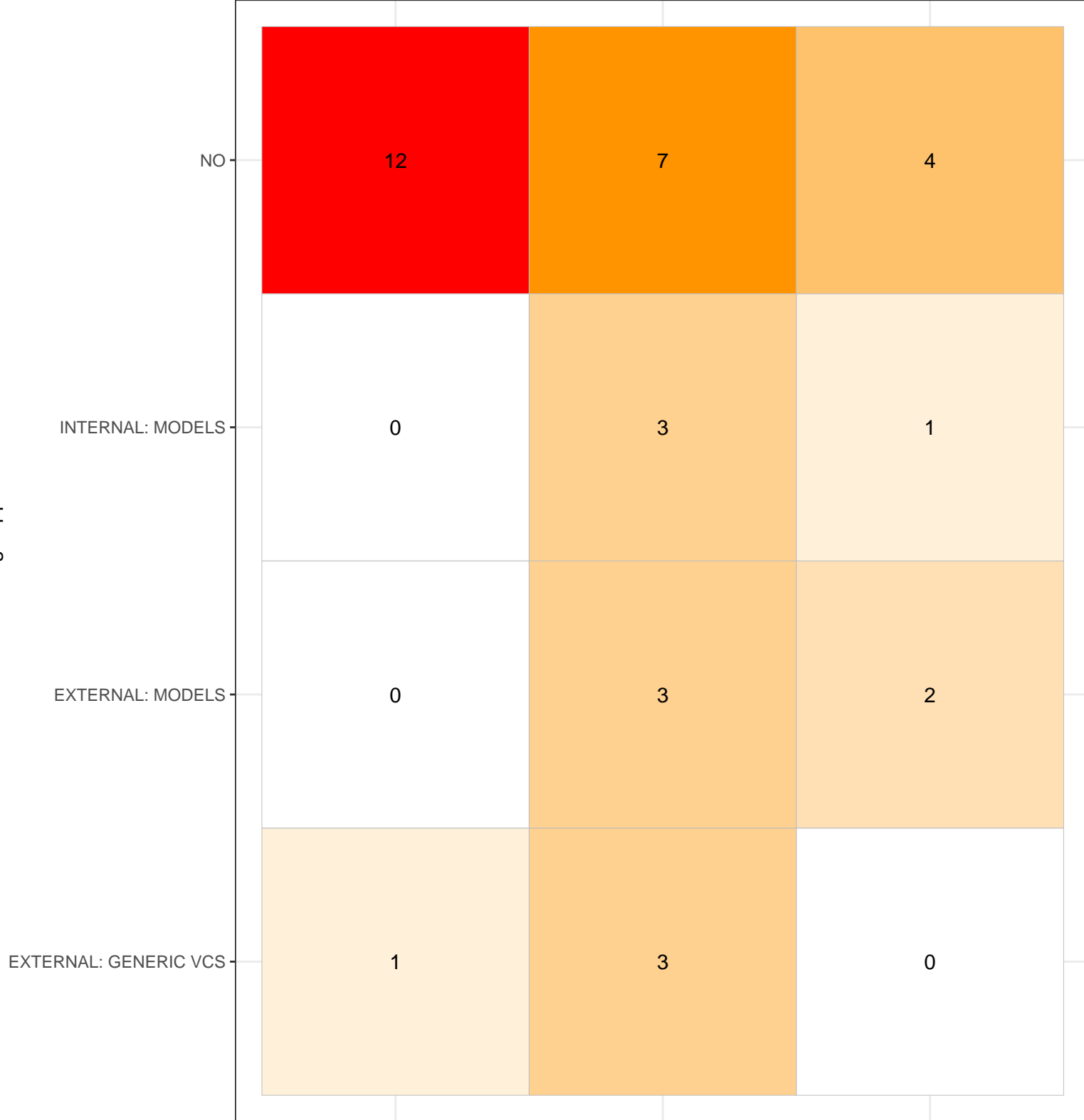
SYNTACTIC

Diff.merge.domain



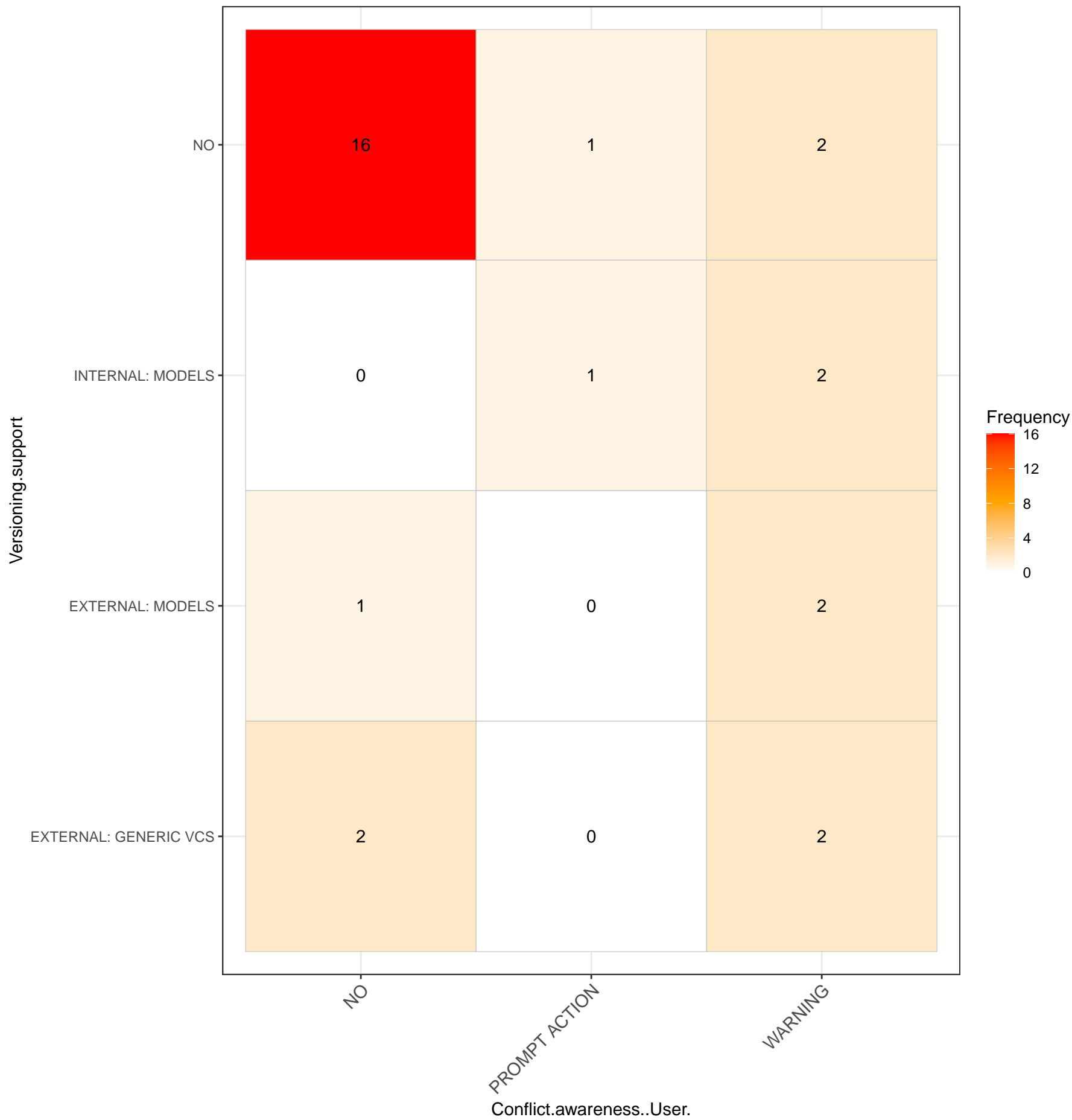
Versioning.support_____Conflict.detection

Versioning.support

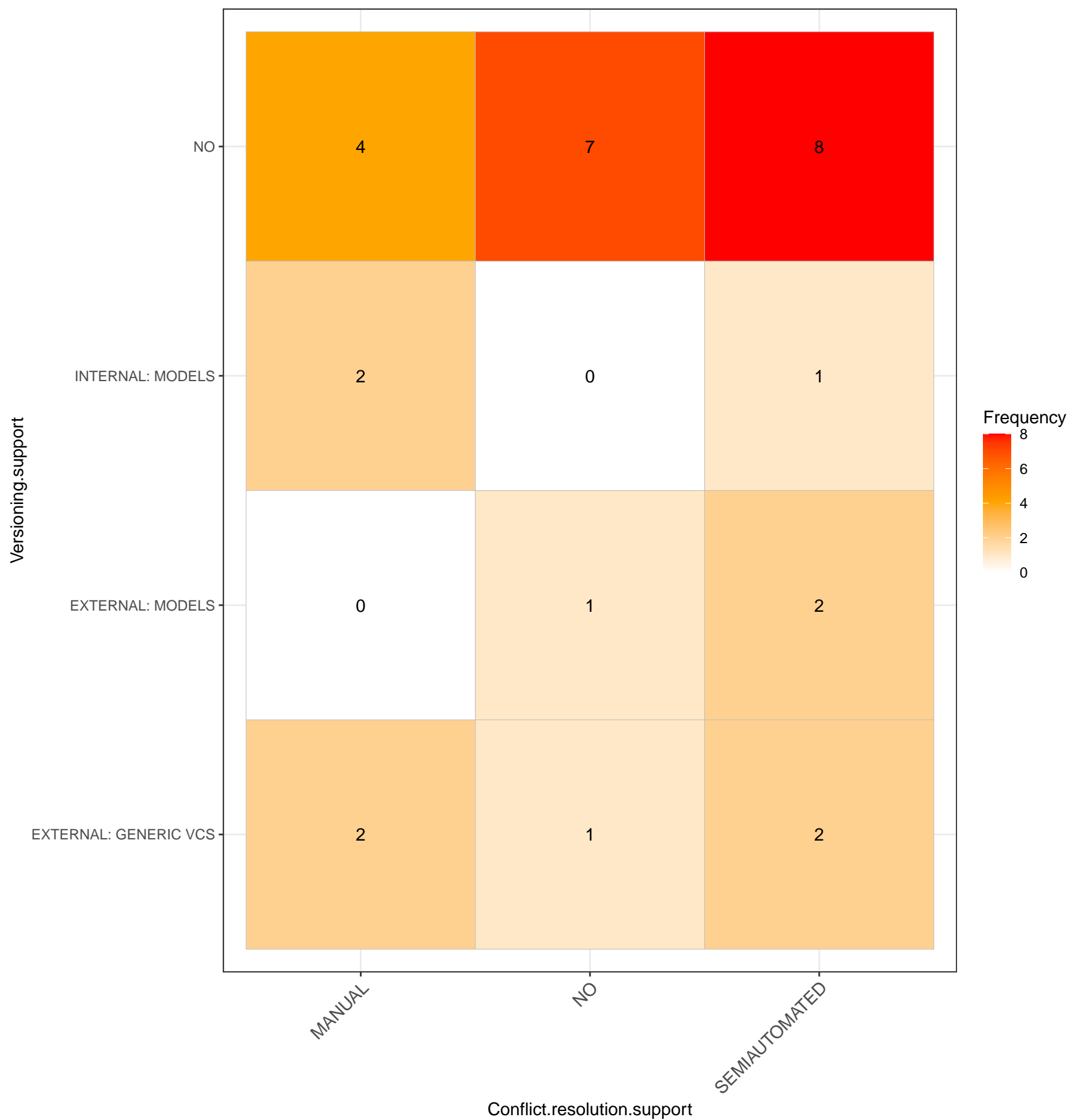


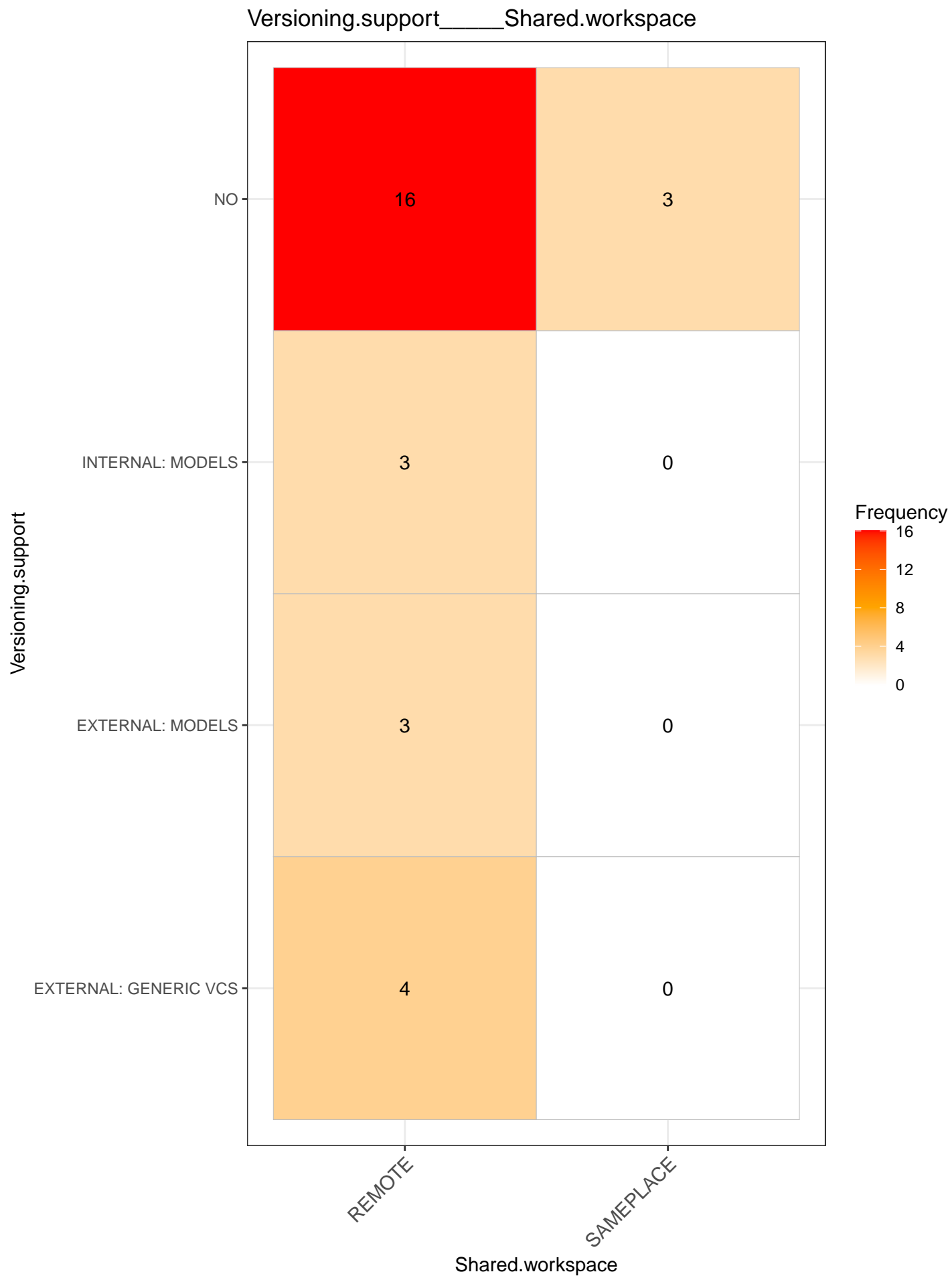
Conflict.detection

Versioning.support_____Conflict.awareness..User.



Versioning.support_____Conflict.resolution.support





Versioning.support____Network.architecture

Versioning.support

INTERNAL: MODELS

EXTERNAL: MODELS

EXTERNAL: GENERIC VCS

NO

3

12

3

2

0

3

0

0

2

1

0

0

1

3

0

1

Frequency

12

9

6

3

0

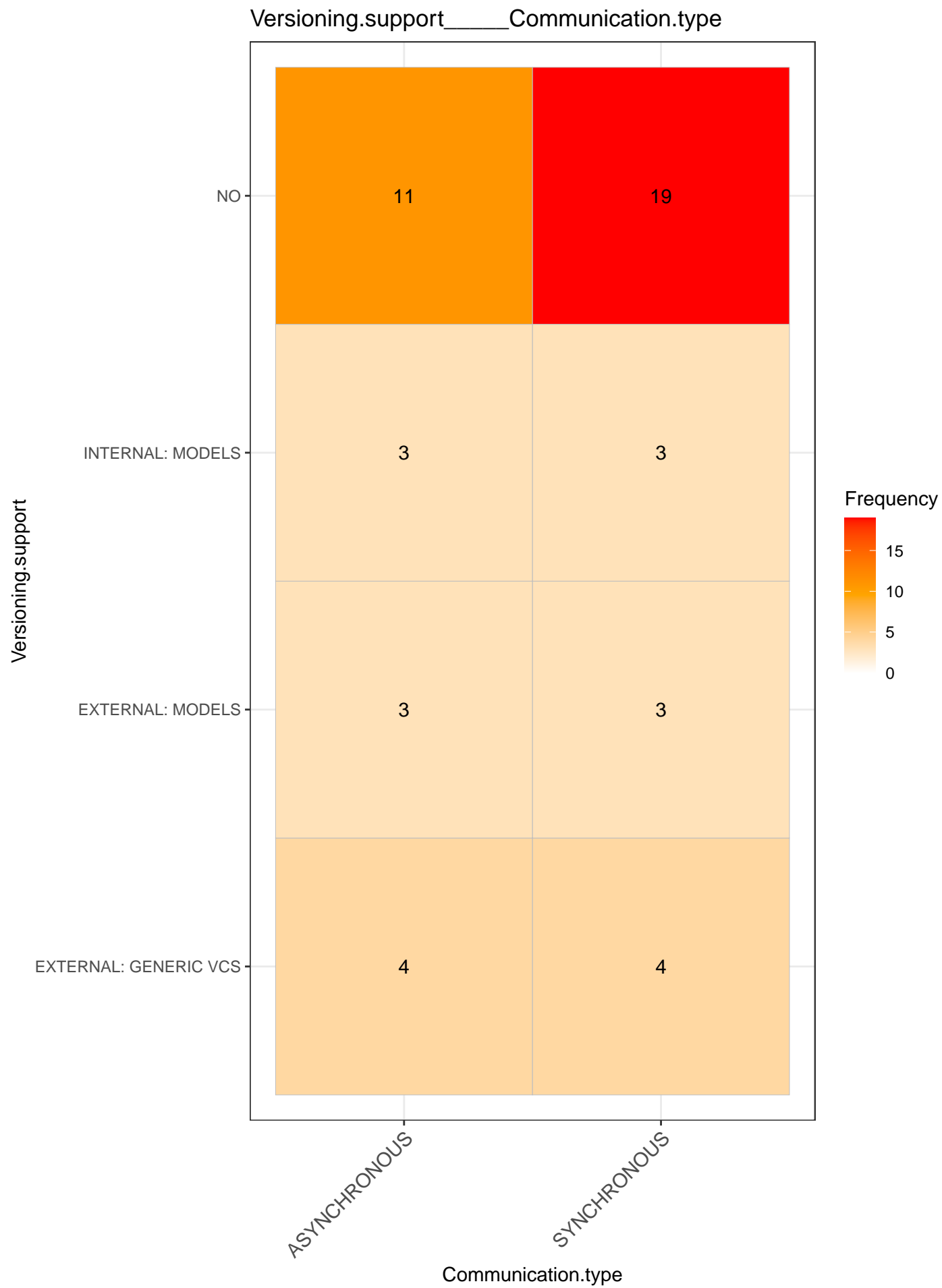
CENTRALIZED: MULTIPLE SERVERS

CENTRALIZED: SINGLE SERVER

MIXED

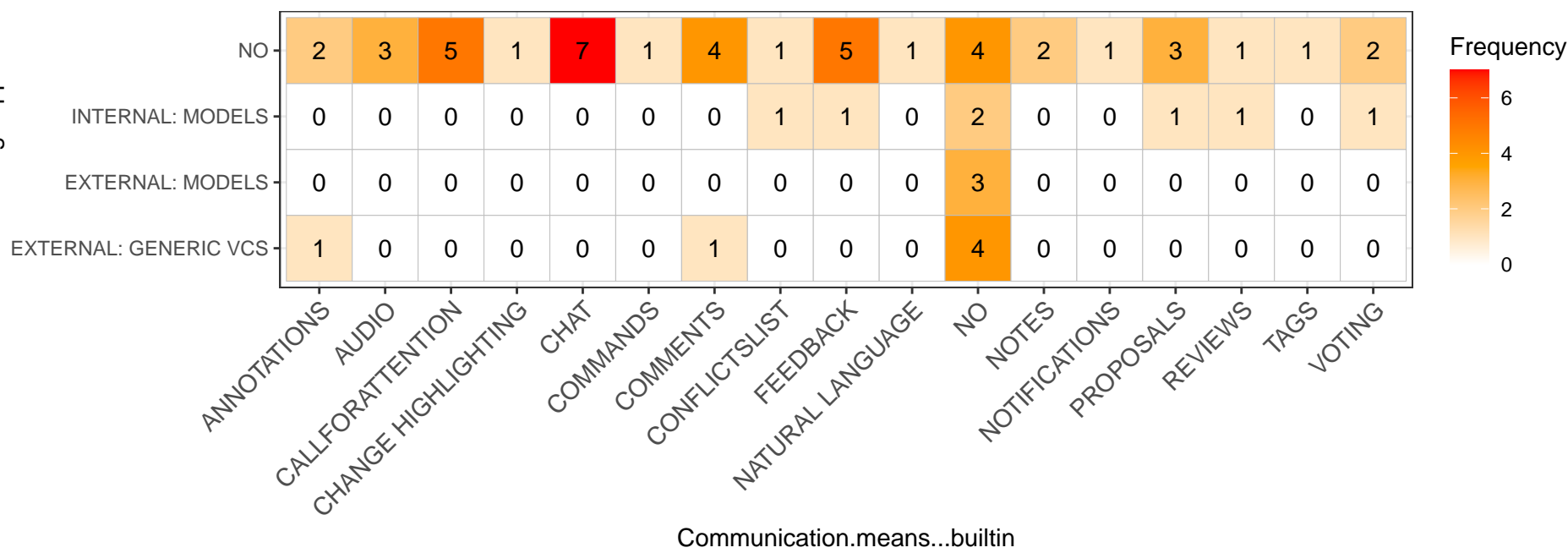
P2P

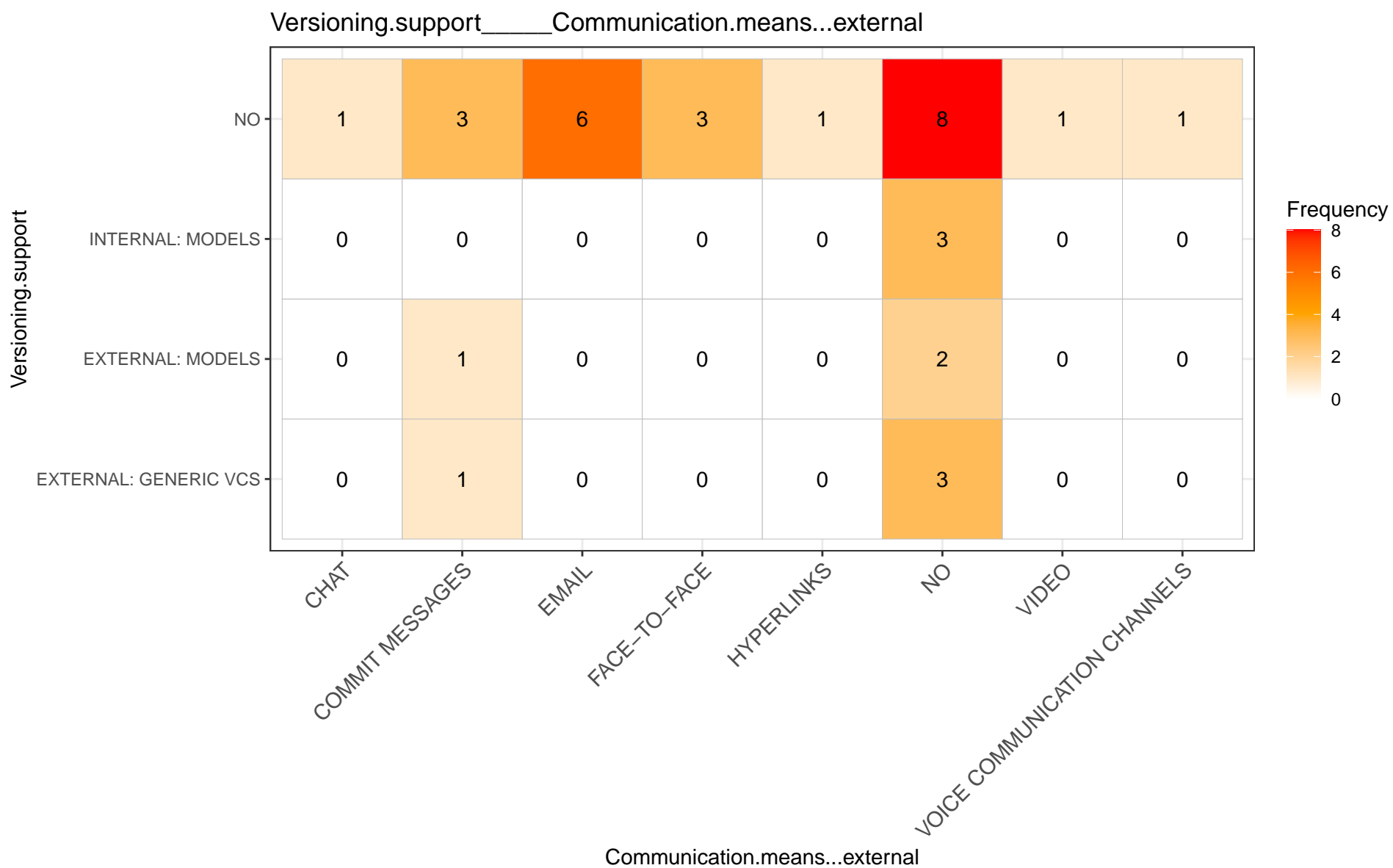
Network.architecture

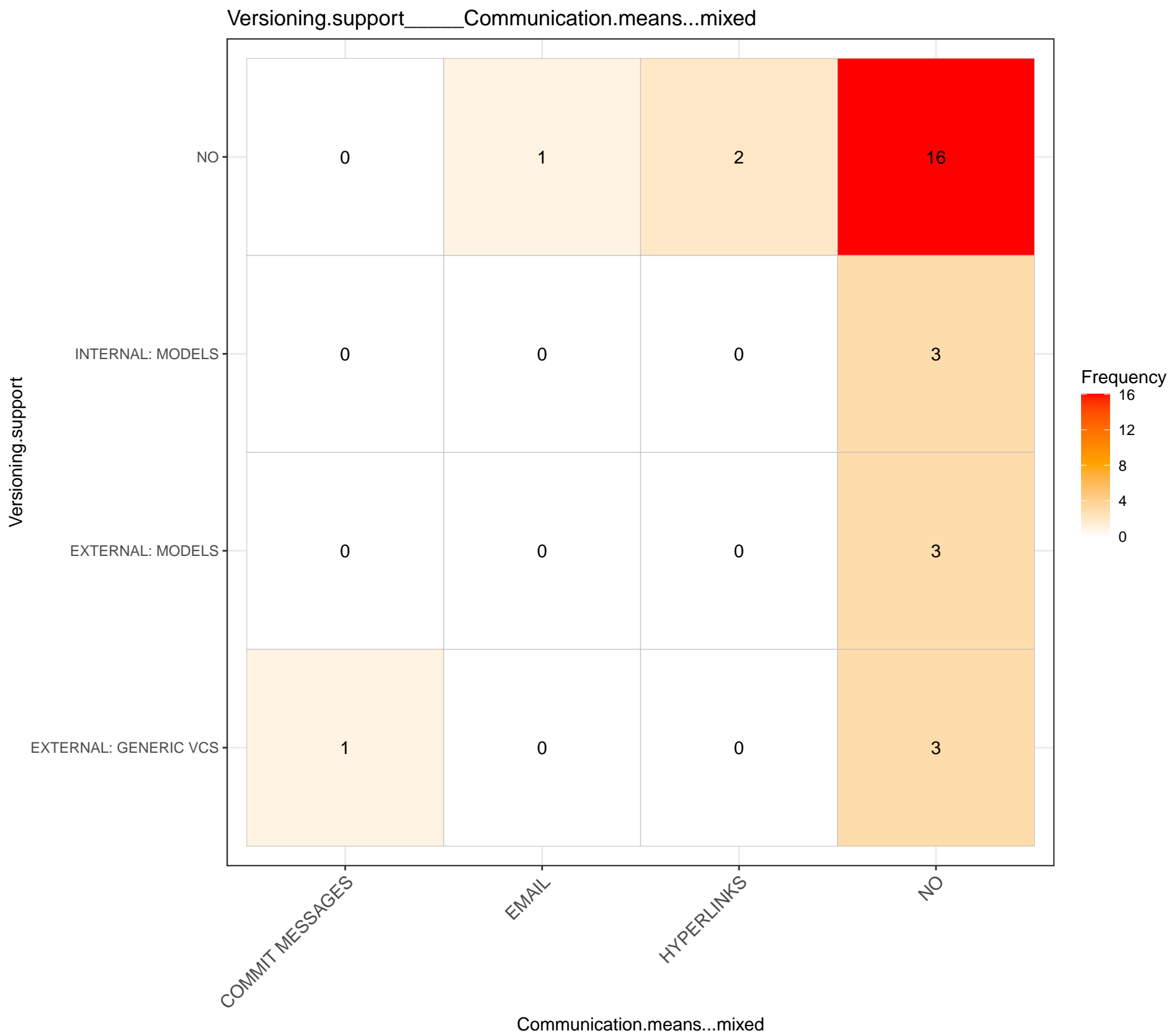


Versioning.support

Versioning.support_____Communication.means...builtin



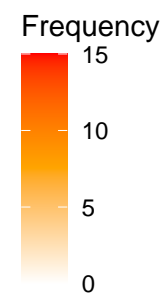




Versioning.support

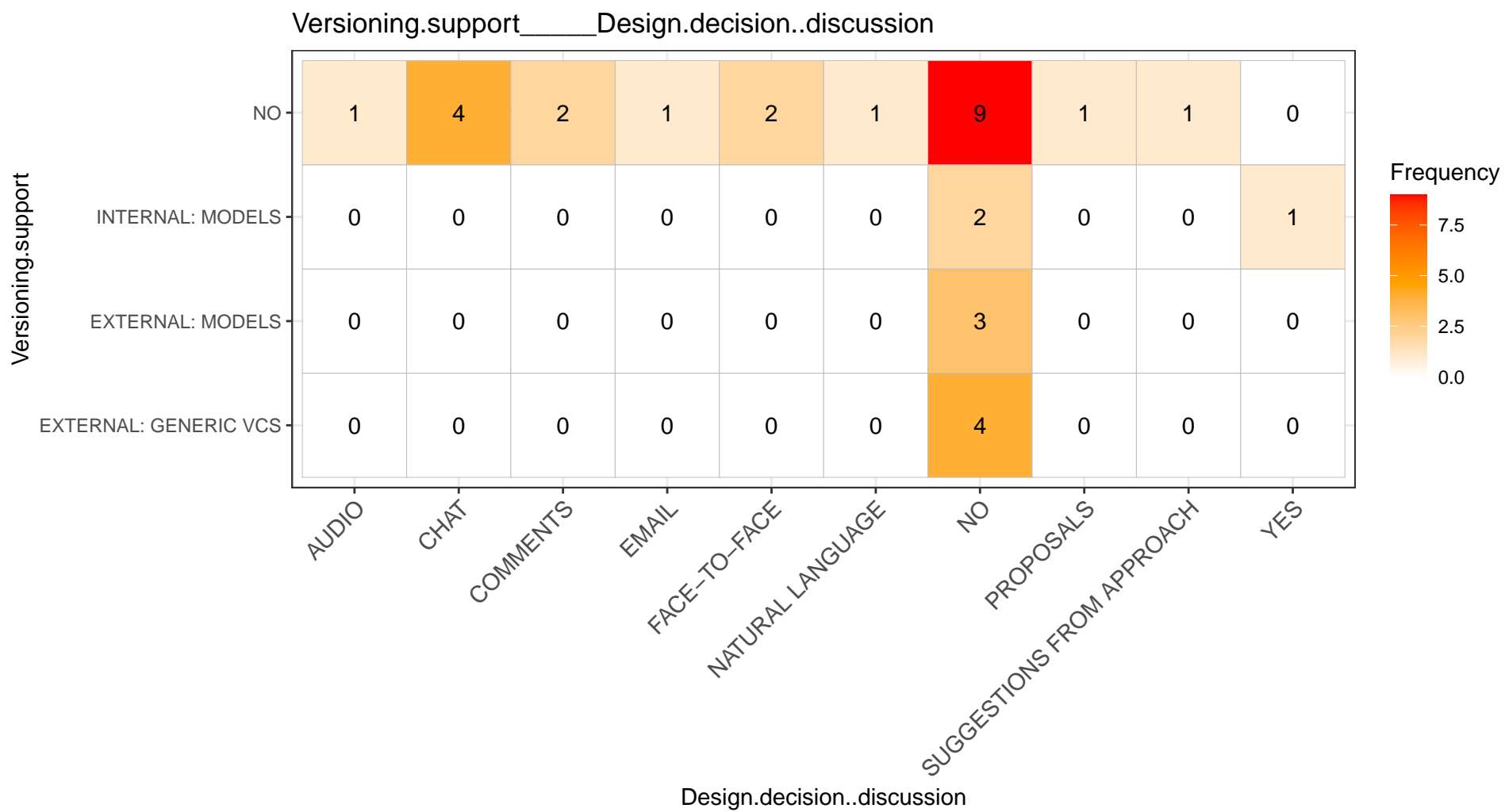
Versioning.support_____Communication.means.links

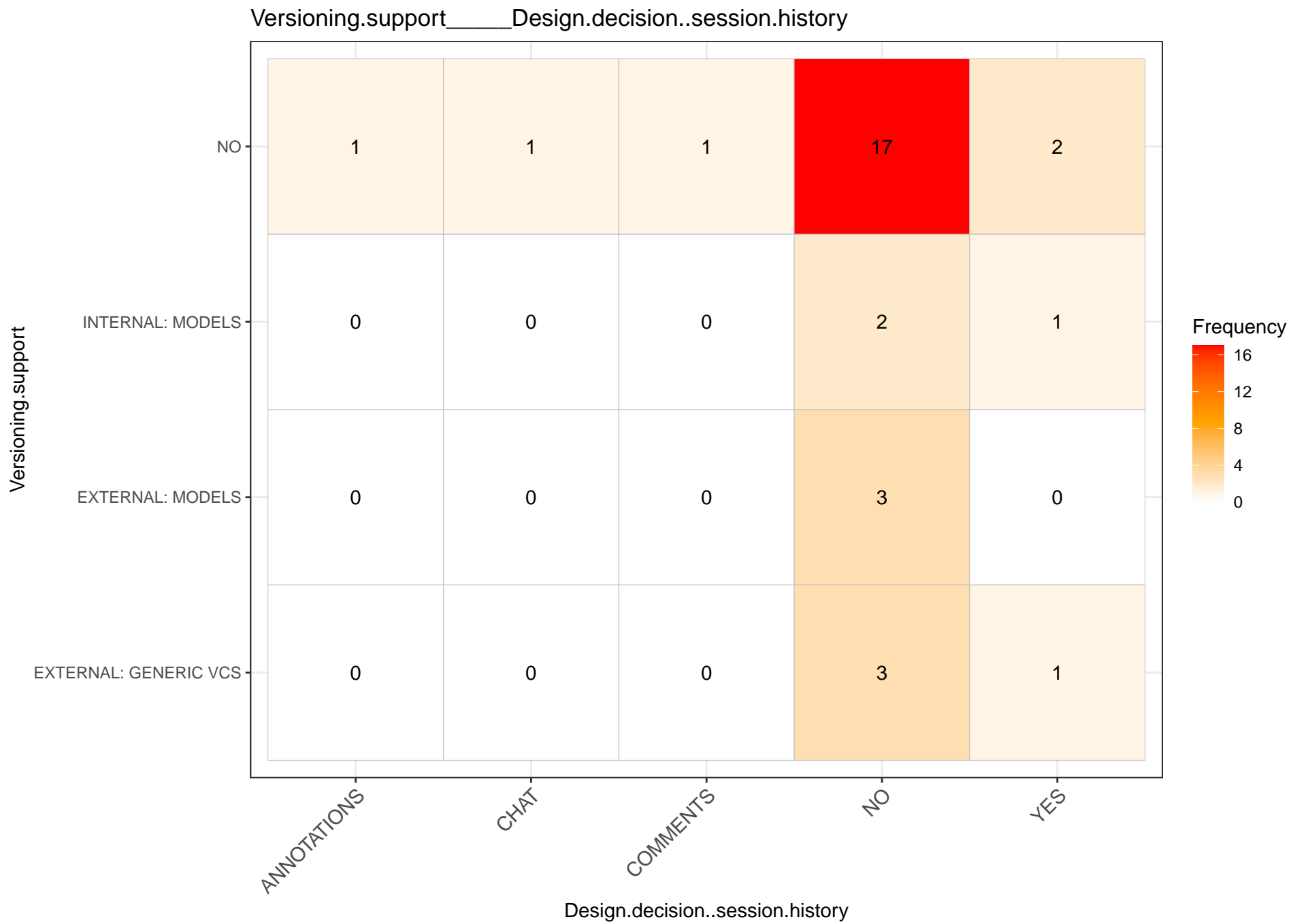
NO	1	1	1	2	1	1	0	1	1	15	2	1	1	1
INTERNAL: MODELS	0	0	0	0	0	0	0	0	0	3	0	0	0	0
EXTERNAL: MODELS	0	0	0	0	0	0	0	0	0	3	0	0	0	0
EXTERNAL: GENERIC VCS	1	0	0	0	0	1	1	0	0	4	0	0	0	0

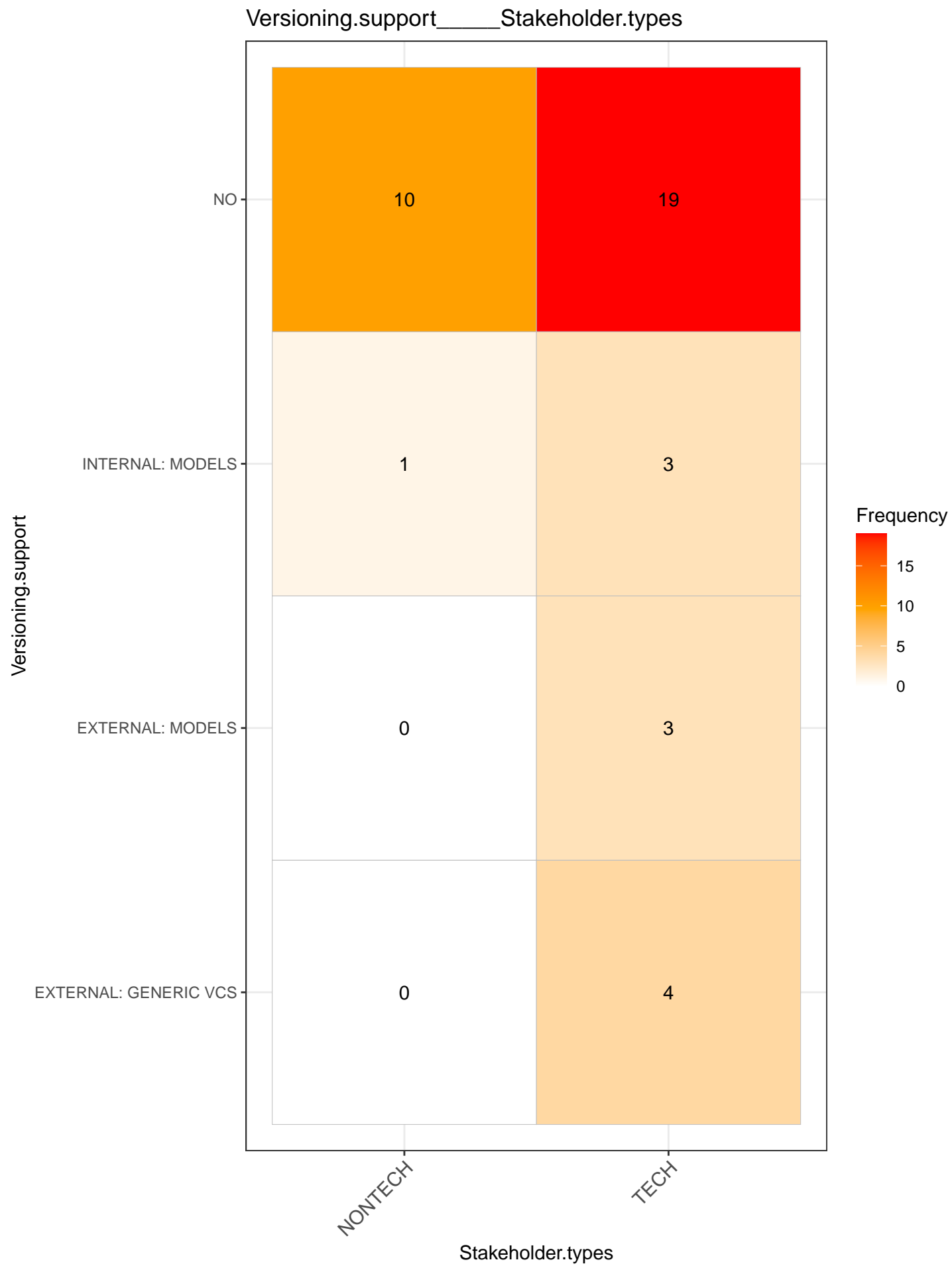


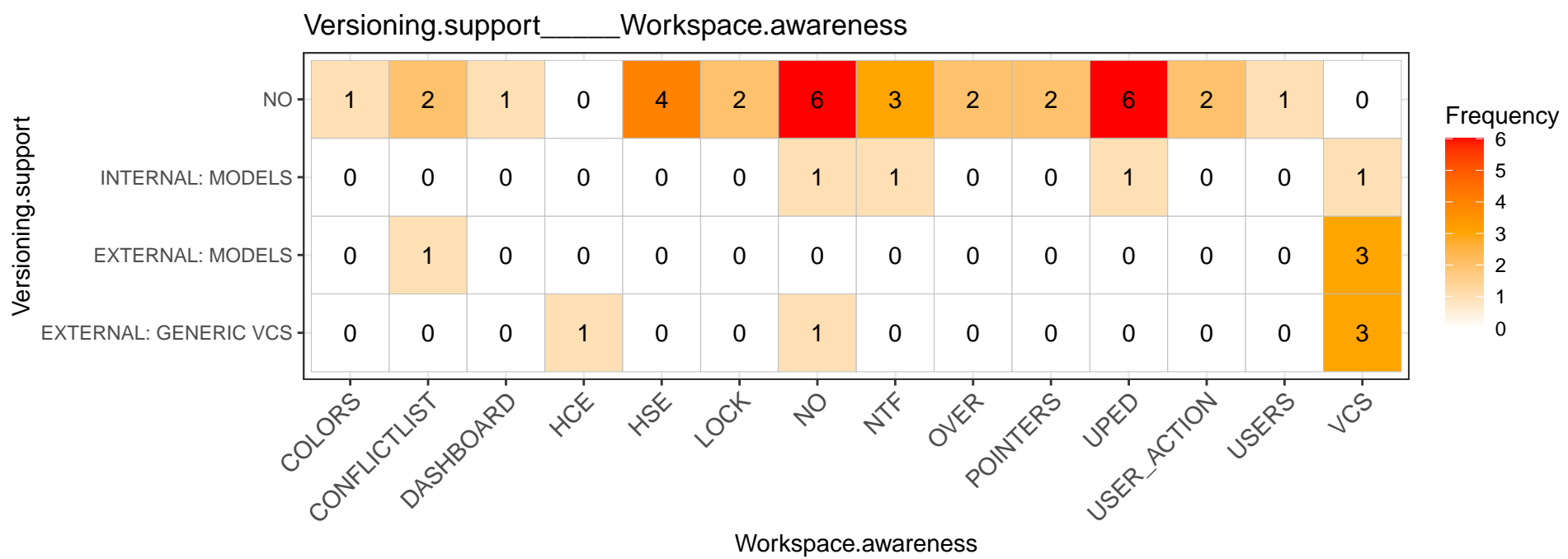
ANNOTATIONS
CALLFORATTENTION
CHANGE HIGHLIGHTING
CHAT
COMMANDS
COMMENTS
COMMIT MESSAGES
FACE-TO-FACE
NATURAL LANGUAGE
NO
NOTES
NOTIFICATIONS
PROPOSALS
VOTING

Communication.means.links

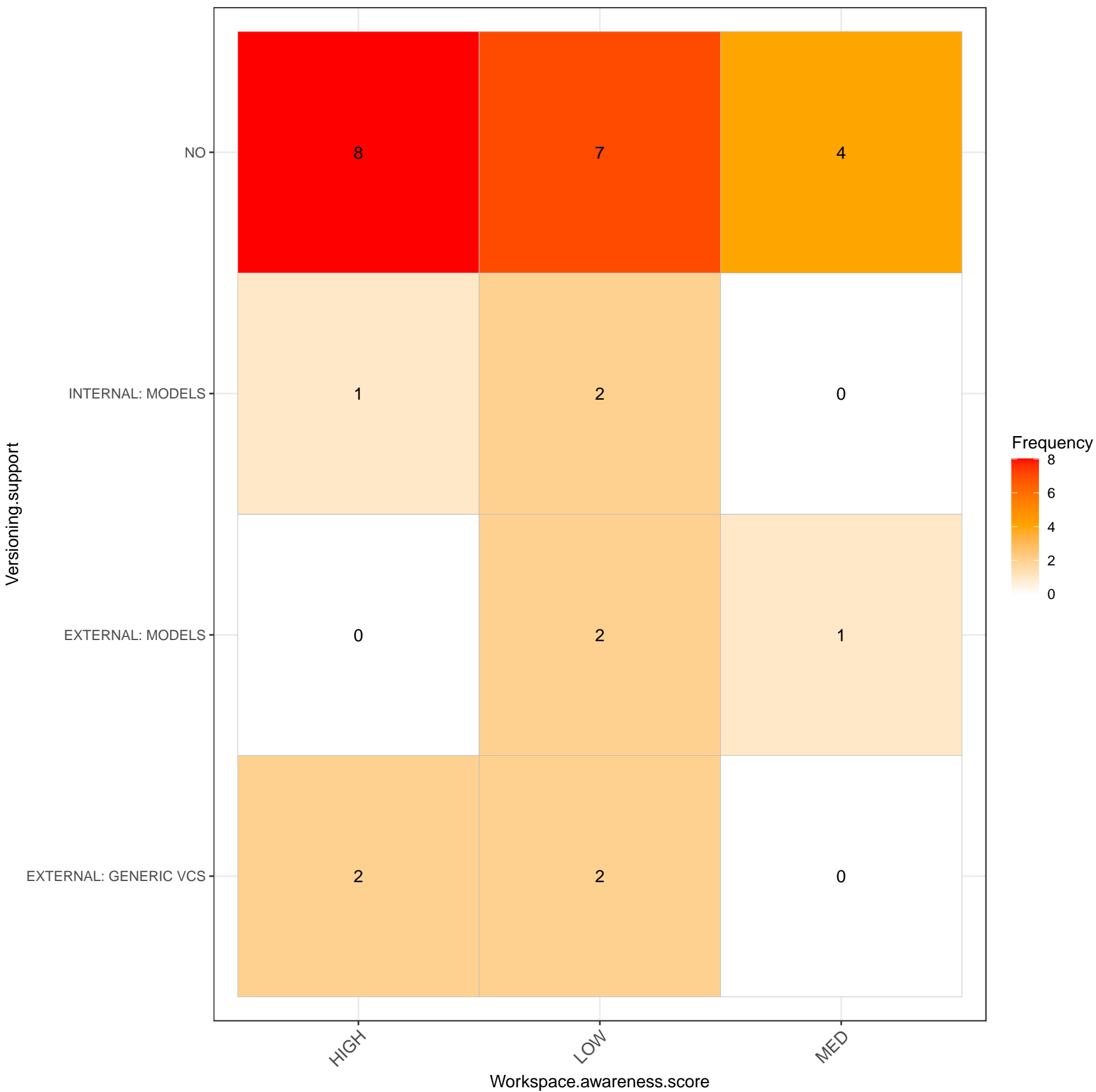




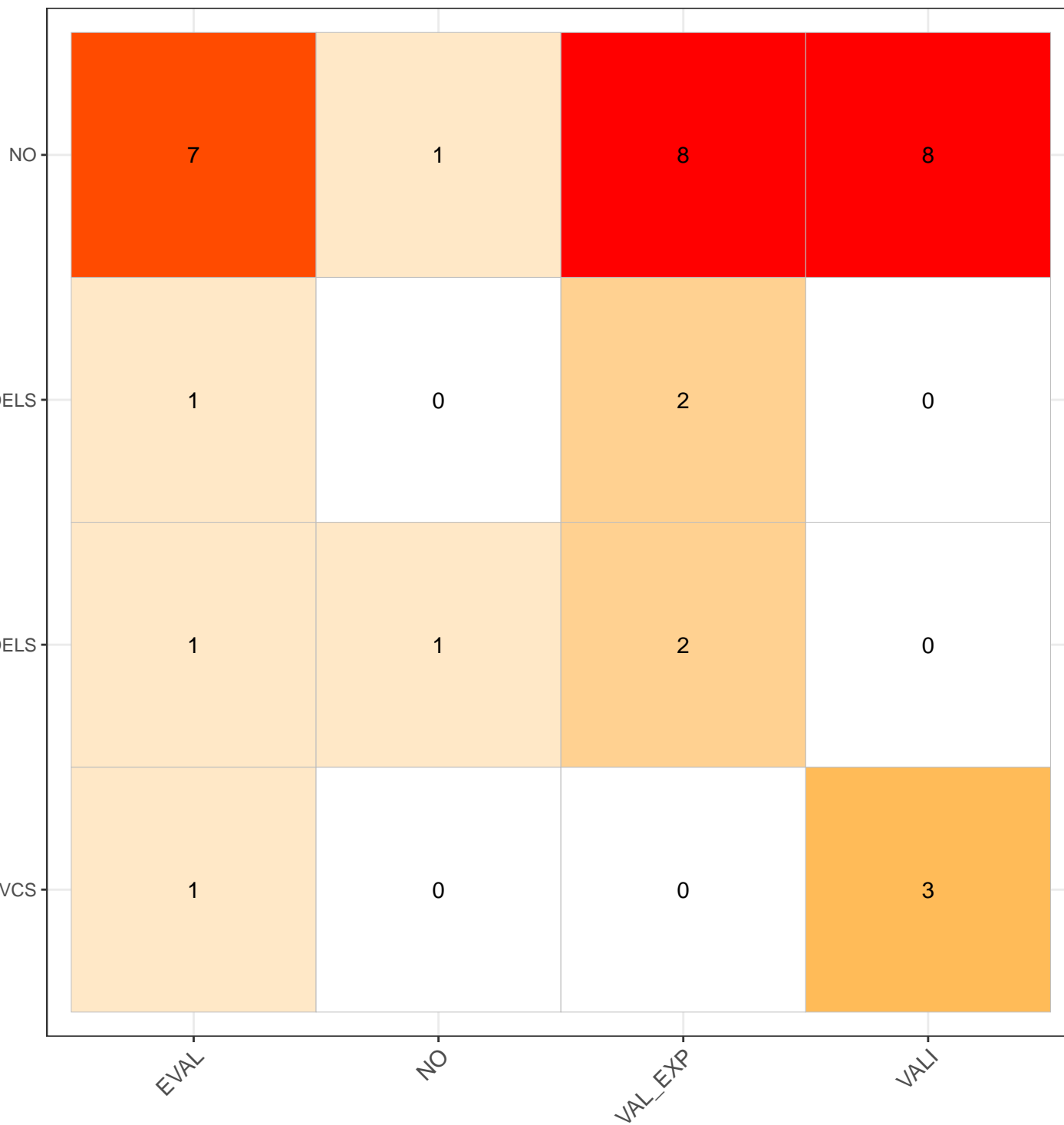




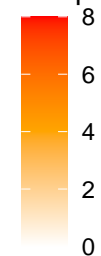
Versioning.support_____Workspace.awareness.score

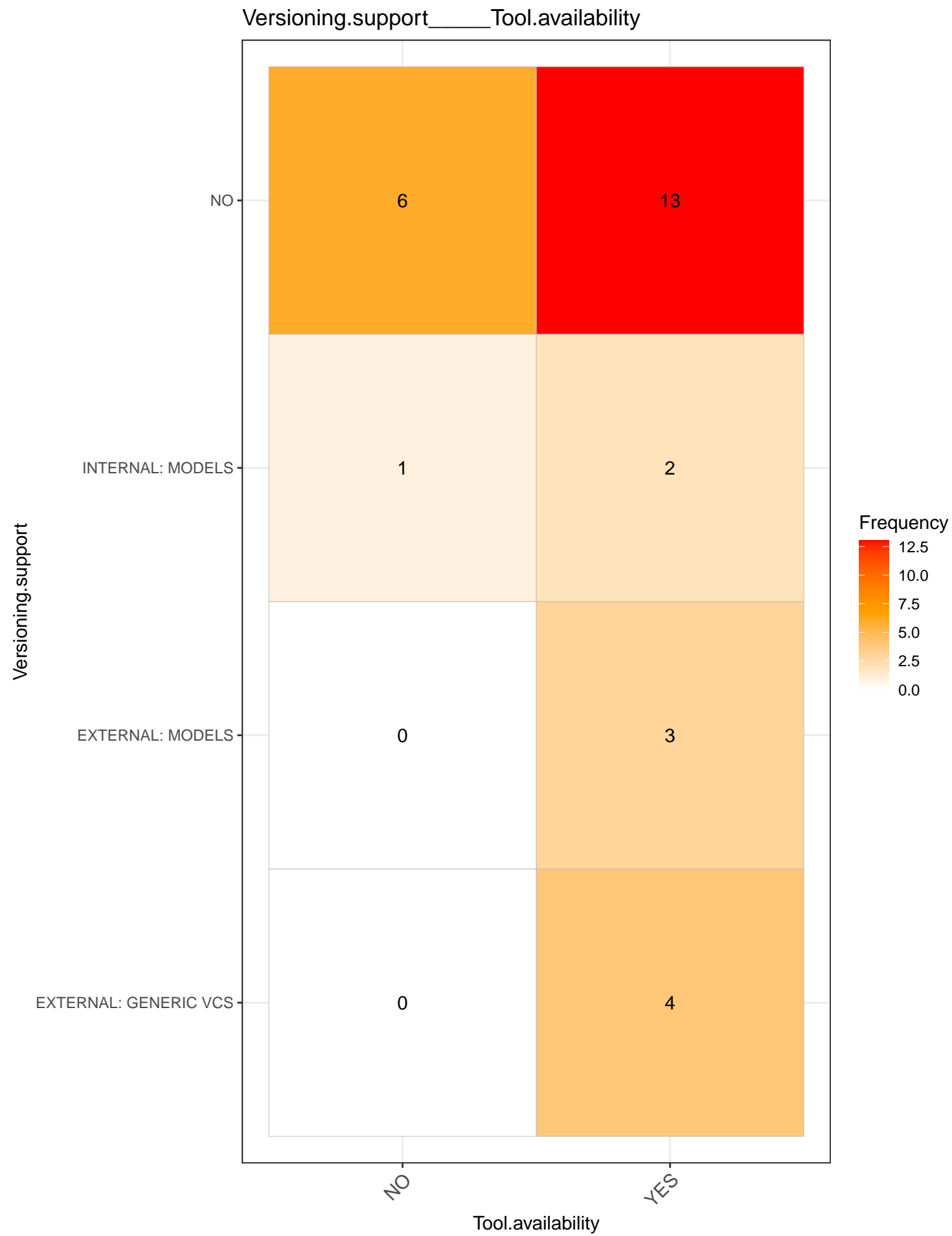


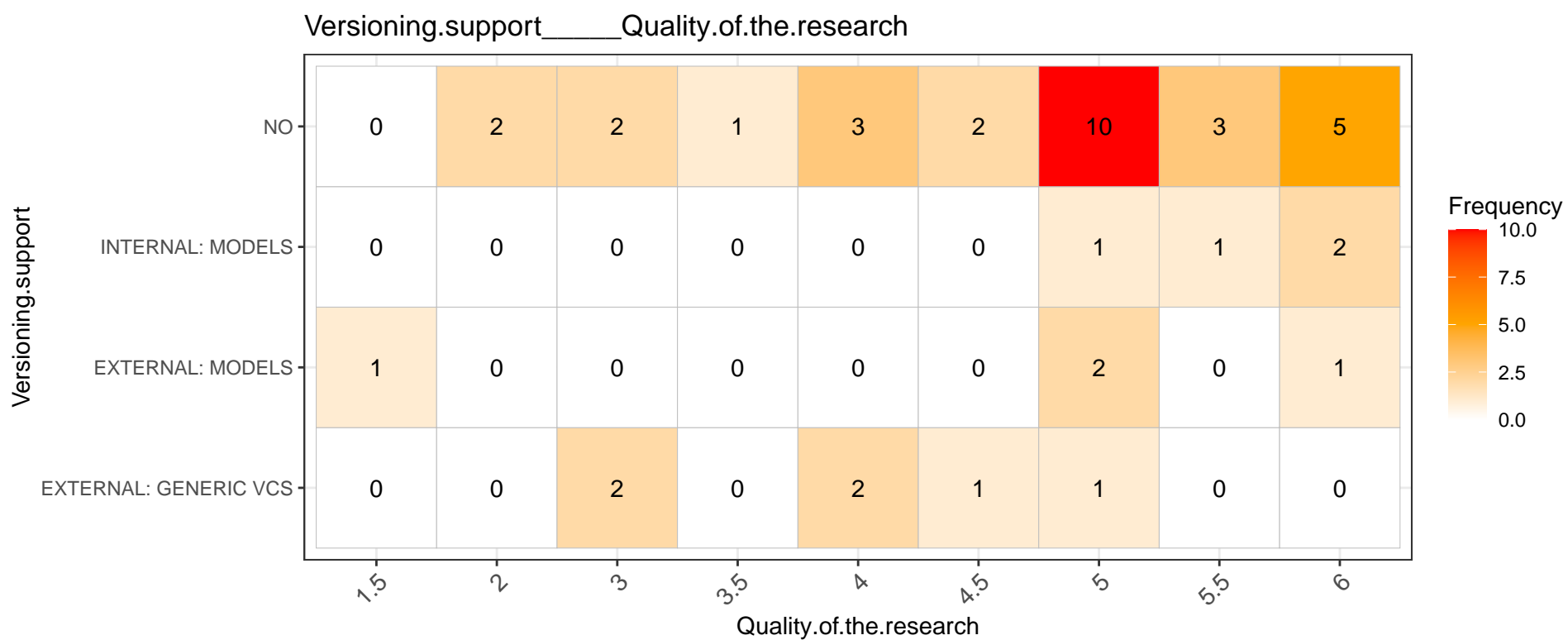
Versioning.support____Evaluation



Frequency







VCS.architecture_____External.VCS.means

VCS.architecture

N/A

0

0

19

0

DISTRIBUTED

0

3

0

1

CENTRALIZED

1

2

4

2

CUSTOM MODEL REPO

GIT

N/A

SVN

External.VCS.means

Frequency



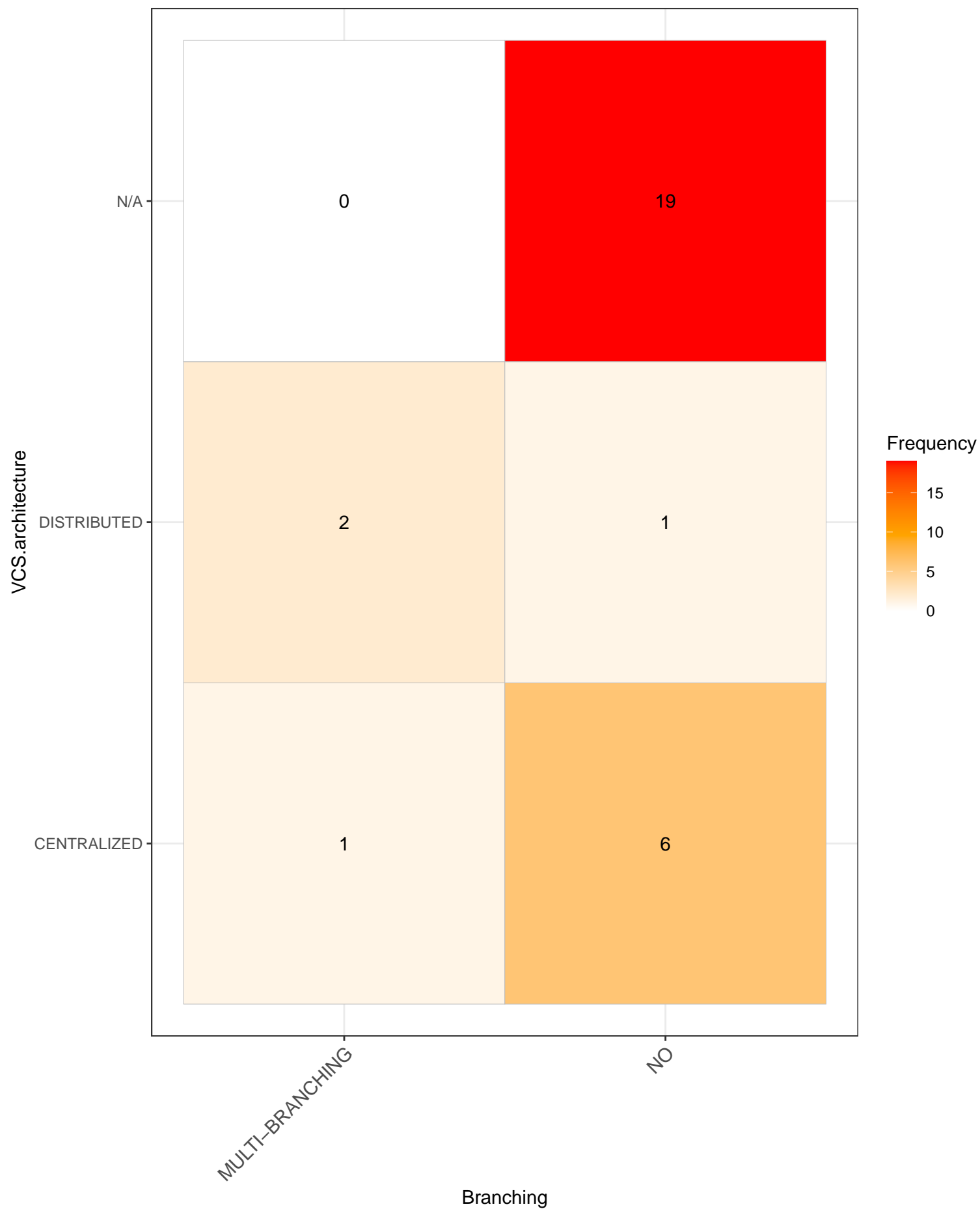
15

10

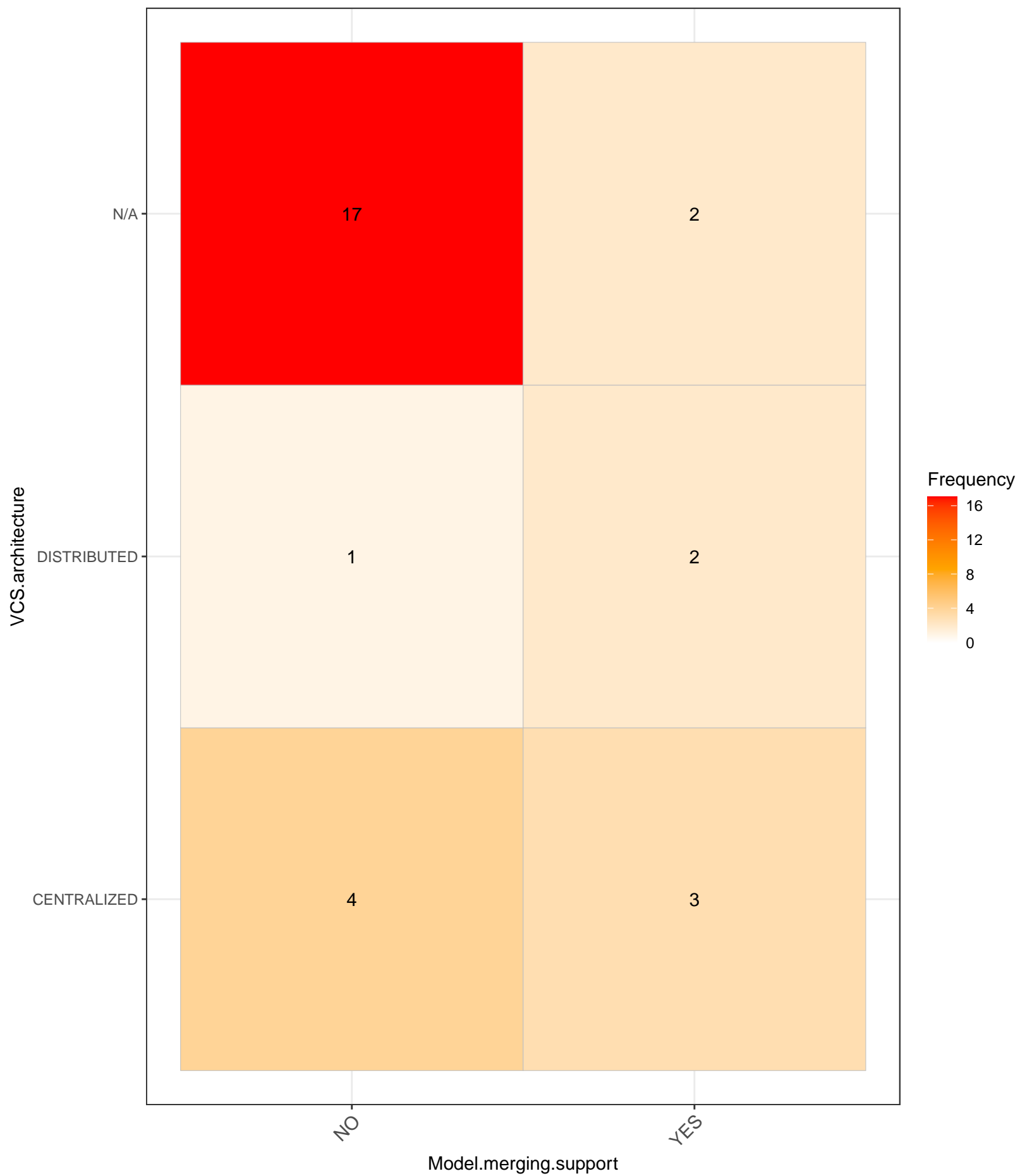
5

0

VCS.architecture_____Branching



VCS.architecture_____Model.merging.support



VCS.architecture____Diff.merge.domain

VCS.architecture

N/A

6

3

10

DISTRIBUTED

1

0

2

CENTRALIZED

0

2

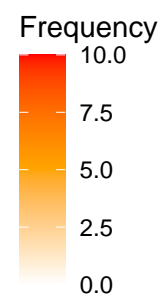
5

N/A

SEMANTIC

SYNTACTIC

Diff.merge.domain



VCS.architecture____Conflict.mgmt.approach

VCS.architecture

N/A

5

8

6

DISTRIBUTED

3

0

0

CENTRALIZED

3

2

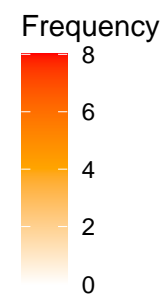
2

ALLOW&RESOLVE

NO

PREVENTIVE

Conflict.mgmt.approach



VCS.architecture_____Conflict.detection

VCS.architecture

N/A

12

7

4

DISTRIBUTED

0

3

0

CENTRALIZED

1

6

3

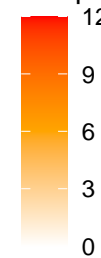
NO

YES

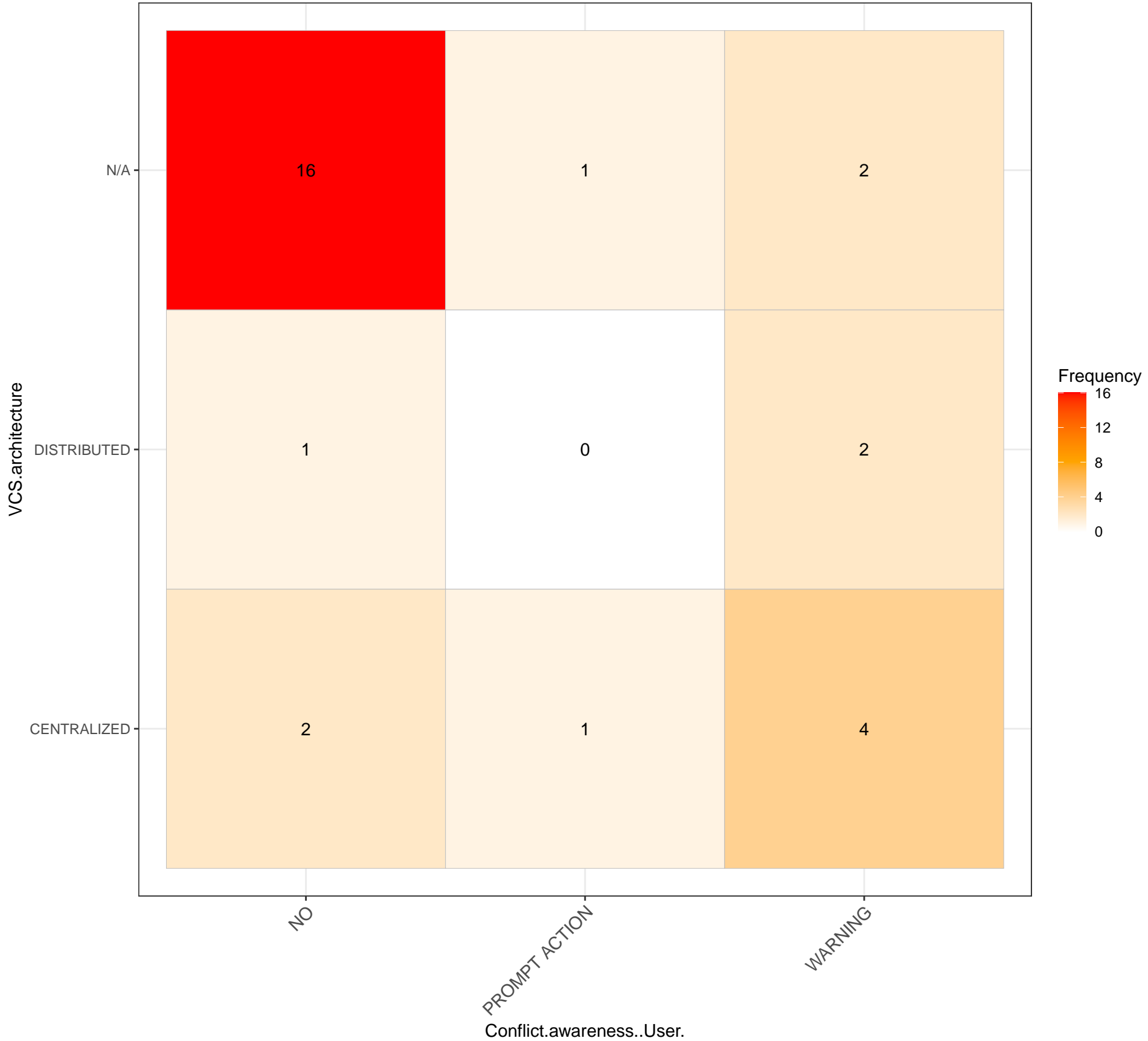
YES: INCREMENTAL

Conflict.detection

Frequency



VCS.architecture_____Conflict.awareness..User.



VCS.architecture_____Conflict.resolution.support

VCS.architecture

N/A

4

7

8

DISTRIBUTED

2

0

2

CENTRALIZED

2

2

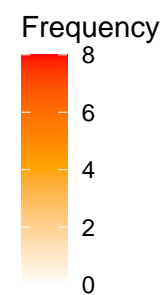
3

MANUAL

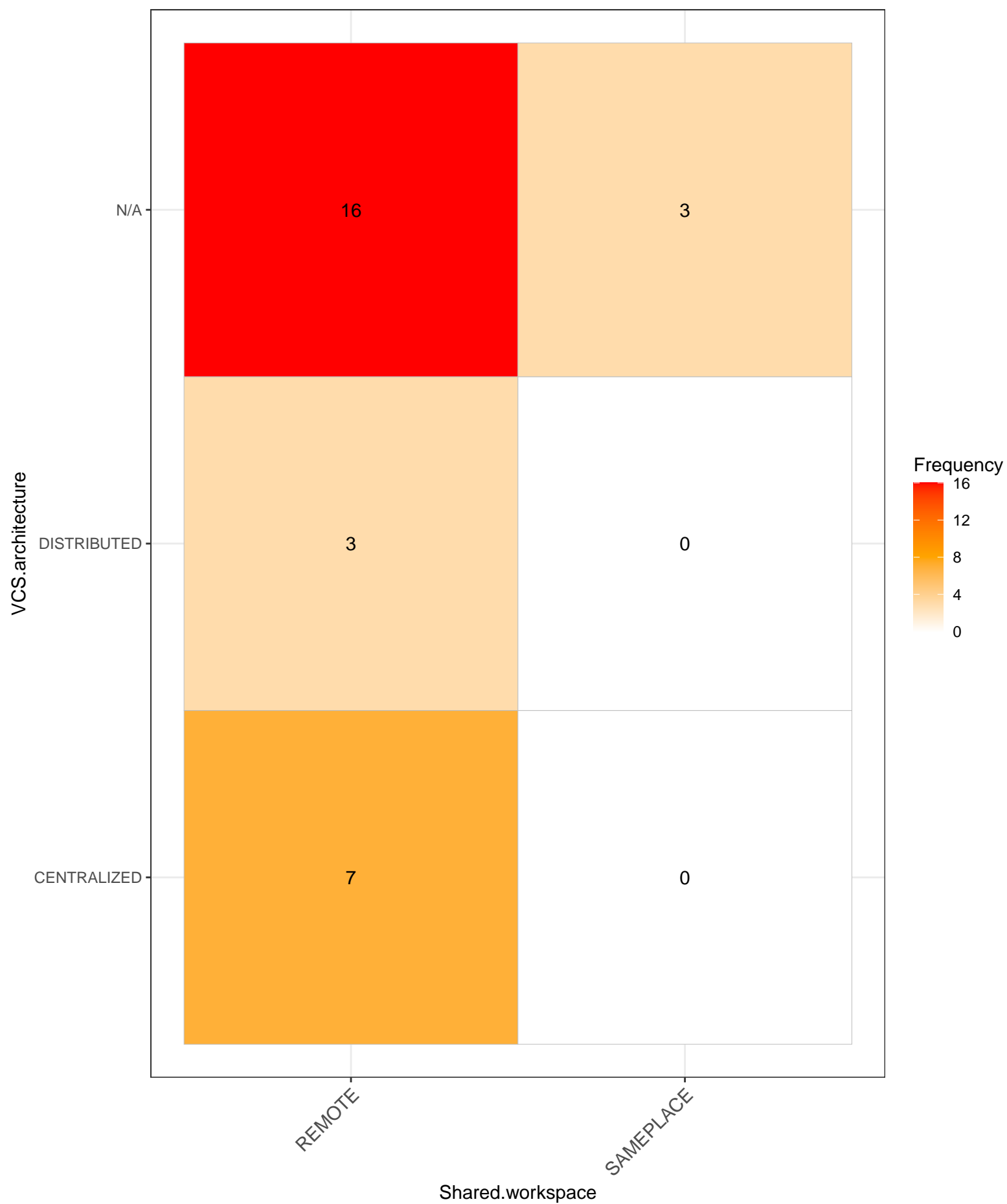
NO

SEMI-AUTOMATED

Conflict.resolution.support



VCS.architecture_____Shared.workspace



VCS.architecture____Network.architecture

VCS.architecture

DISTRIBUTED

CENTRALIZED

N/A

3

12

3

2

1

2

0

1

2

5

0

0

CENTRALIZED: MULTIPLE SERVERS

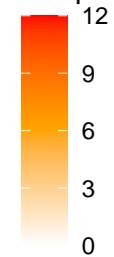
CENTRALIZED: SINGLE SERVER

MIXED

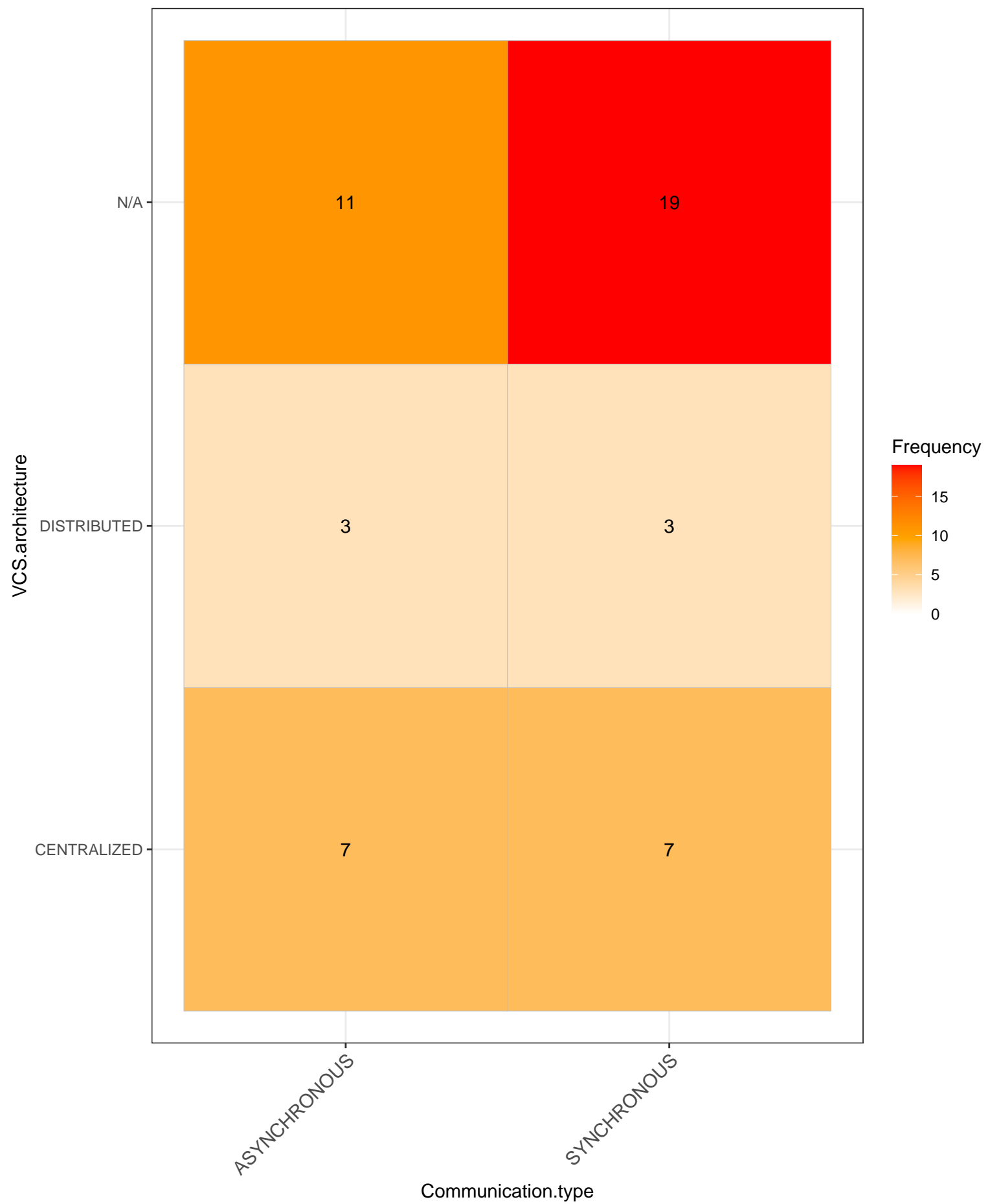
P2P

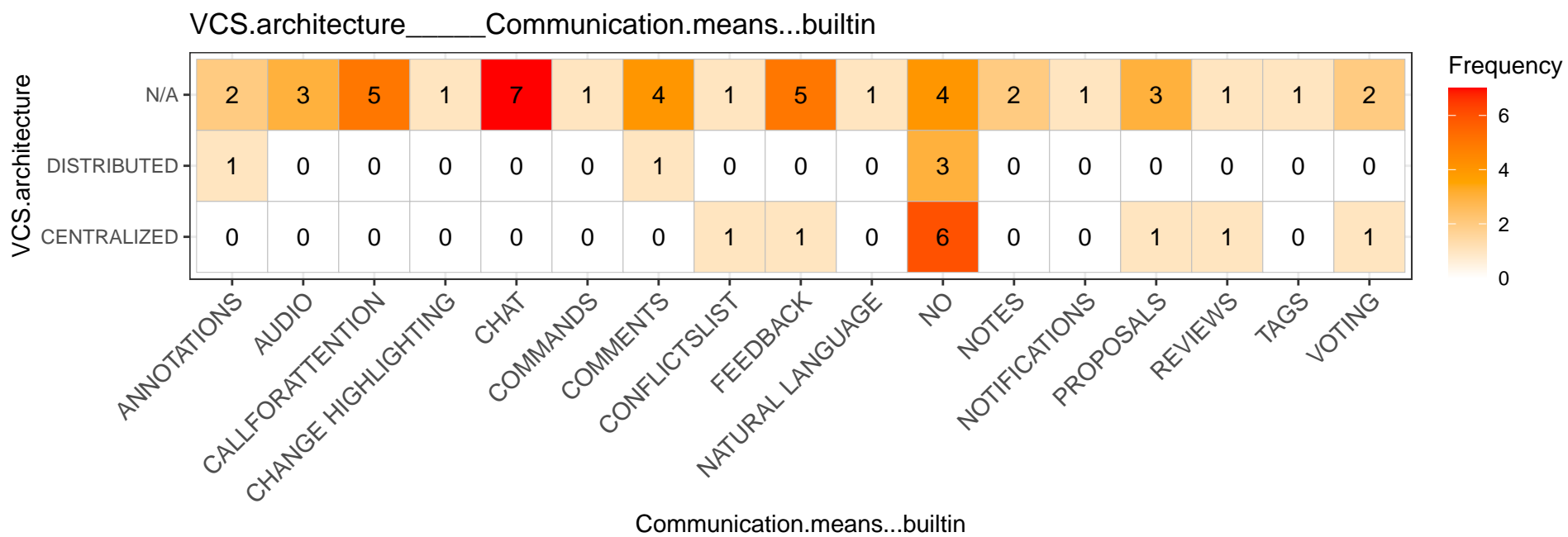
Network.architecture

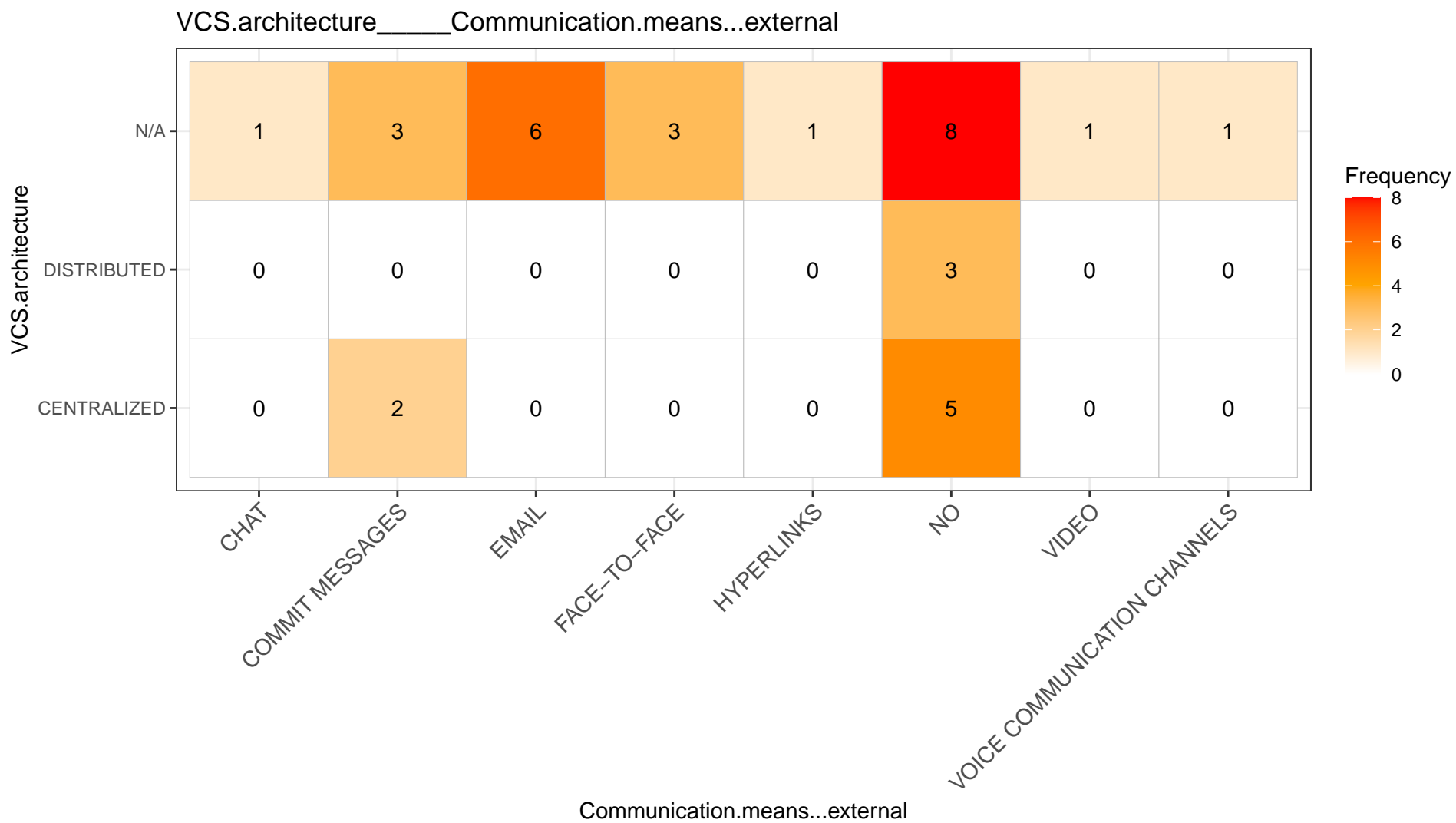
Frequency



VCS.architecture_____Communication.type





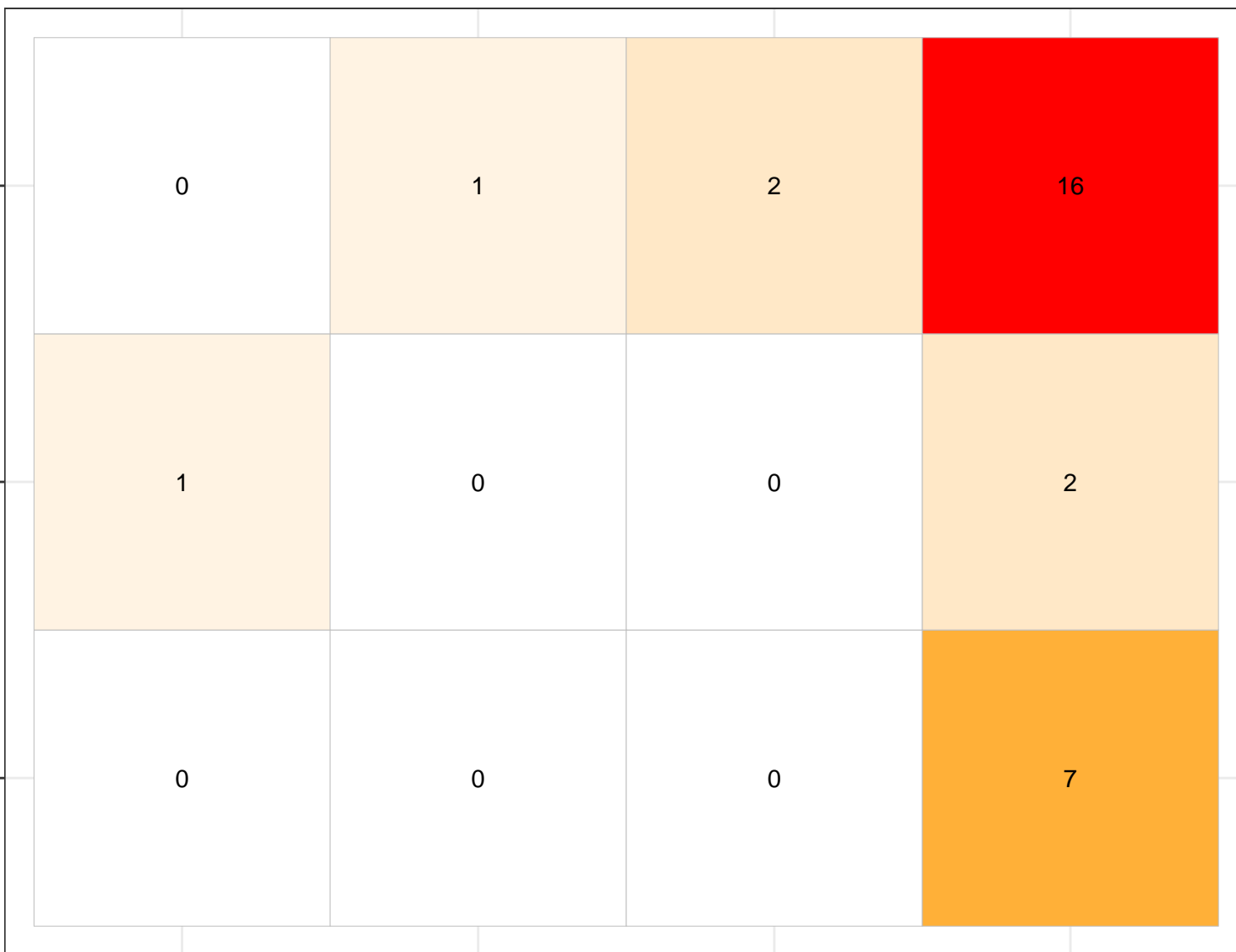


VCS.architecture_____Communication.means...mixed

VCS.architecture

DISTRIBUTED

CENTRALIZED



COMMIT MESSAGES

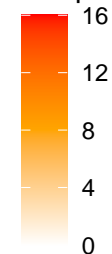
EMAIL

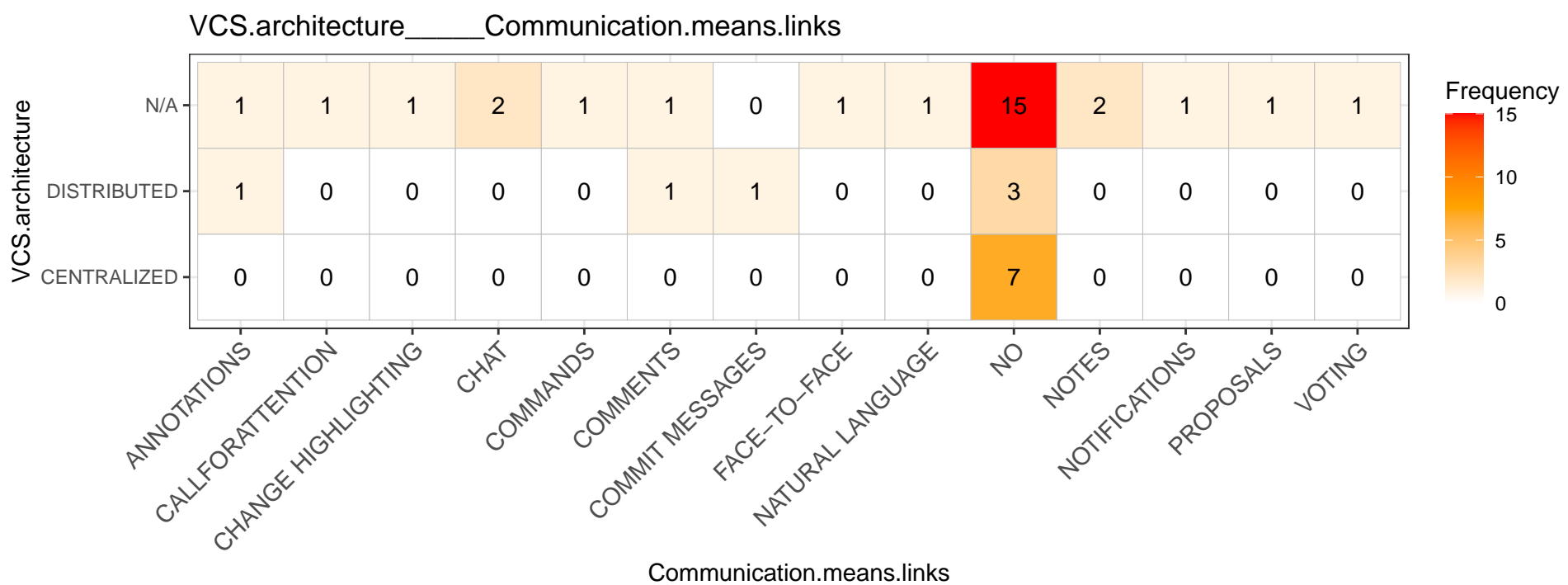
HYPERLINKS

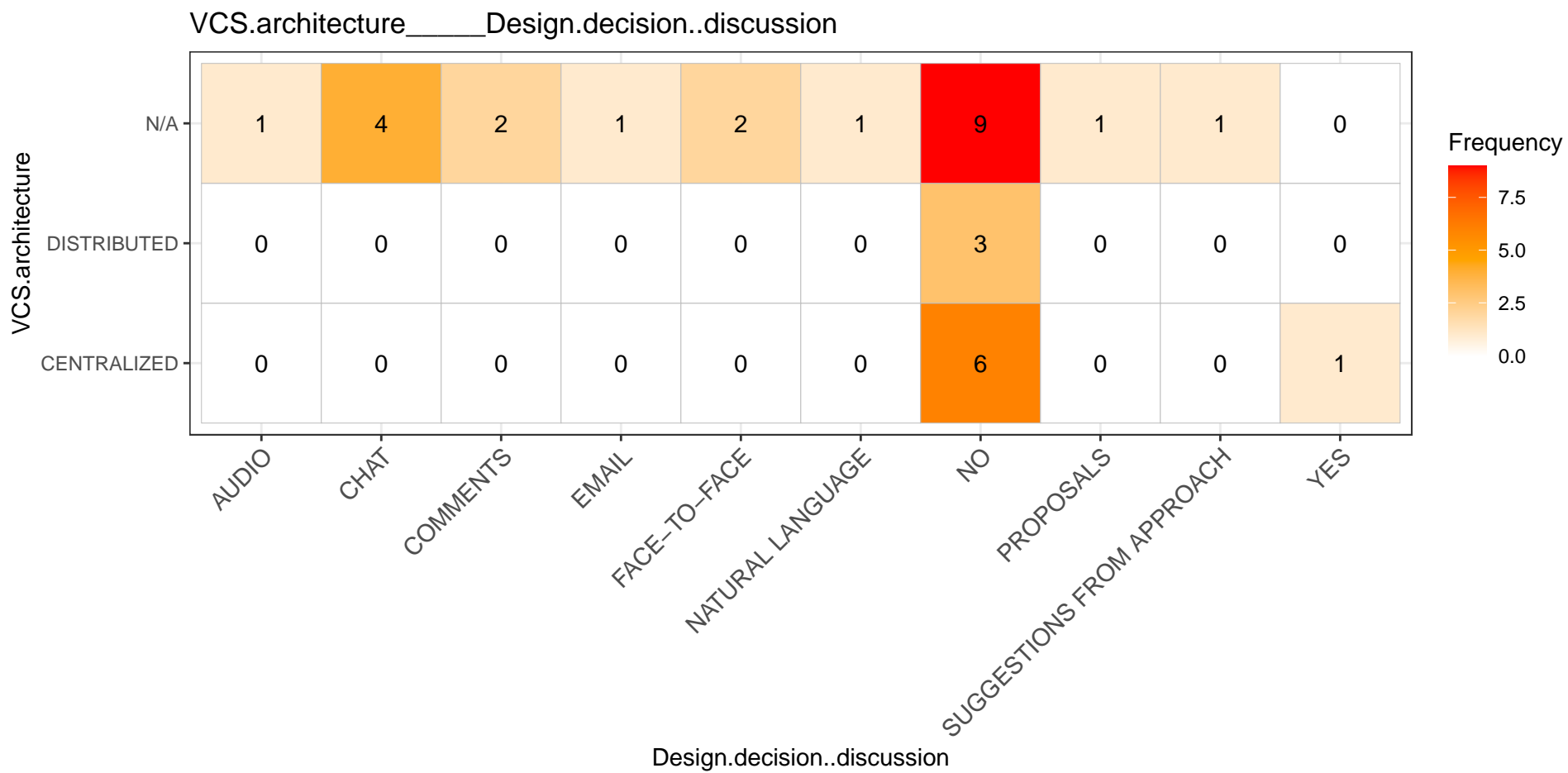
NO

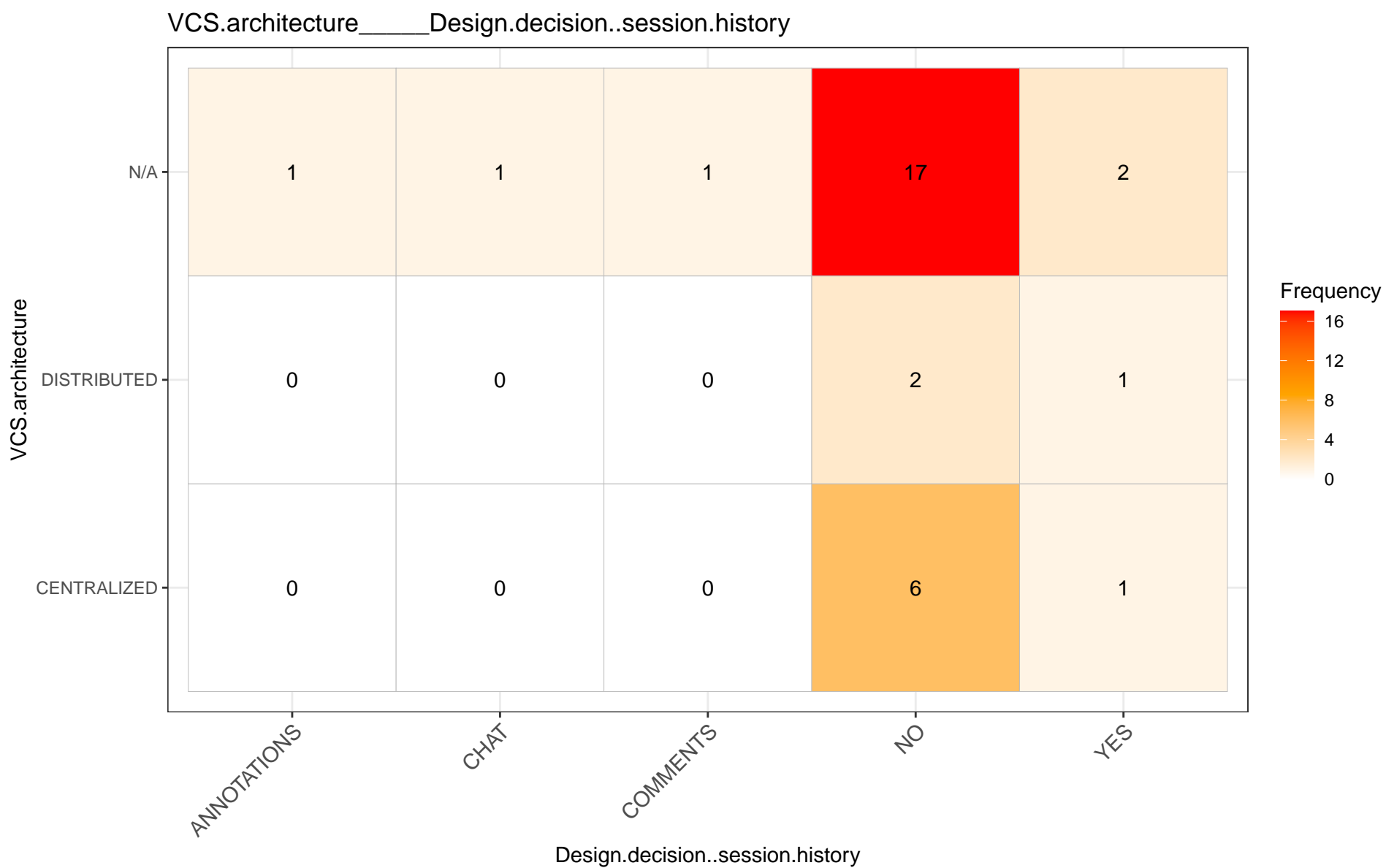
Communication.means...mixed

Frequency

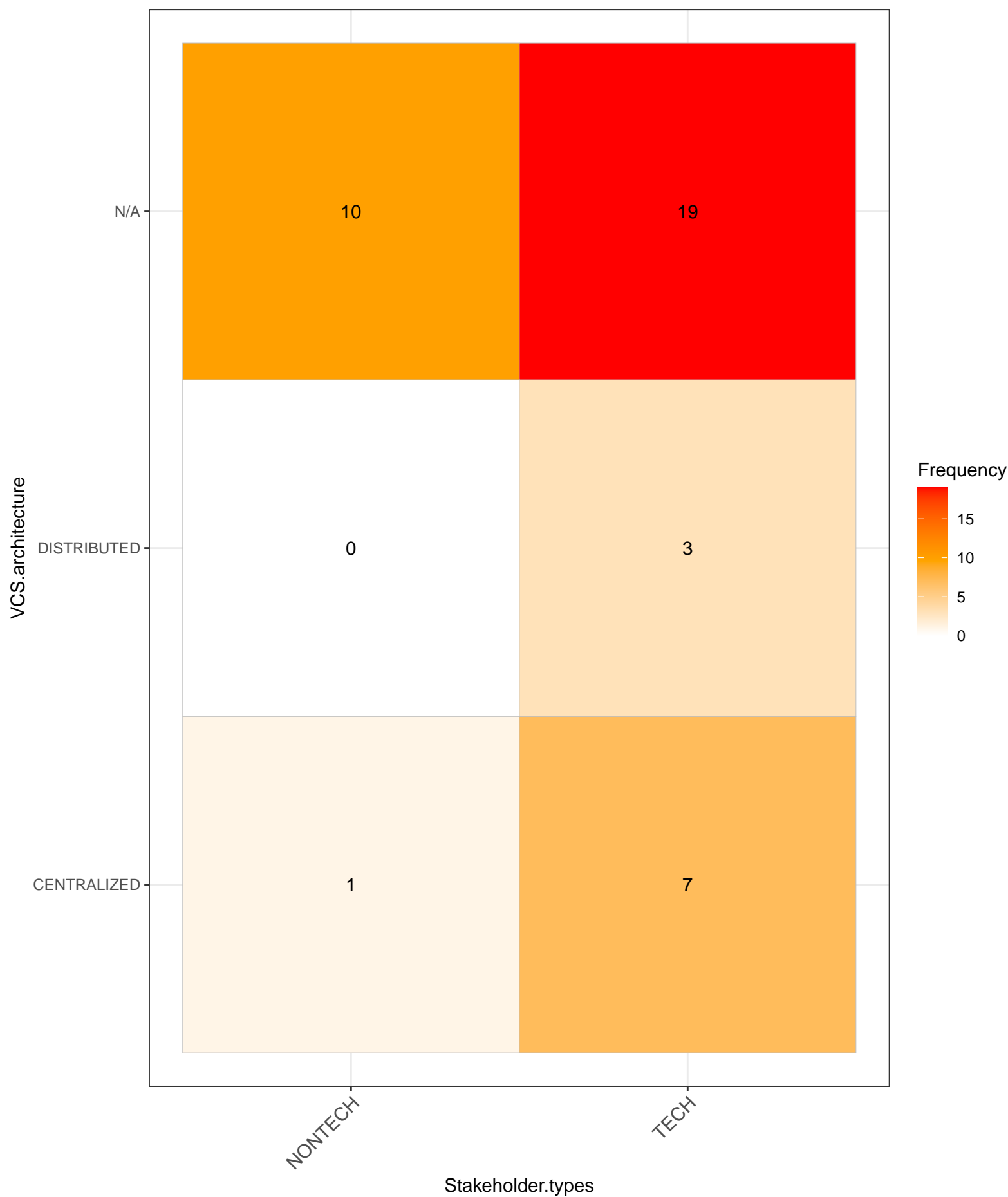


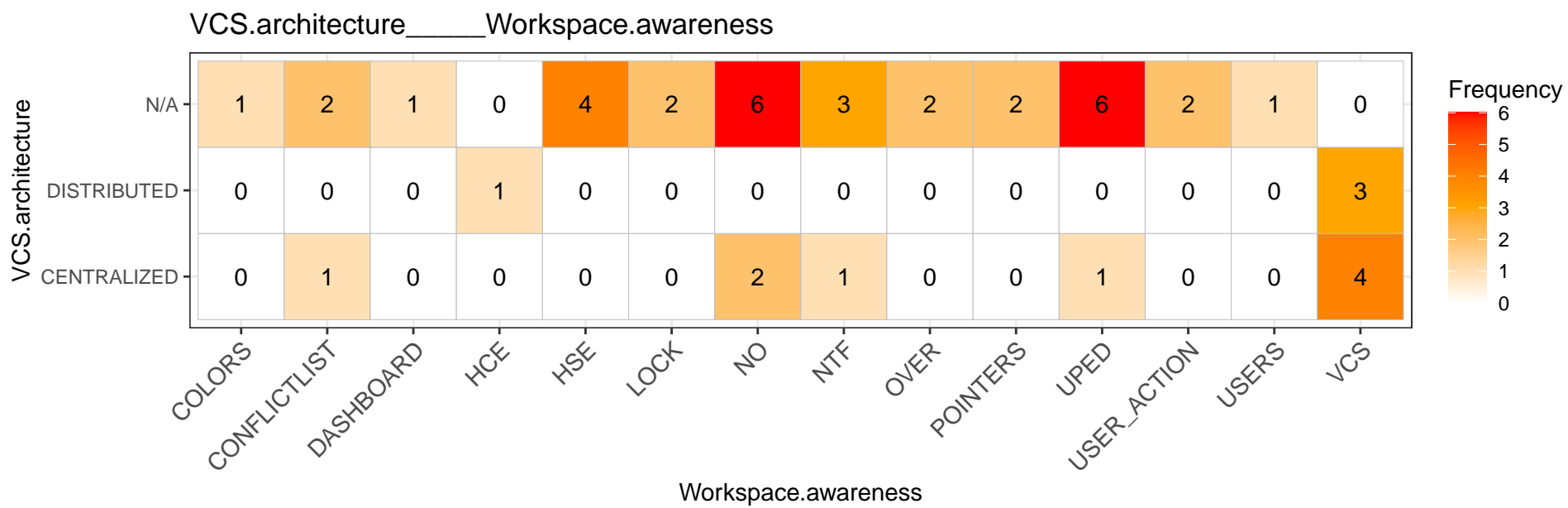






VCS.architecture____Stakeholder.types





VCS.architecture_____Workspace.awareness.score

VCS.architecture

N/A

8

7

4

DISTRIBUTED

2

1

0

CENTRALIZED

1

5

1

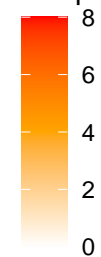
HIGH

LOW

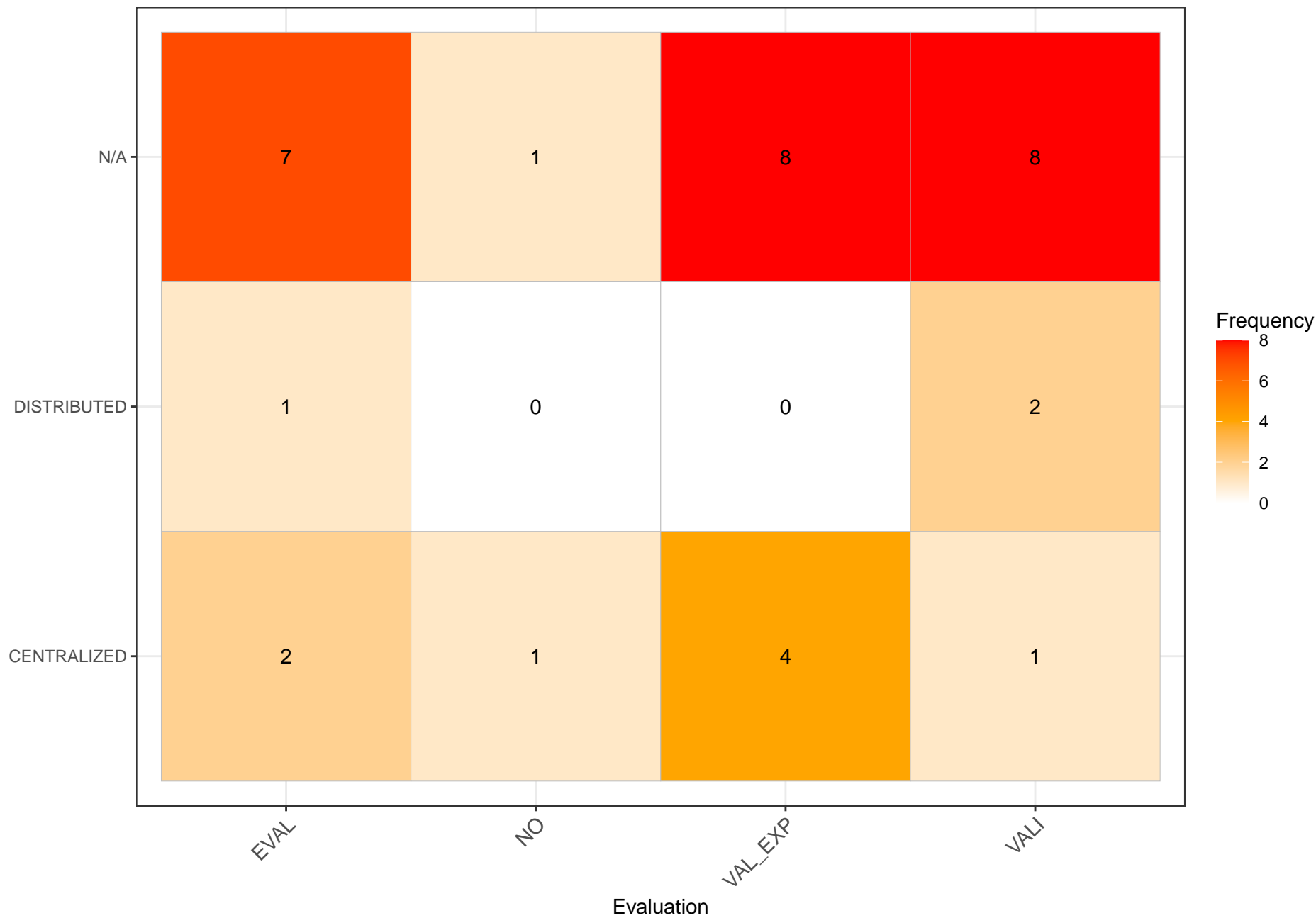
MED

Workspace.awareness.score

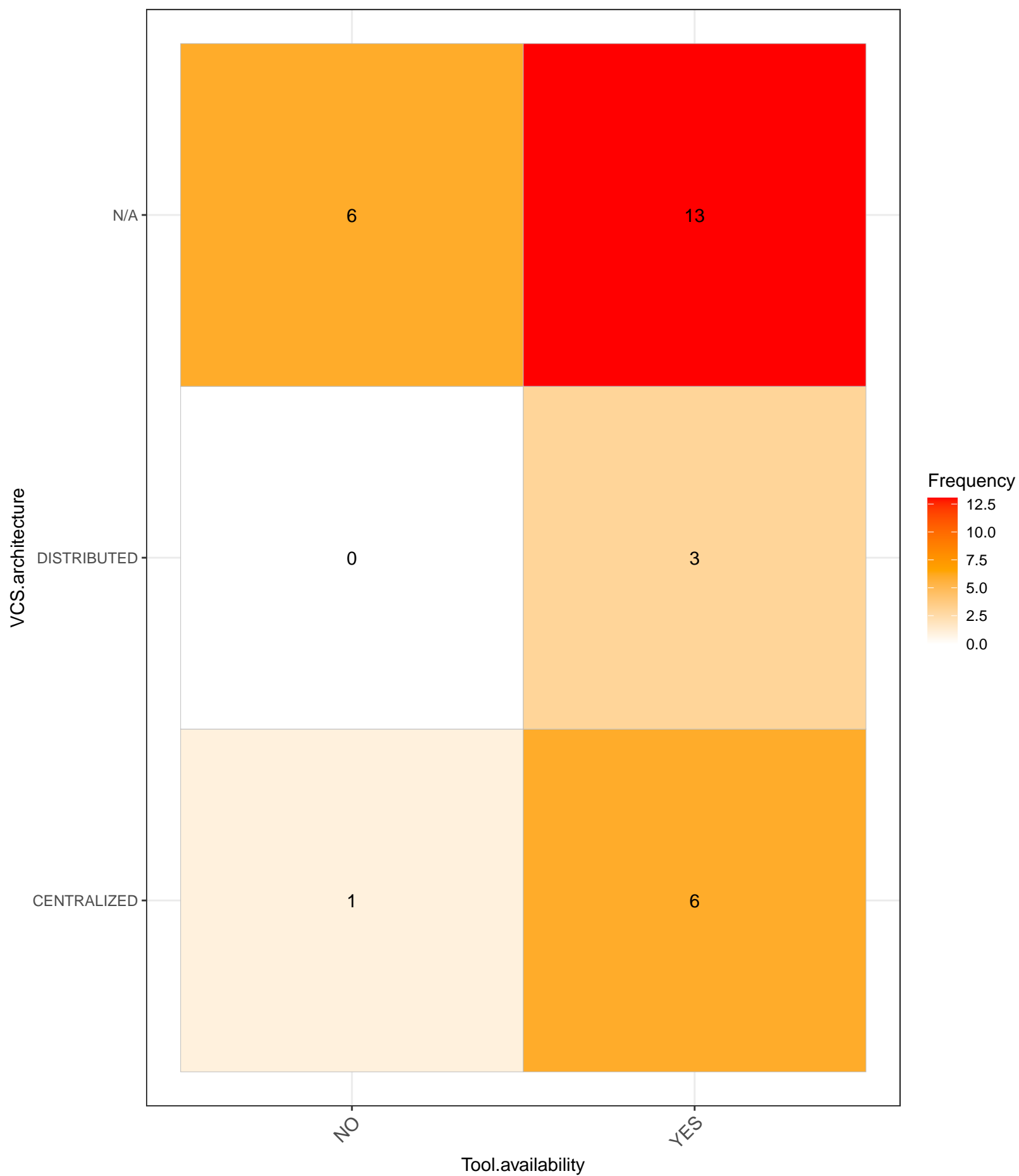
Frequency

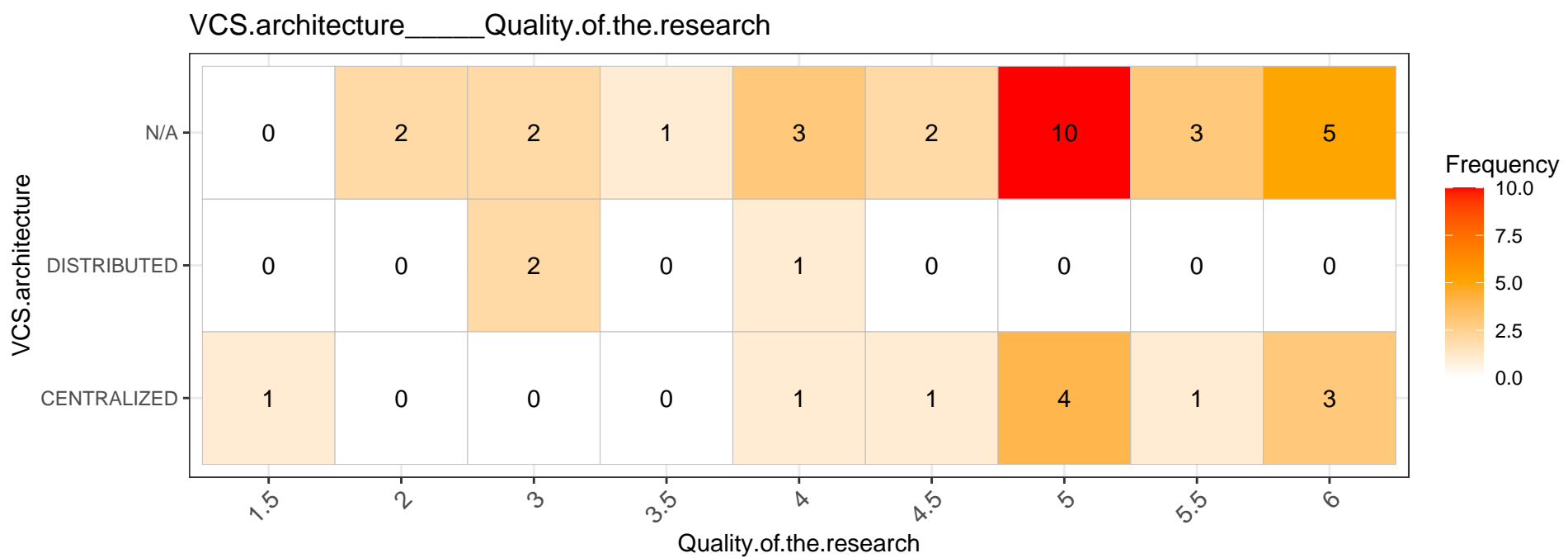


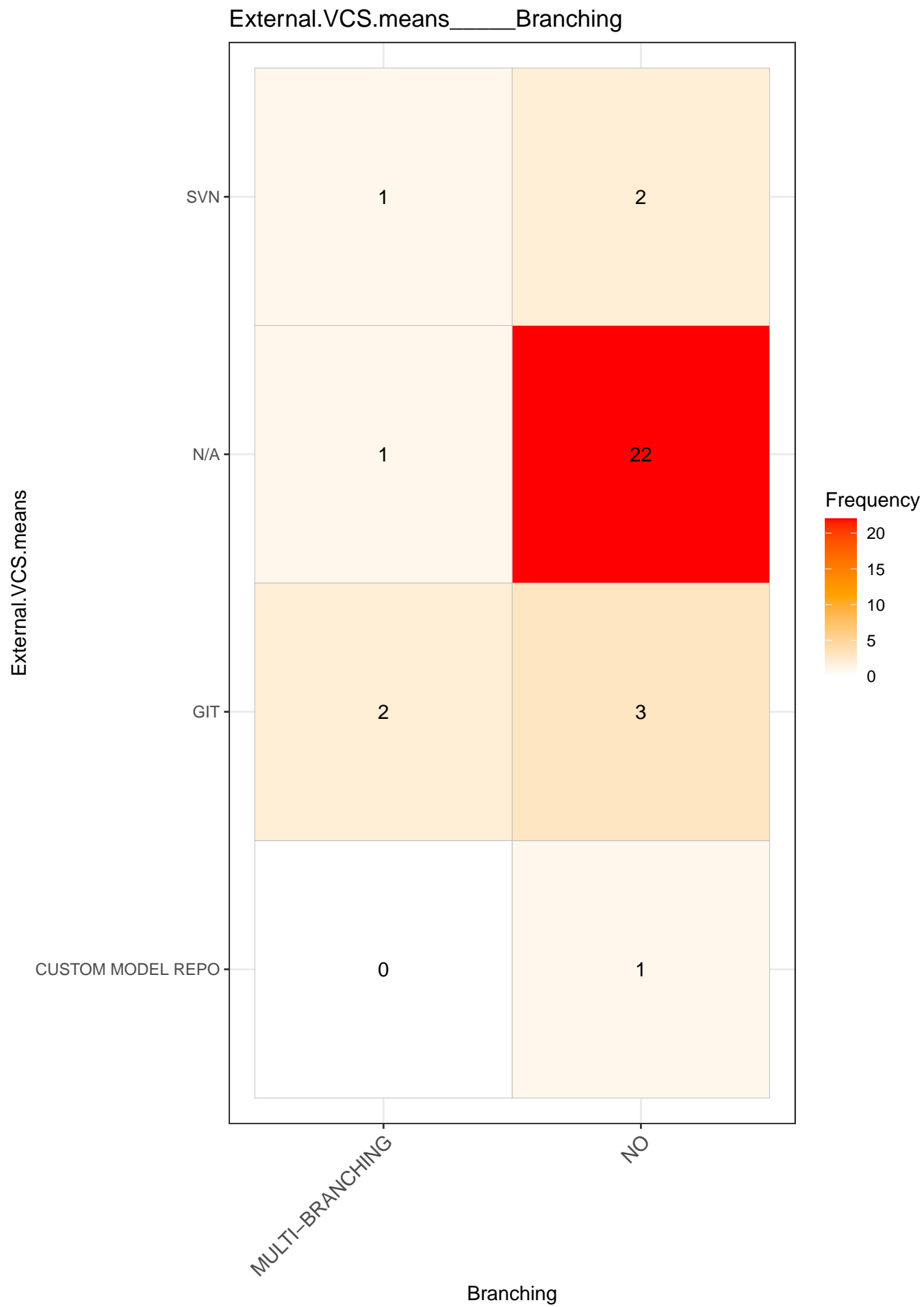
VCS.architecture____Evaluation

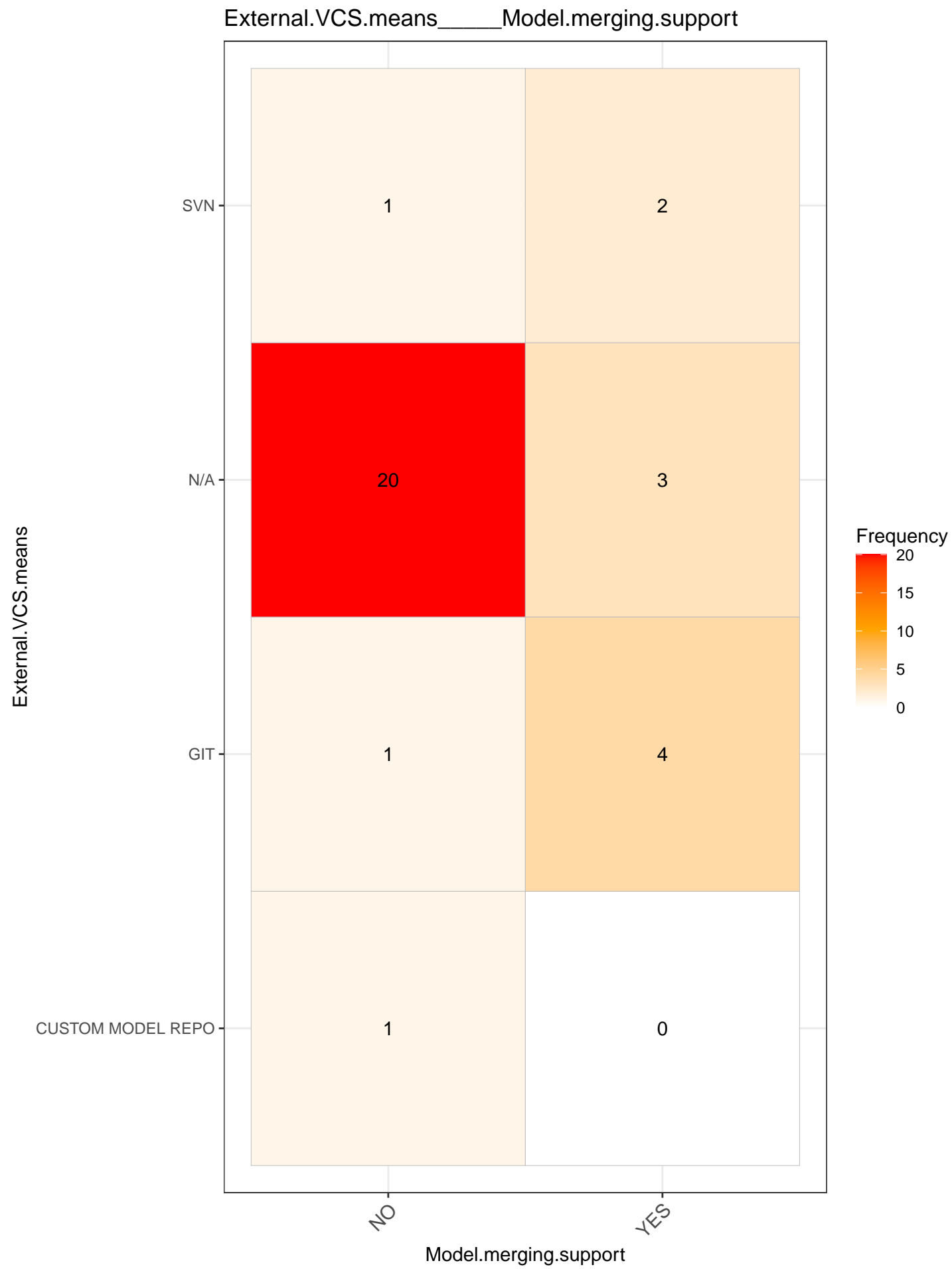


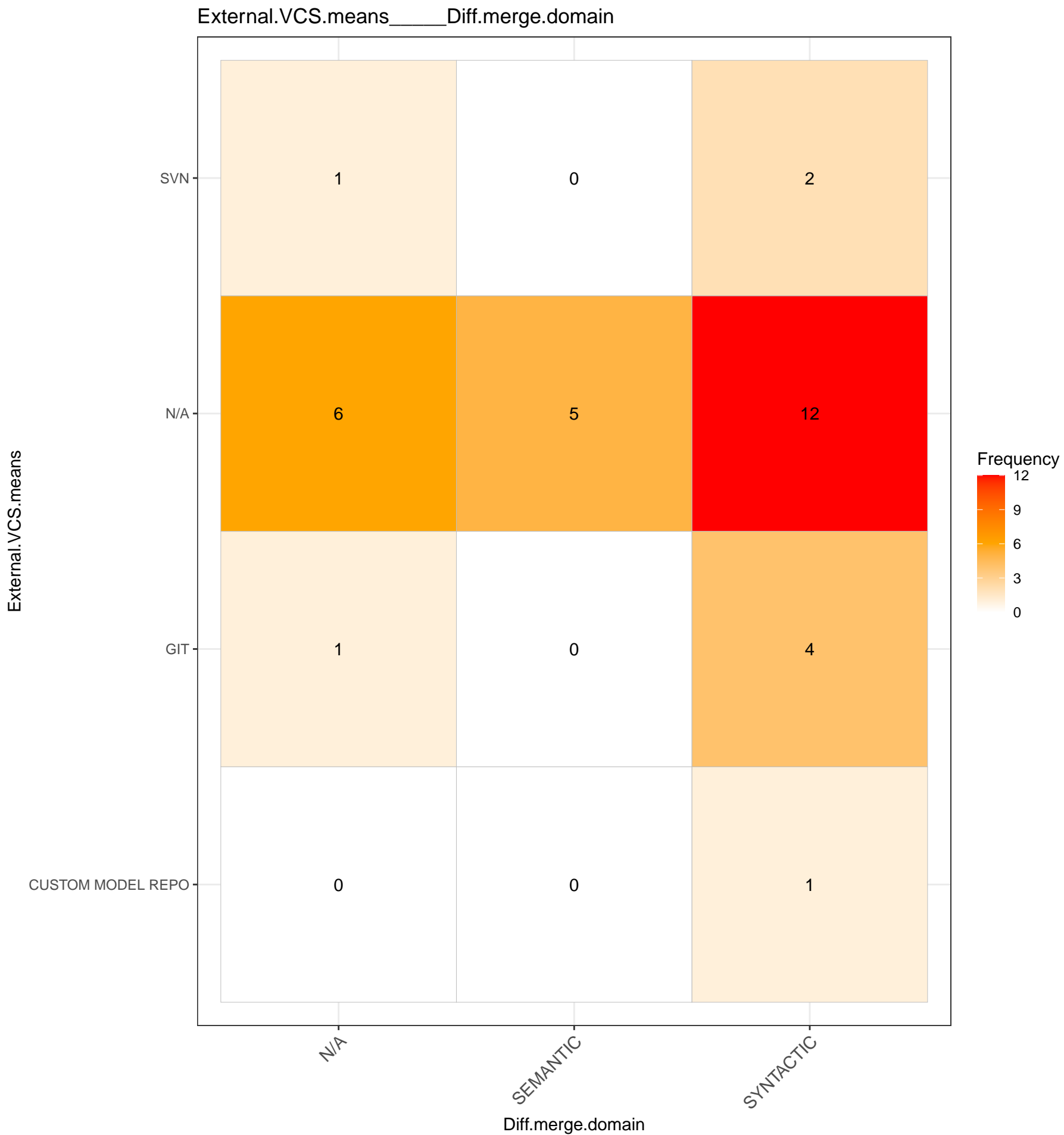
VCS.architecture_____Tool.availability





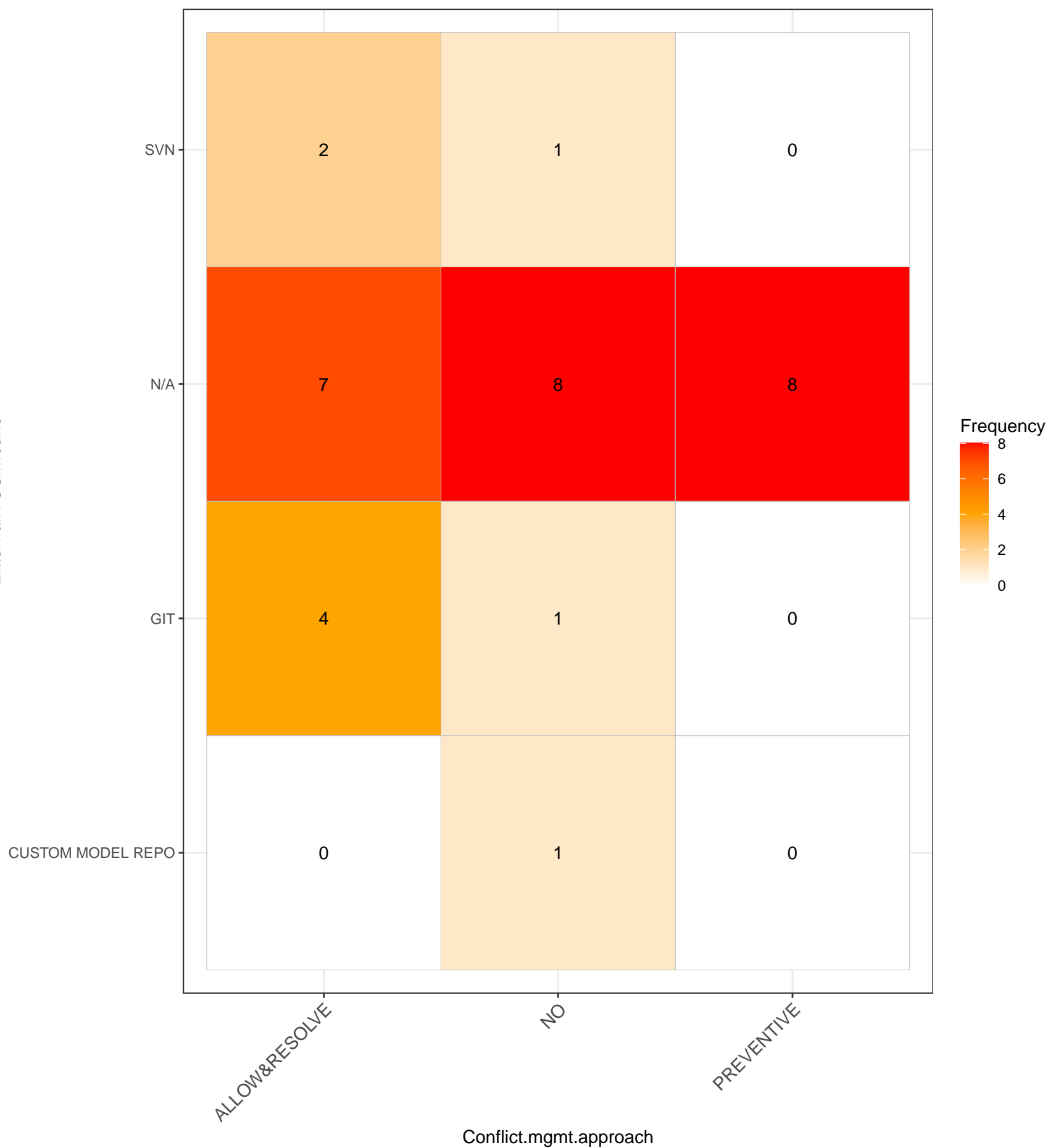






External.VCS.means_____Conflict.mgmt.approach

External.VCS.means



External.VCS.means_____Conflict.detection

External.VCS.means

CUSTOM MODEL REPO

GIT

N/A

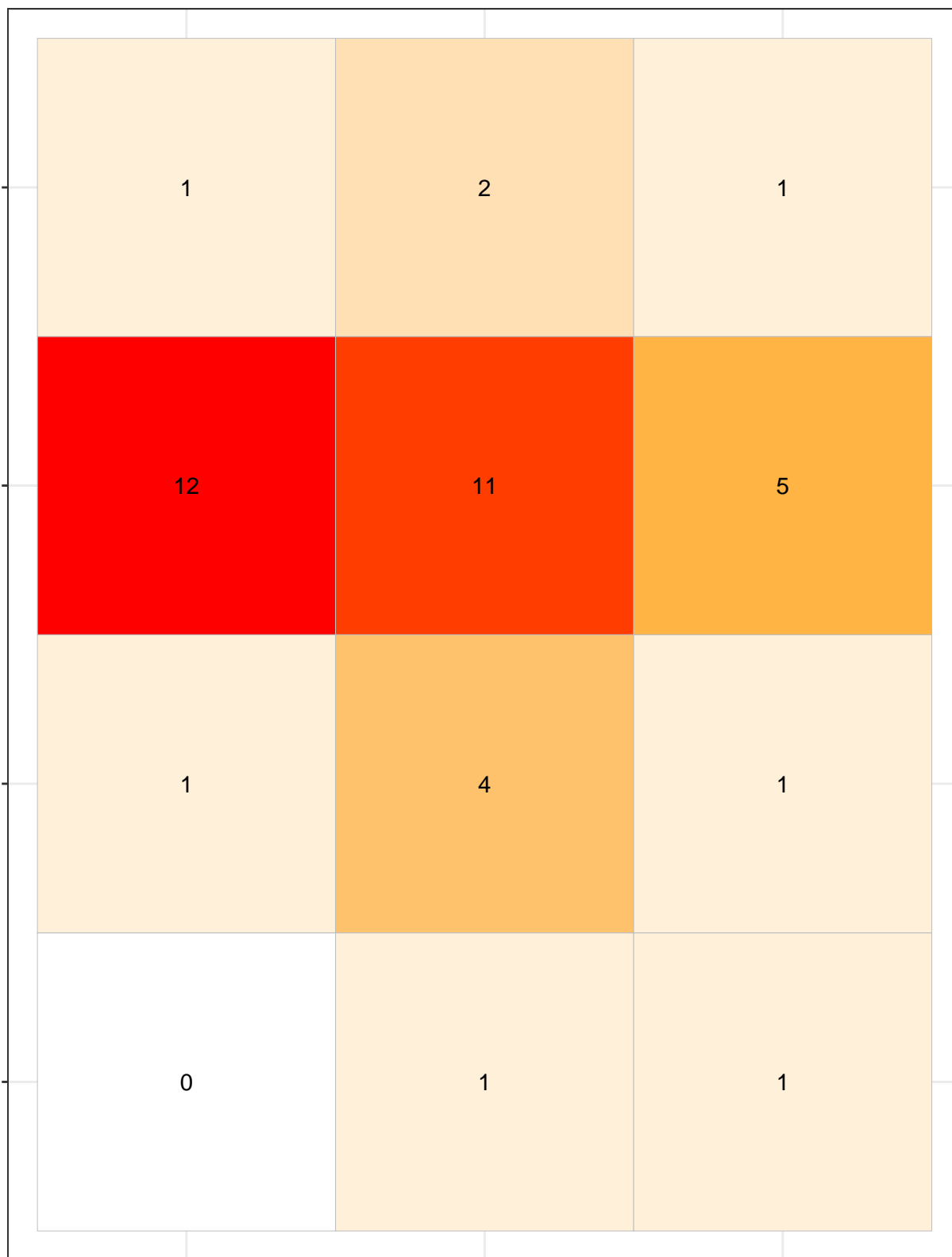
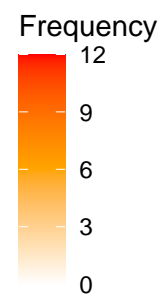
SVN

NO

YES

YES: INCREMENTAL

Conflict.detection



External.VCS.means_____Conflict.awareness..User.

External.VCS.means

SVN

2

0

1

N/A

16

2

5

GIT

2

0

3

CUSTOM MODEL REPO

1

0

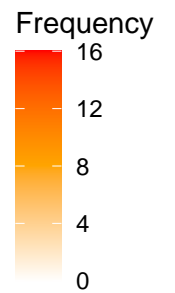
0

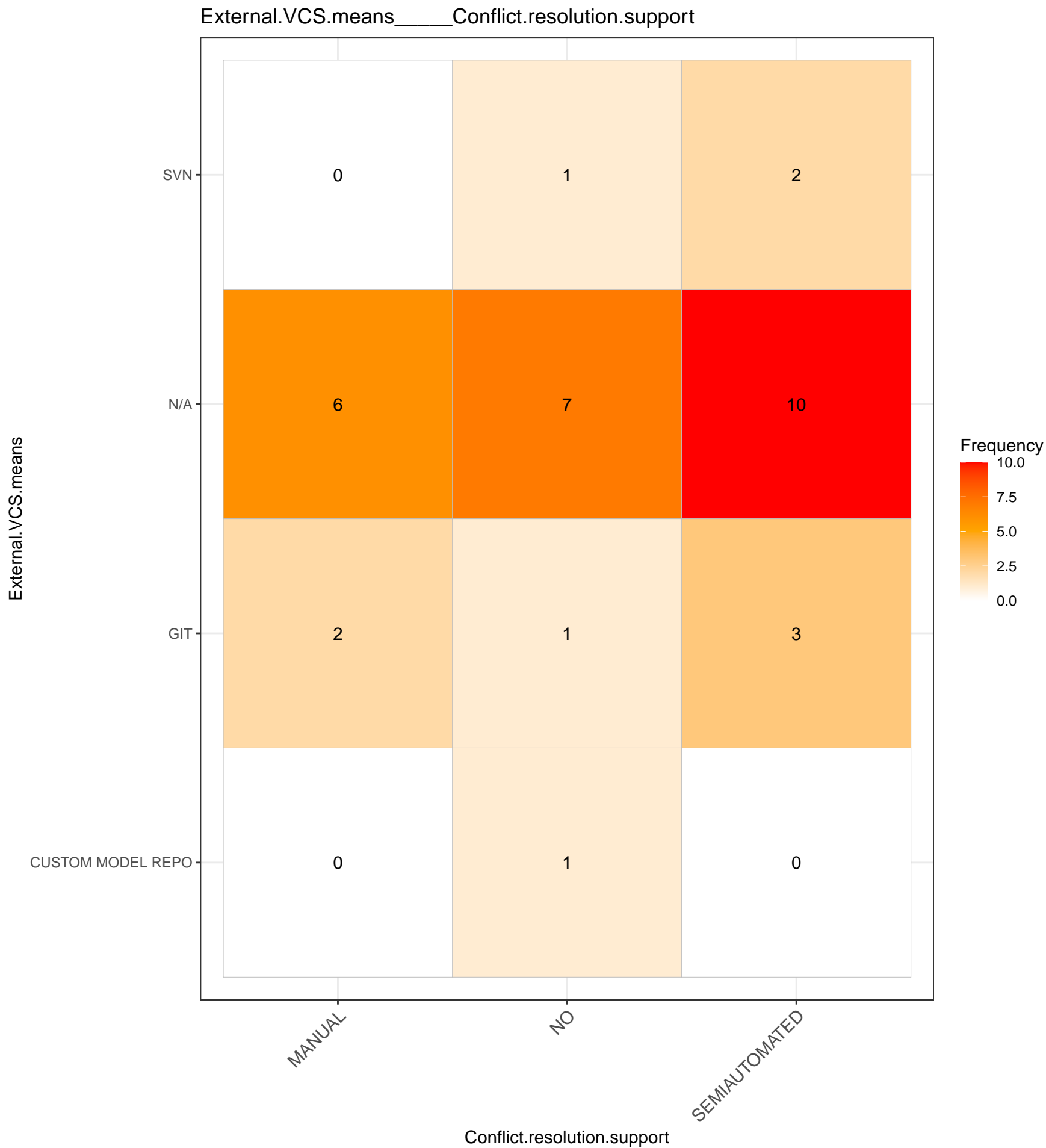
NO

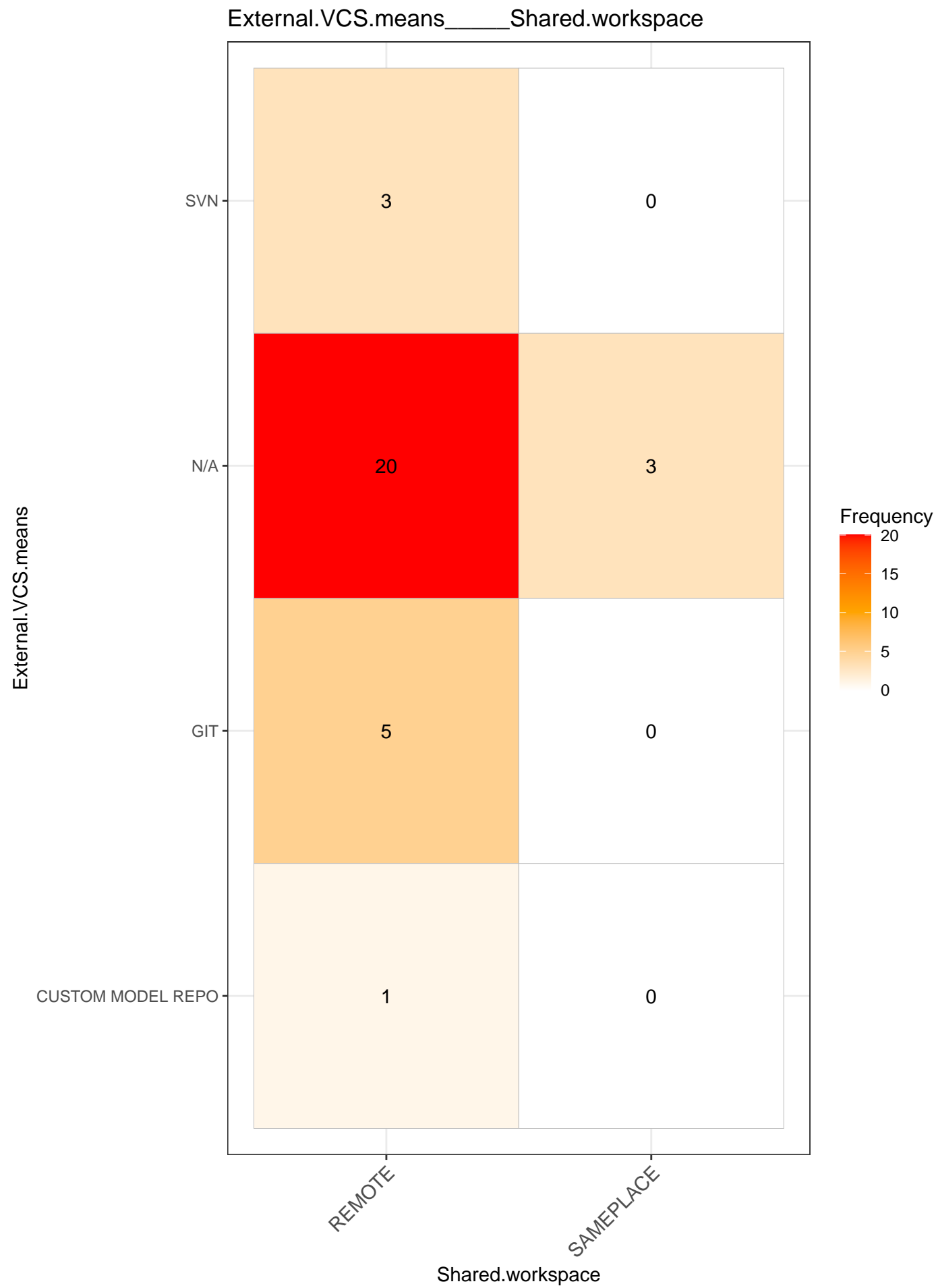
PROMPT ACTION

WARNING

Conflict.awareness..User.

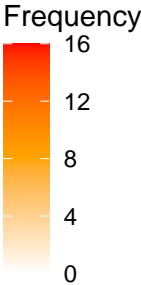
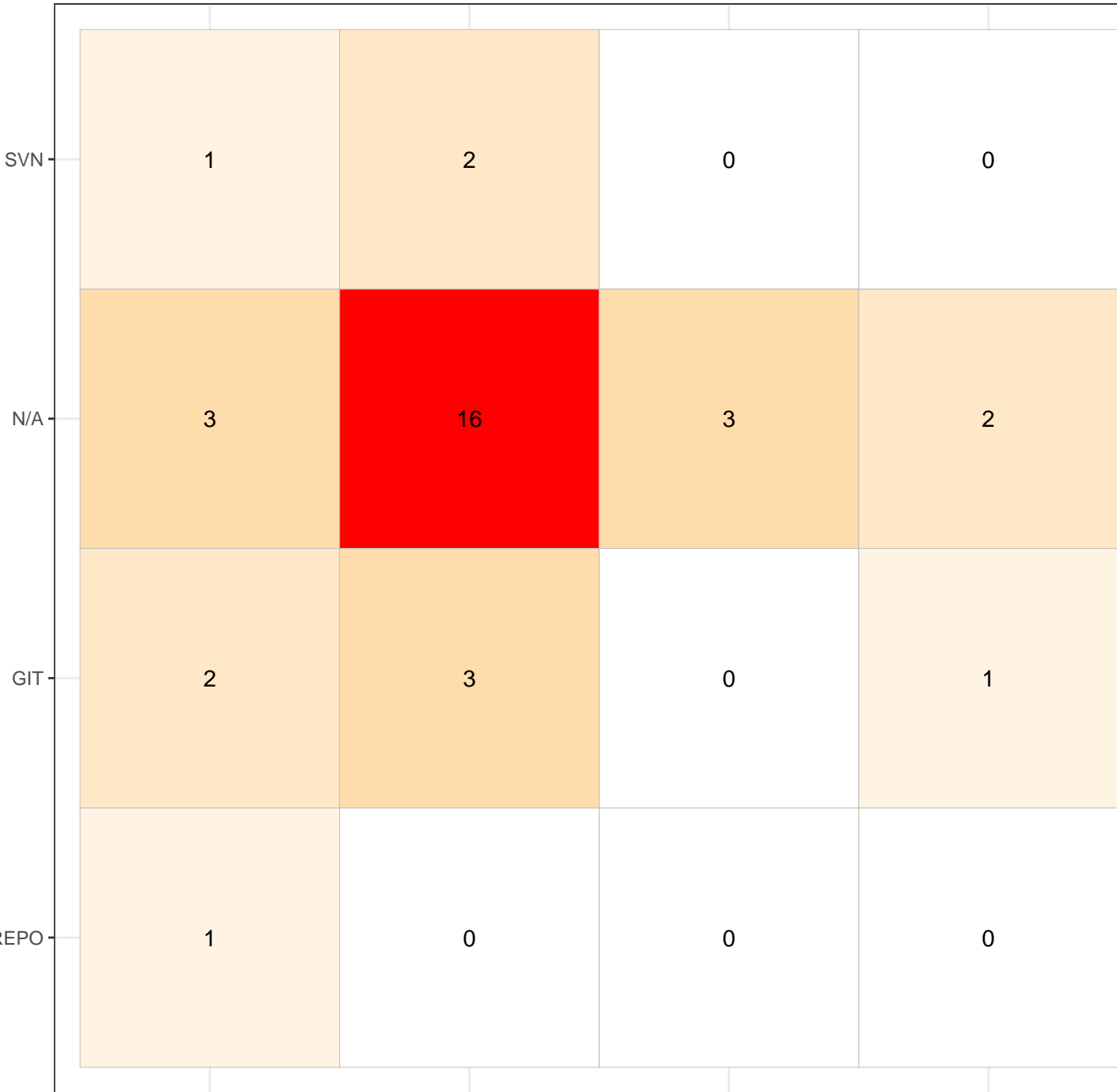






External.VCS.means_____Network.architecture

External.VCS.means



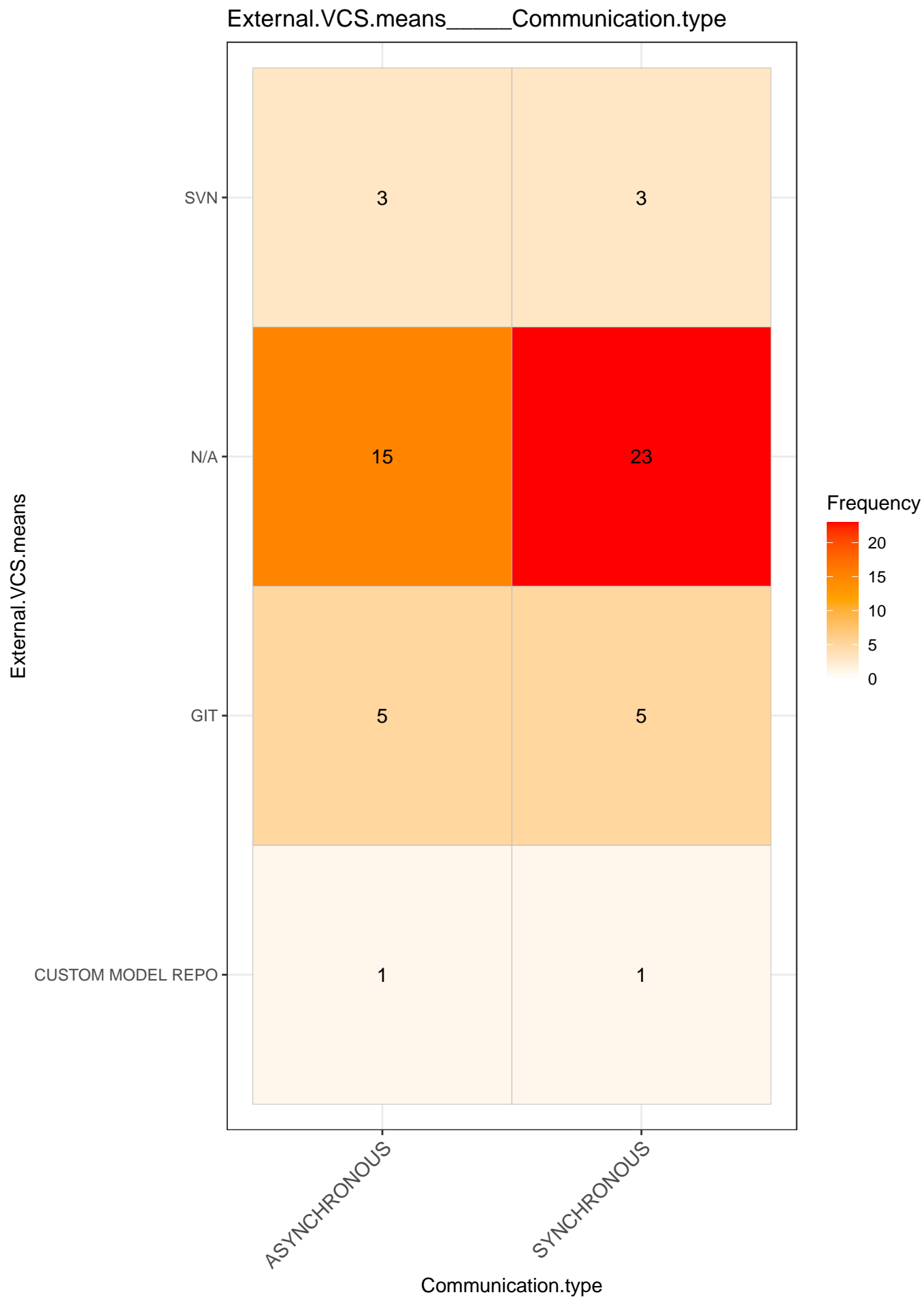
CENTRALIZED: MULTIPLE SERVERS

CENTRALIZED: SINGLE SERVER

MIXED

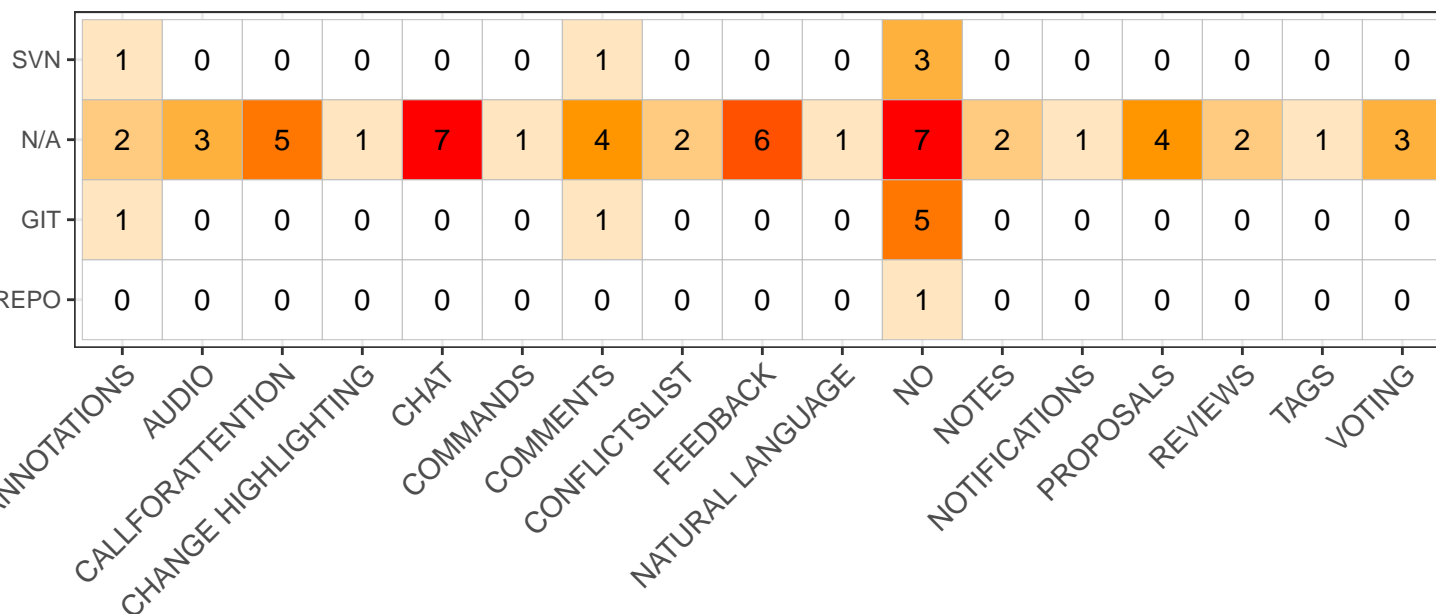
P2P

Network.architecture

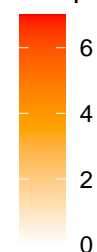


External.VCS.means

External.VCS.means_____Communication.means...builtin



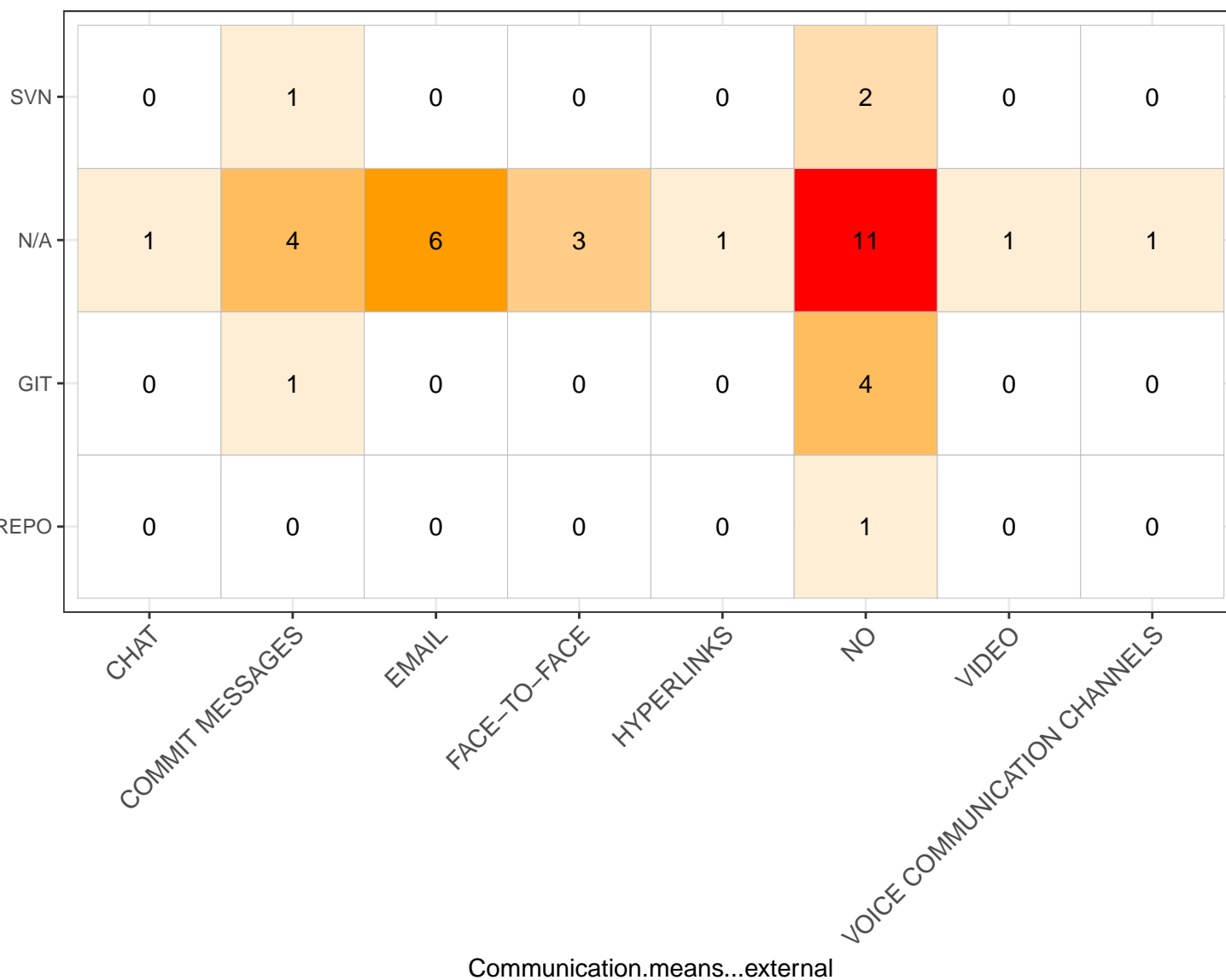
Frequency



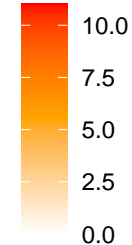
Communication.means...builtin

External.VCS.means

External.VCS.means_____Communication.means...external



Frequency



External.VCS.means

External.VCS.means_____Communication.means...mixed

SVN

1

0

0

2

N/A

0

1

2

20

GIT

1

0

0

4

CUSTOM MODEL REPO

0

0

0

1

COMMIT MESSAGES

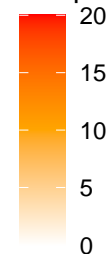
EMAIL

HYPERLINKS

NO

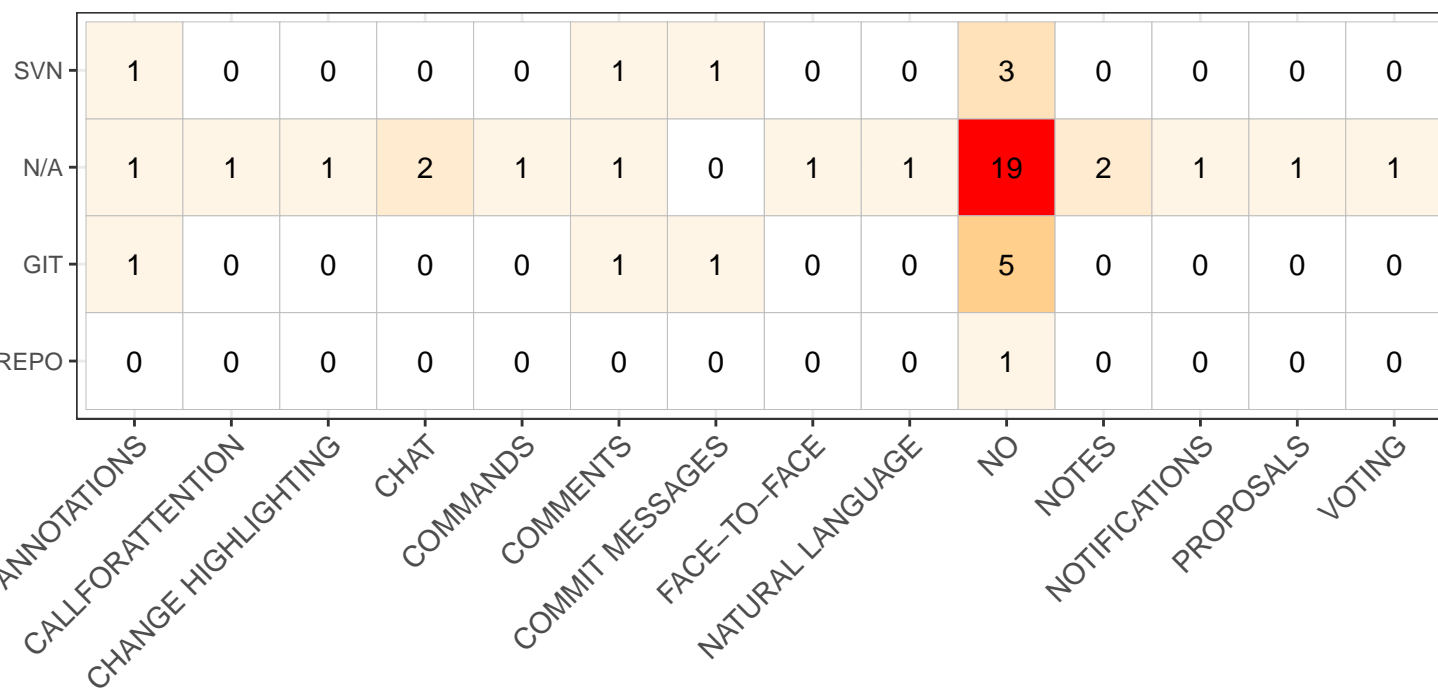
Communication.means...mixed

Frequency



External.VCS.means

External.VCS.means_____Communication.means.links

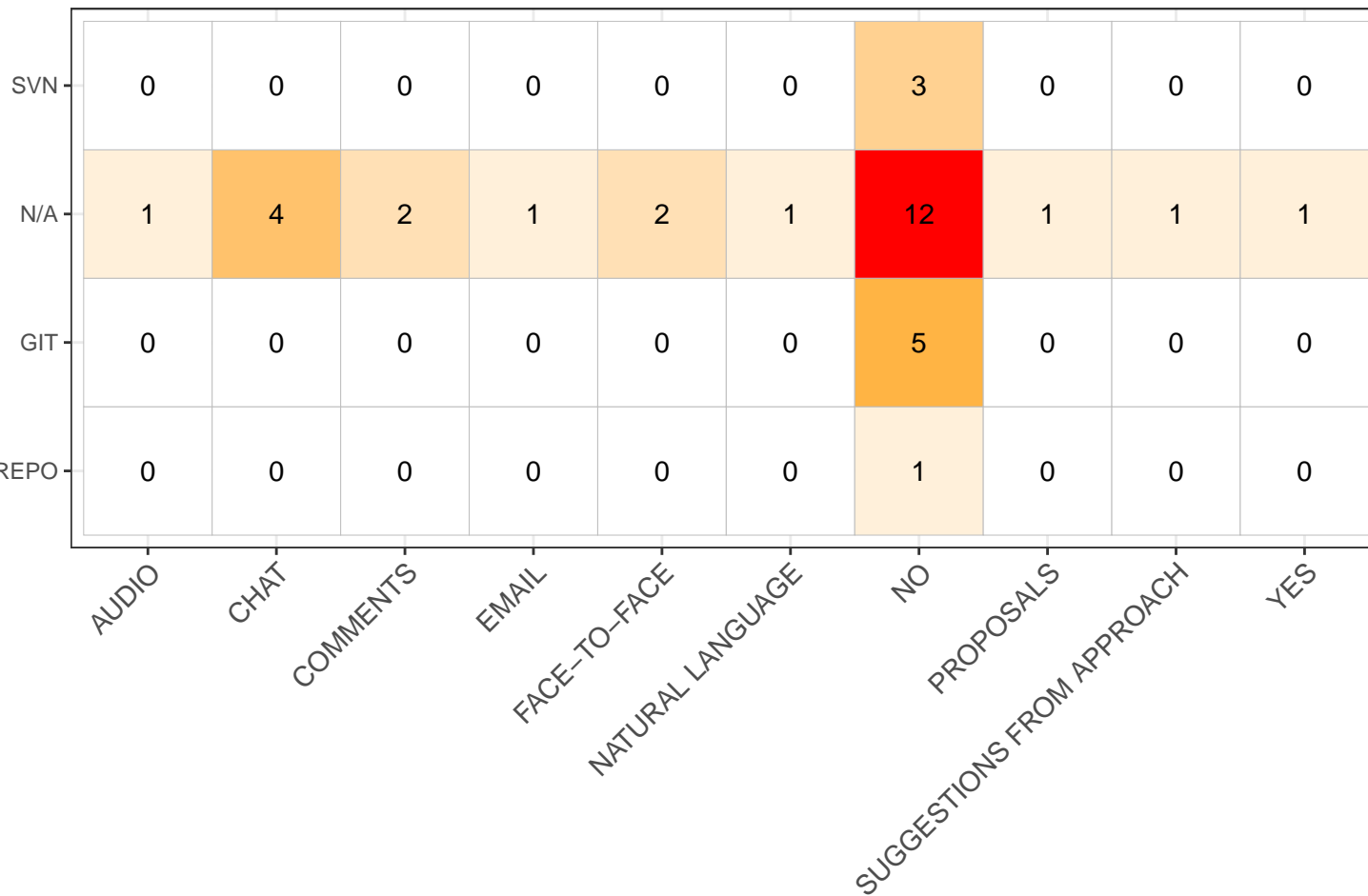


Frequency



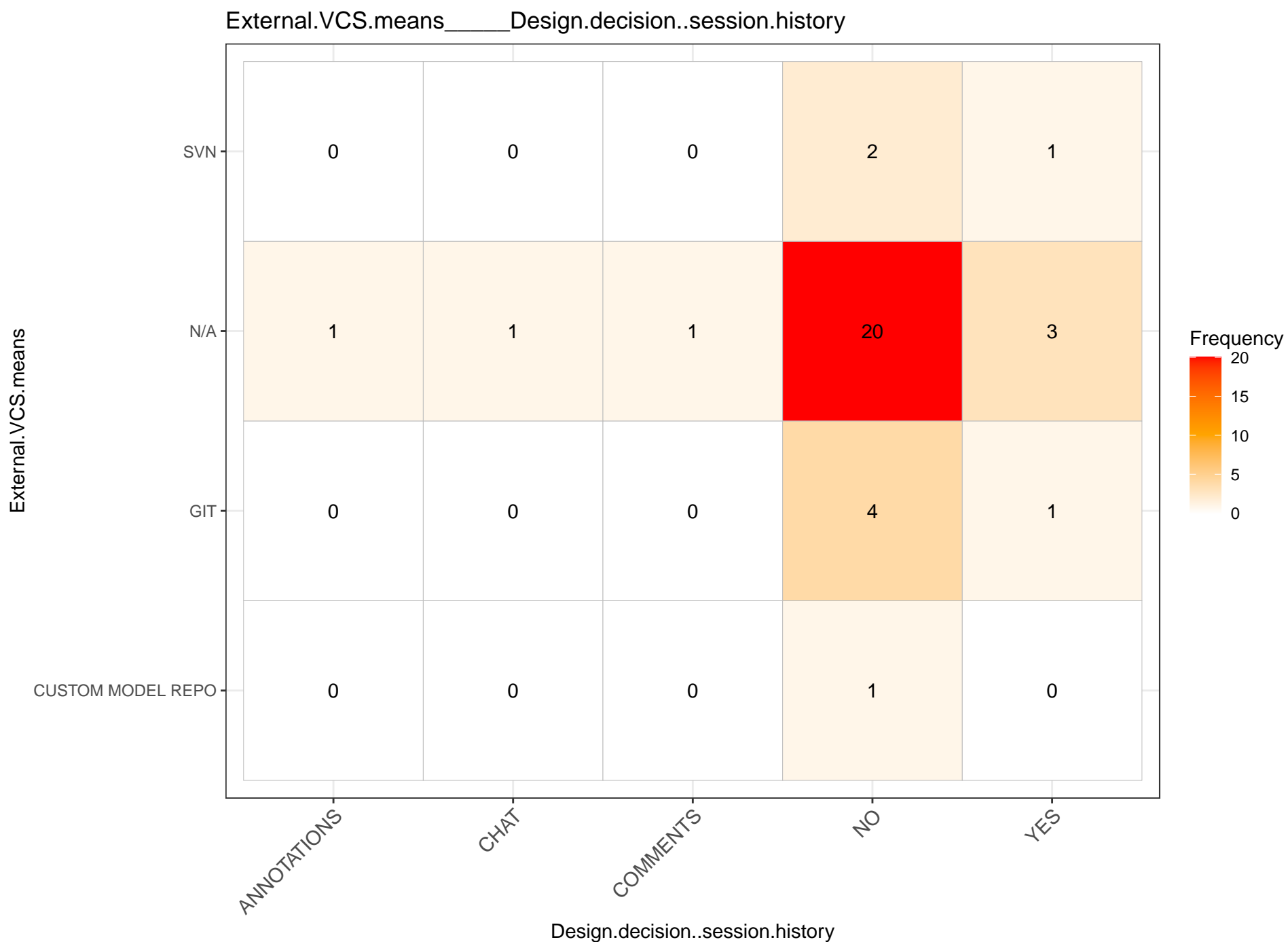
External.VCS.means

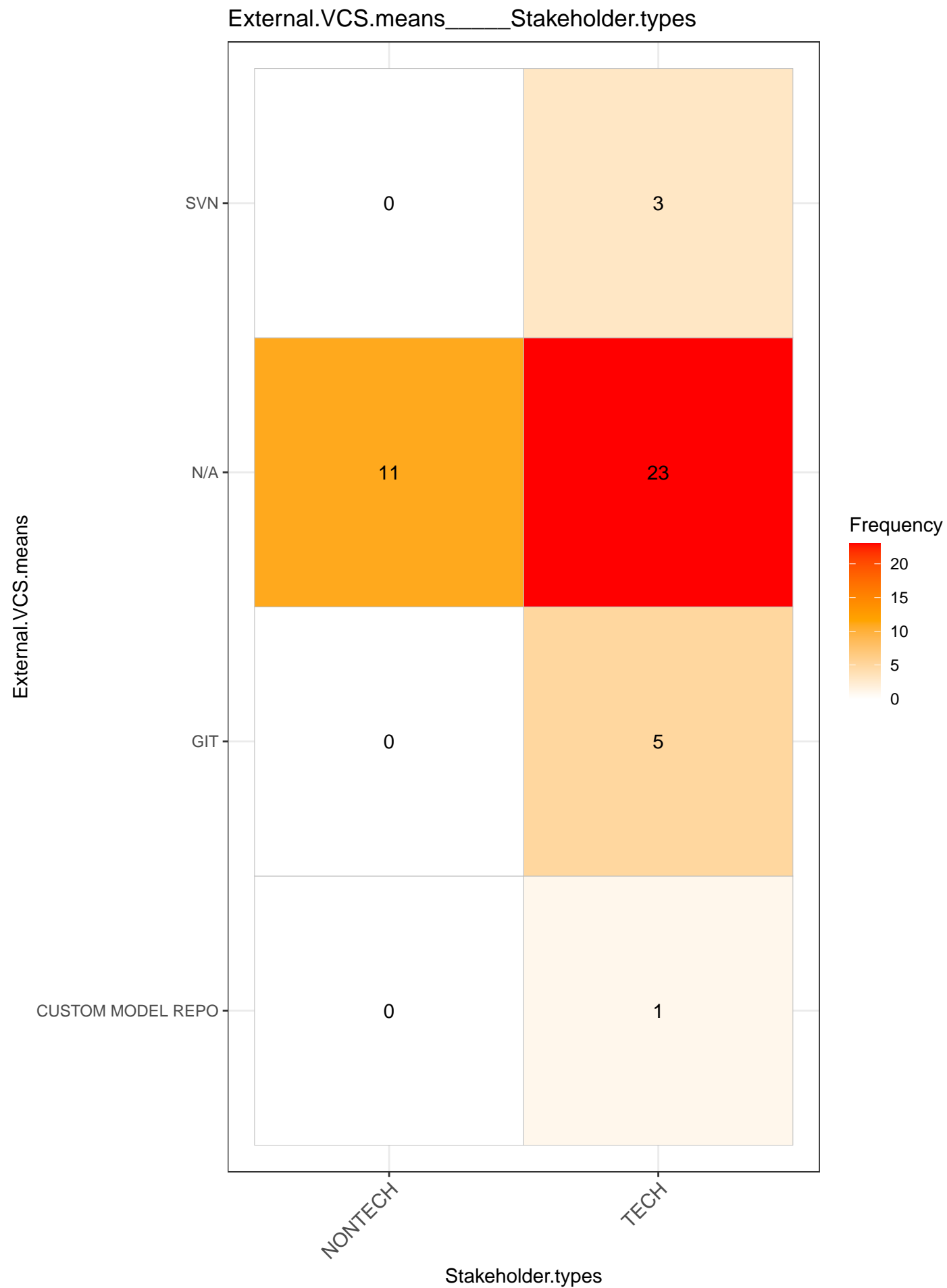
External.VCS.means_____Design.decision..discussion

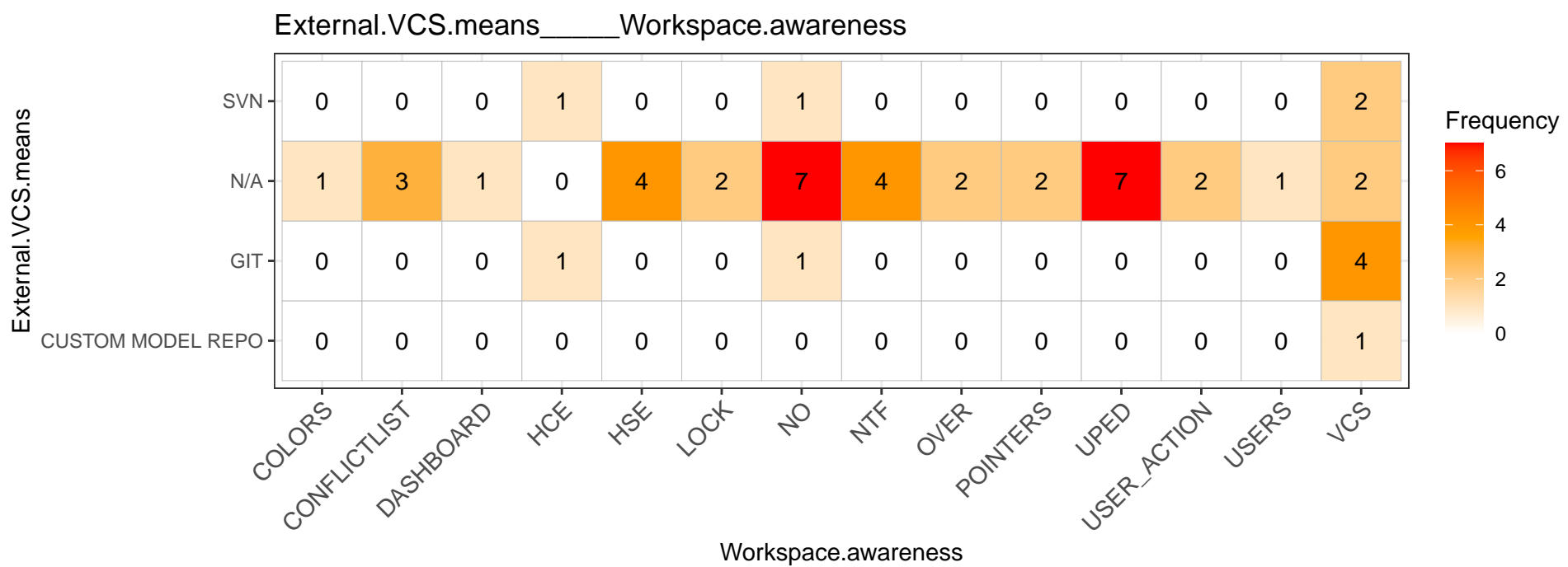


Frequency
12
9
6
3
0

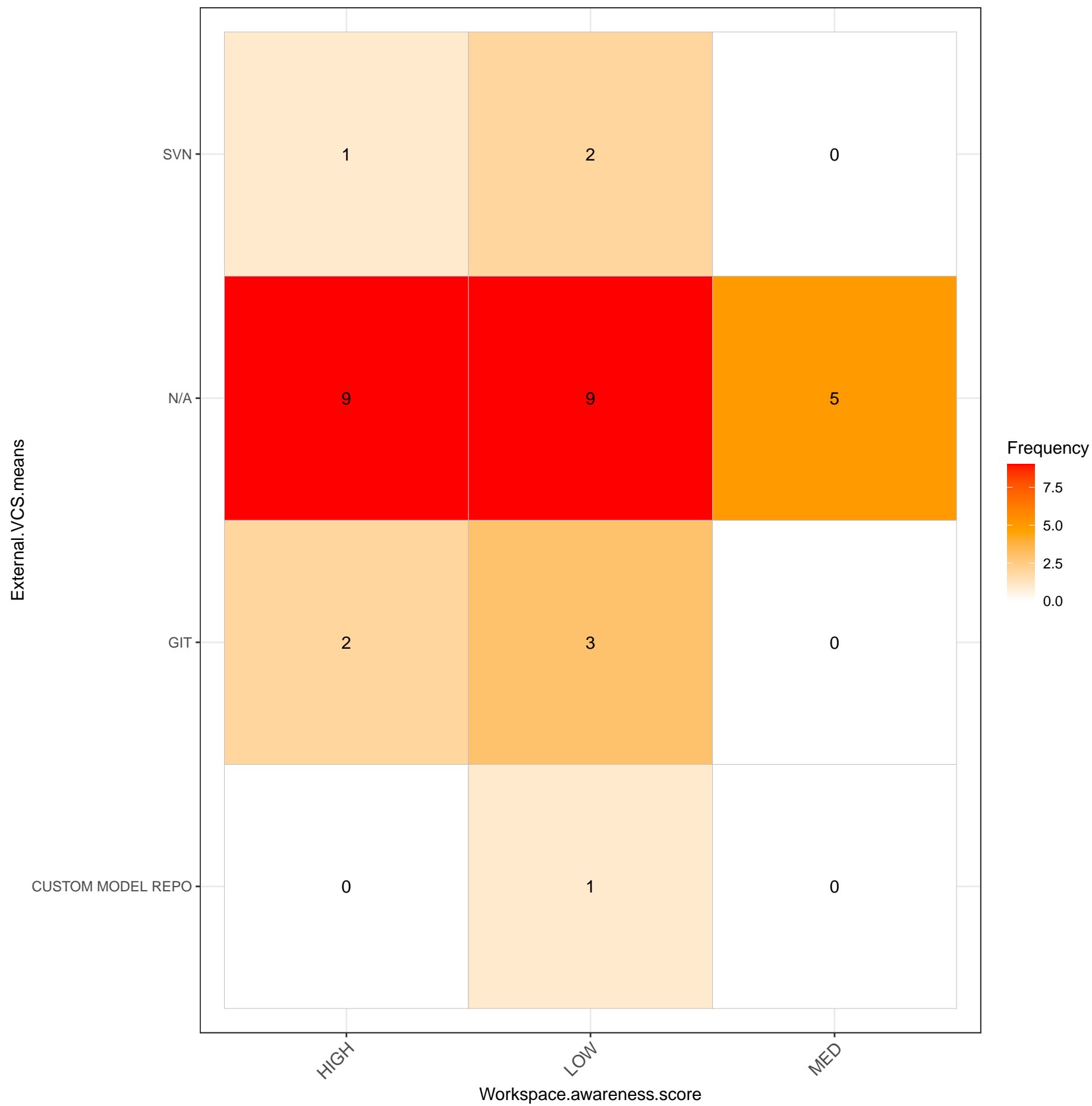
Design.decision..discussion

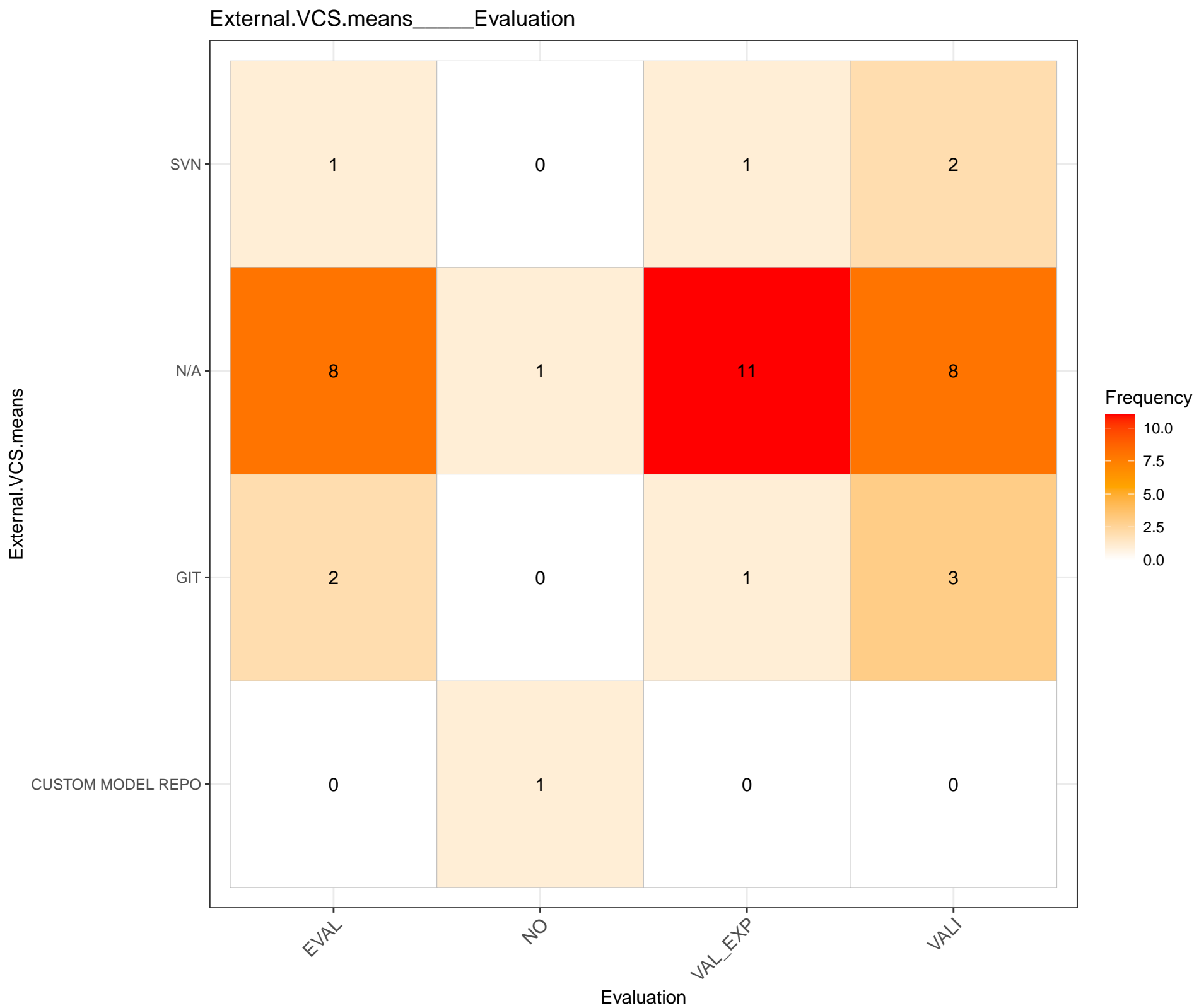


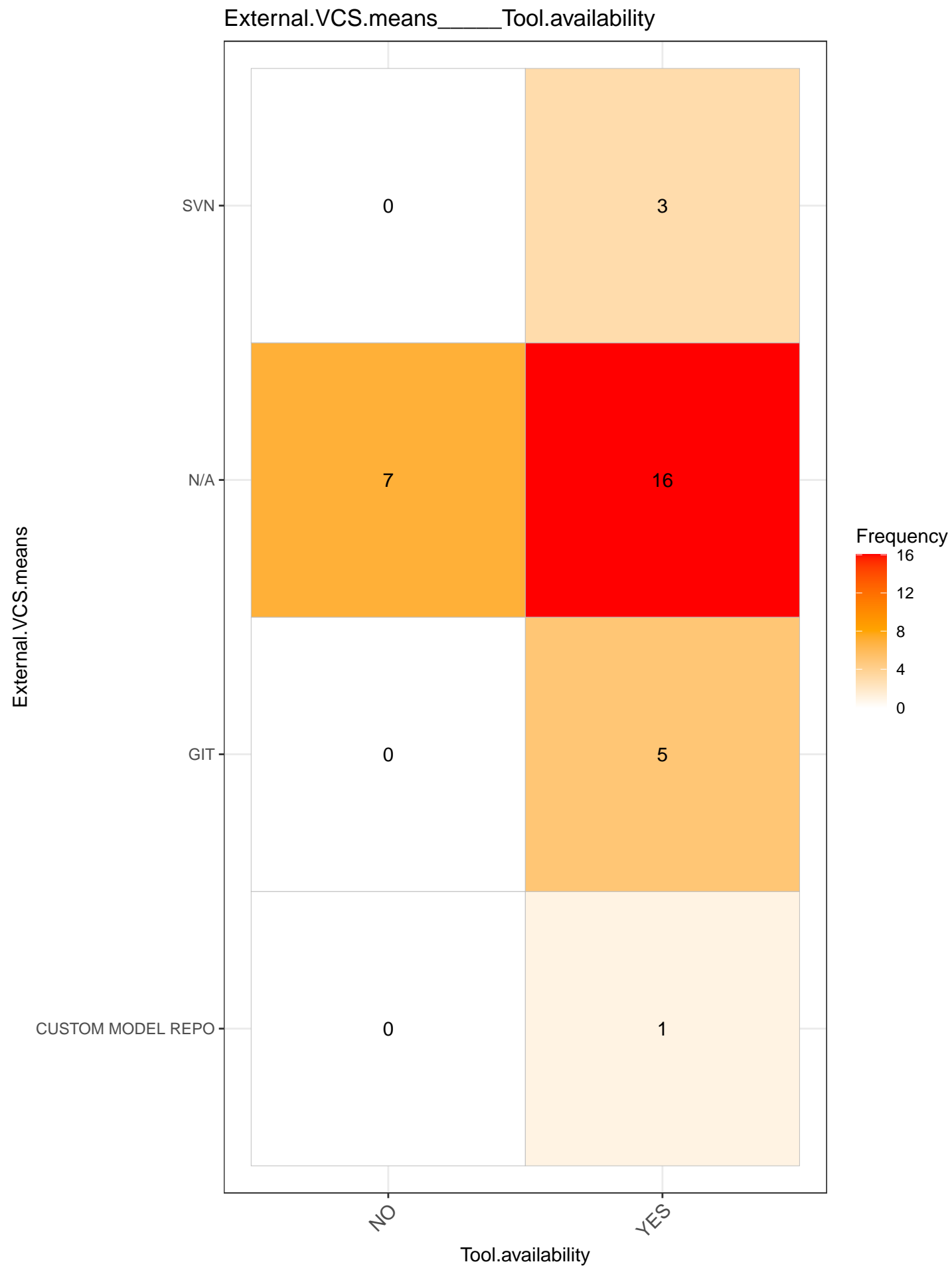


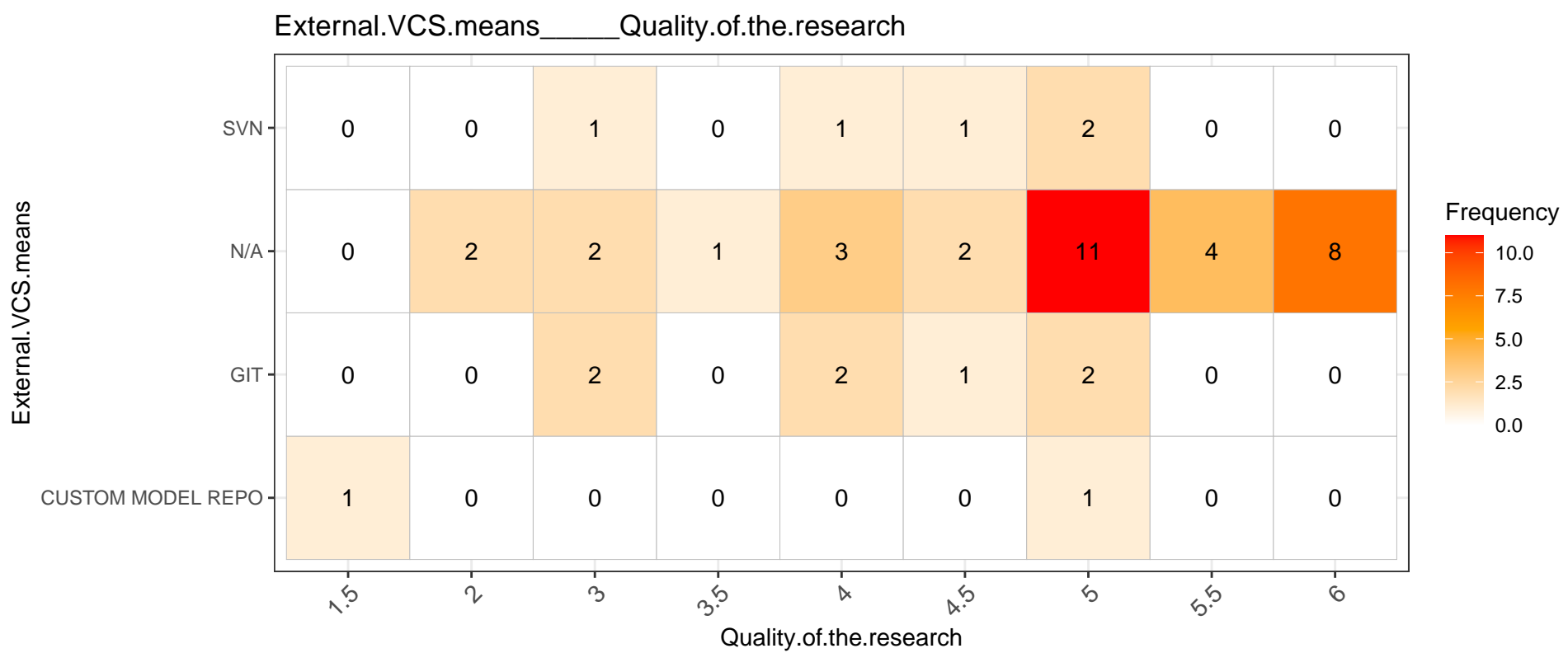


External.VCS.means_____Workspace.awareness.score

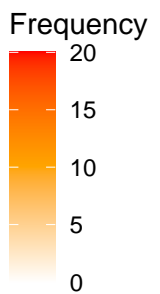
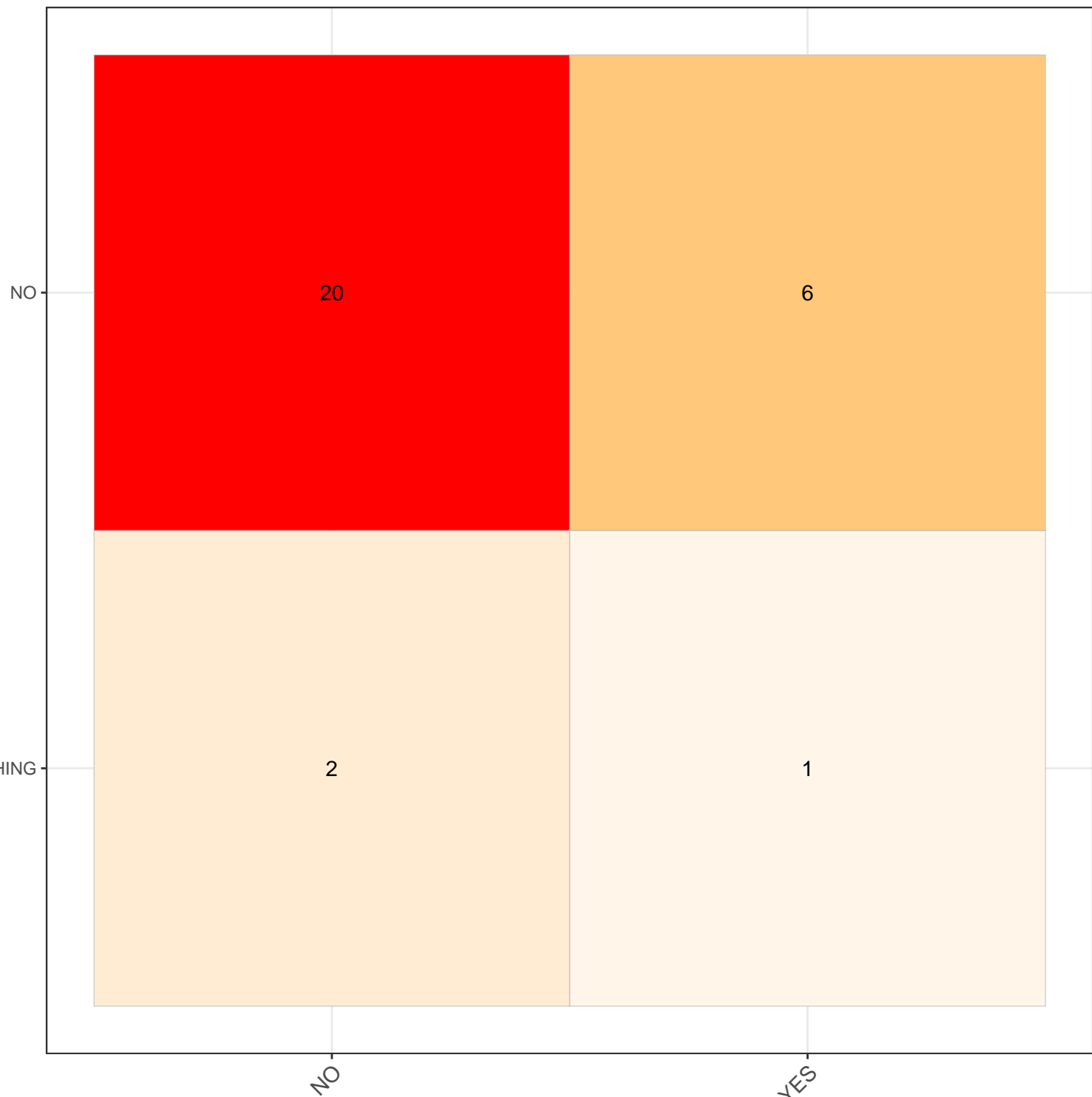




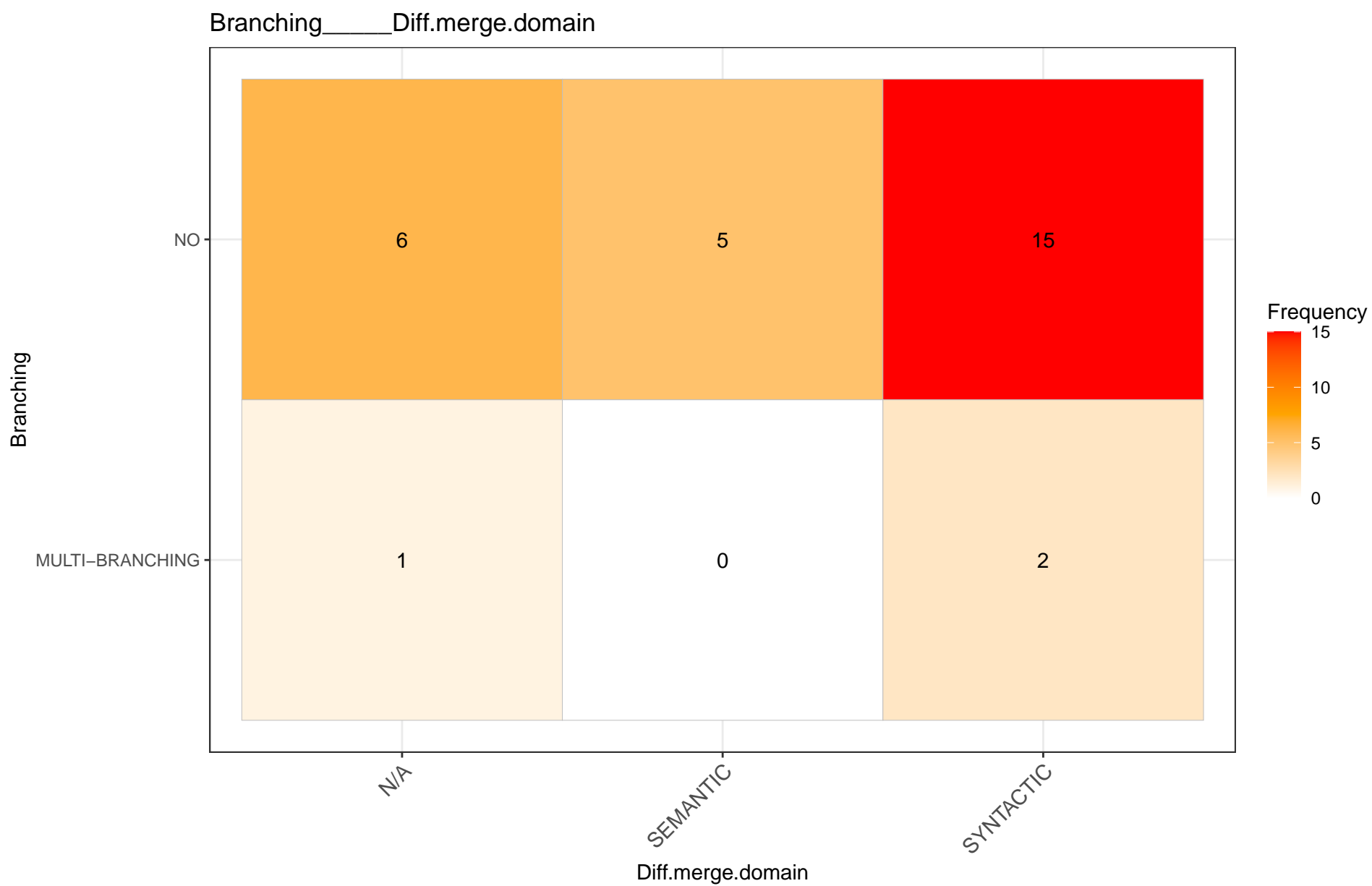


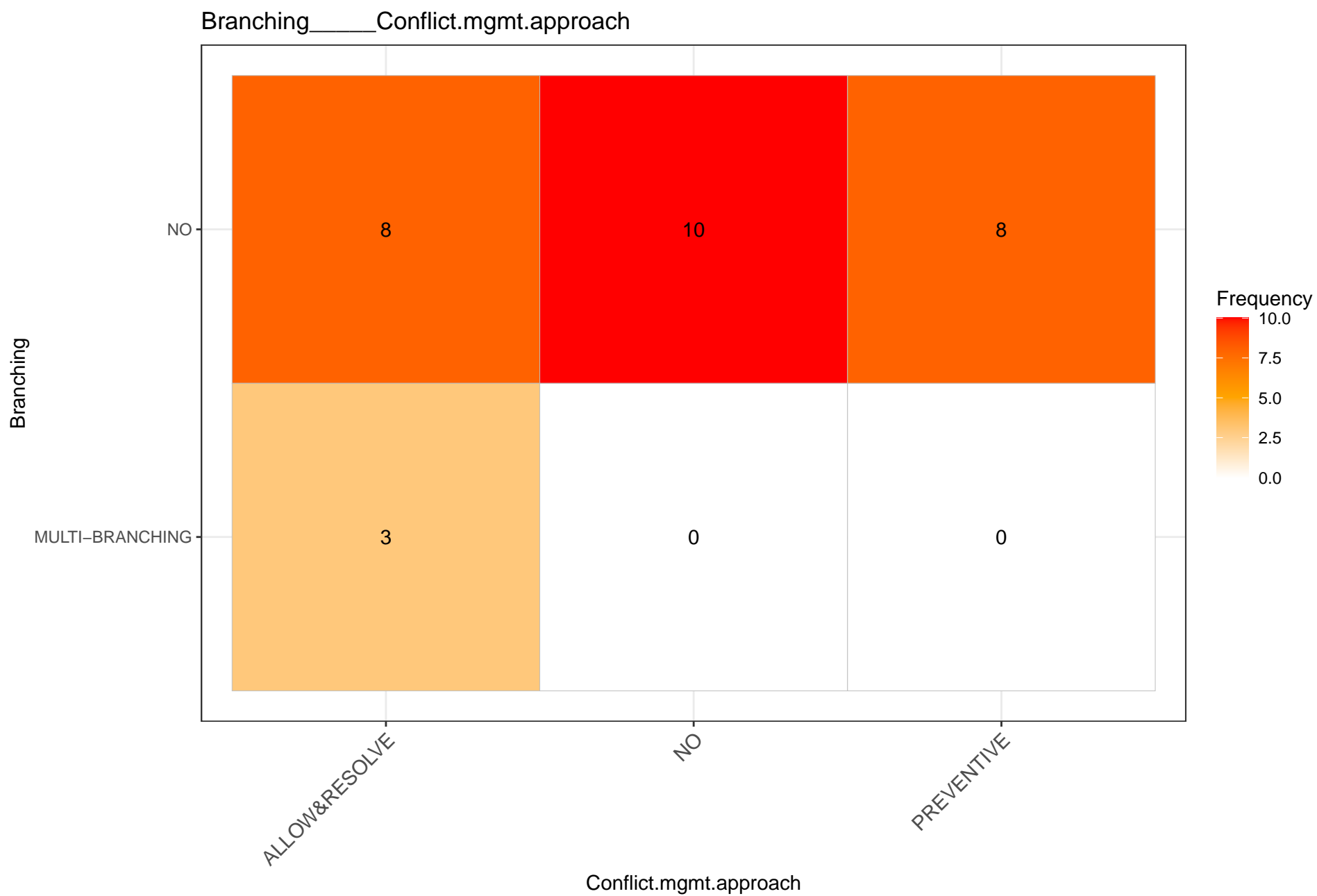


Branching_____Model.merging.support

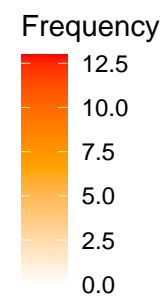
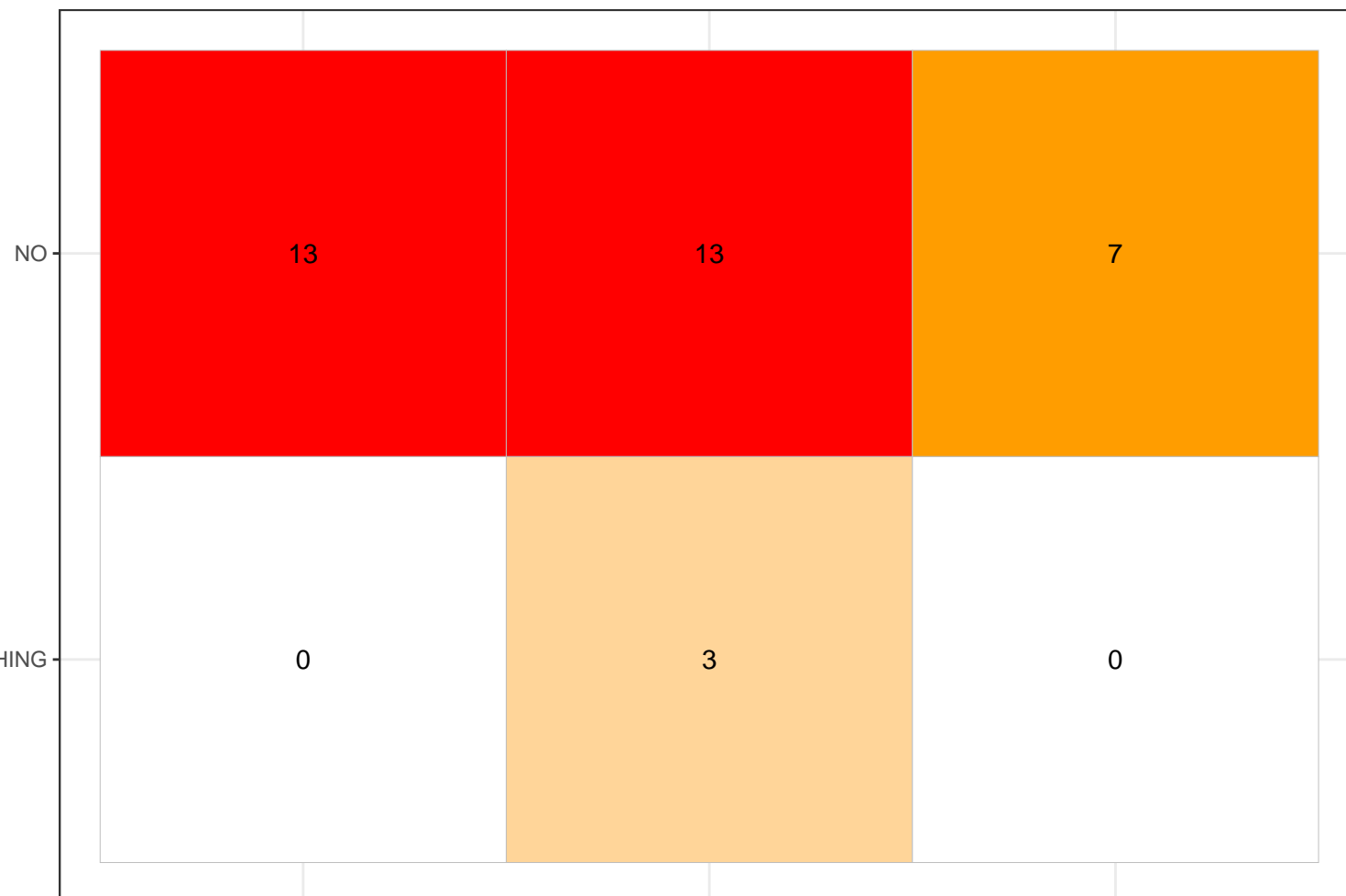


Model.merging.support





Branching_____Conflict.detection



MULTI-BRANCHING

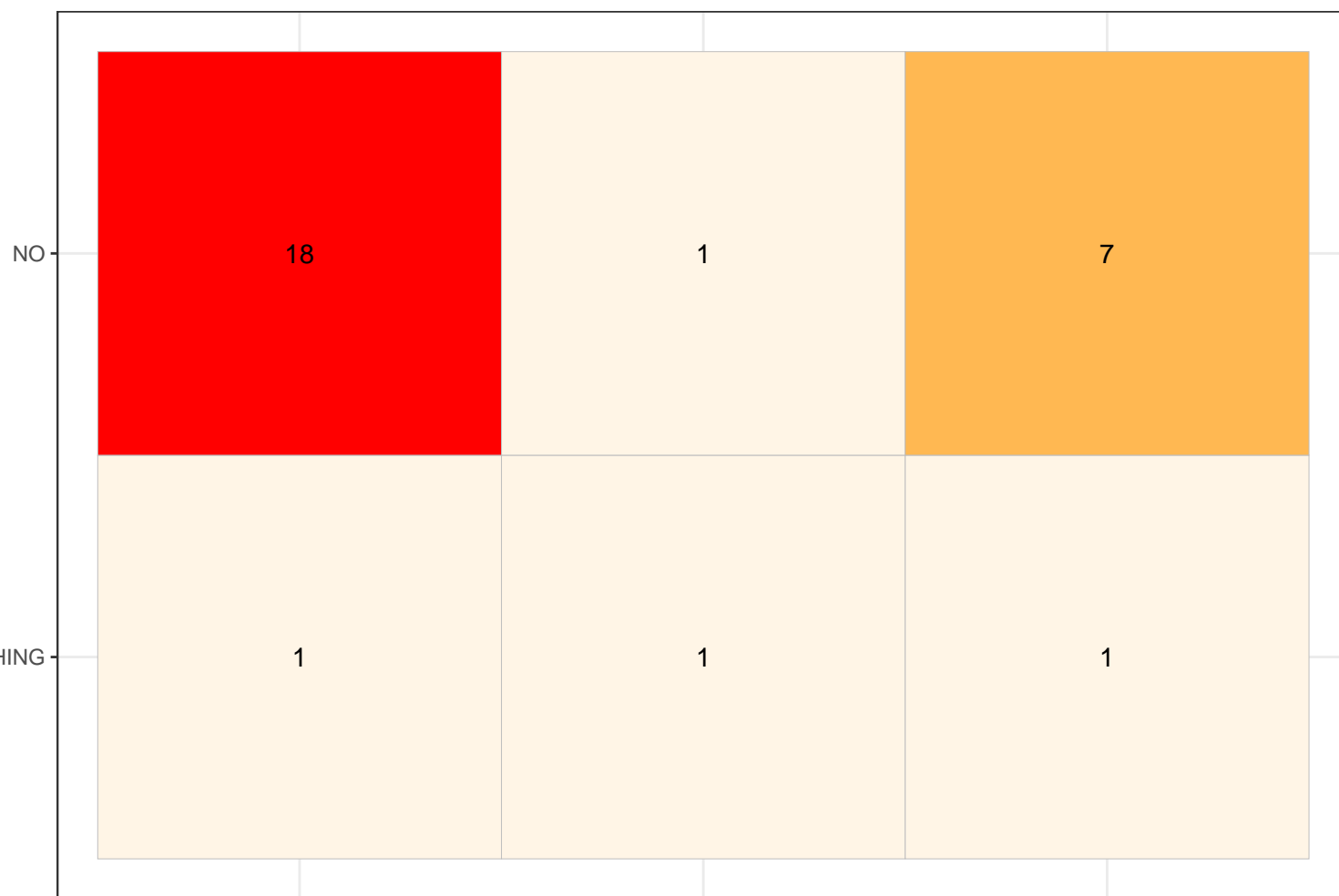
NO

YES

YES: INCREMENTAL

Conflict.detection

Branching_____Conflict.awareness..User.



Frequency

15
10
5
0

Branching

MULTI-BRANCHING

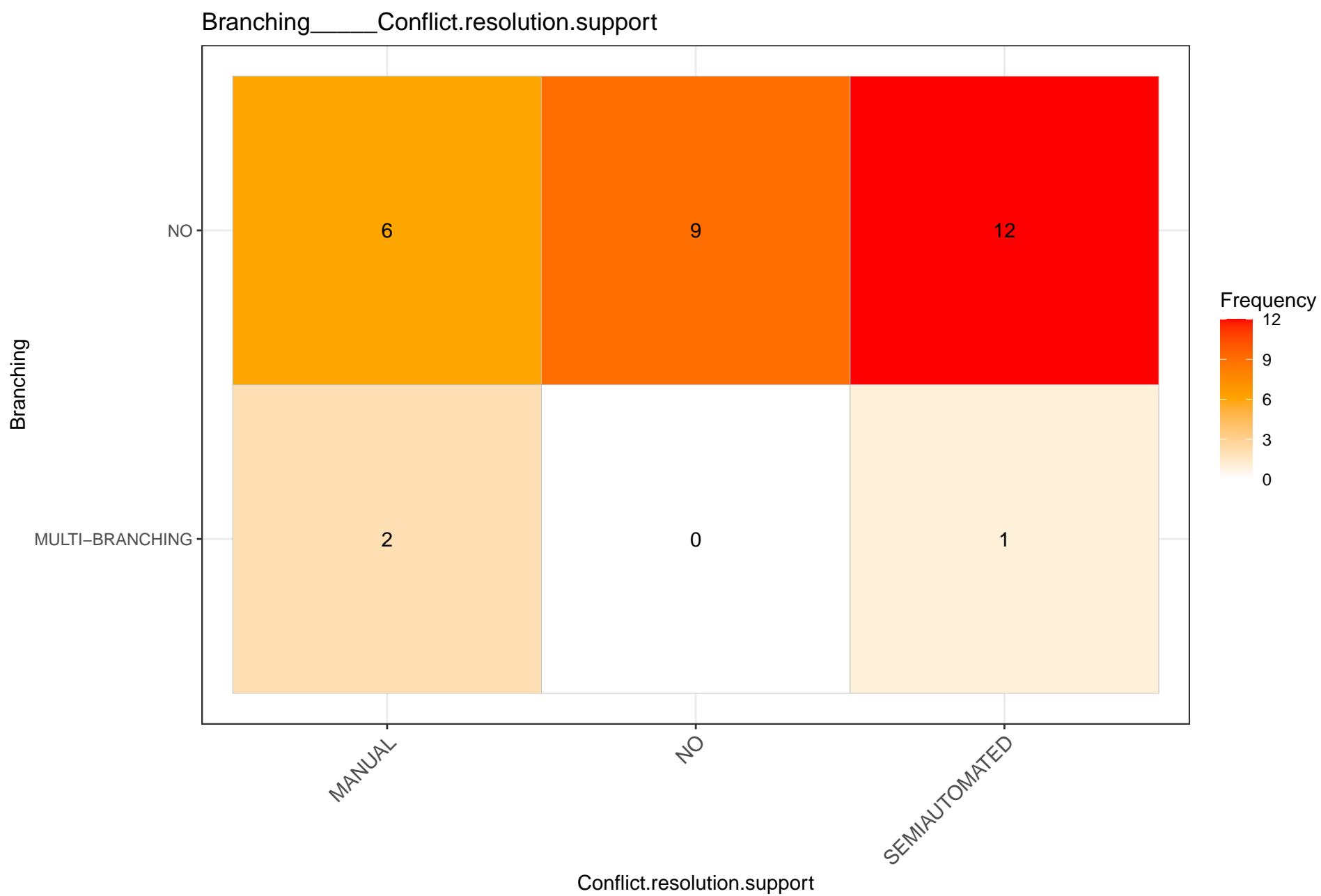
NO

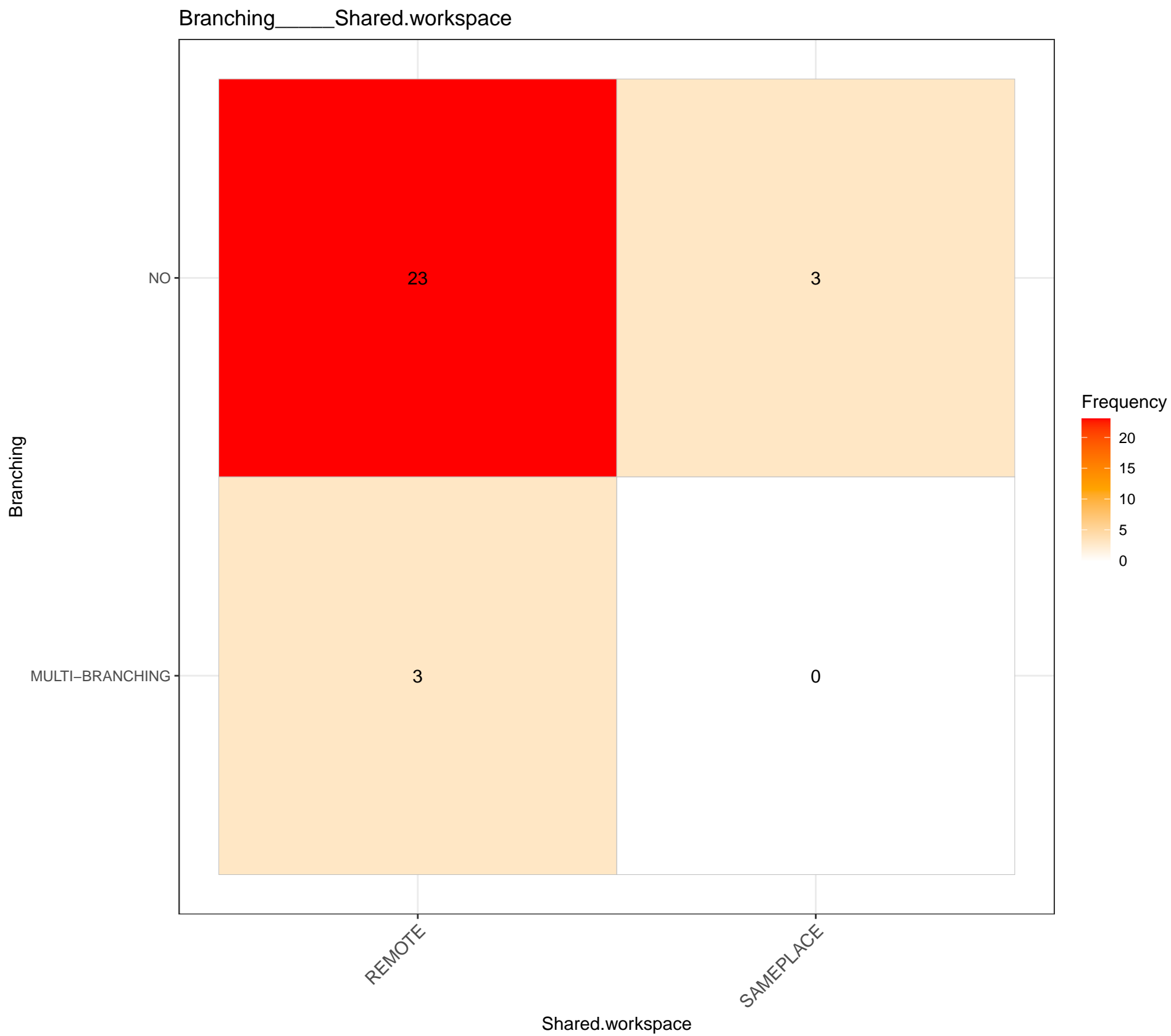
NO

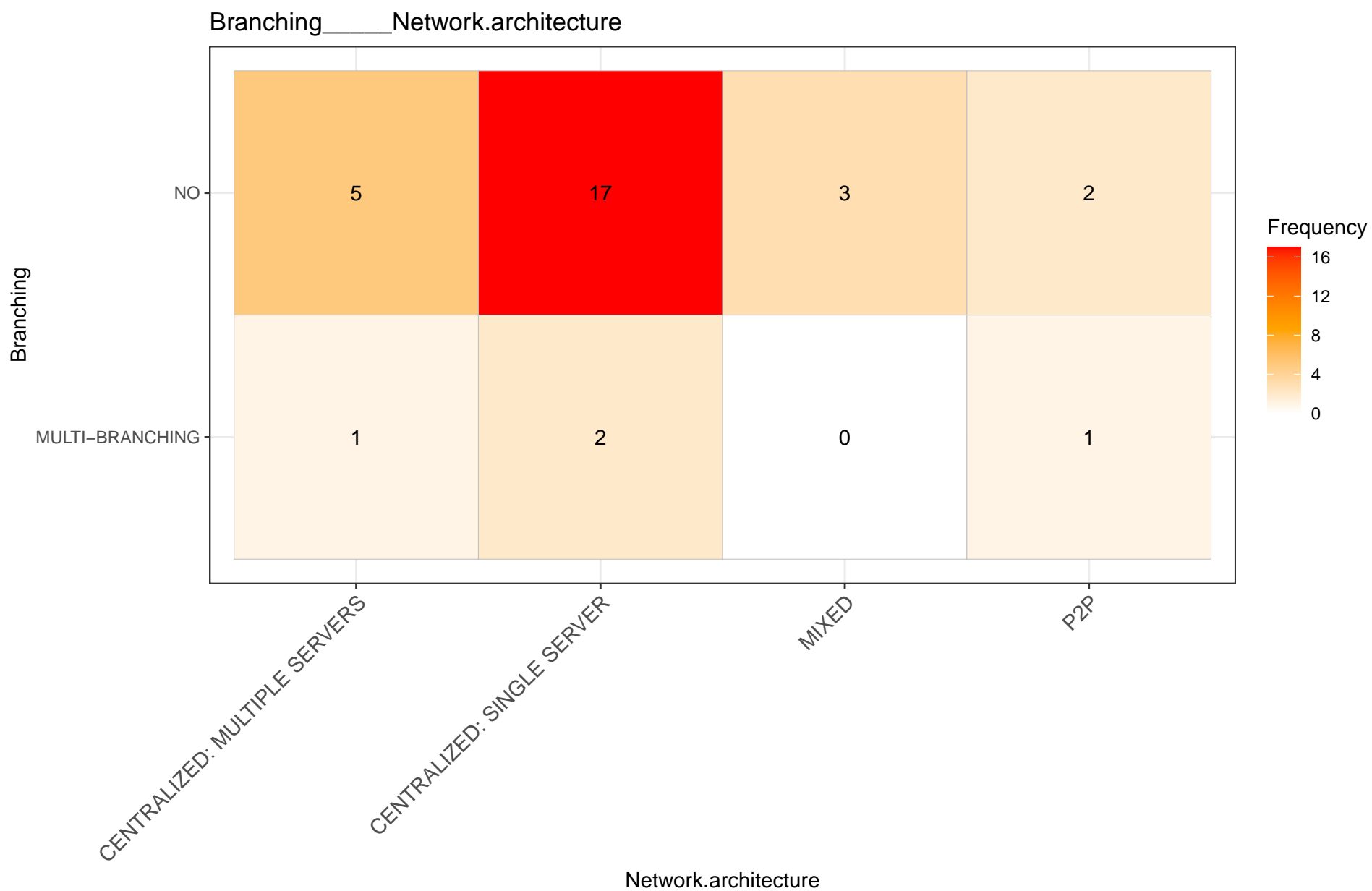
PROMPT ACTION

WARNING

Conflict.awareness..User.







Branching_____Communication.type

Branching

NO

18

26

MULTI-BRANCHING

3

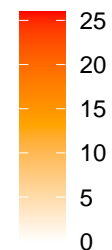
3

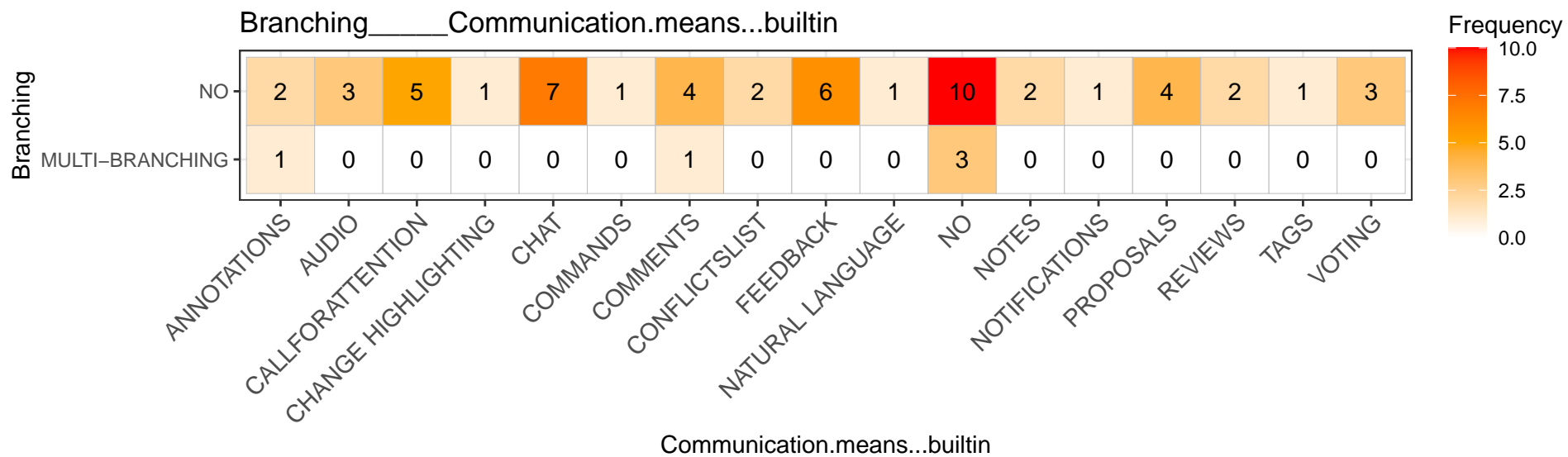
ASYNCHRONOUS

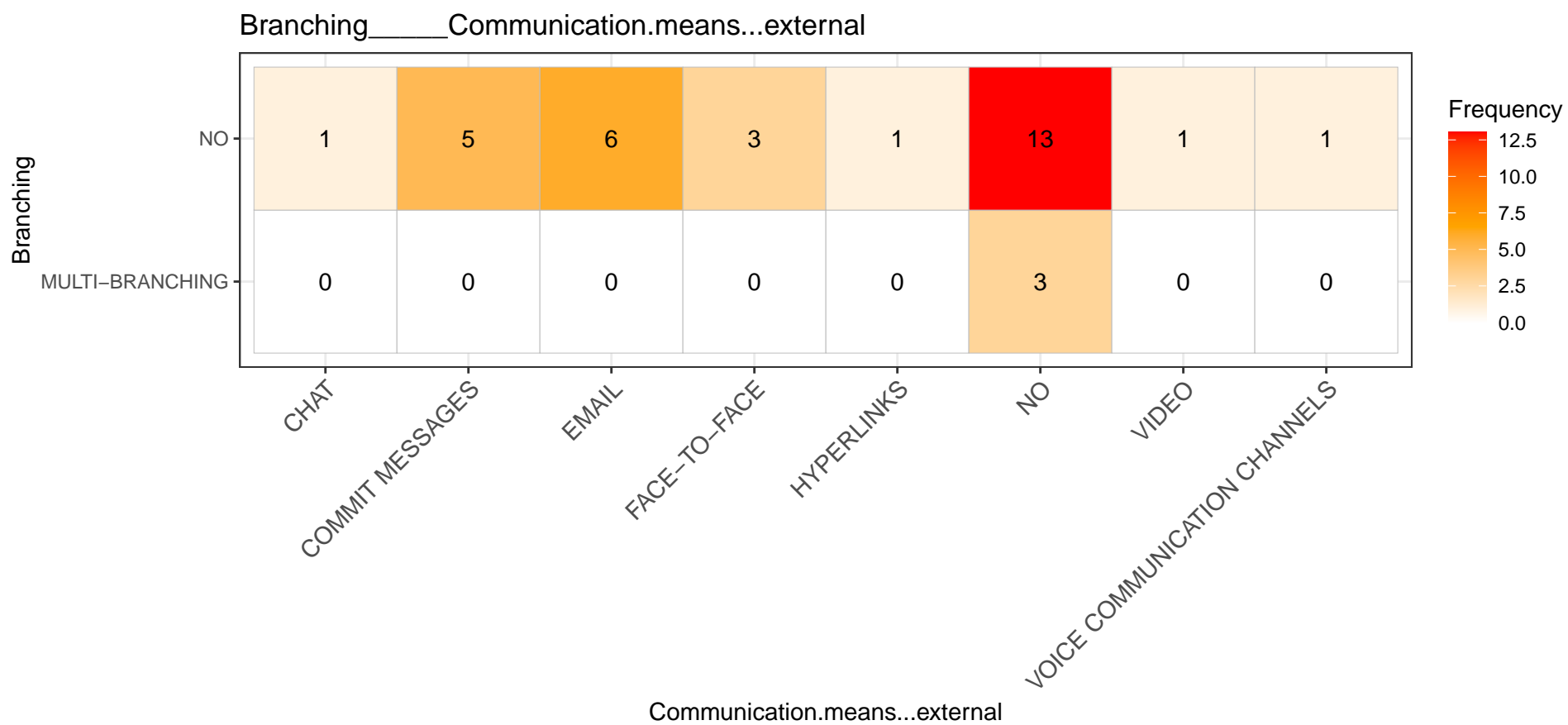
SYNCHRONOUS

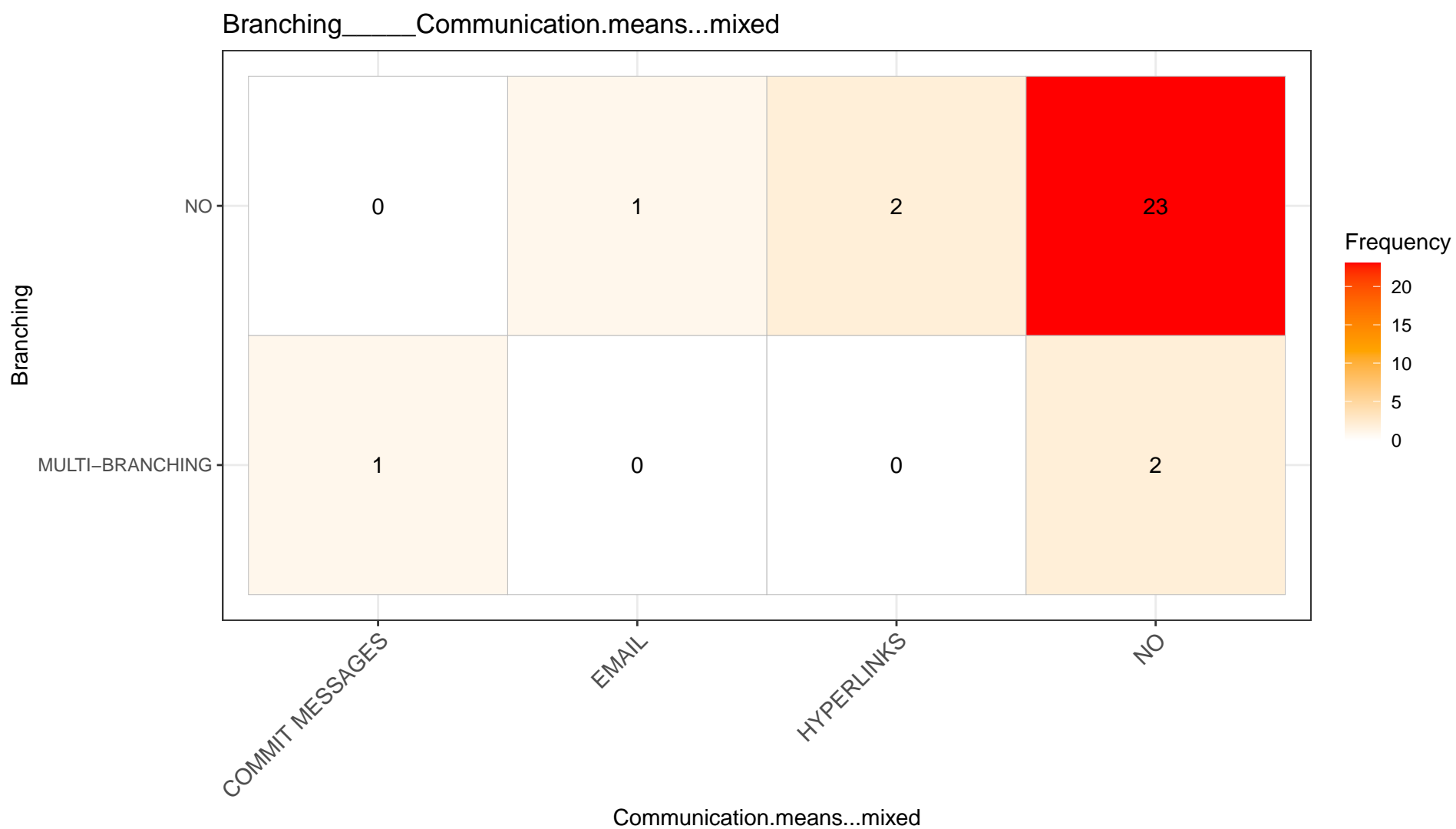
Communication.type

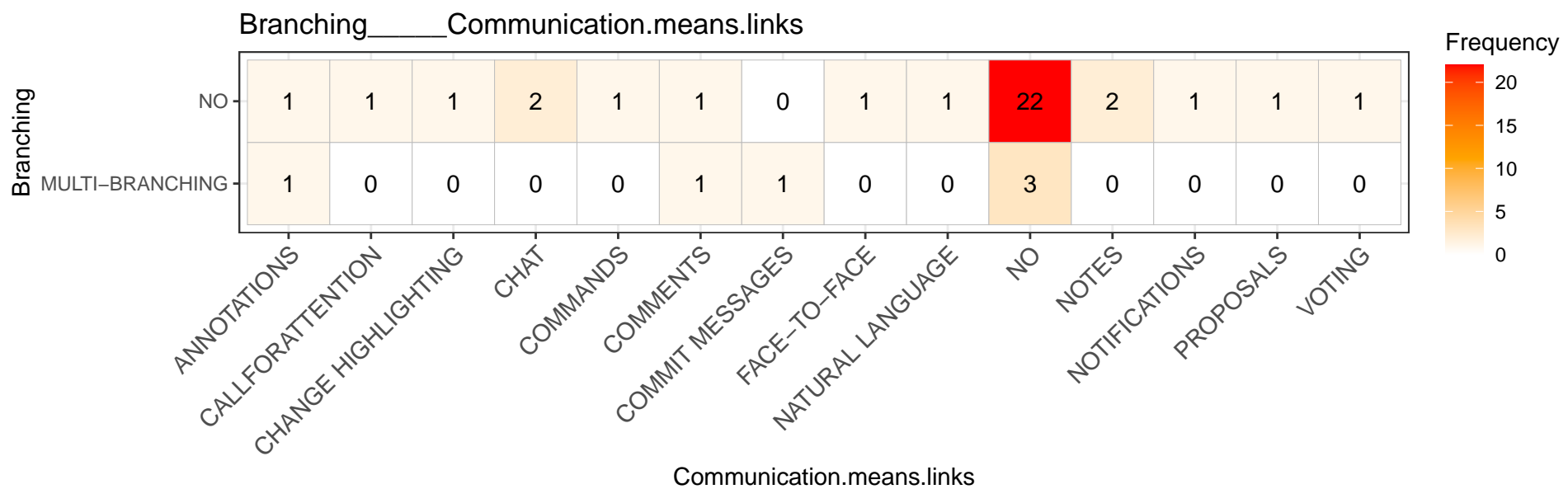
Frequency





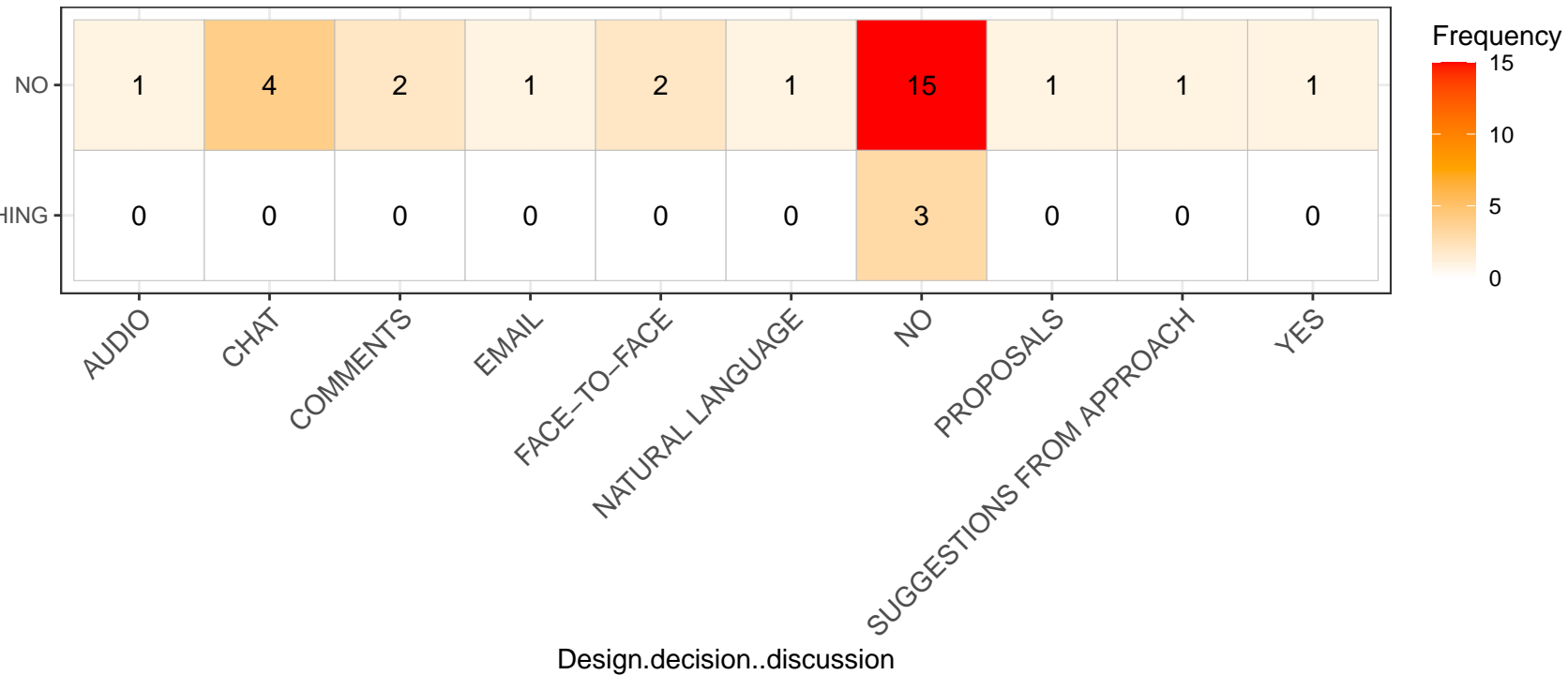


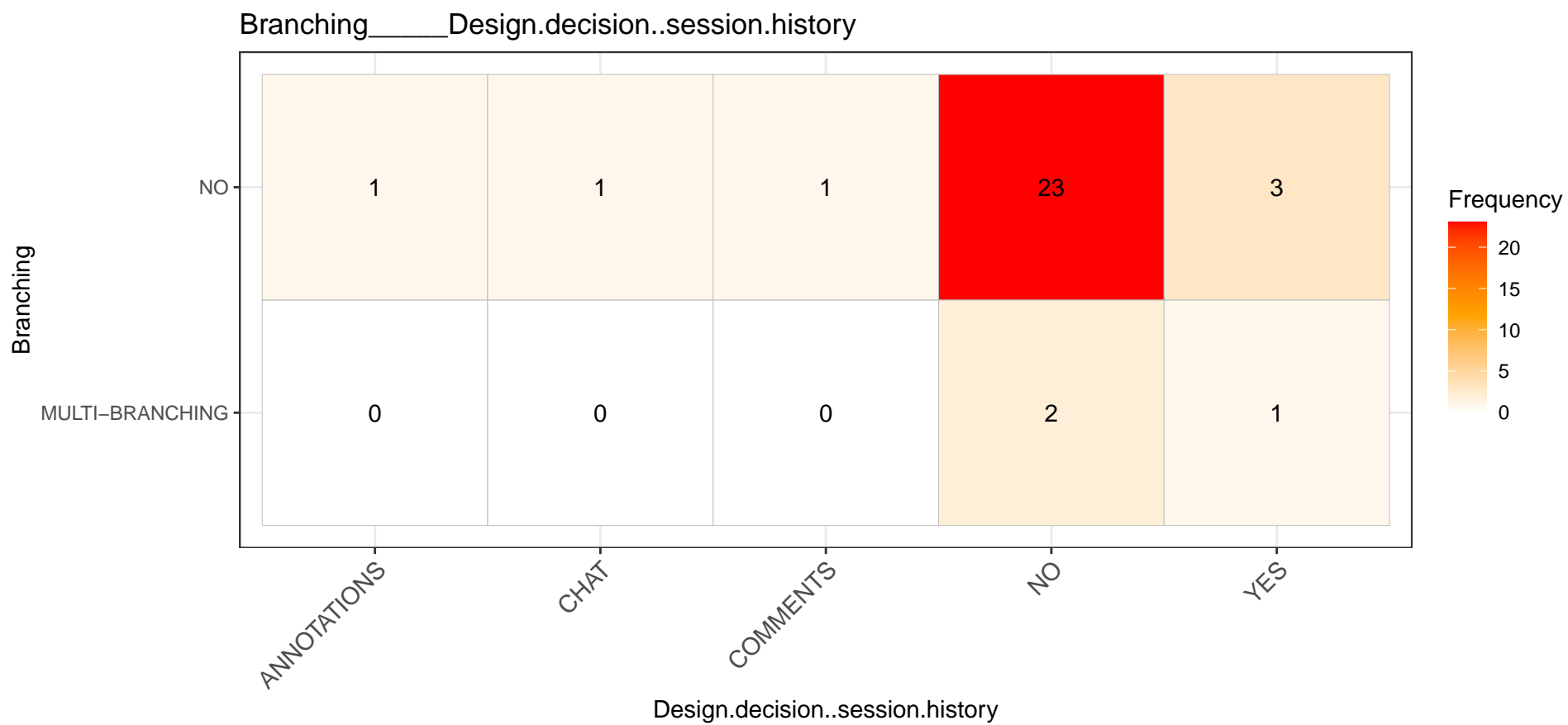




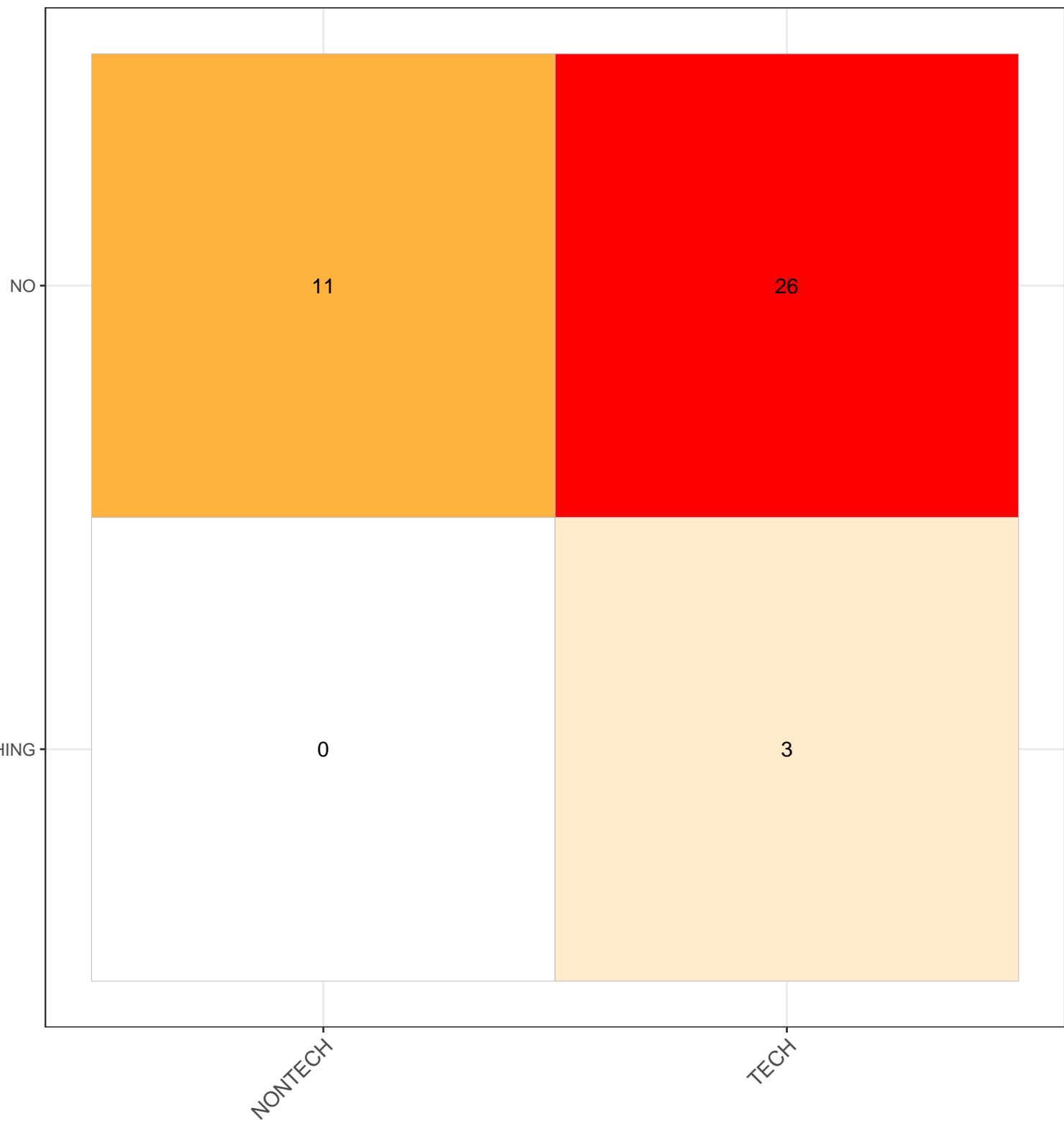
Branching

Branching_____Design.decision..discussion

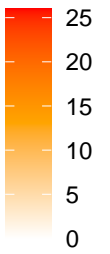


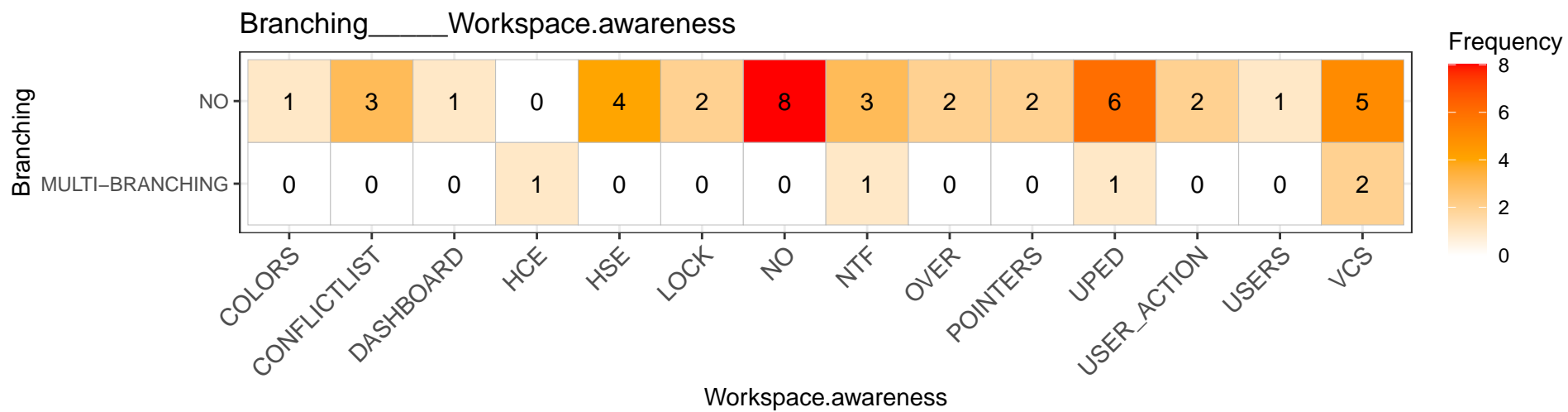


Branching_____Stakeholder.types

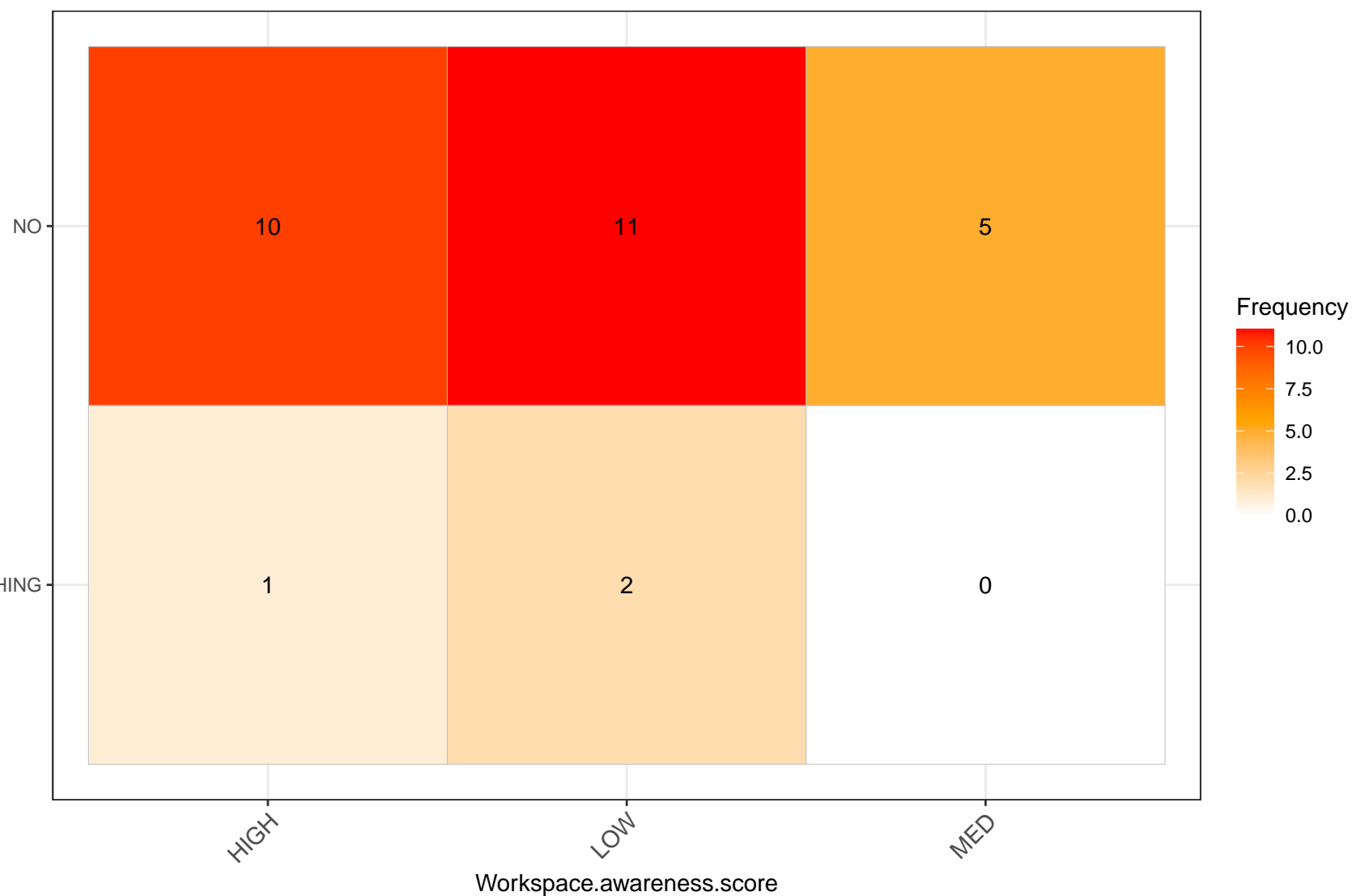


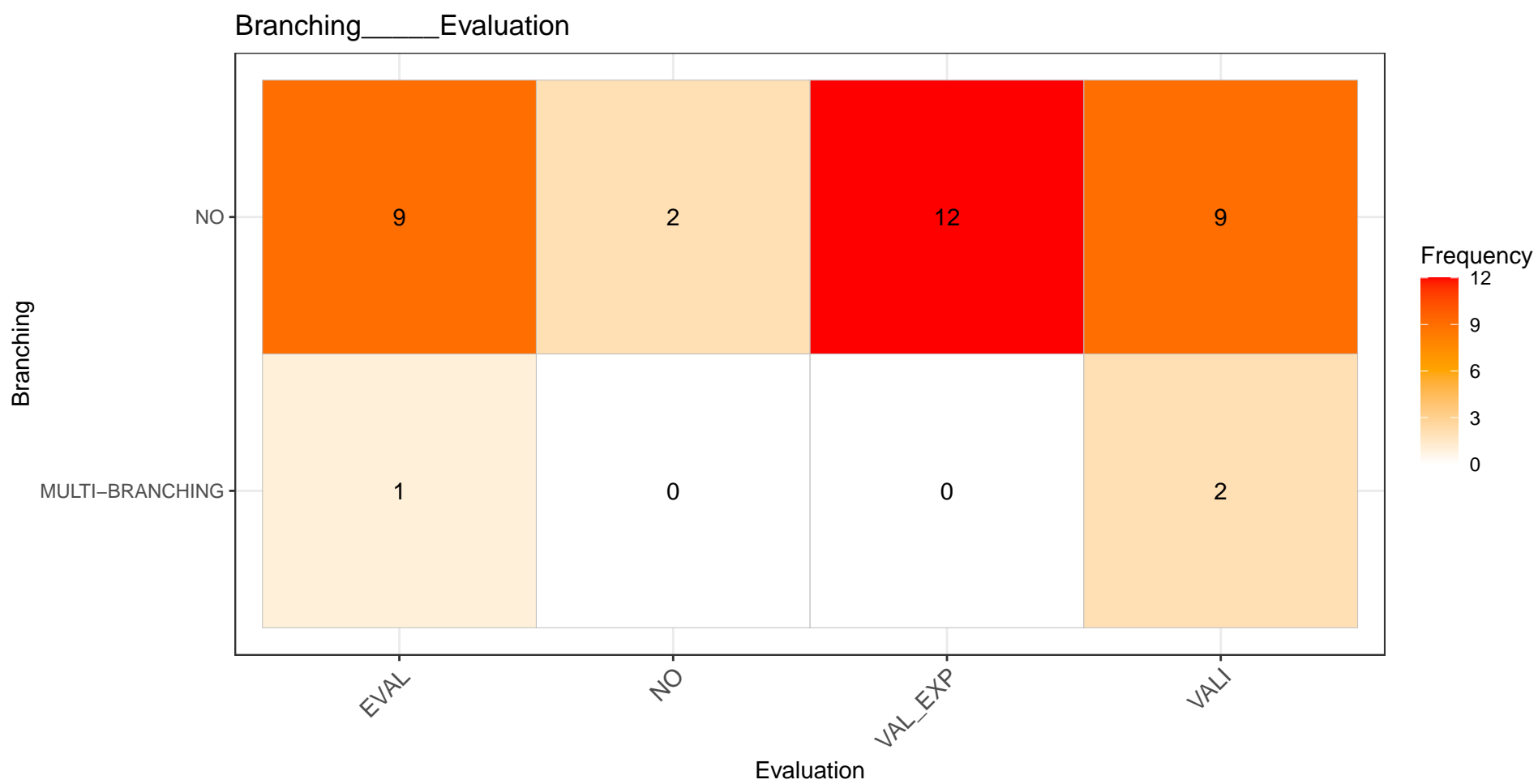
Frequency



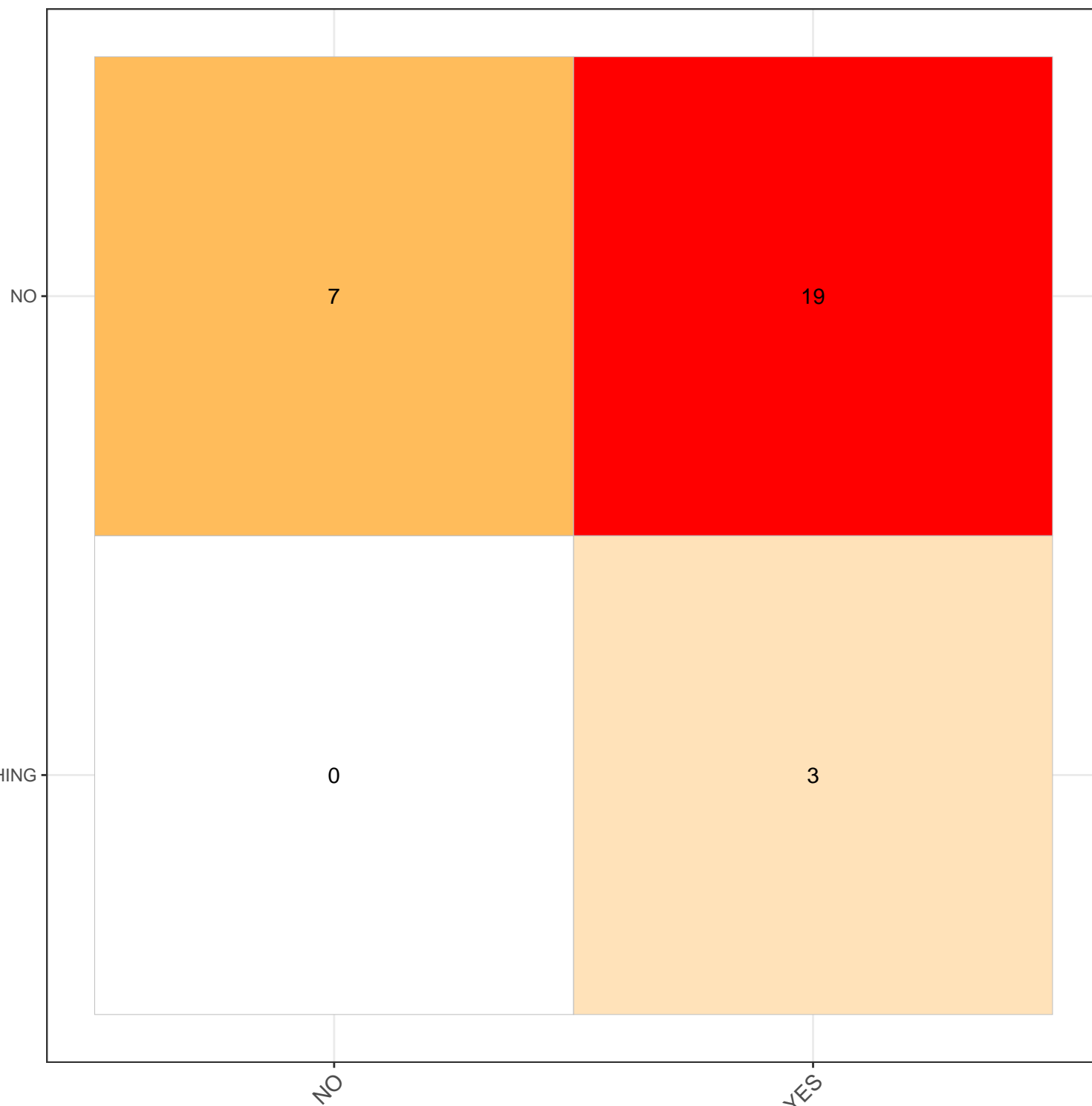


Branching_____Workspace.awareness.score



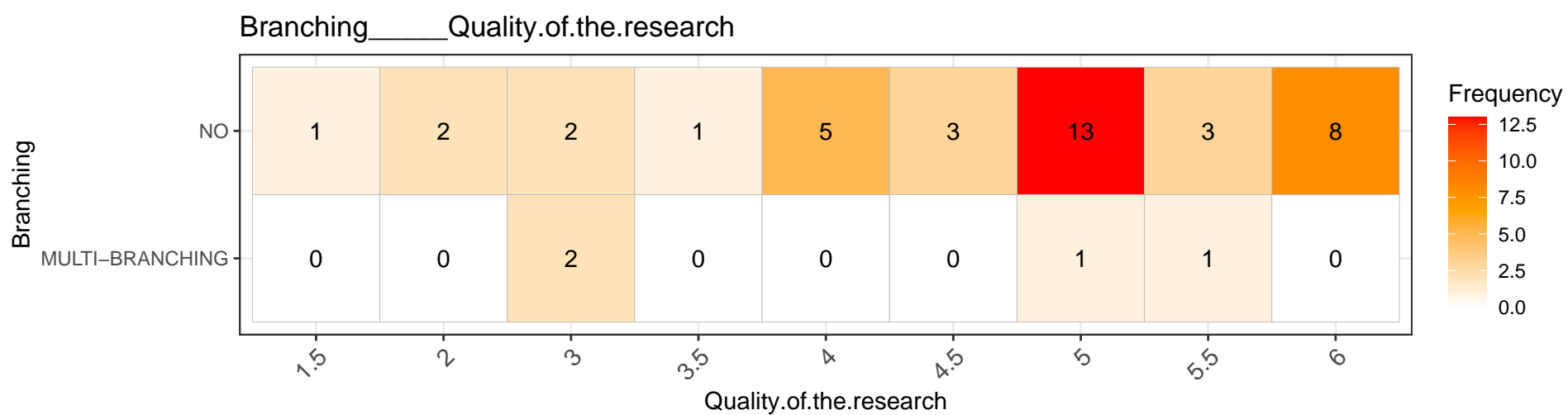


Branching_____Tool.availability

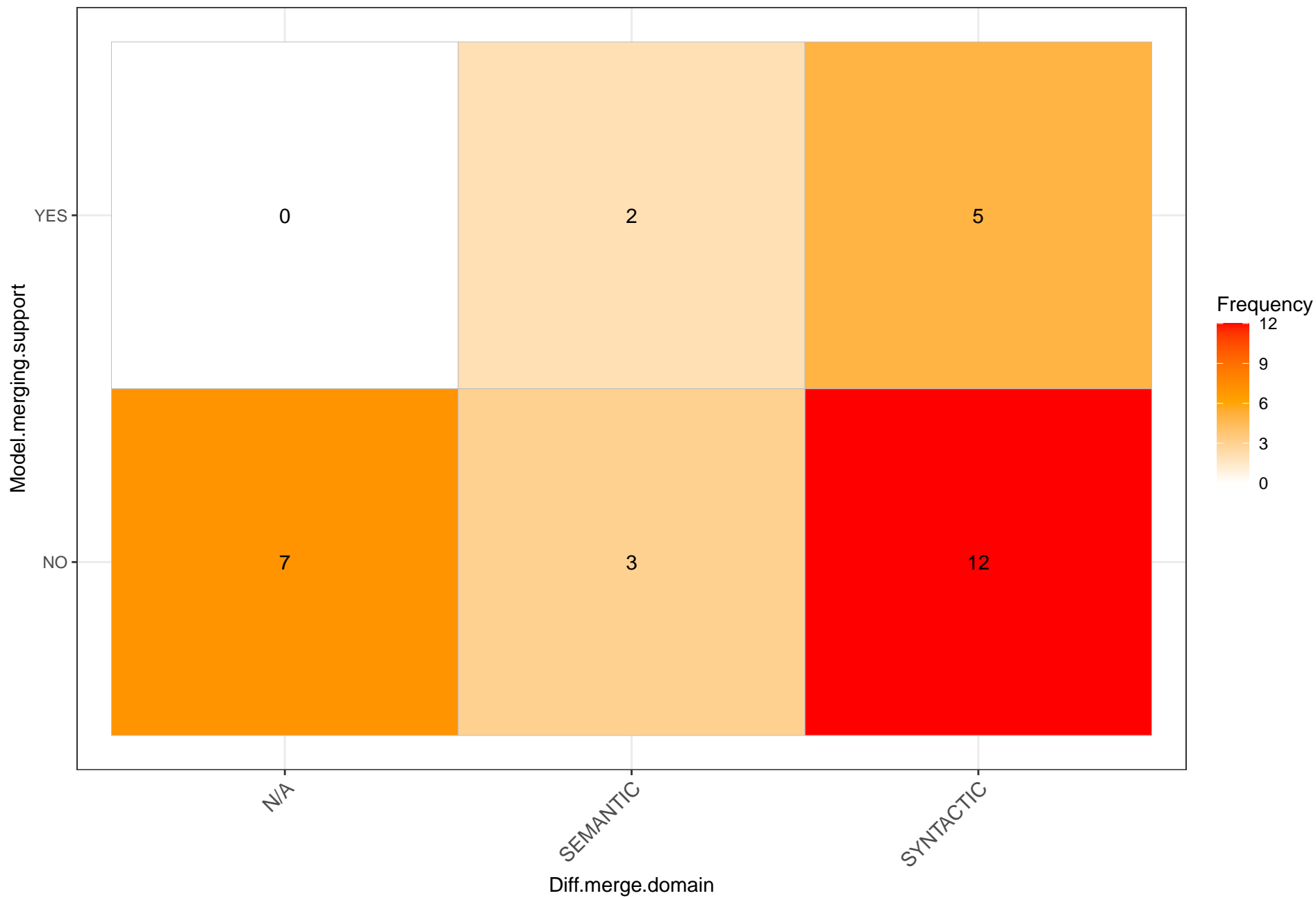


Frequency





Model.merging.support____Diff.merge.domain



Model.merging.support____Conflict.mgmt.approach

Model.merging.support

YES

4

1

2

NO

7

9

6

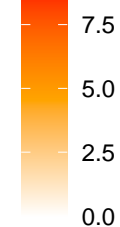
ALLOW&RESOLVE

NO

PREVENTIVE

Conflict.mgmt.approach

Frequency



Model.merging.support_____Conflict.detection

Model.merging.support

YES

1

6

2

NO

12

10

5

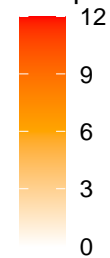
NO

YES

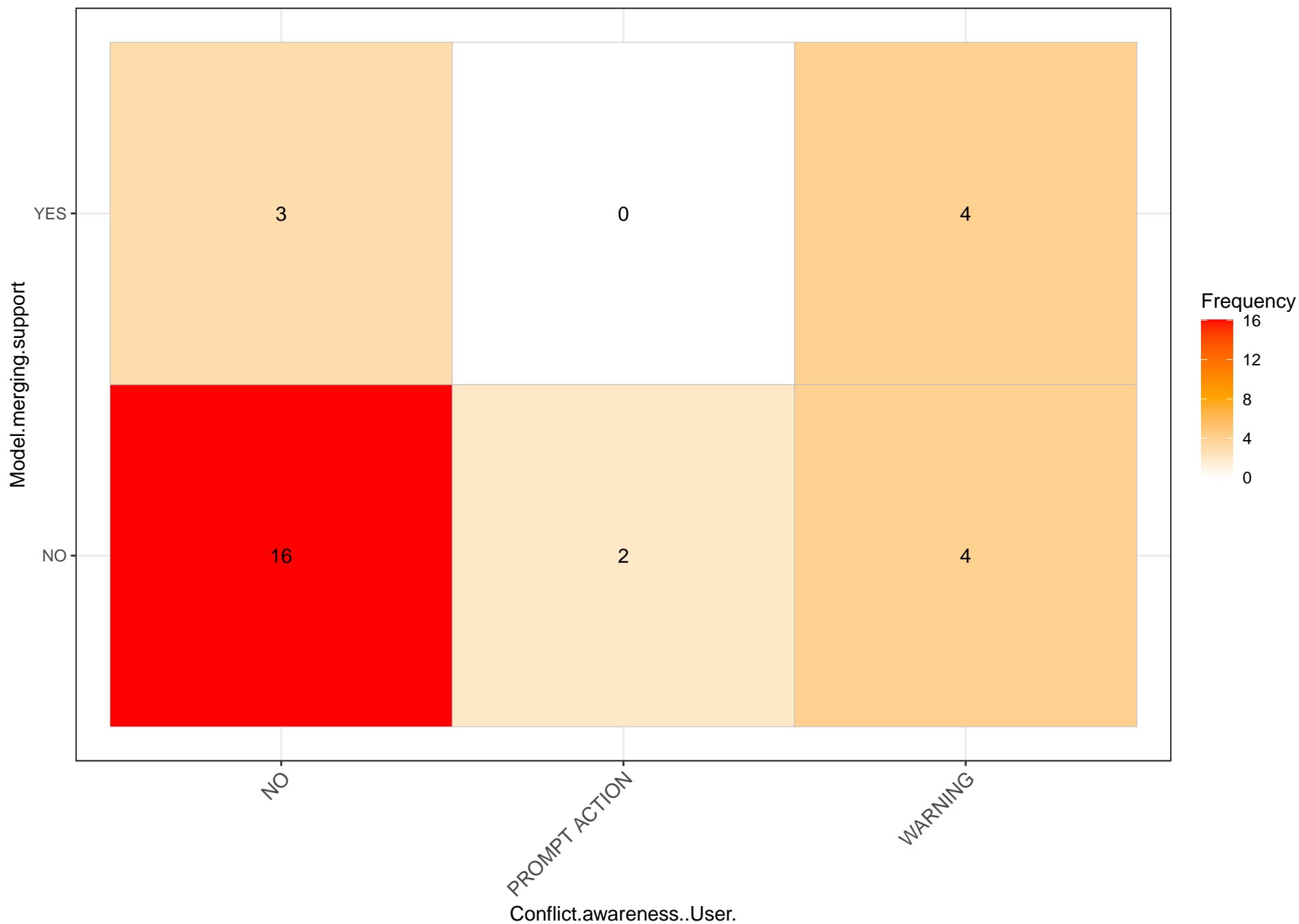
YES: INCREMENTAL

Conflict.detection

Frequency



Model.merging.support____Conflict.awareness..User.



Model.merging.support____Conflict.resolution.support

Model.merging.support

YES

2

1

5

NO

6

8

8

MANUAL

NO

SEMIAUTOMATED

Conflict.resolution.support

Frequency

8

6

4

2

0

Model.merging.support____Shared.workspace

Model.merging.support

YES

7

0

NO

19

3

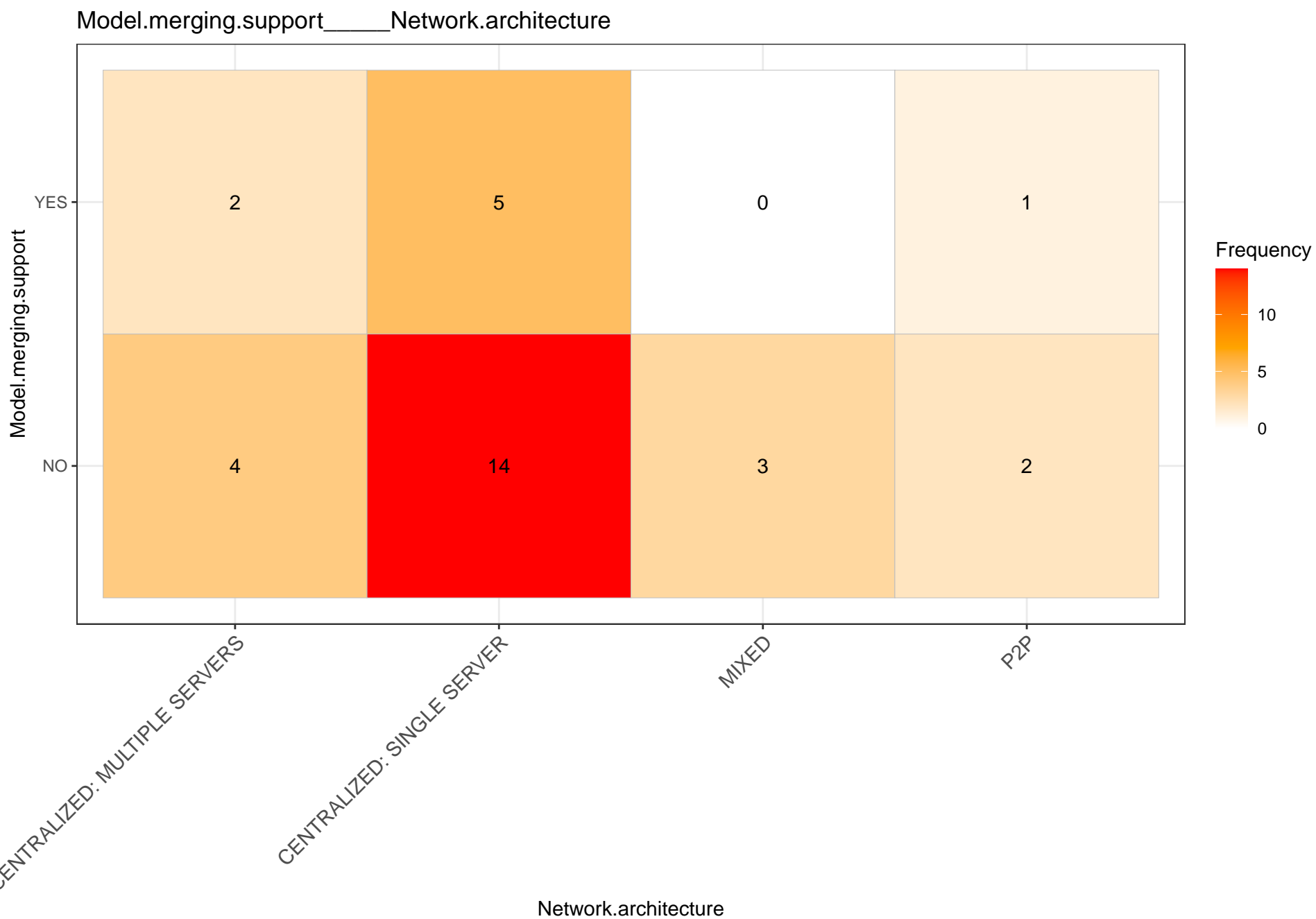
REMOTE

SAMEPLACE

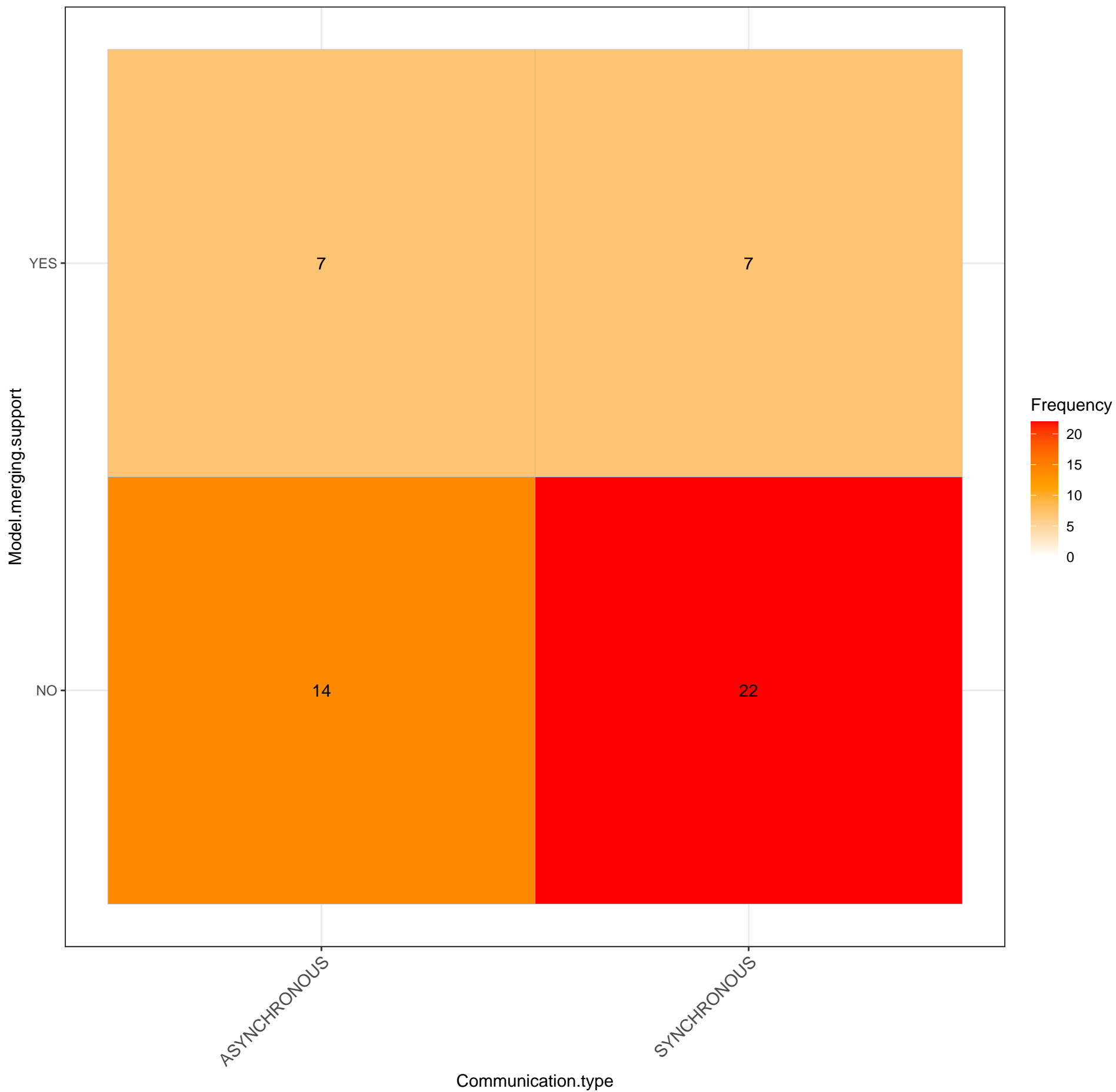
Shared.workspace

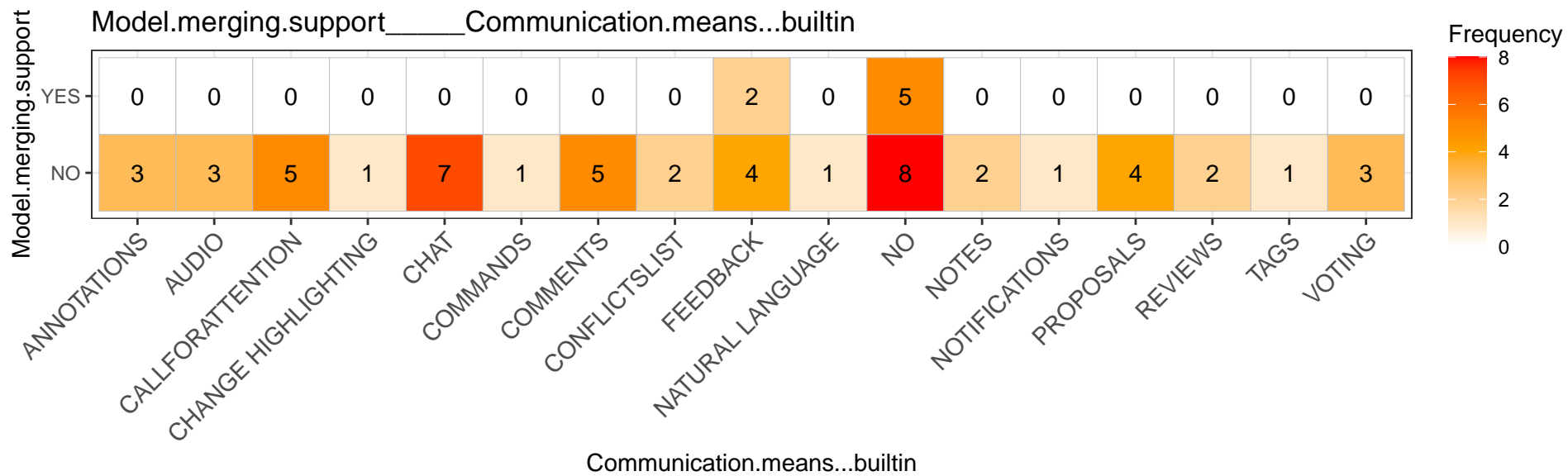
Frequency

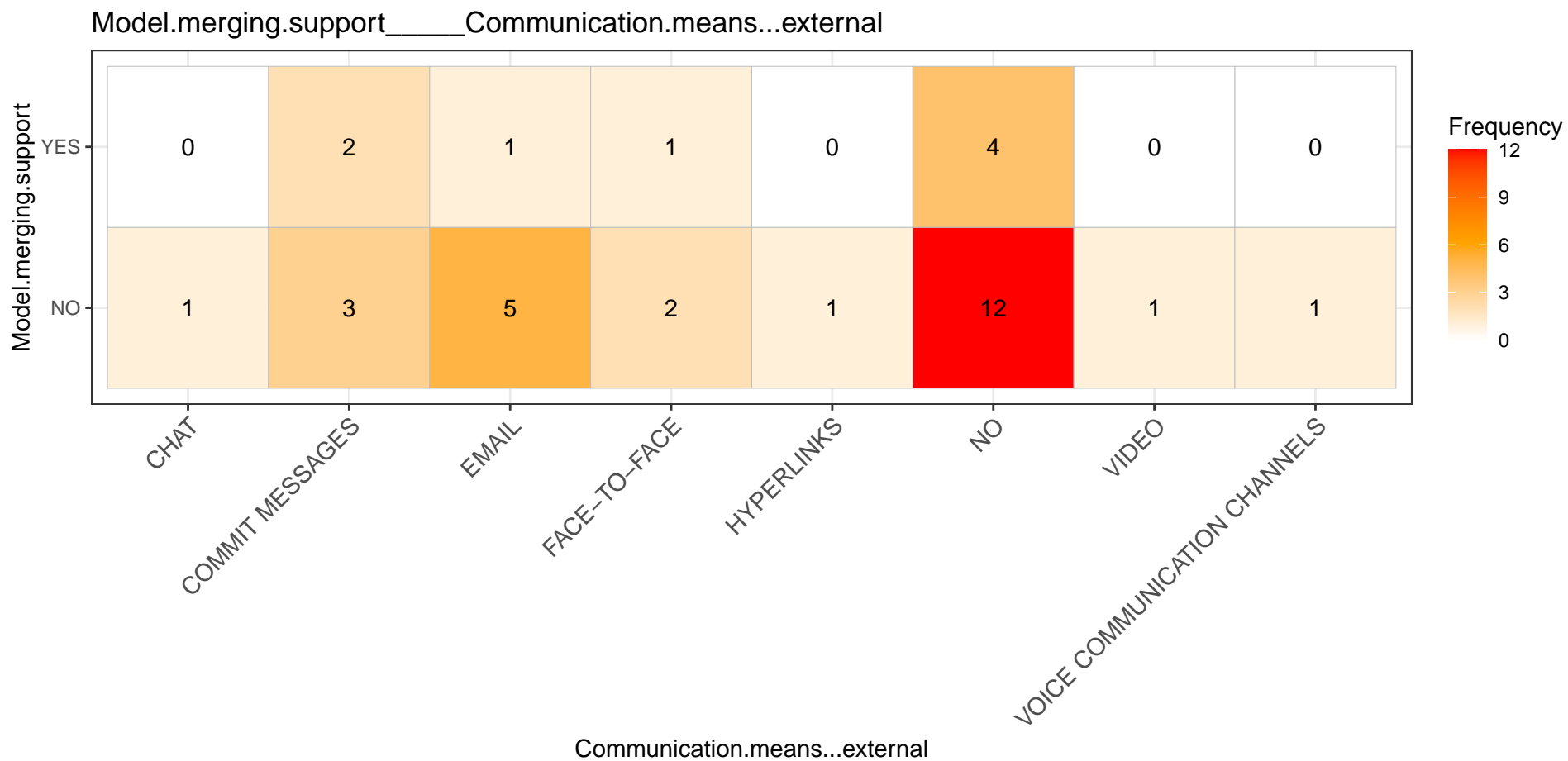




Model.merging.support_____Communication.type







Model.merging.support_____Communication.means...mixed

Model.merging.support

YES

0

0

0

7

NO

1

1

2

18

COMMIT MESSAGES

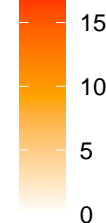
EMAIL

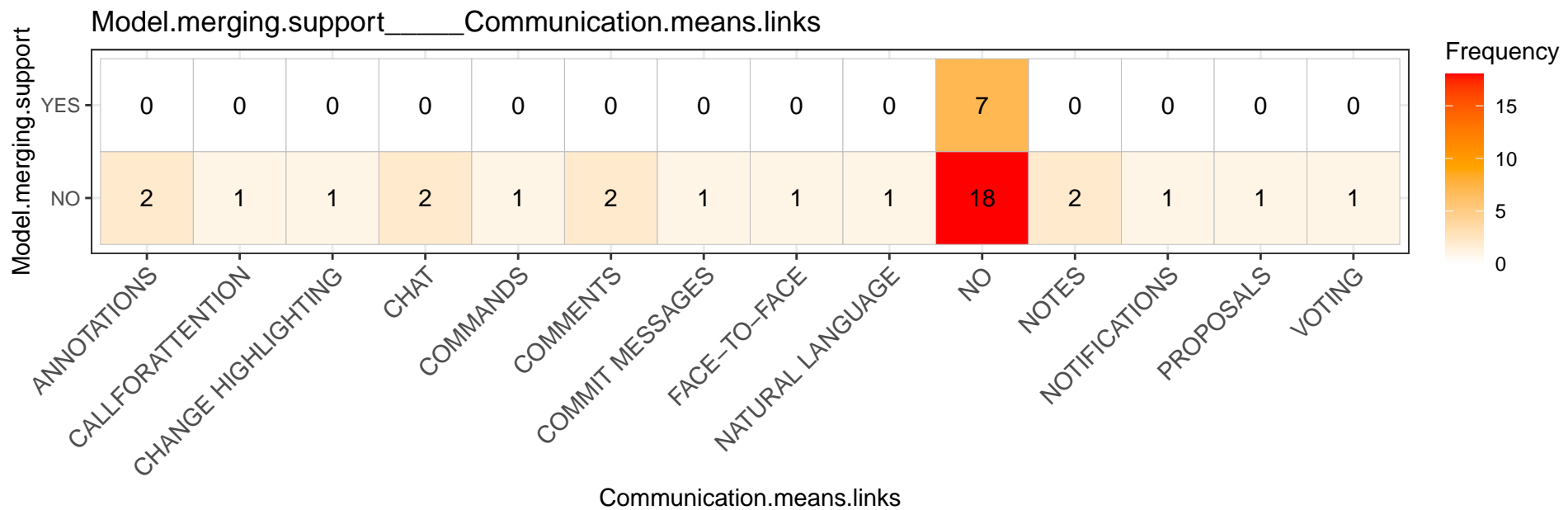
HYPERLINKS

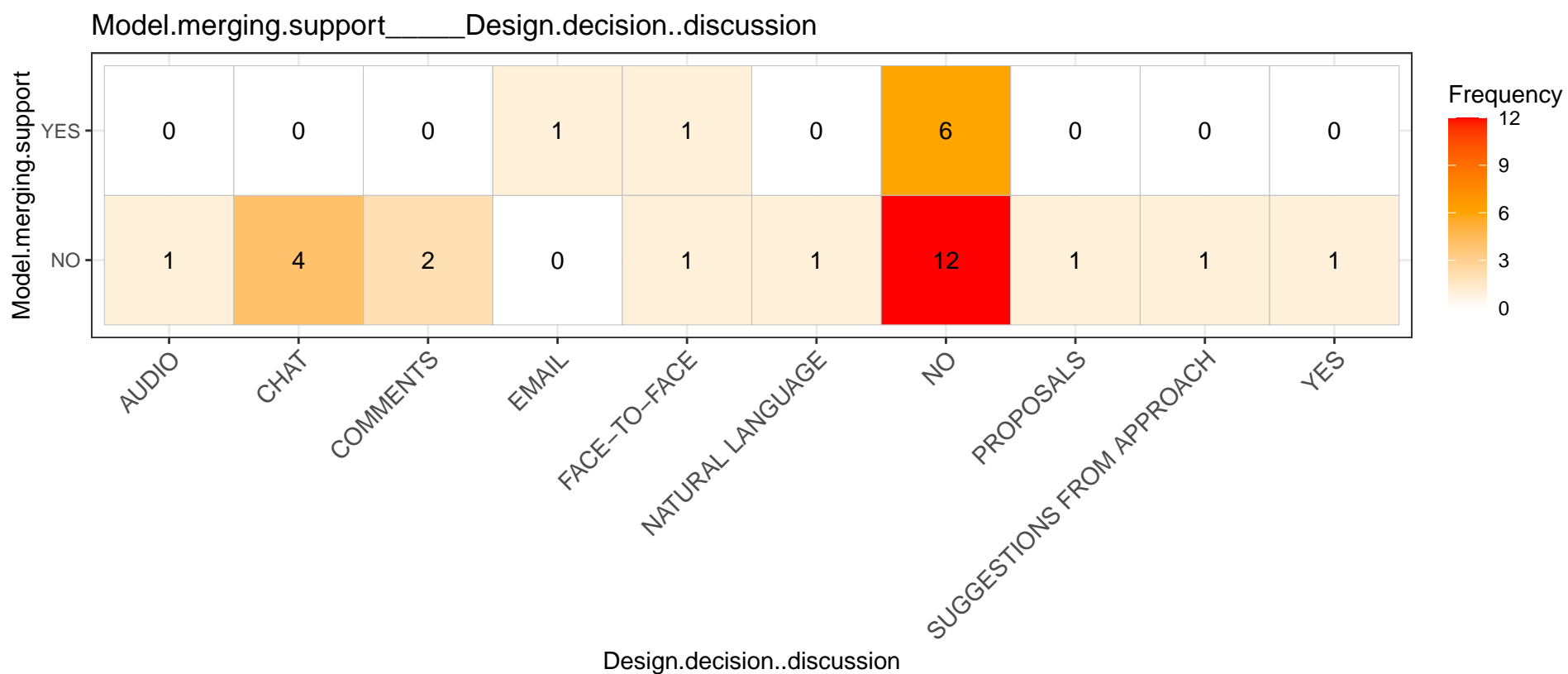
NO

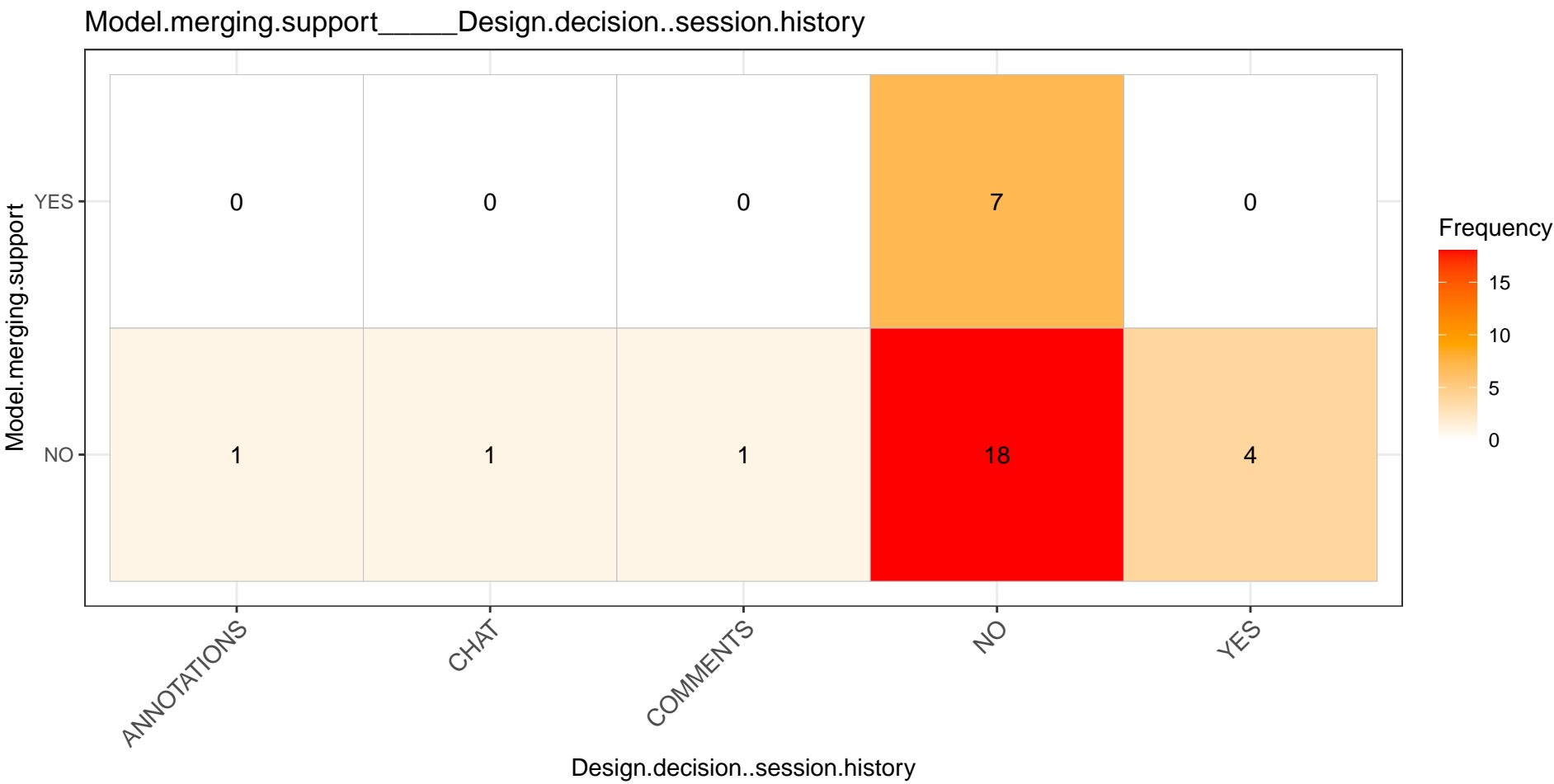
Communication.means...mixed

Frequency









Model.merging.support_____Stakeholder.types

Model.merging.support

YES

1

7

NO

10

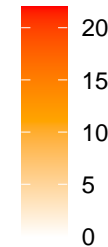
22

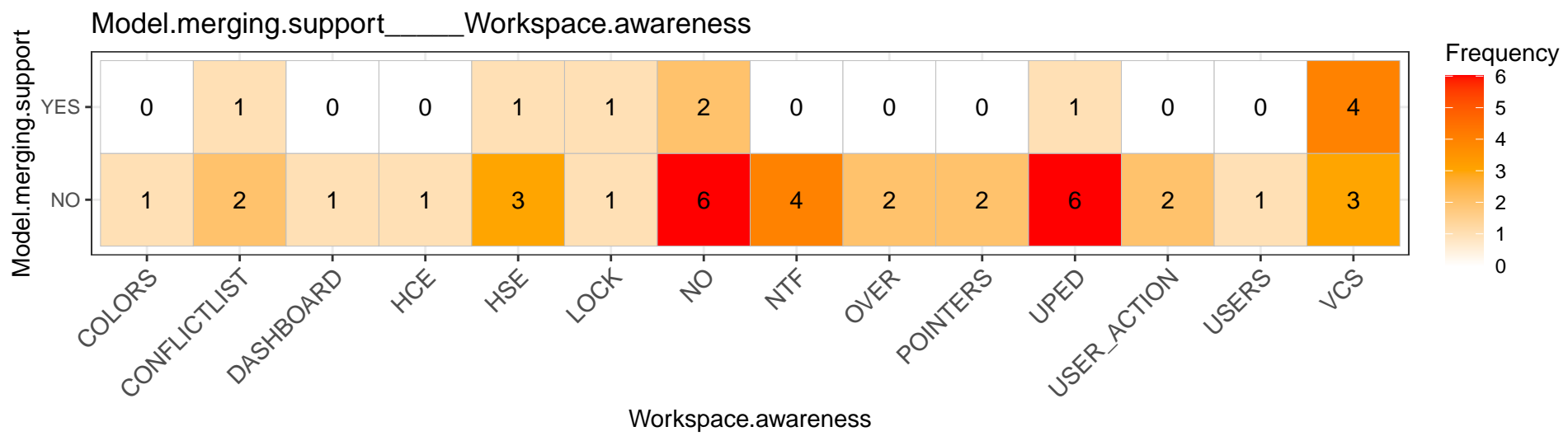
NONTECH

TECH

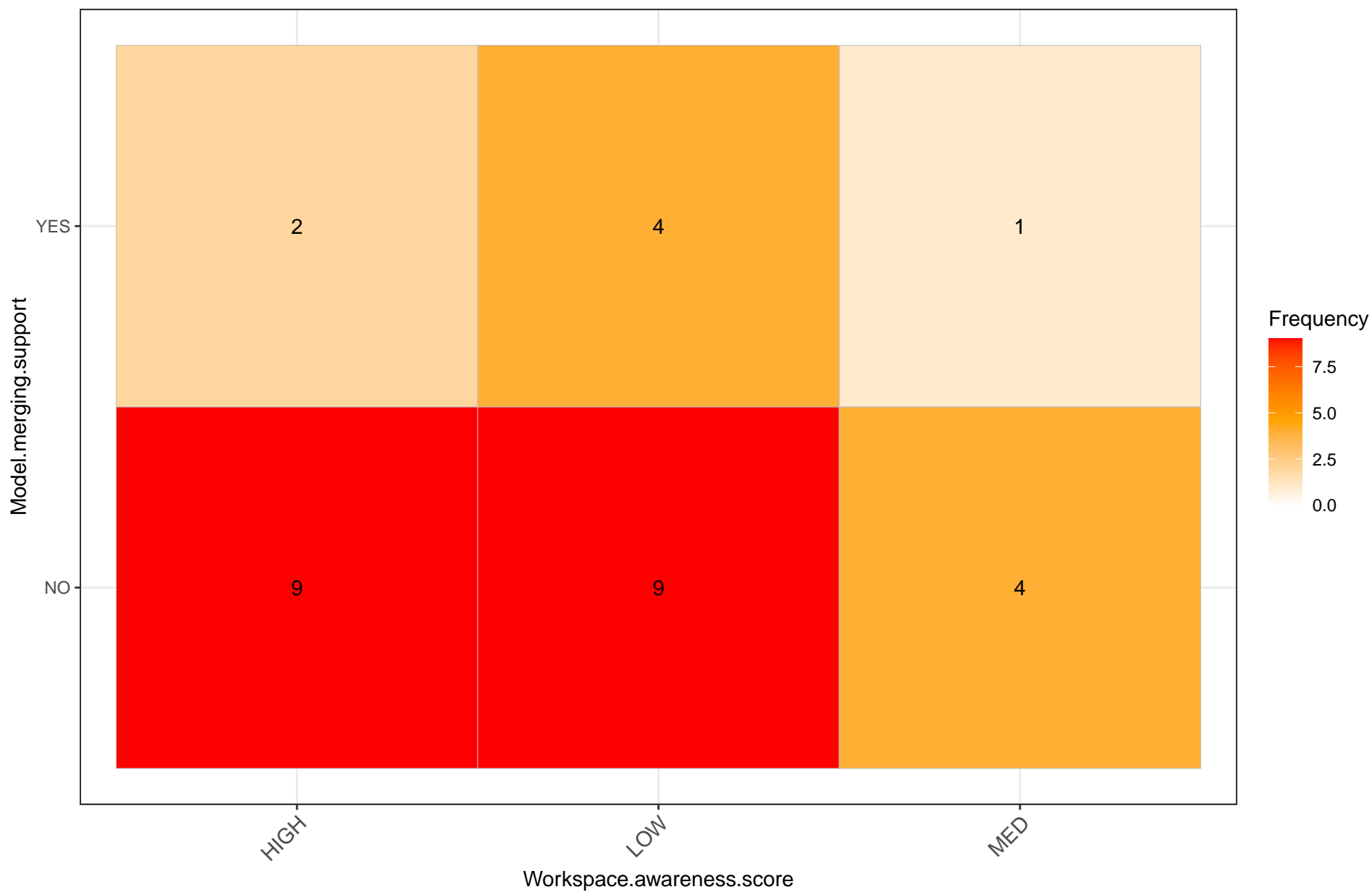
Stakeholder.types

Frequency

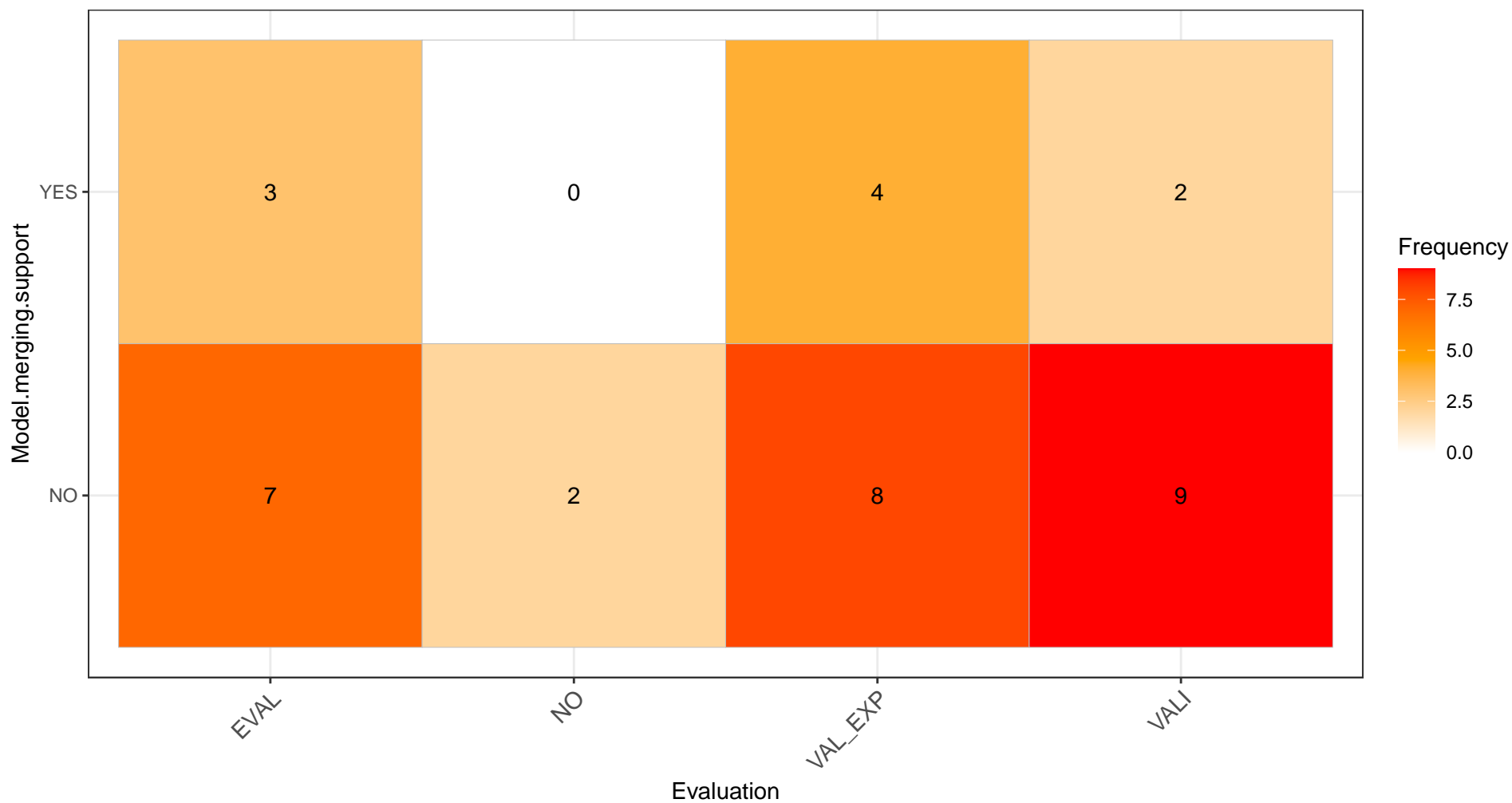




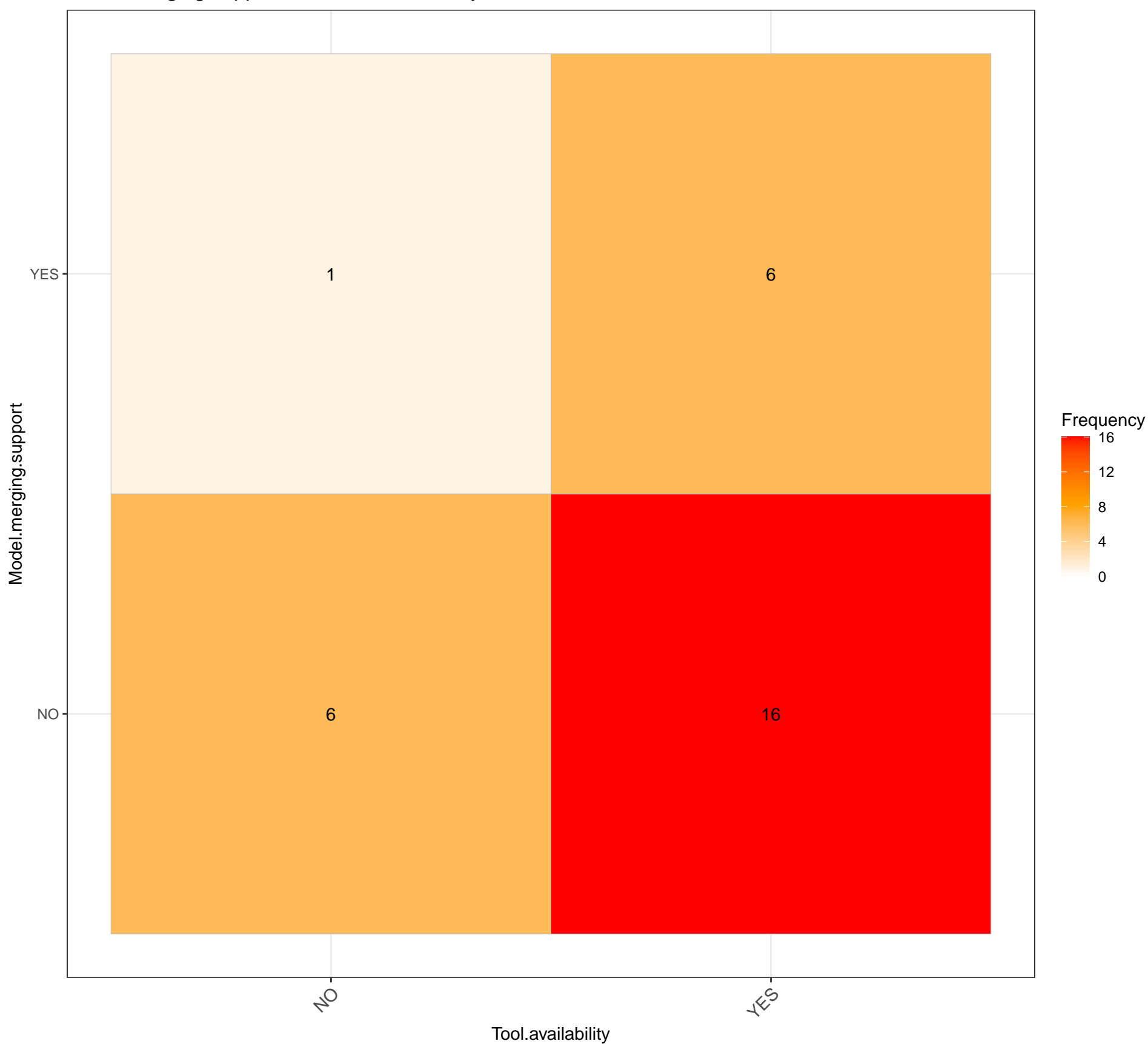
Model.merging.support_____Workspace.awareness.score

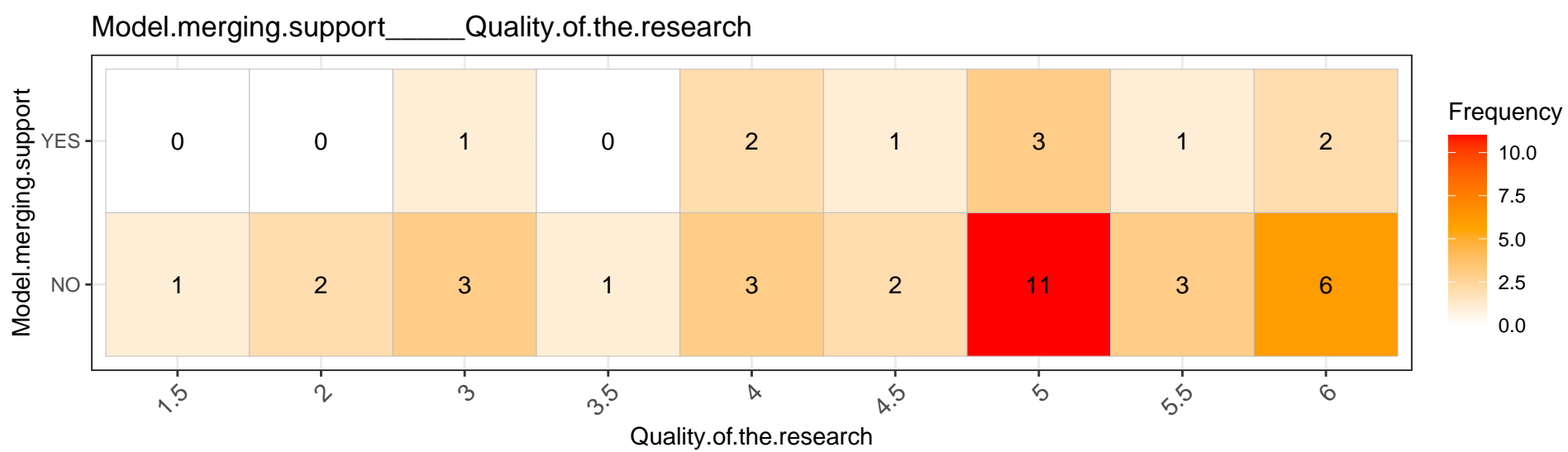


Model.merging.support____Evaluation



Model.merging.support_____Tool.availability





Diff.merge.domain____Conflict.mgmt.approach

Diff.merge.domain

SYNTACTIC

SEMANTIC

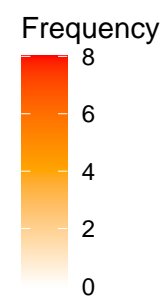
N/A

ALLOW&RESOLVE

NO

PREVENTIVE

Conflict.mgmt.approach



8

5

4

2

1

2

1

4

2

Diff.merge.domain_____Conflict.detection

Diff.merge.domain

SYNTACTIC

SEMANTIC

N/A

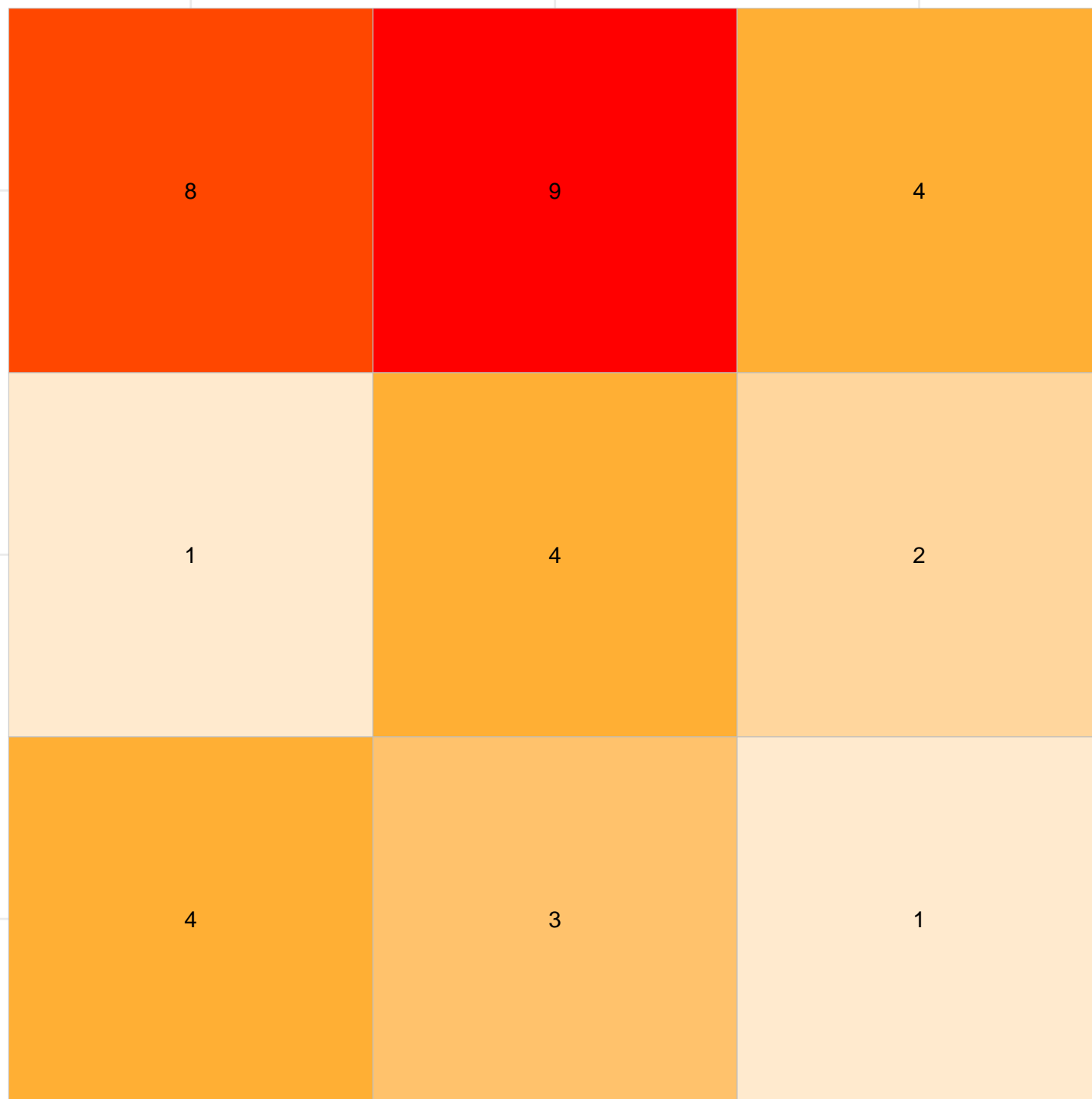
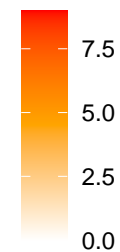
NO

YES

YES: INCREMENTAL

Conflict.detection

Frequency



Diff.merge.domain_____Conflict.awareness..User.

Diff.merge.domain

SYNTACTIC

11

1

5

SEMANTIC

3

0

2

N/A

5

1

1

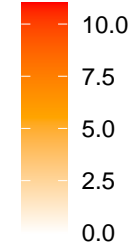
NO

PROMPT ACTION

WARNING

Conflict.awareness..User.

Frequency



Diff.merge.domain_____Conflict.resolution.support

Diff.merge.domain

SYNTACTIC

5

5

8

SEMANTIC

2

0

3

N/A

1

4

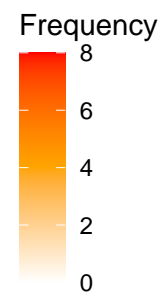
2

MANUAL

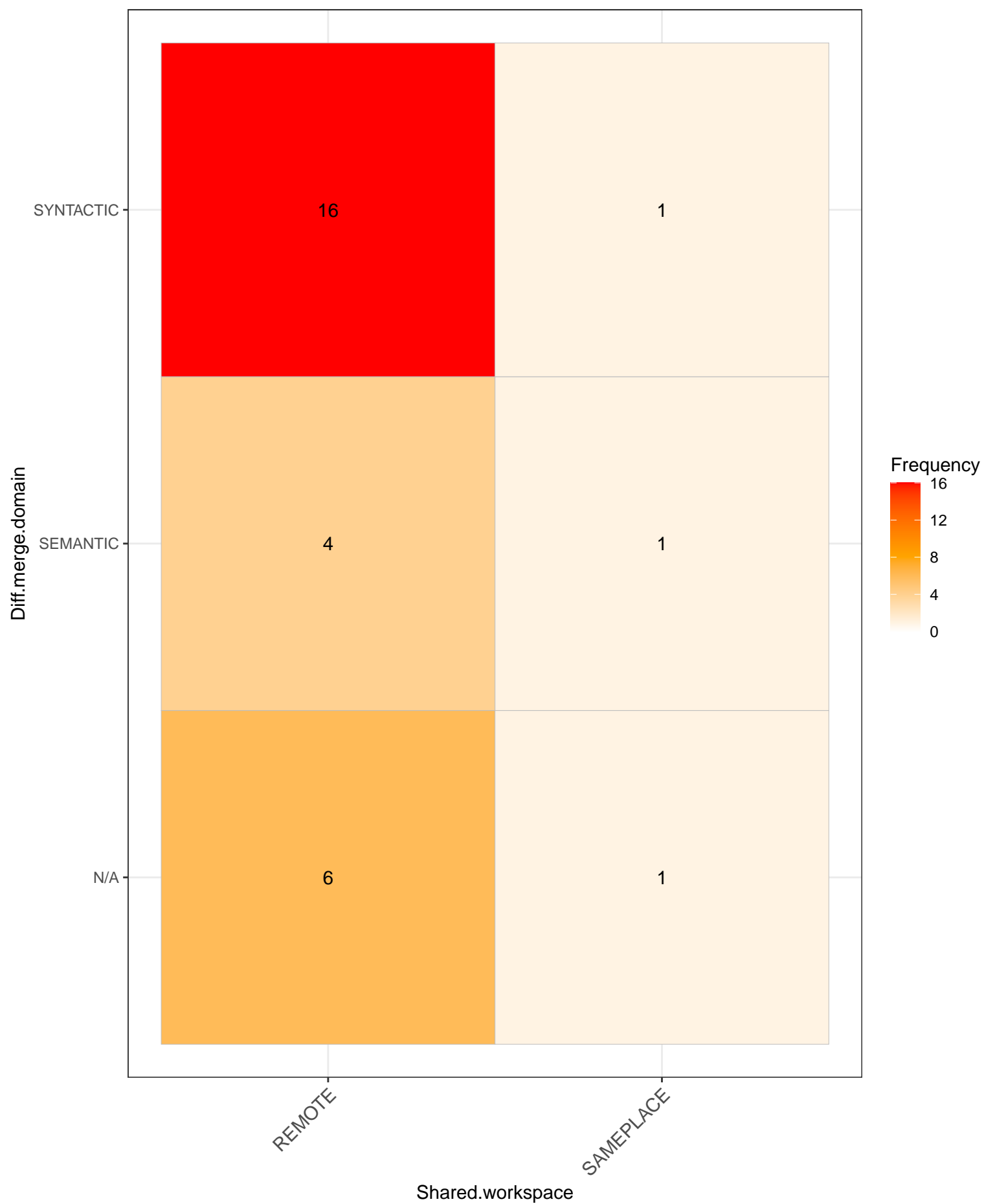
NO

SEMI-AUTOMATED

Conflict.resolution.support



Diff.merge.domain_____Shared.workspace



Diff.merge.domain____Network.architecture

Diff.merge.domain

SYNTACTIC

SEMANTIC

N/A

CENTRALIZED: MULTIPLE SERVERS

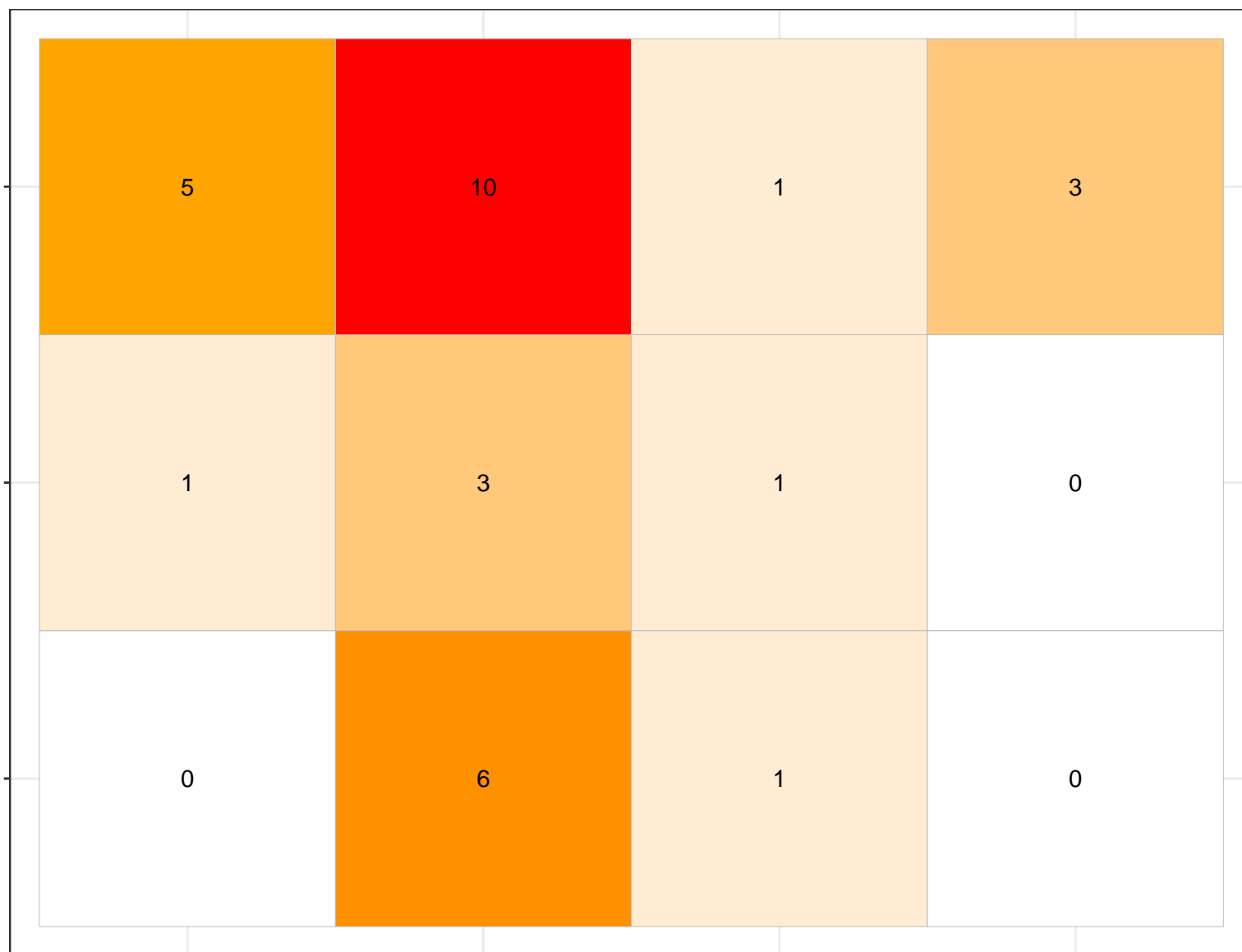
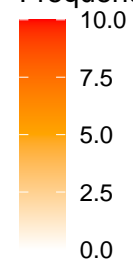
CENTRALIZED: SINGLE SERVER

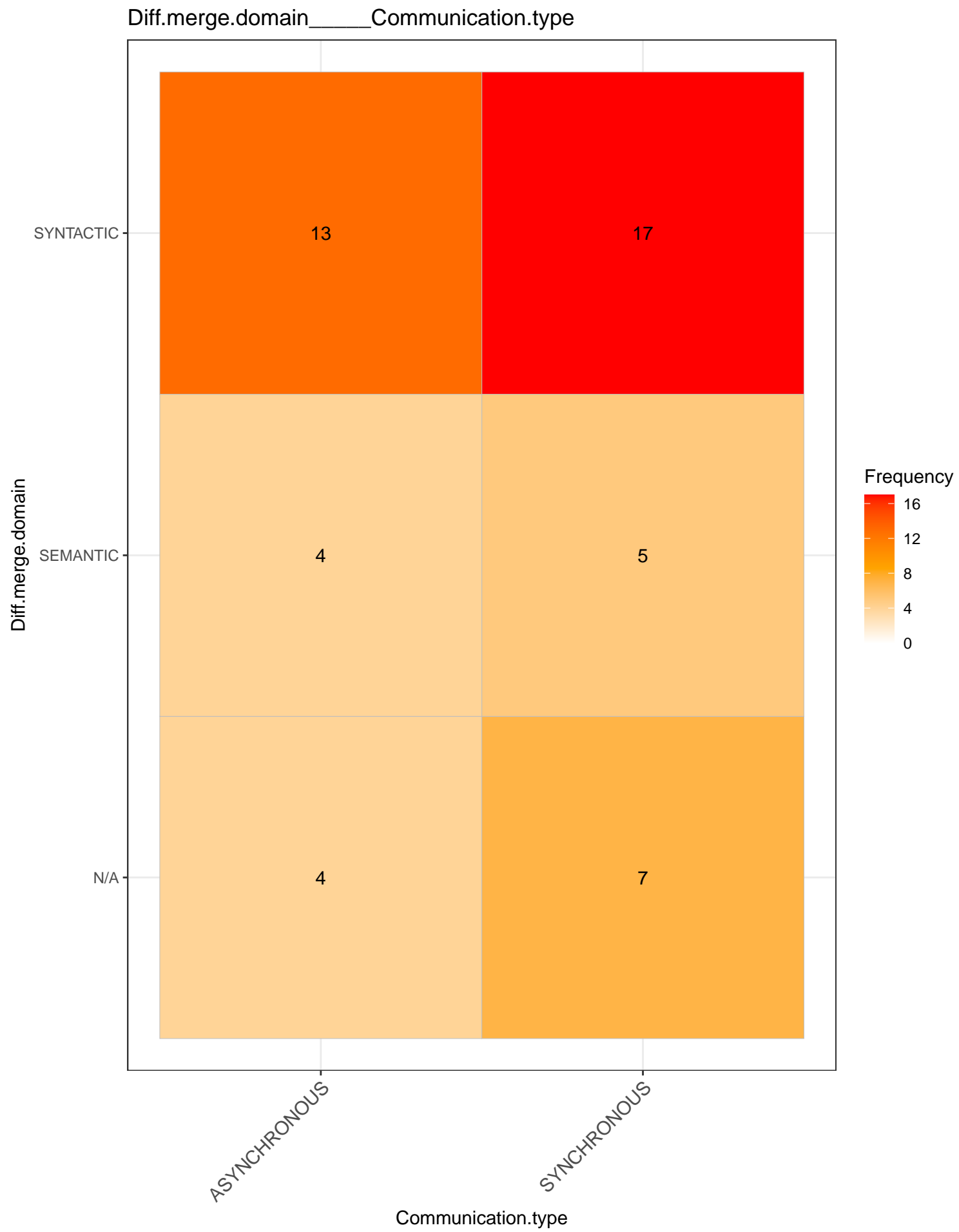
MIXED

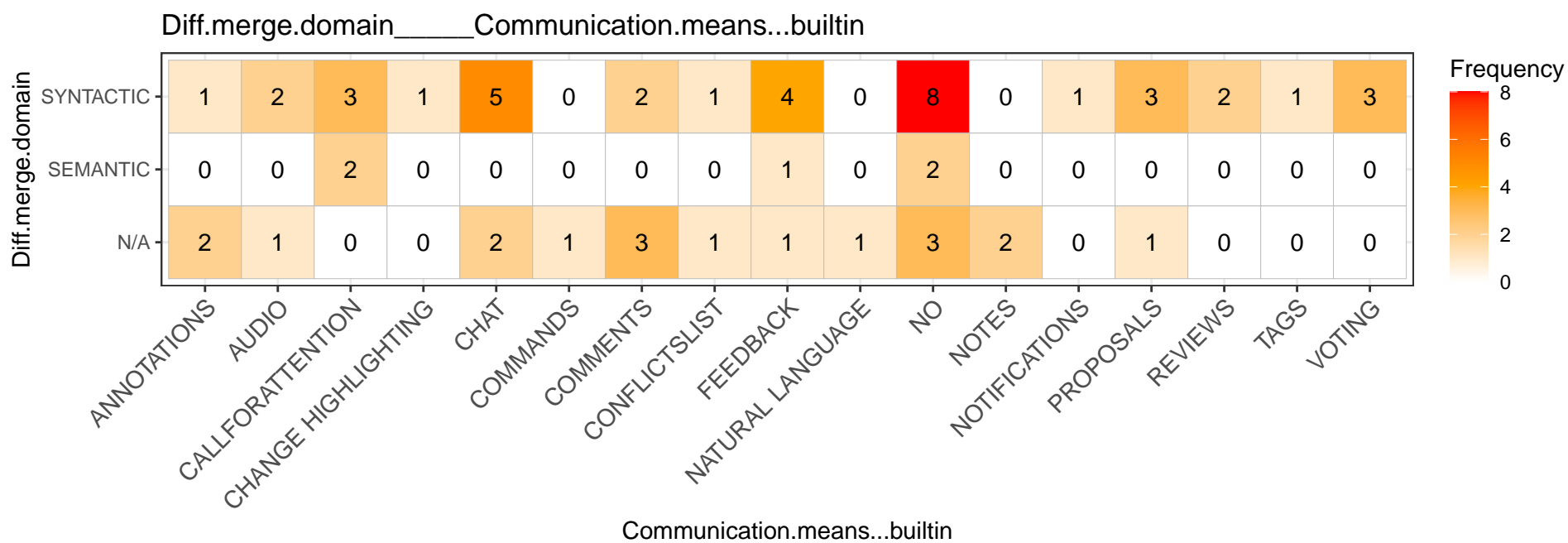
P2P

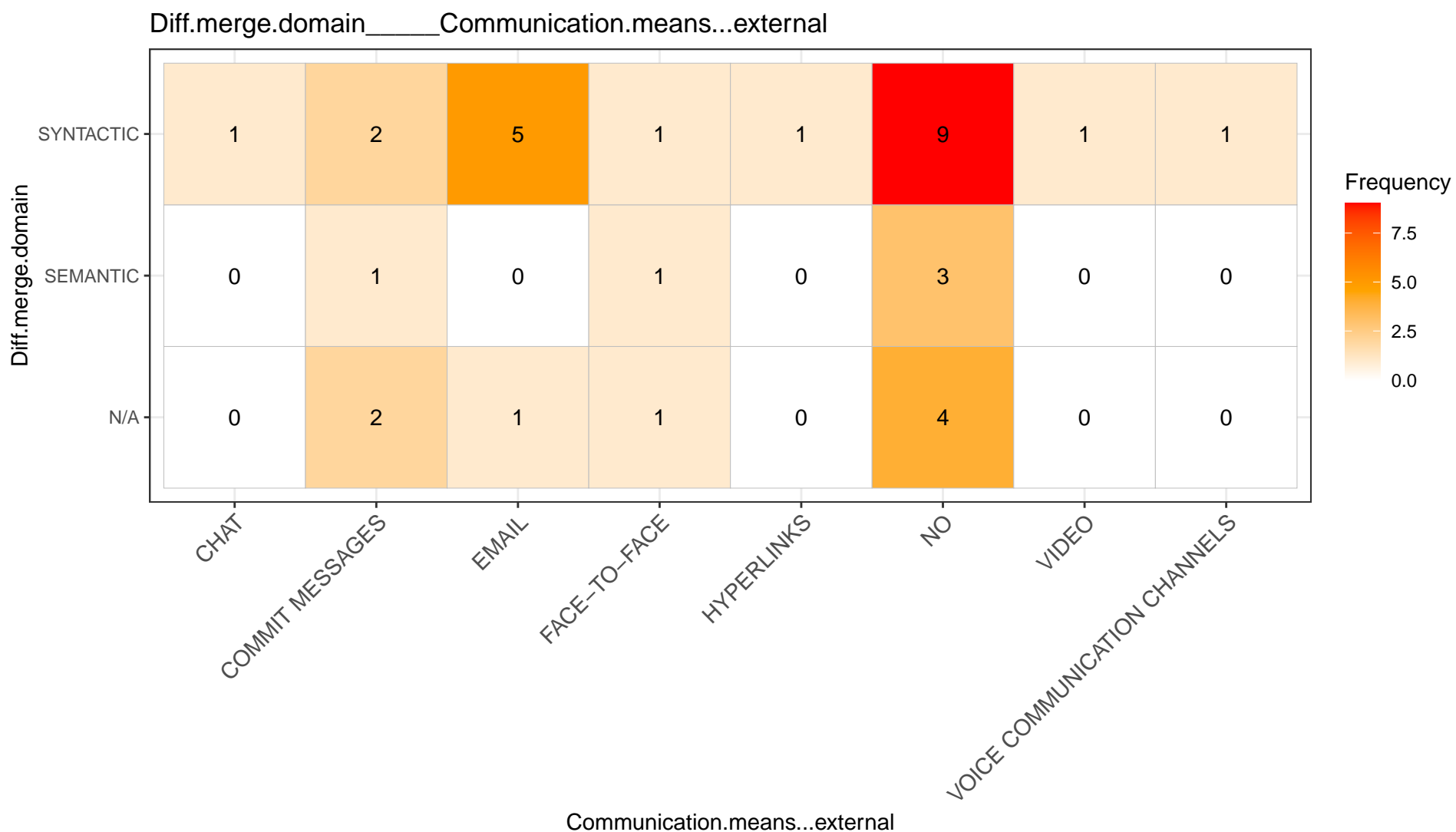
Network.architecture

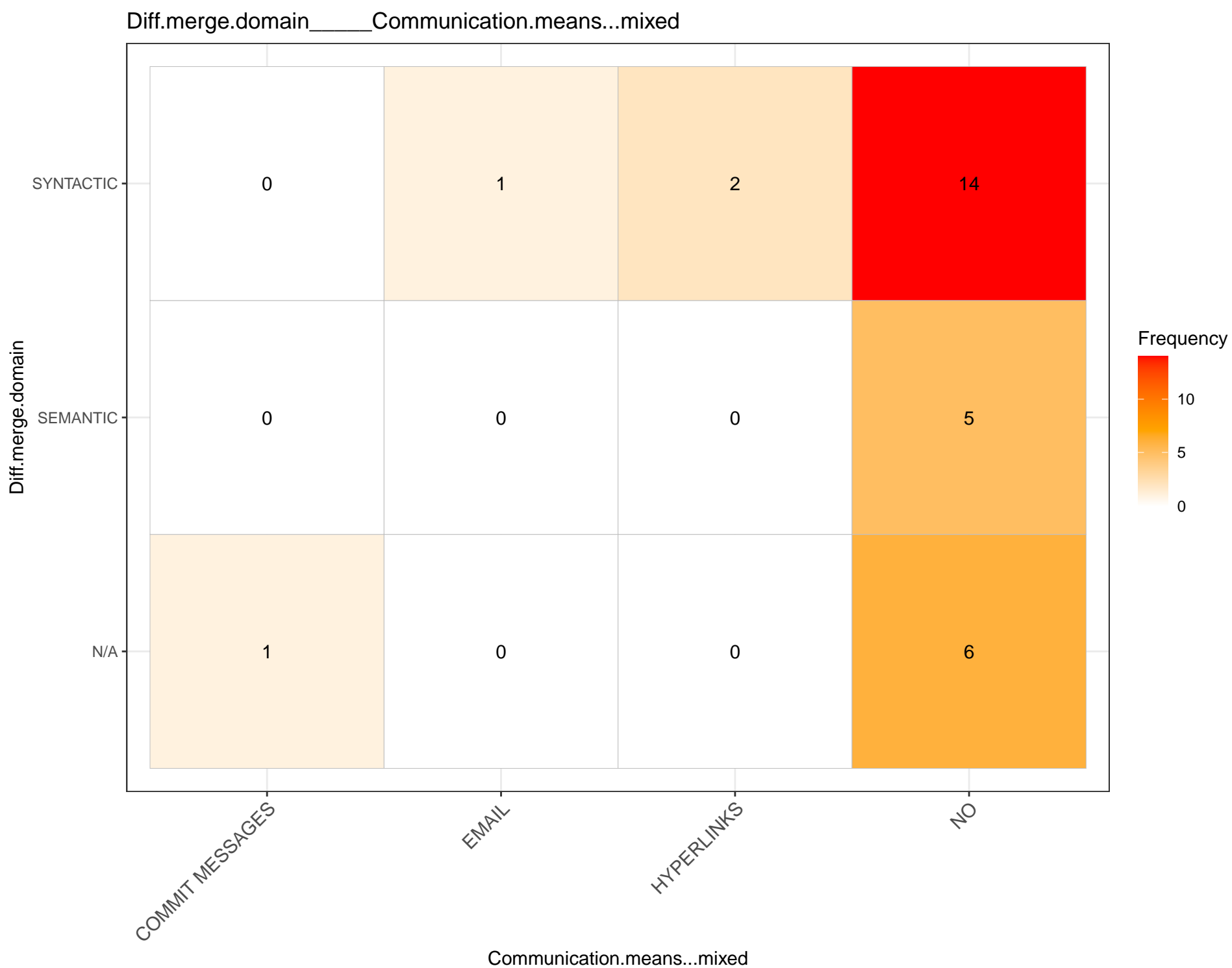
Frequency

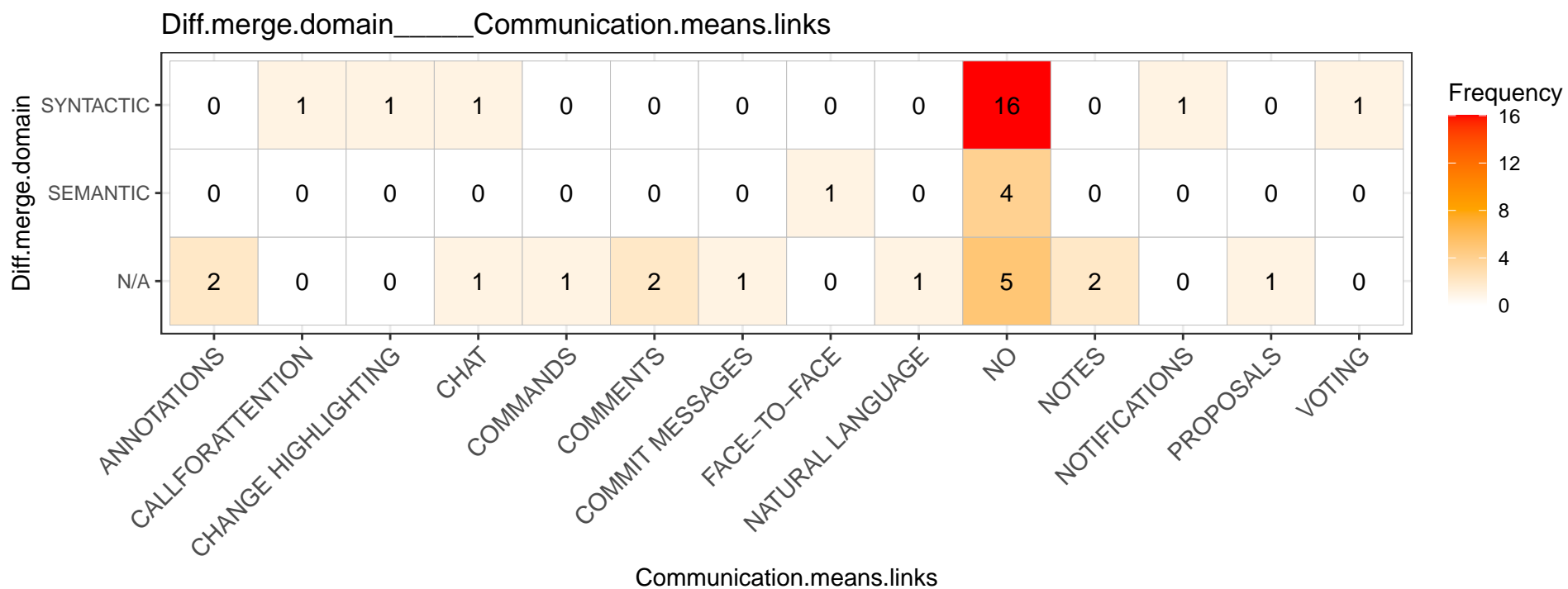


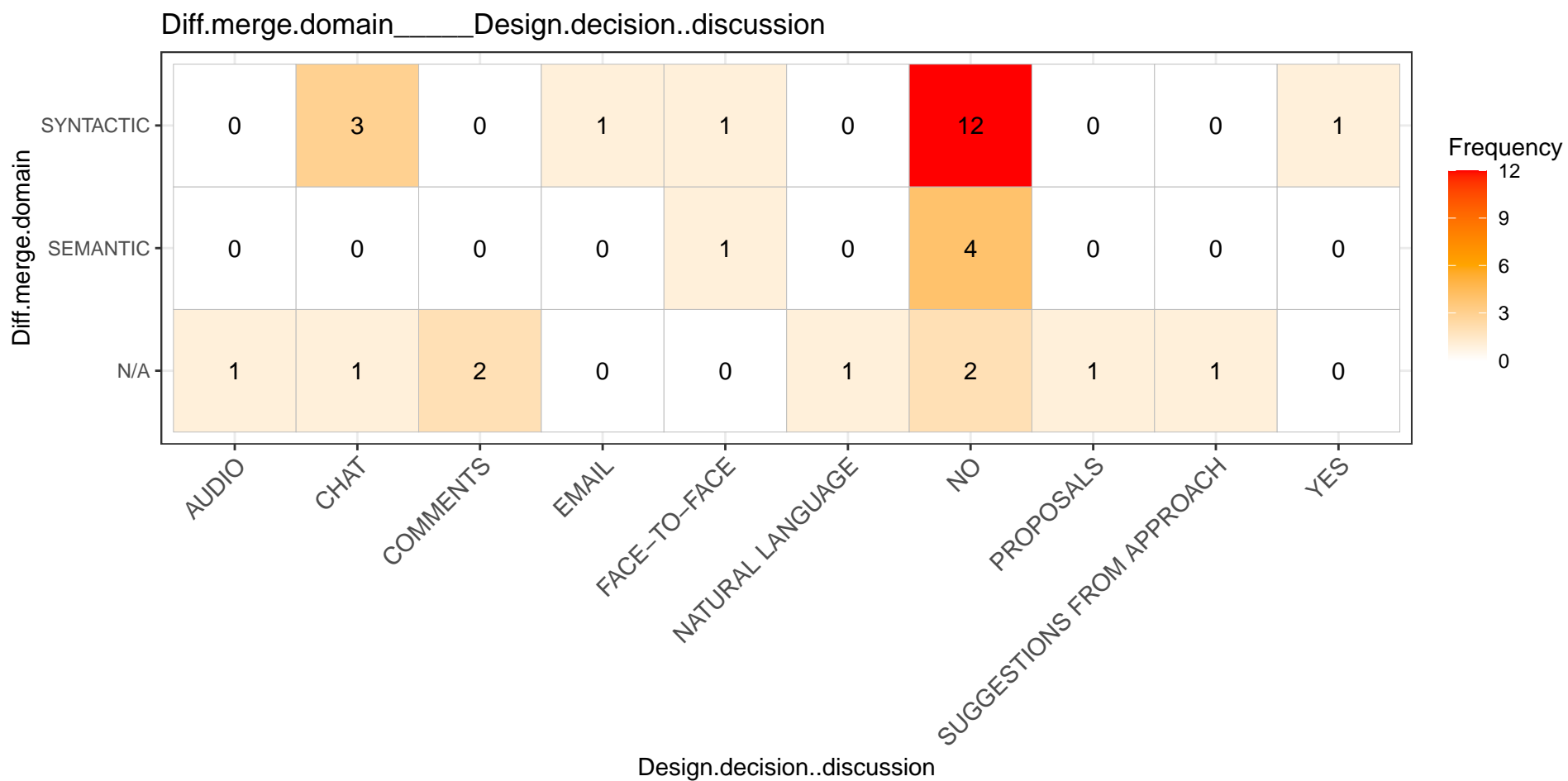


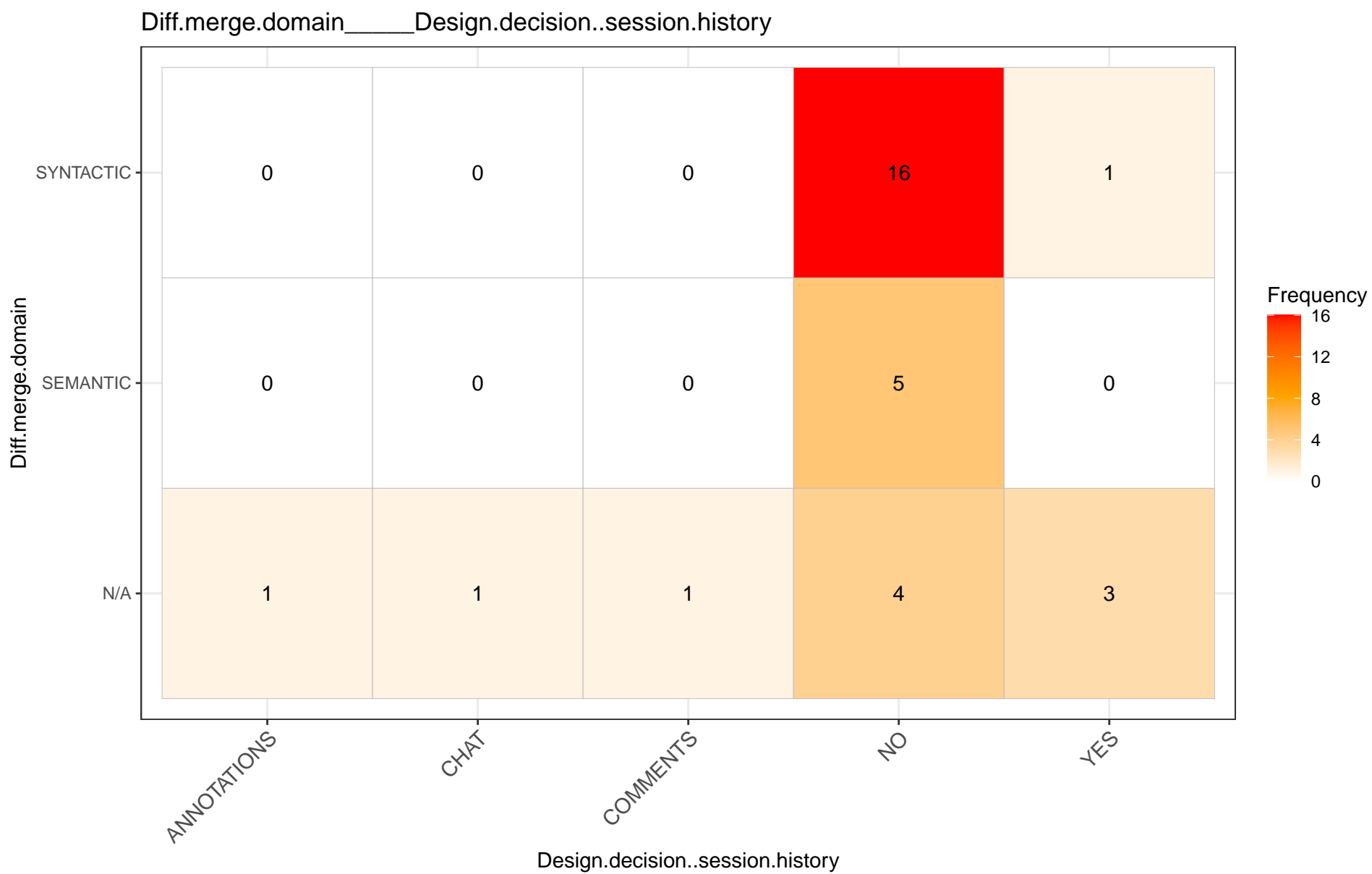




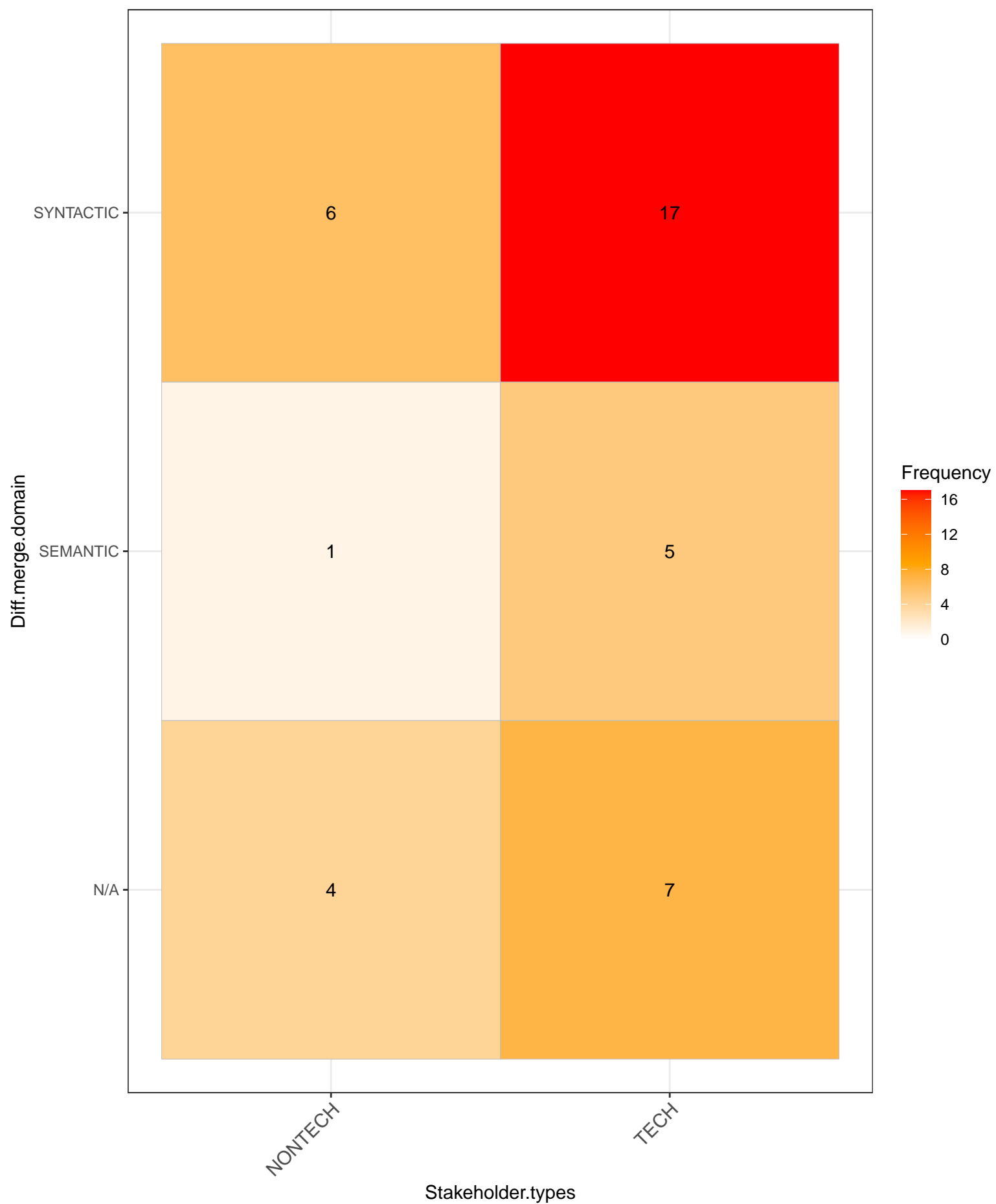


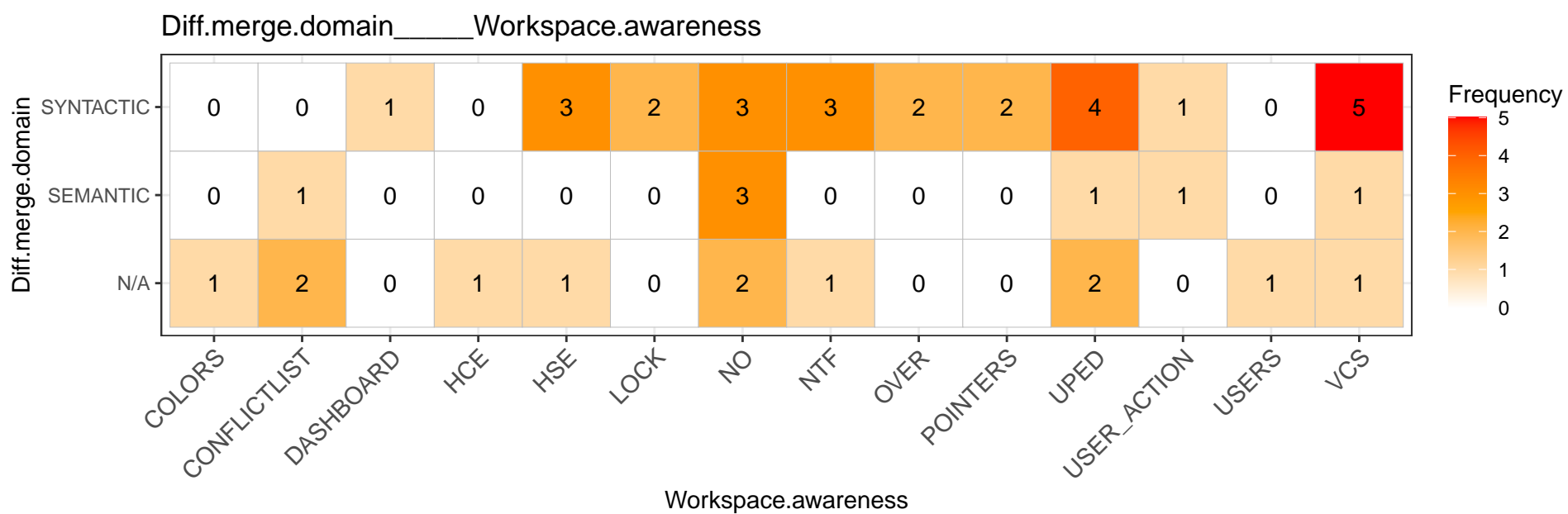






Diff.merge.domain_____Stakeholder.types





Diff.merge.domain_____Workspace.awareness.score

Diff.merge.domain

SYNTACTIC

6

8

3

SEMANTIC

1

3

1

N/A

4

2

1

HIGH

LOW

MED

Workspace.awareness.score

Frequency

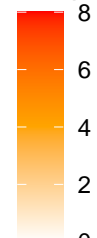
8

6

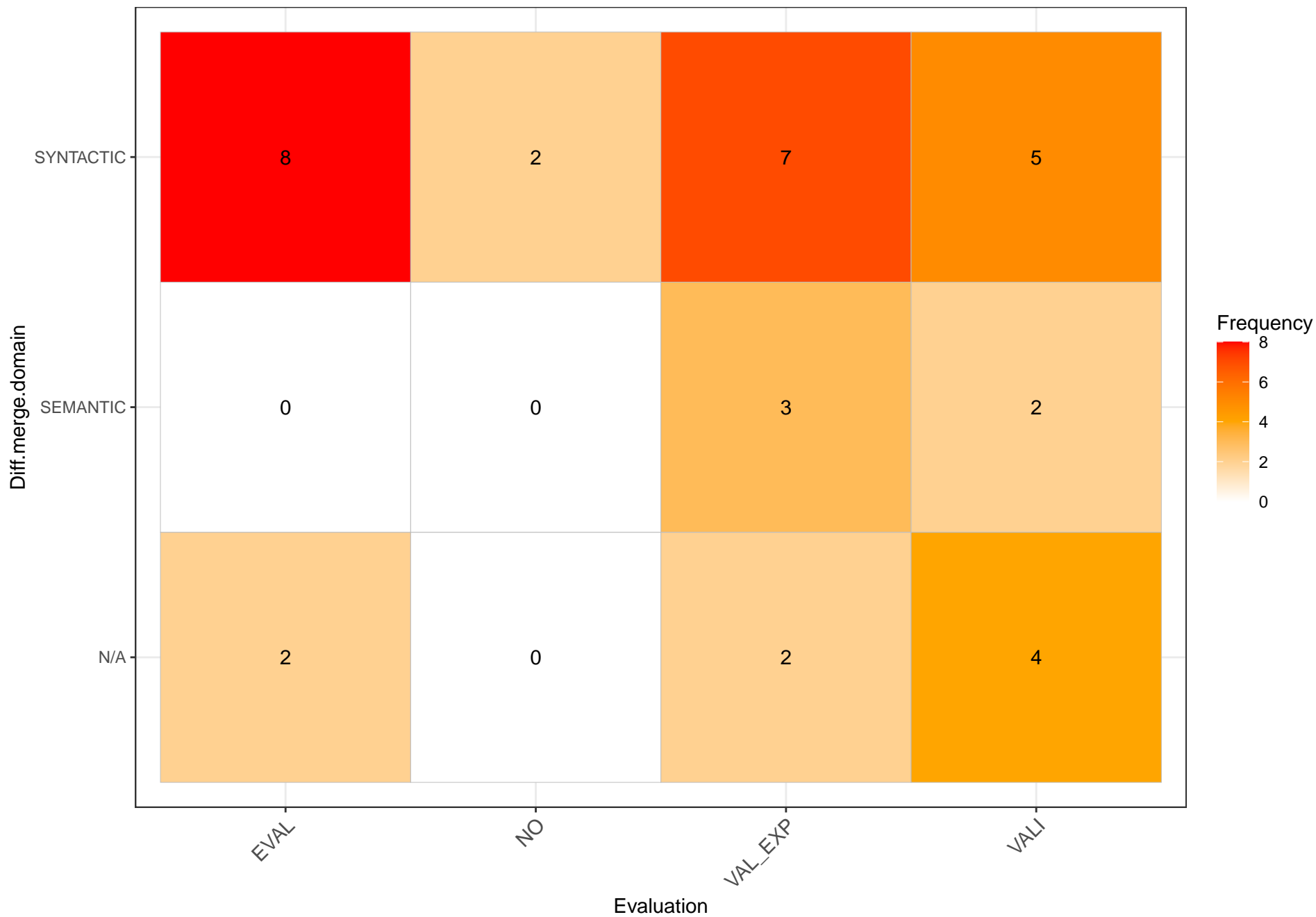
4

2

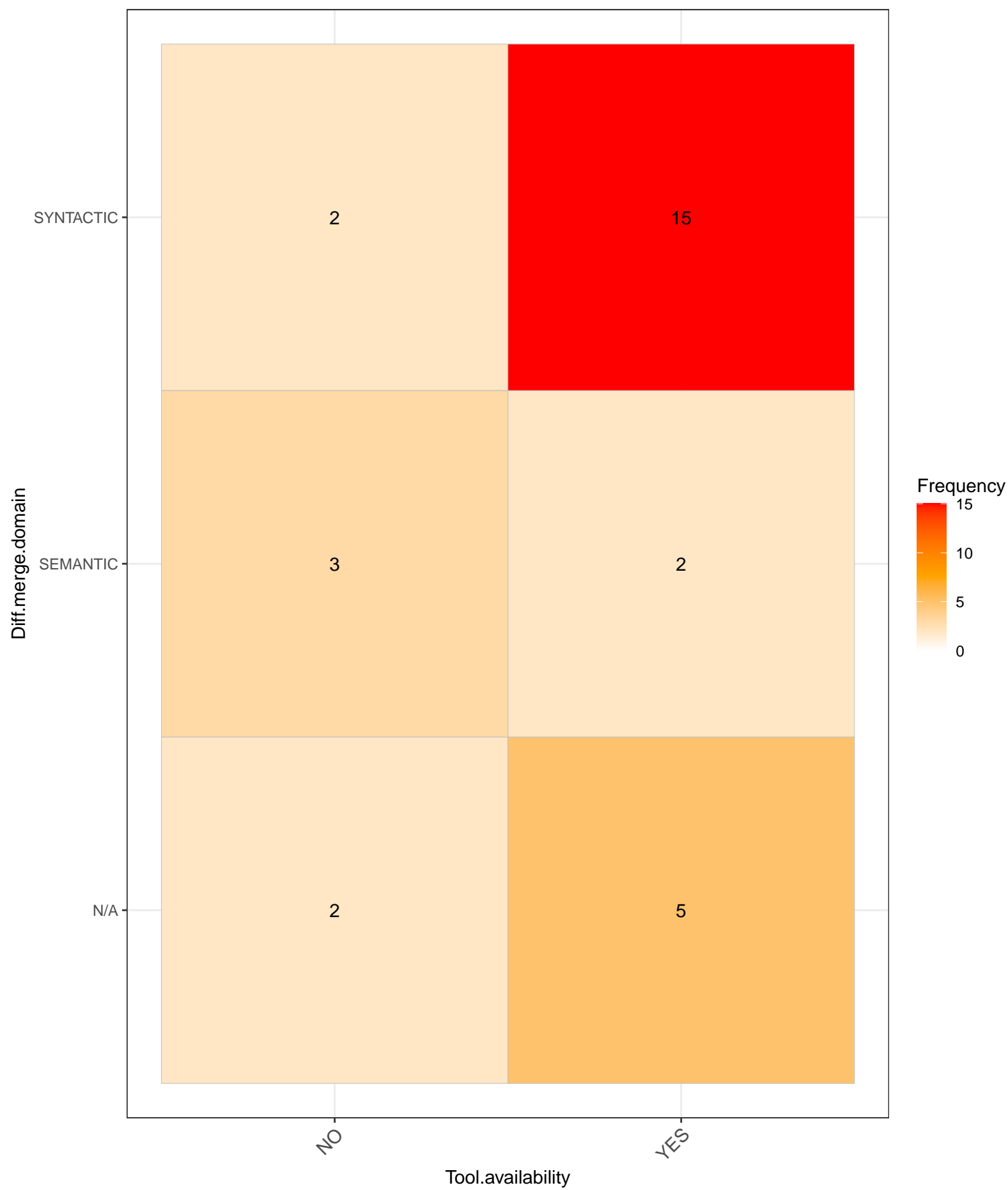
0

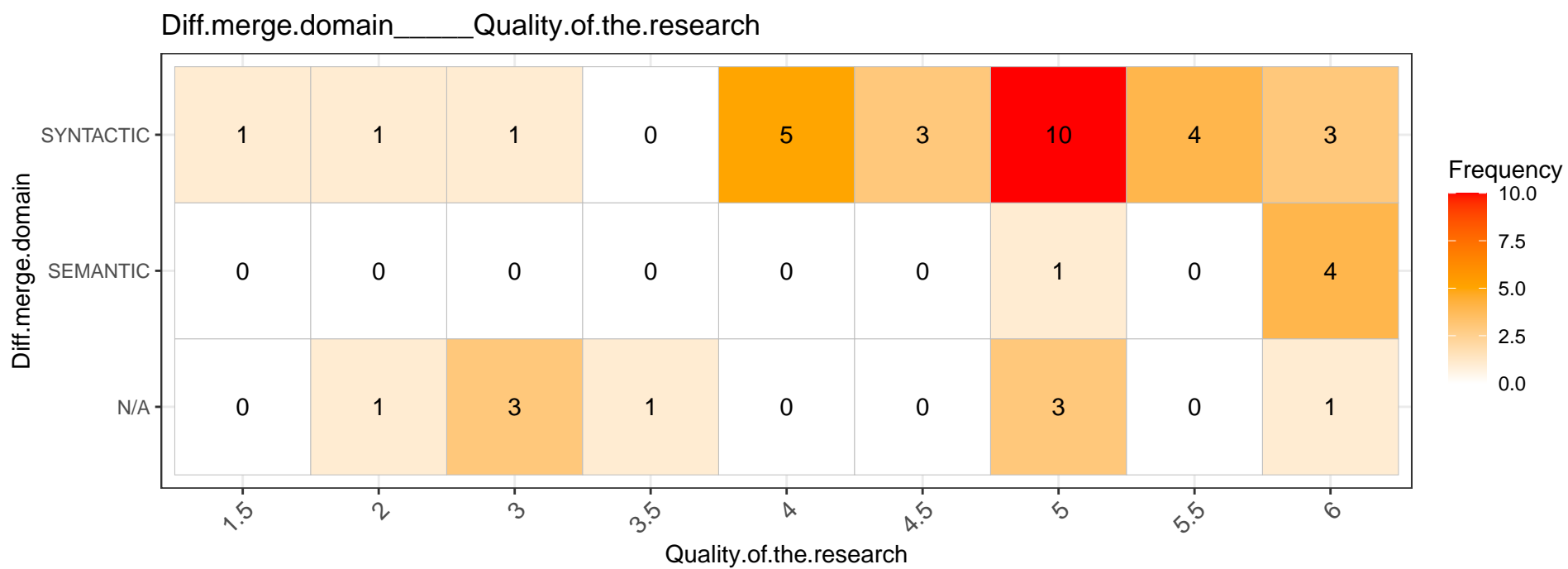


Diff.merge.domain____Evaluation



Diff.merge.domain_____Tool.availability





Conflict.mgmt.approach____Conflict.detection

Conflict.mgmt.approach

PREVENTIVE

NO

ALLOW&RESOLVE

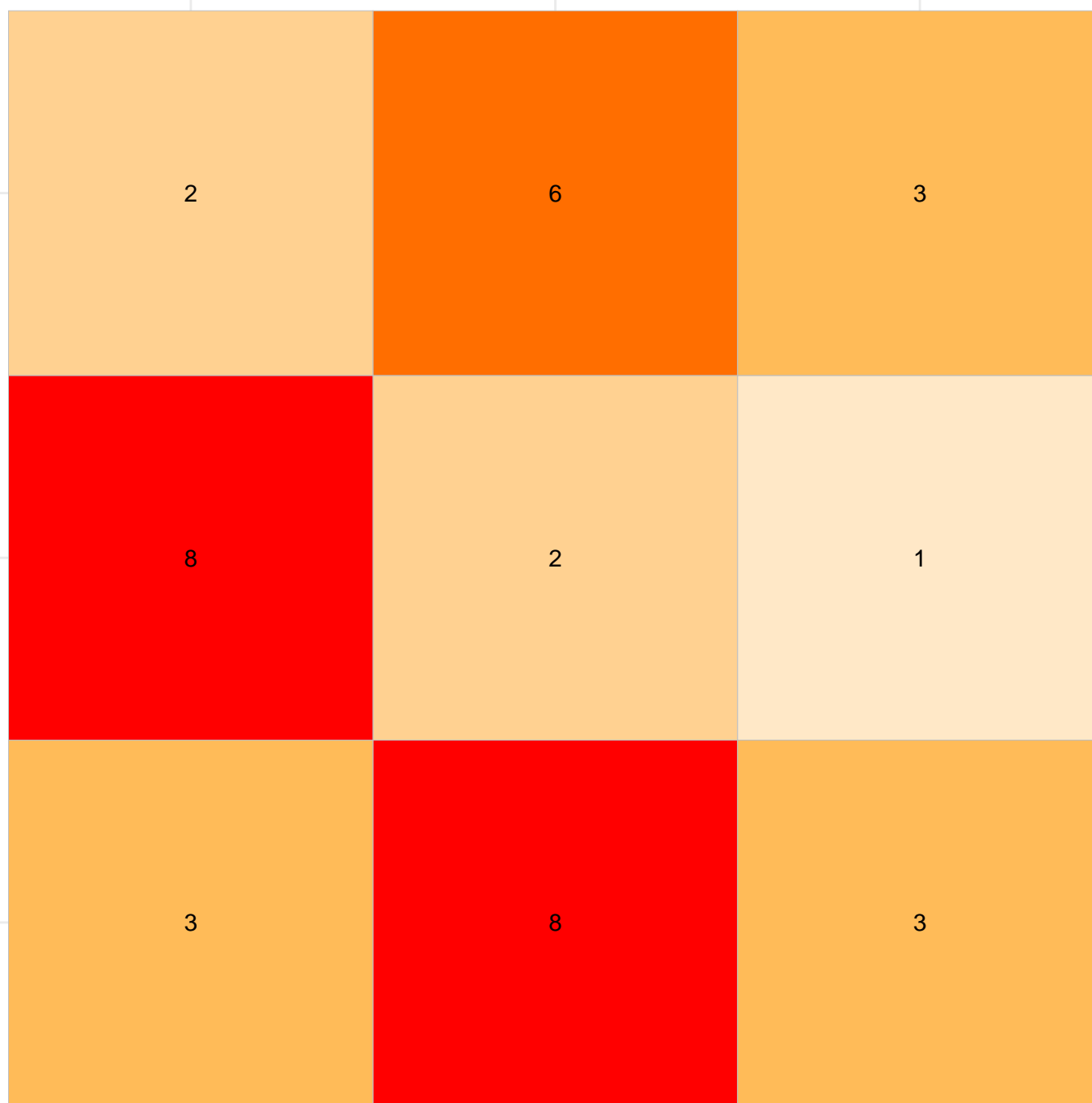
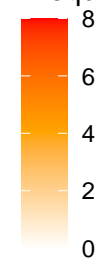
NO

YES

YES: INCREMENTAL

Conflict.detection

Frequency



Conflict.mgmt.approach____Conflict.awareness..User.

Conflict.mgmt.approach

PREVENTIVE

5

1

2

NO

9

0

1

ALLOW&RESOLVE

5

1

5

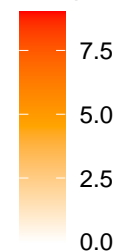
NO

PROMPT ACTION

WARNING

Conflict.awareness..User.

Frequency



Conflict.mgmt.approach____Conflict.resolution.support

Conflict.mgmt.approach

PREVENTIVE

NO

ALLOW&RESOLVE

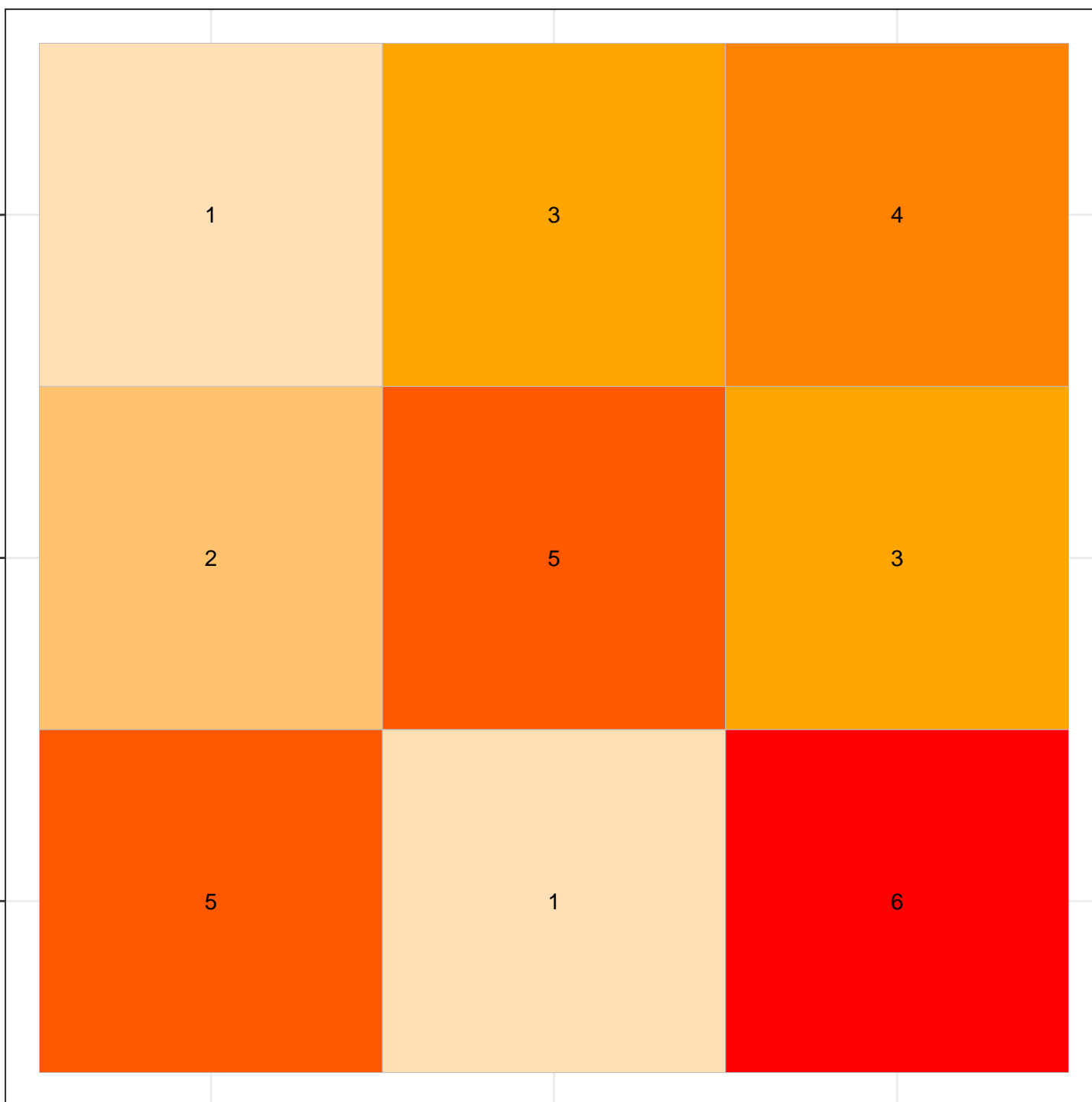
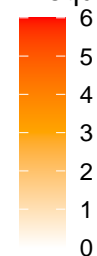
MANUAL

NO

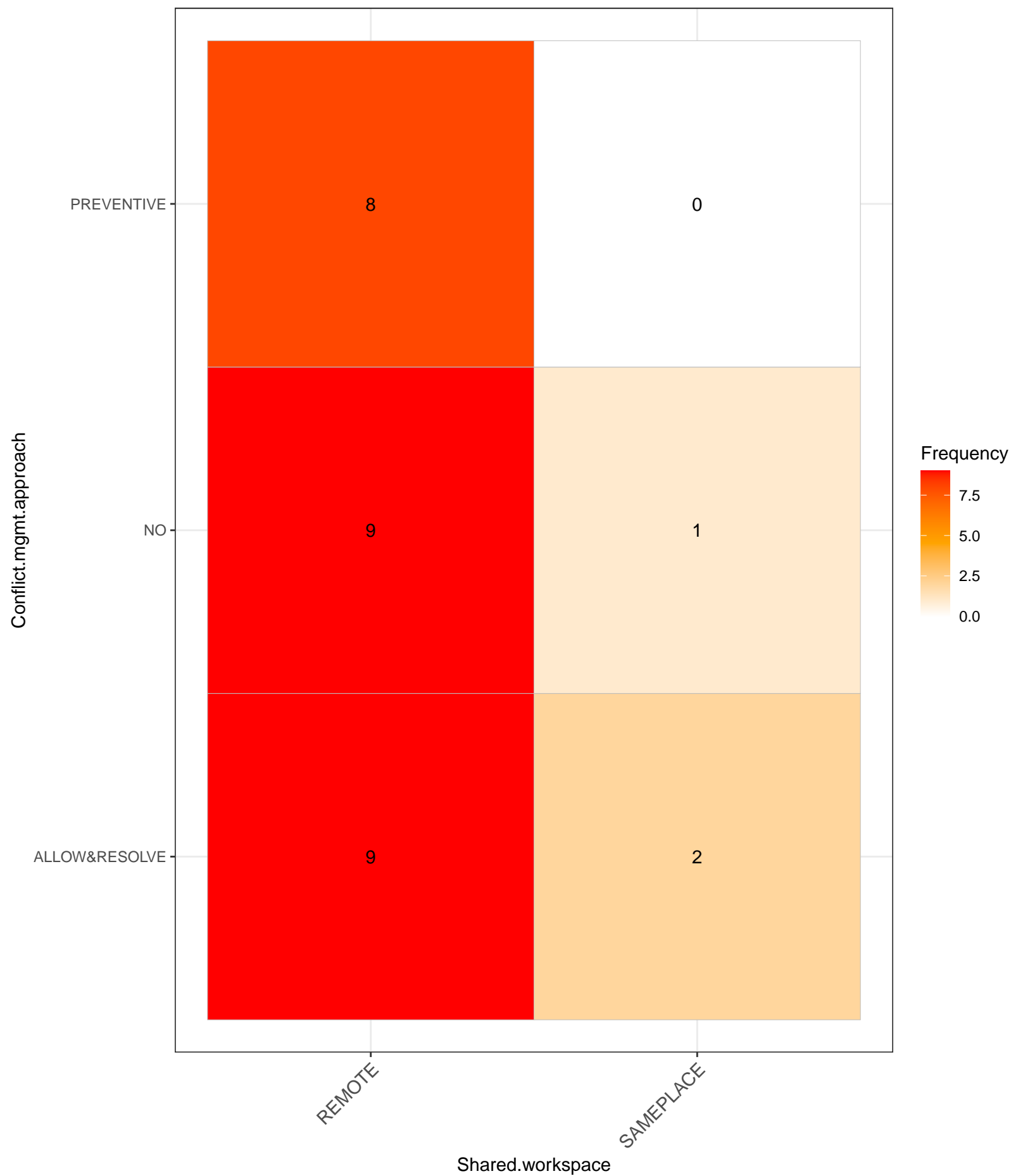
SEMI-AUTOMATED

Conflict.resolution.support

Frequency



Conflict.mgmt.approach_____Shared.workspace



Conflict.mgmt.approach____Network.architecture

Conflict.mgmt.approach

PREVENTIVE

1

5

1

1

NO

3

6

1

1

ALLOW&RESOLVE

2

8

1

1

CENTRALIZED: MULTIPLE SERVERS

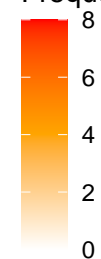
CENTRALIZED: SINGLE SERVER

MIXED

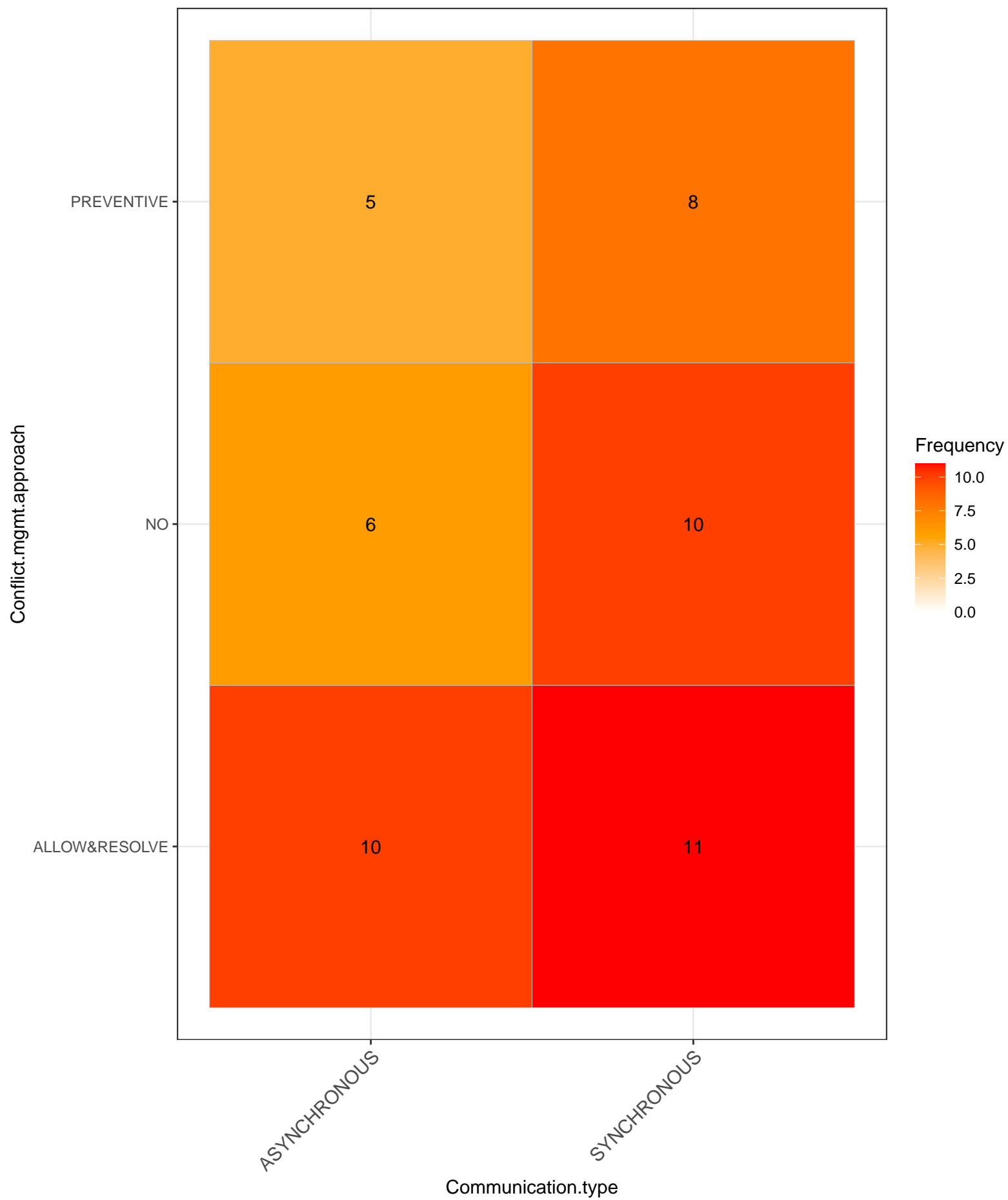
P2P

Network.architecture

Frequency

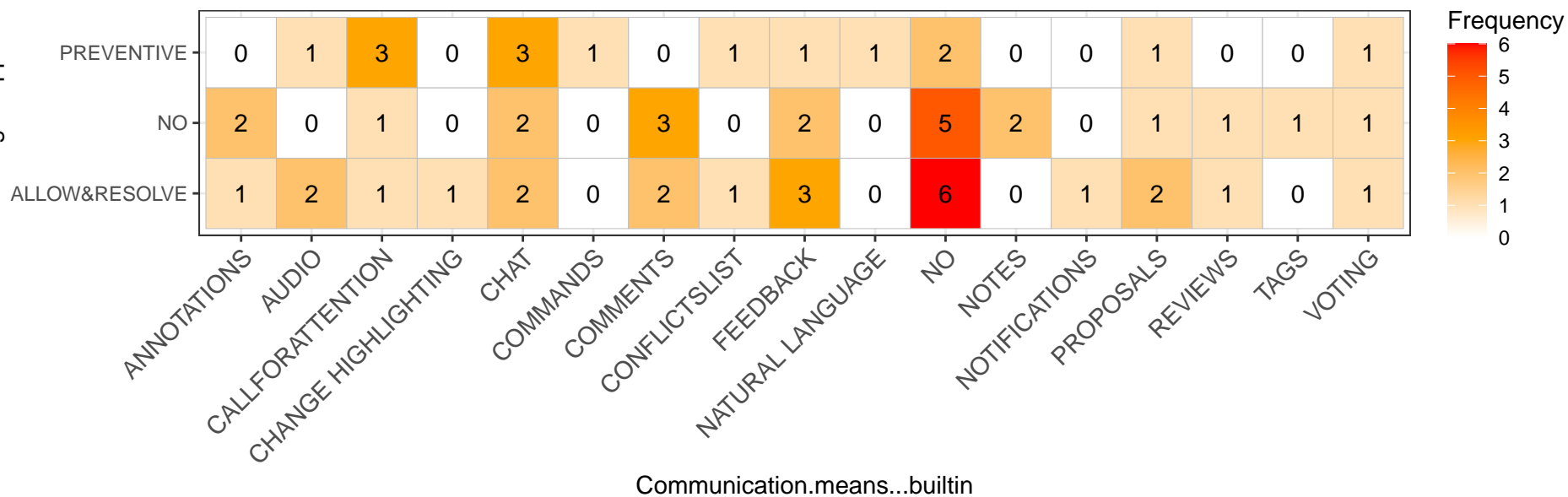


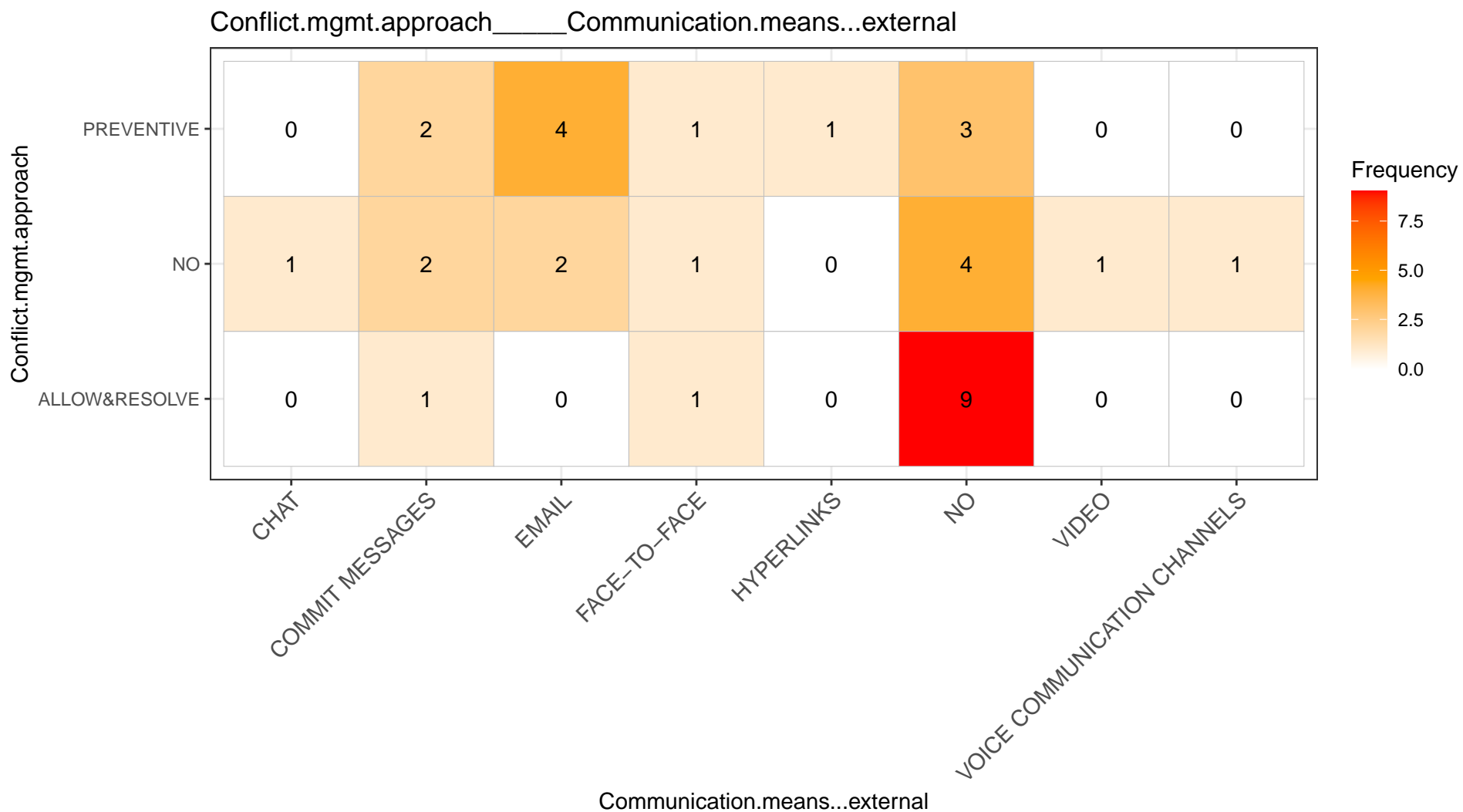
Conflict.mgmt.approach_____Communication.type

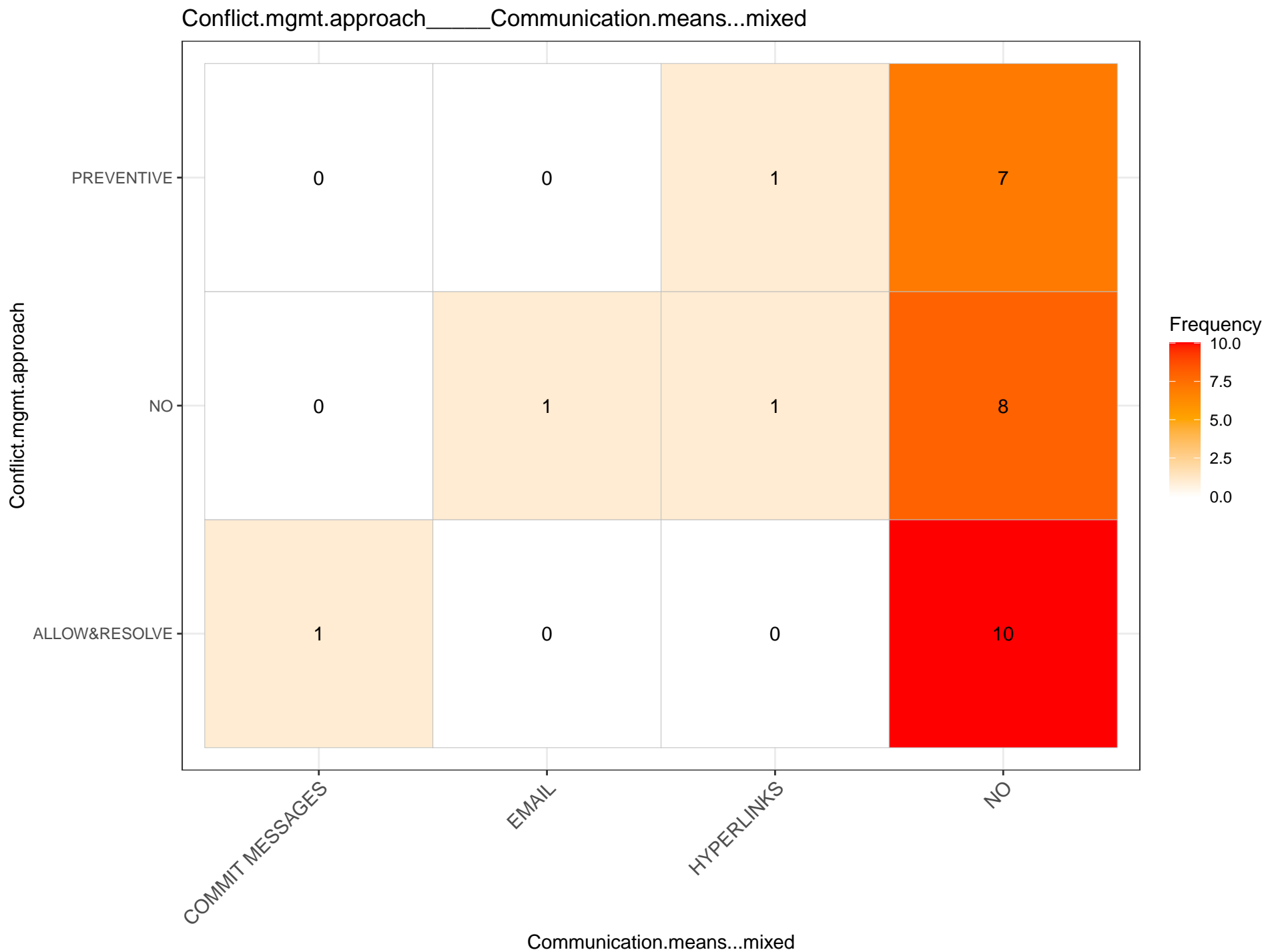


Conflict.mgmt.approach

Conflict.mgmt.approach_____Communication.means...builtin

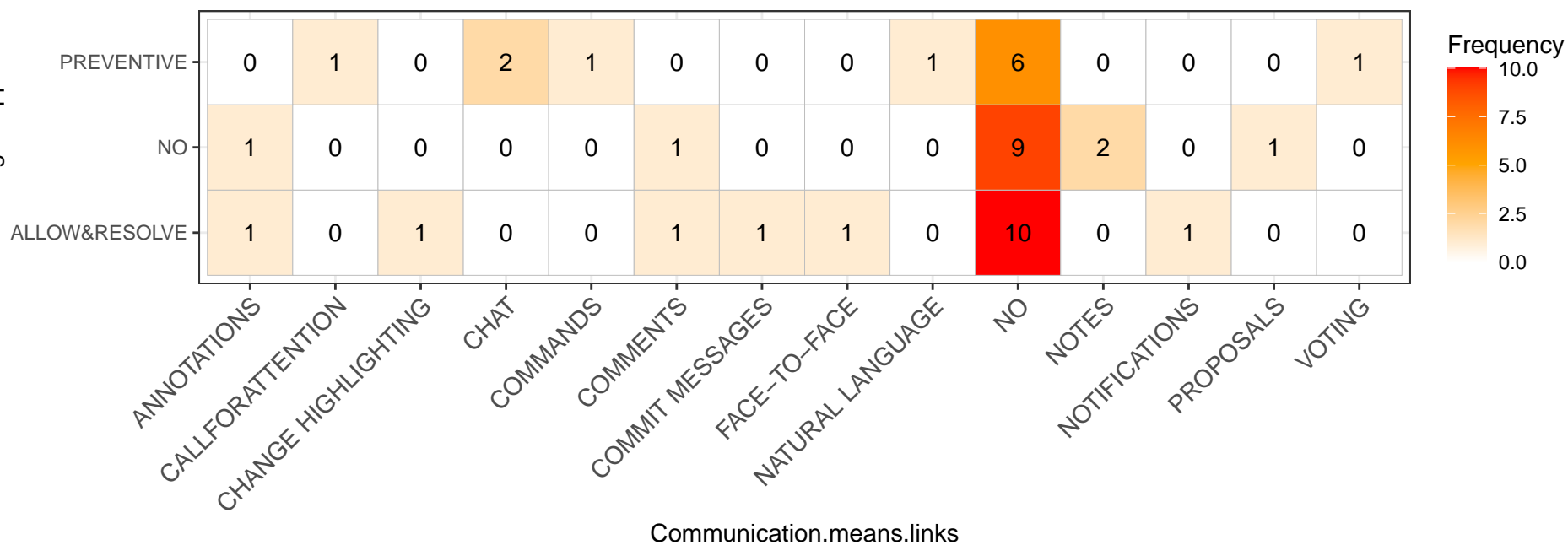


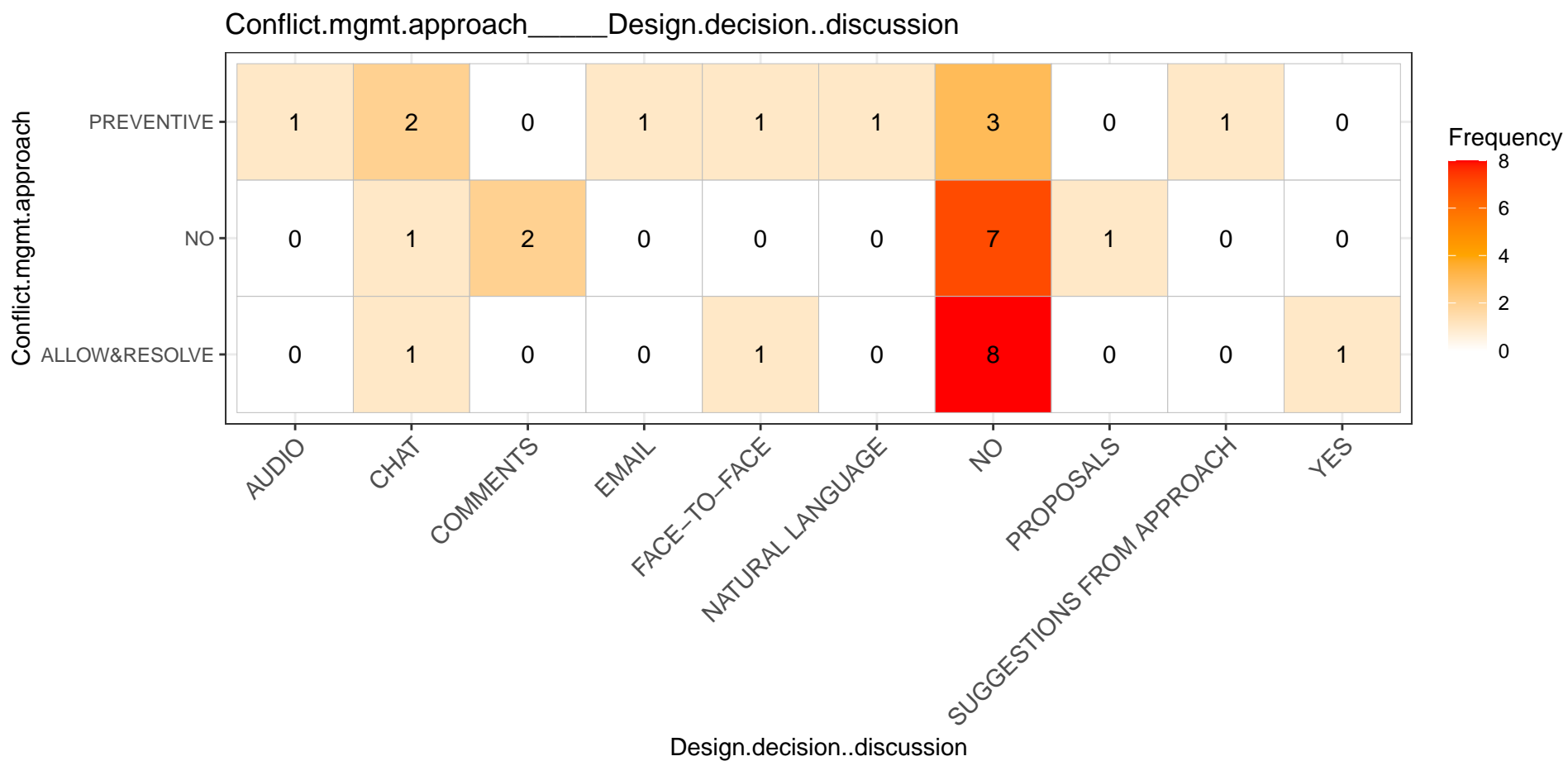


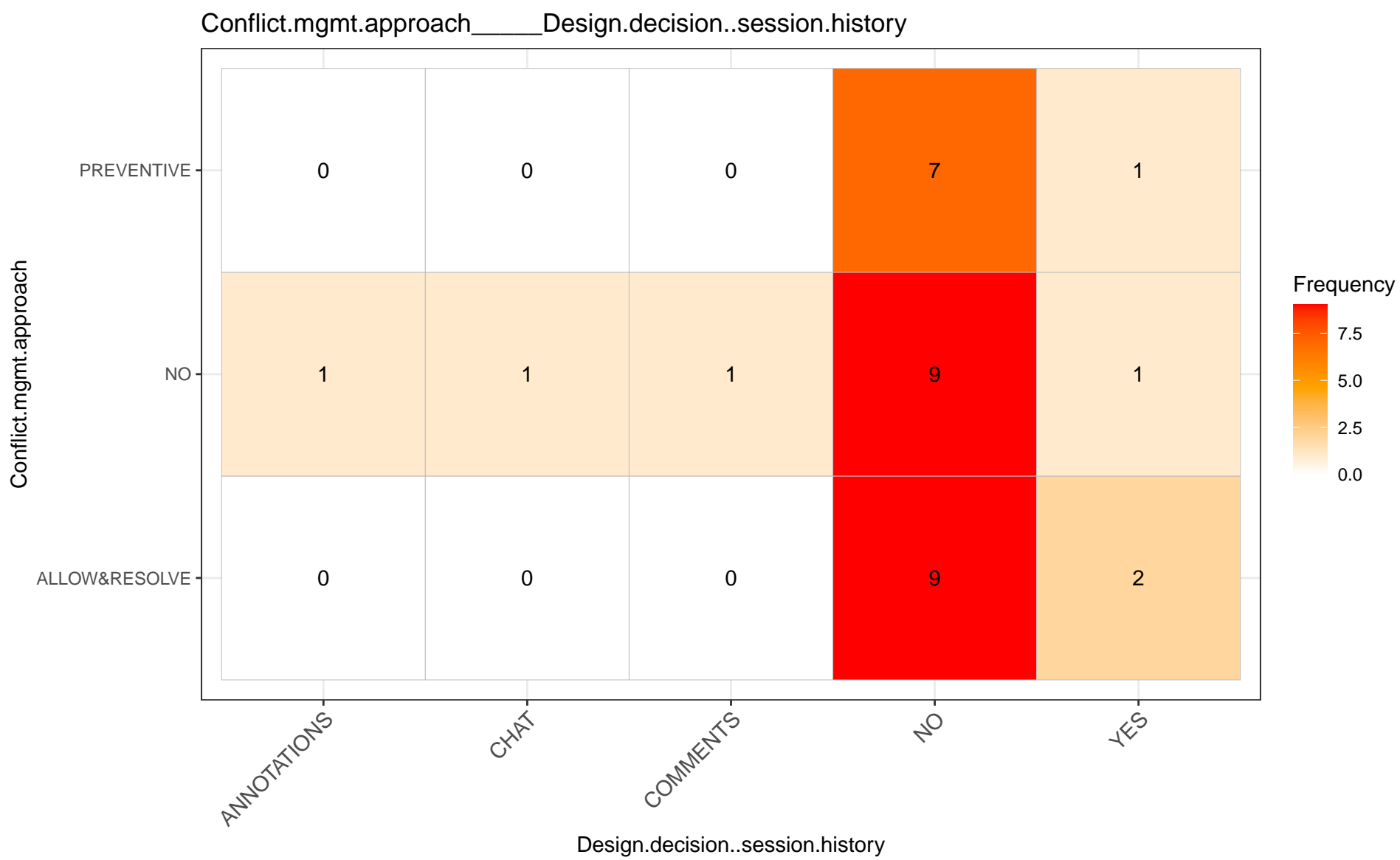


Conflict.mgmt.approach

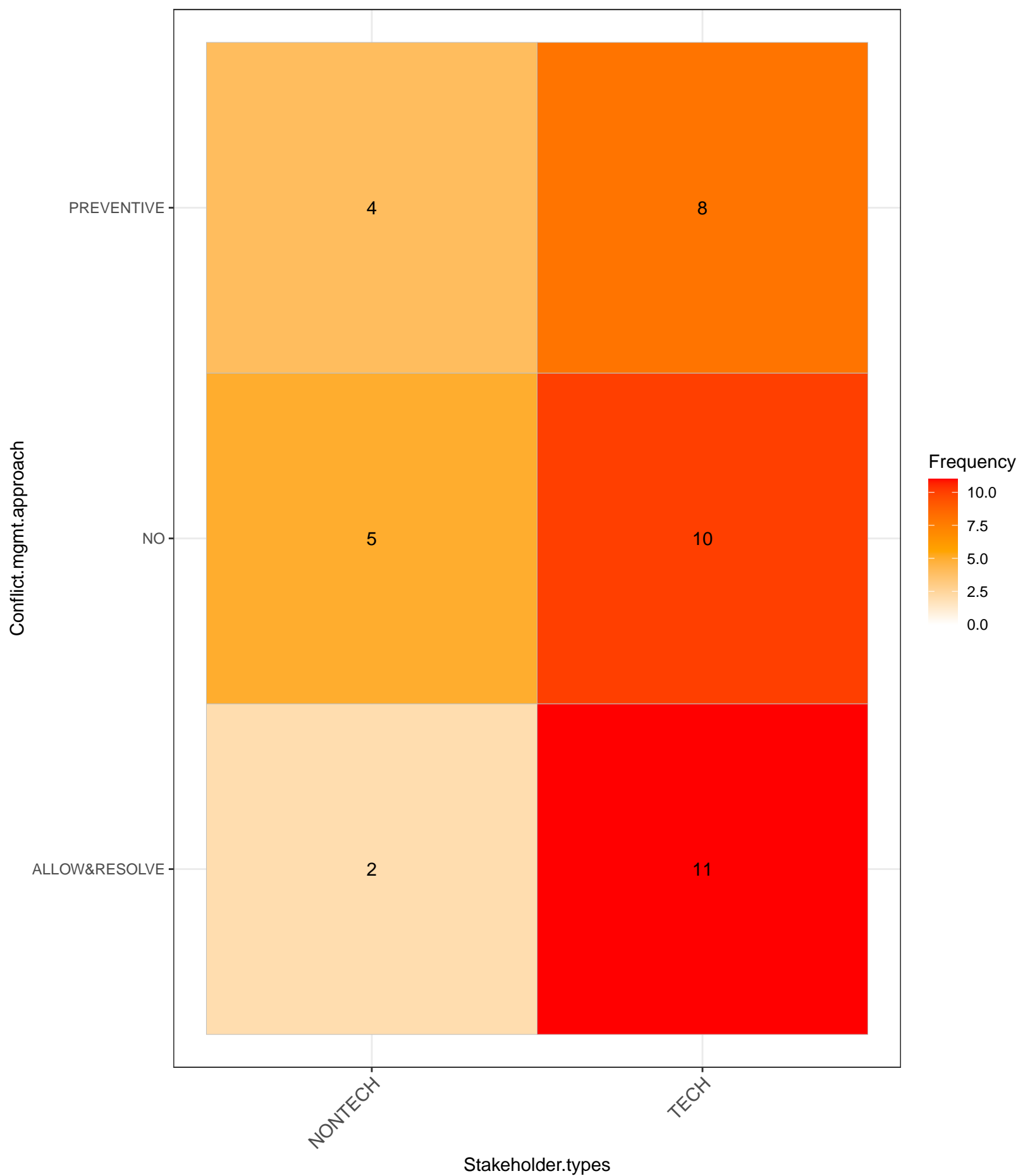
Conflict.mgmt.approach_____Communication.means.links





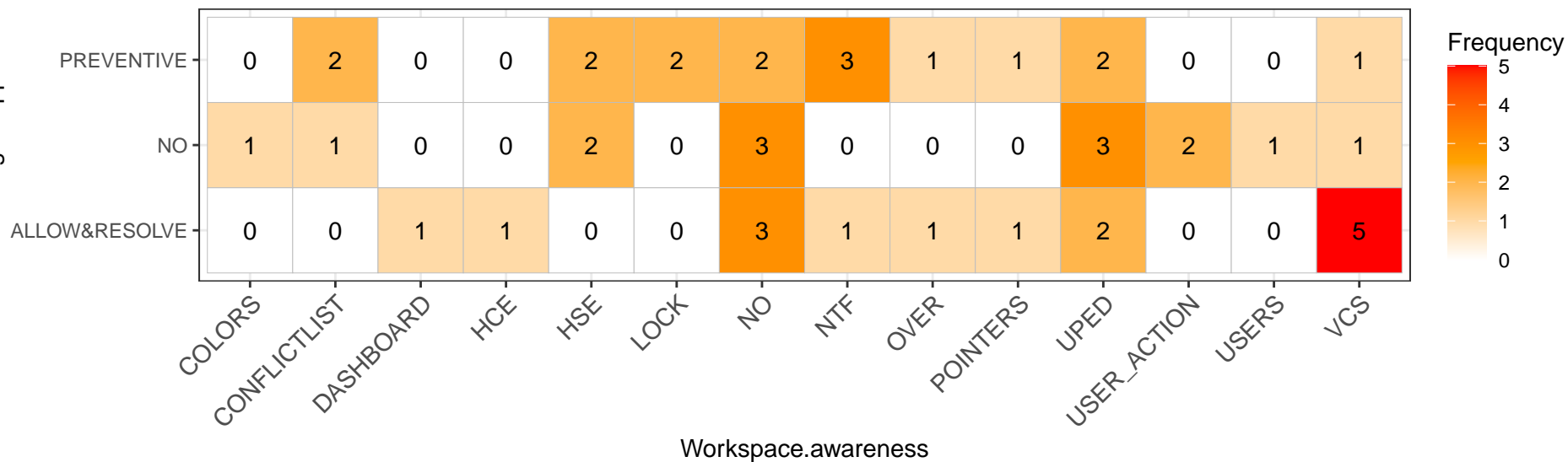


Conflict.mgmt.approach_____Stakeholder.types



Conflict.mgmt.approach

Conflict.mgmt.approach_____Workspace.awareness



Conflict.mgmt.approach_____Workspace.awareness.score

Conflict.mgmt.approach

PREVENTIVE

NO

ALLOW&RESOLVE

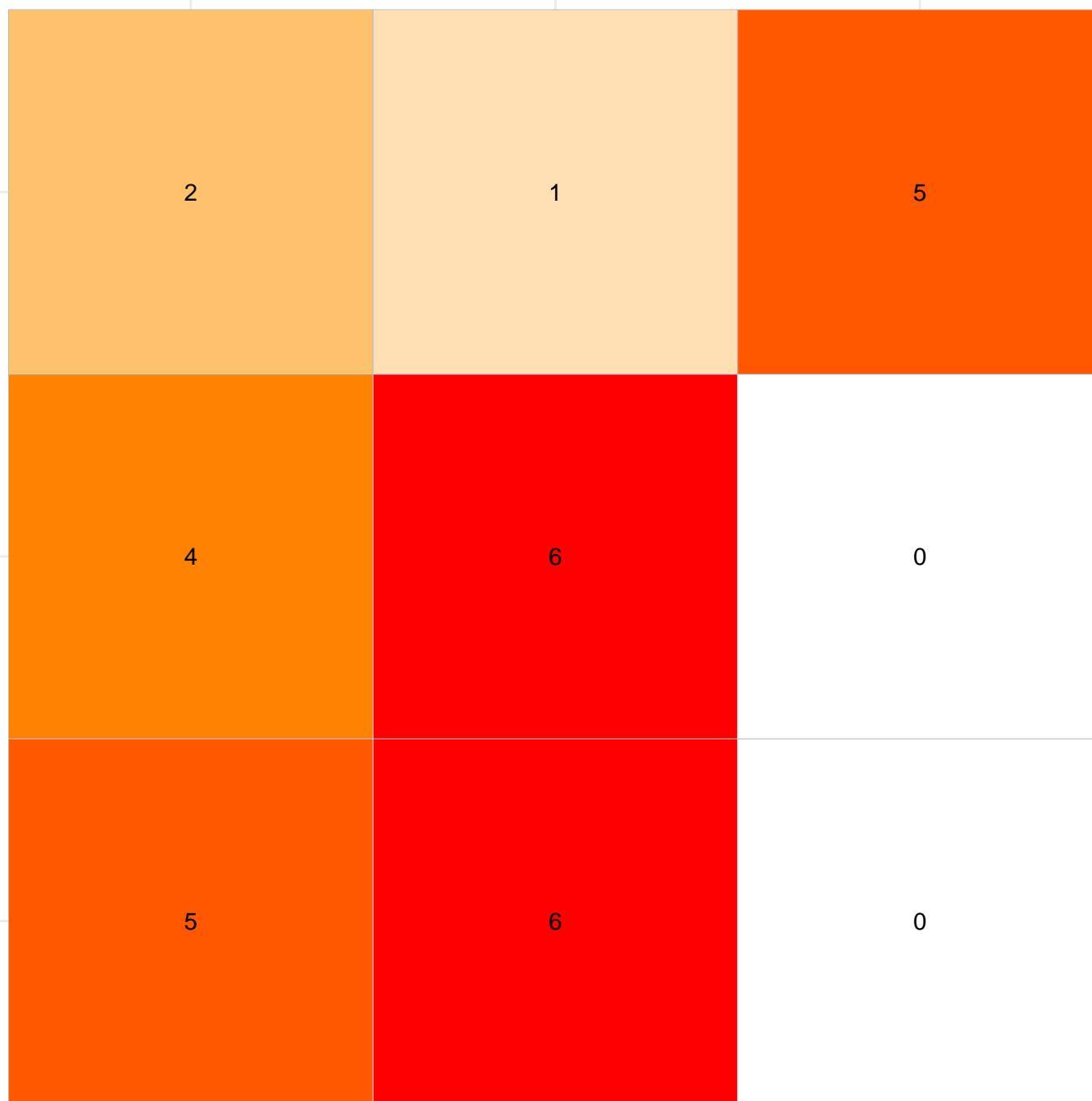
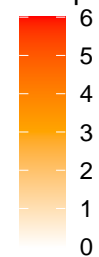
HIGH

LOW

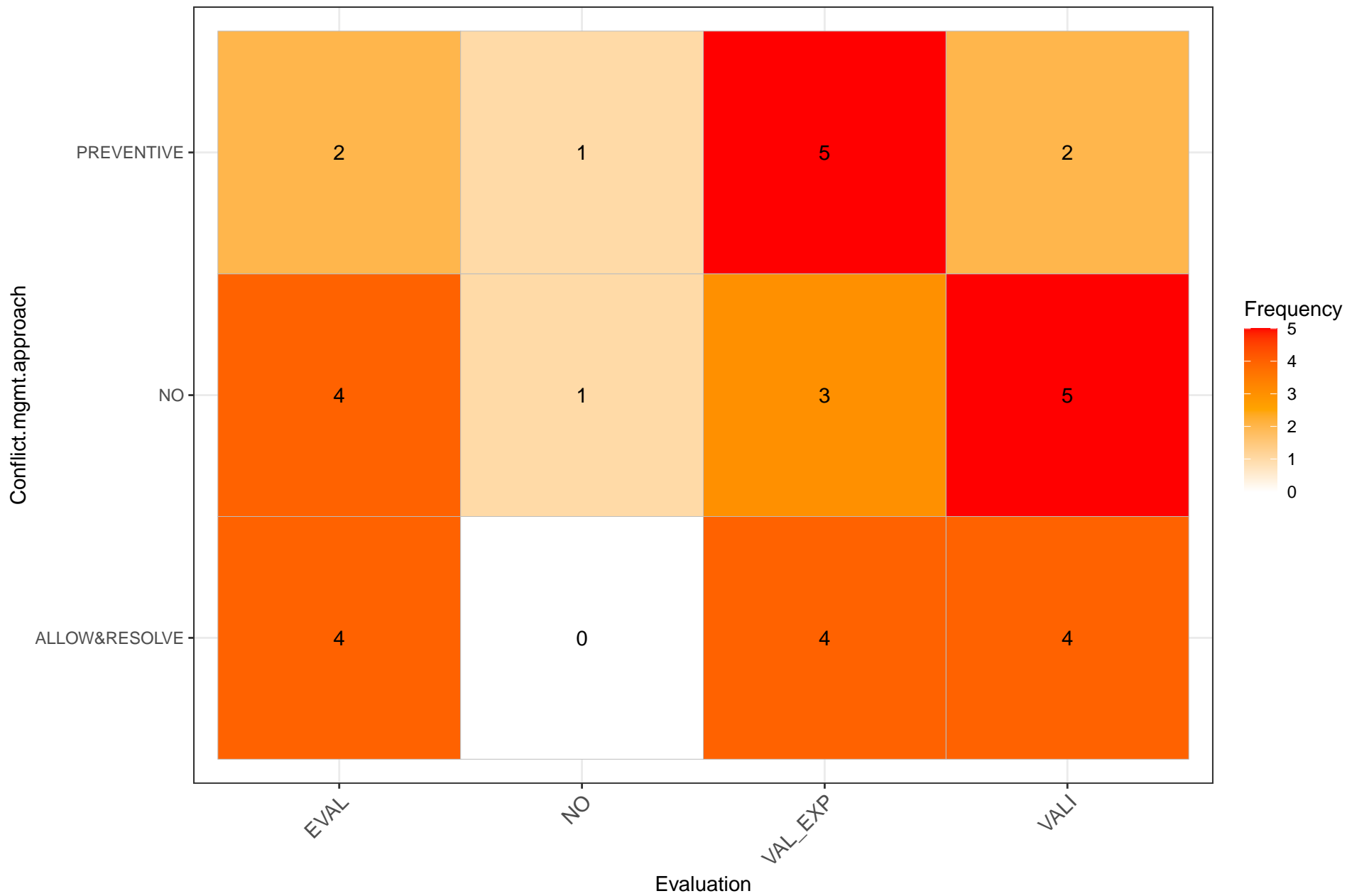
MED

Workspace.awareness.score

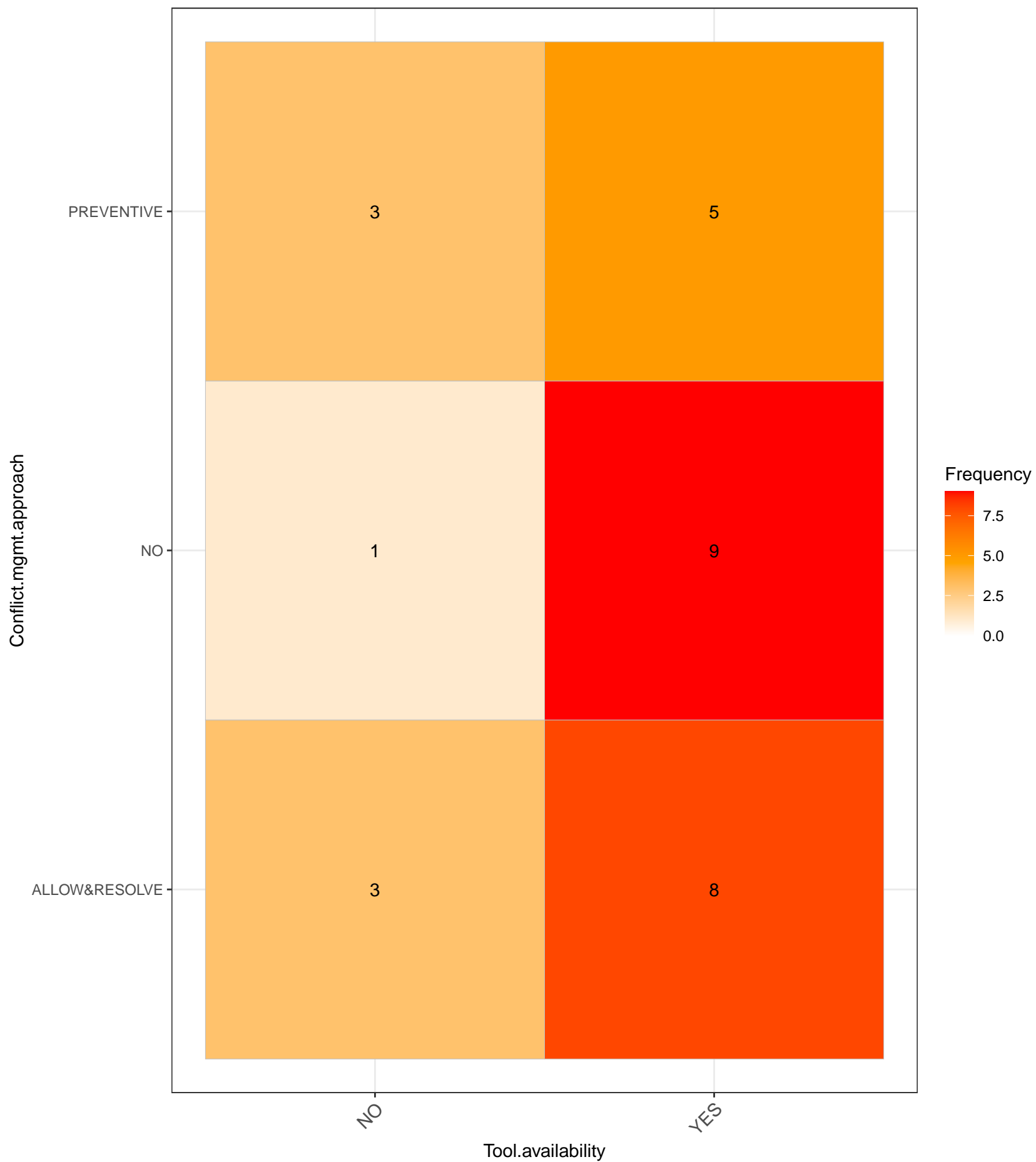
Frequency

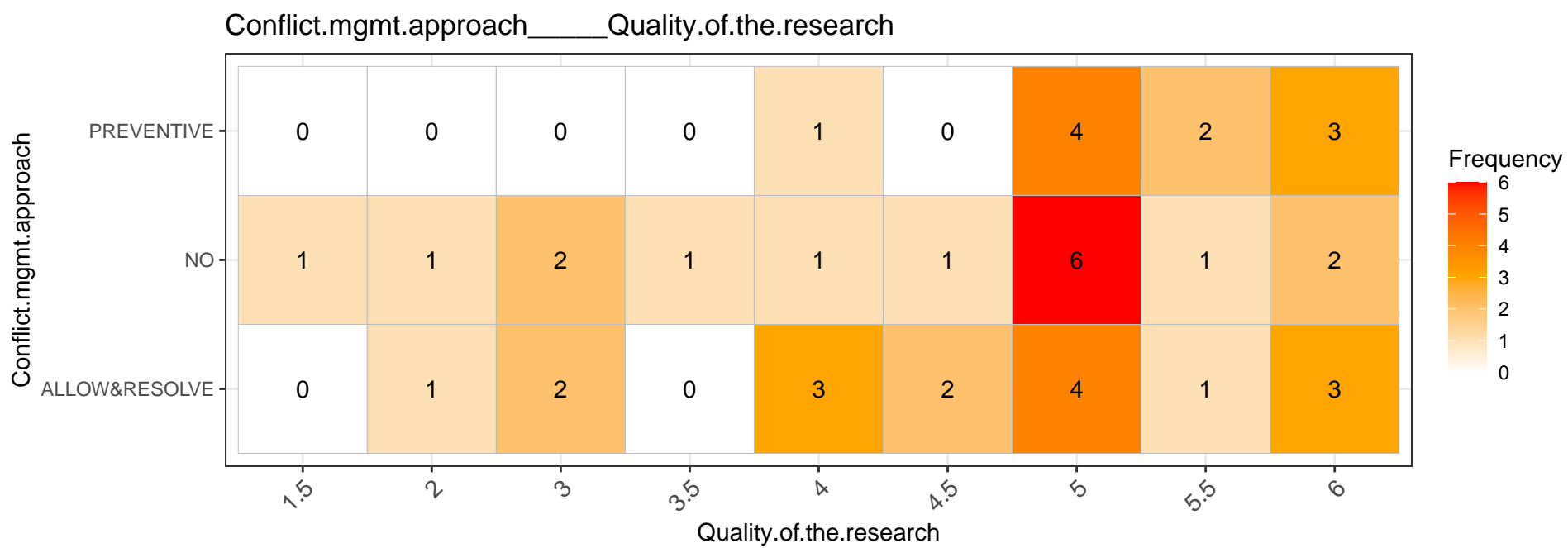


Conflict.mgmt.approach____Evaluation



Conflict.mgmt.approach_____Tool.availability





Conflict.detection_____Conflict.awareness..User.

Conflict.detection

YES: INCREMENTAL

YES

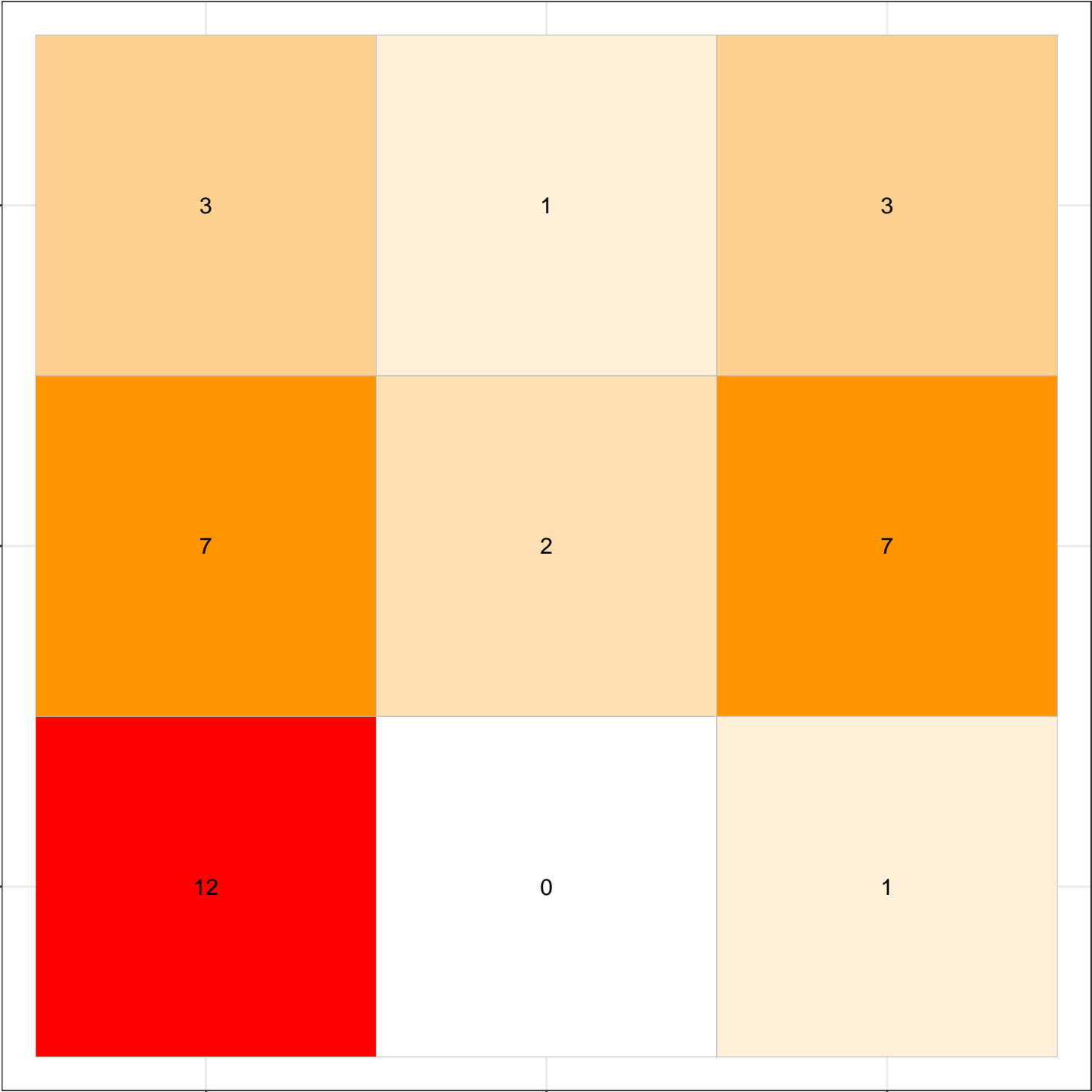
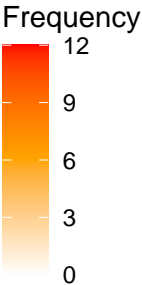
NO

NO

PROMPT ACTION

WARNING

Conflict.awareness..User.



Conflict.detection_____Conflict.resolution.support

Conflict.detection

YES: INCREMENTAL

YES

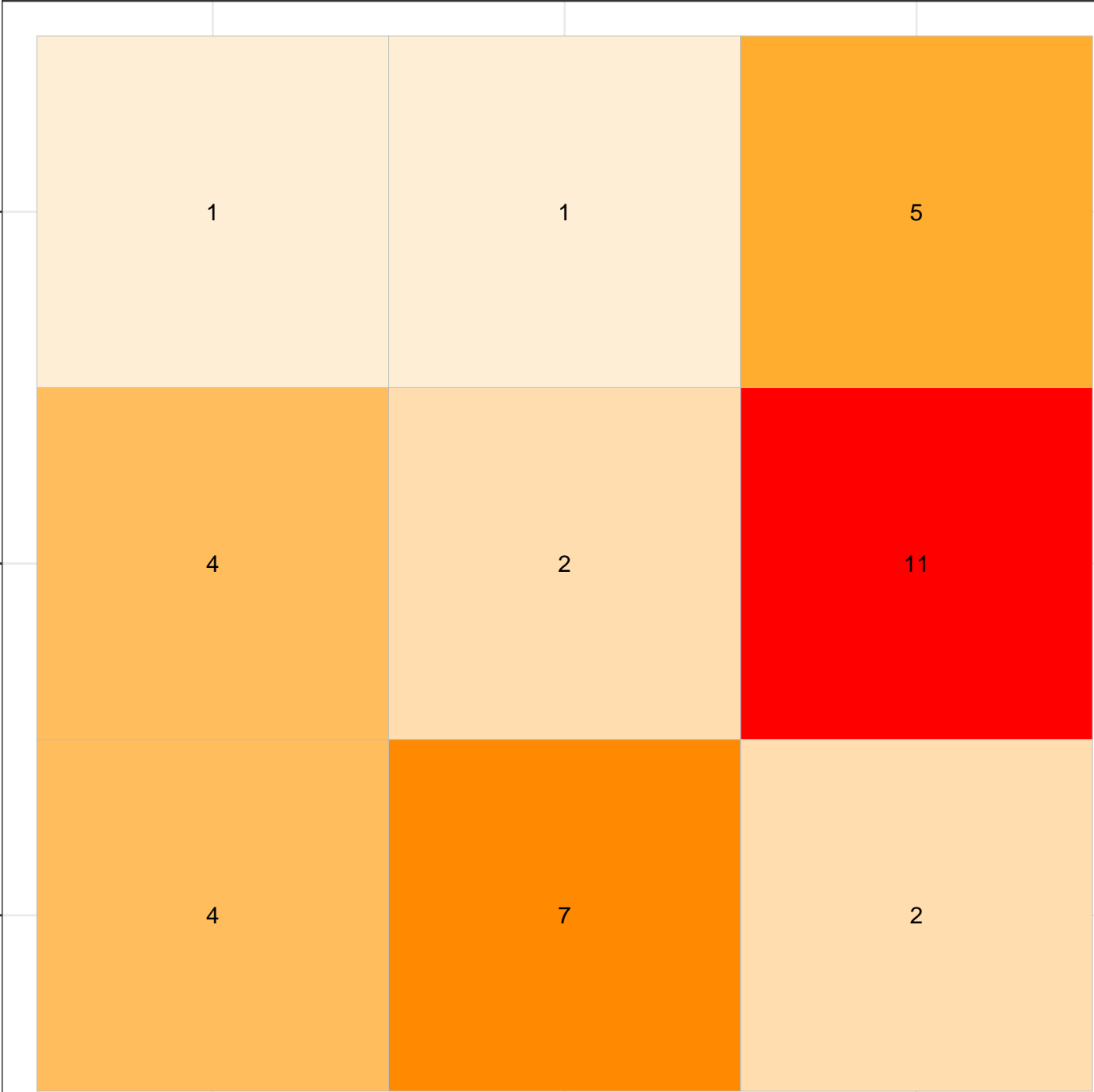
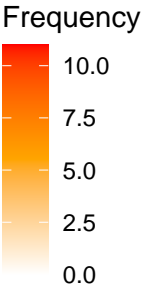
NO

MANUAL

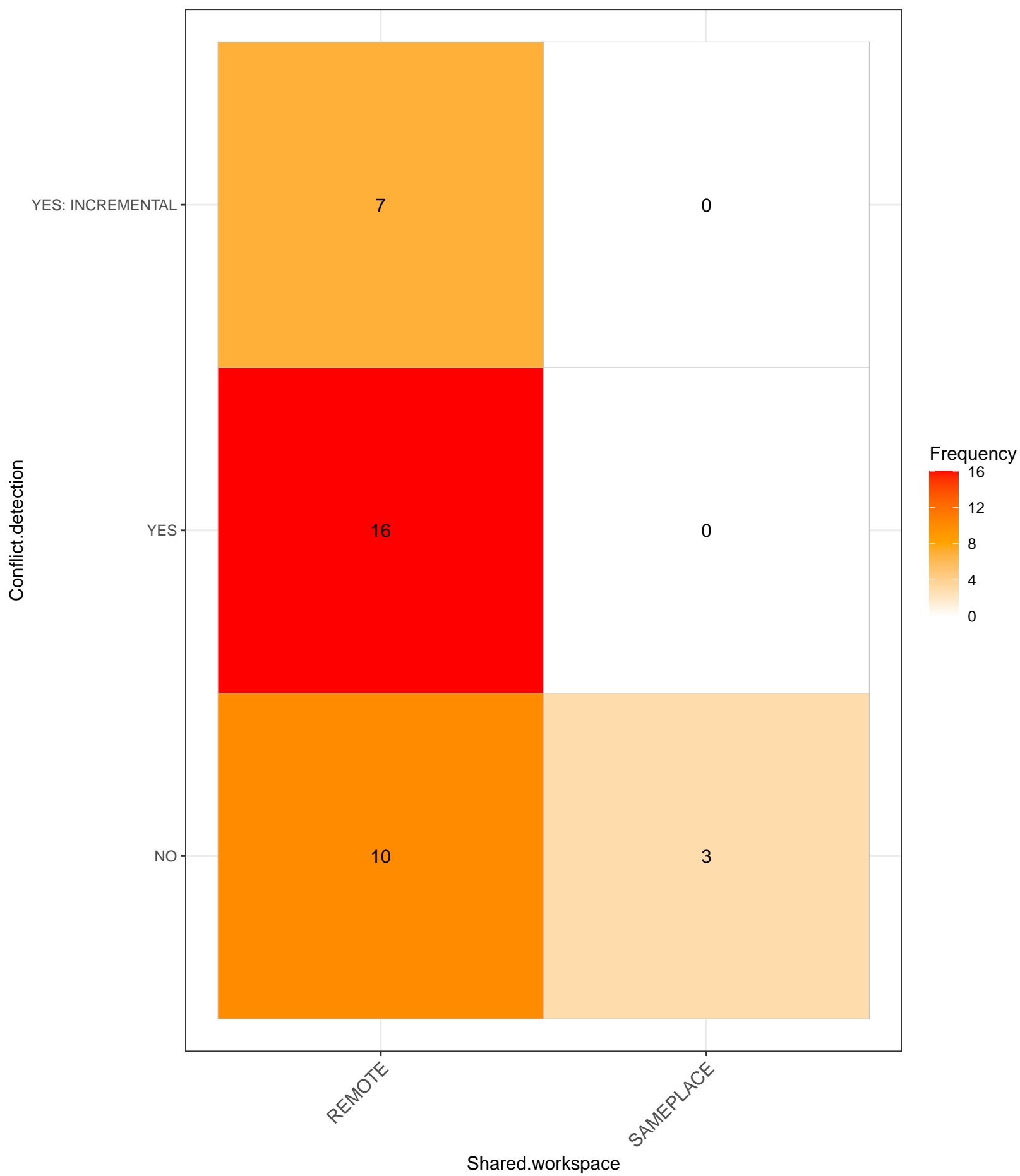
NO

SEMI-AUTOMATED

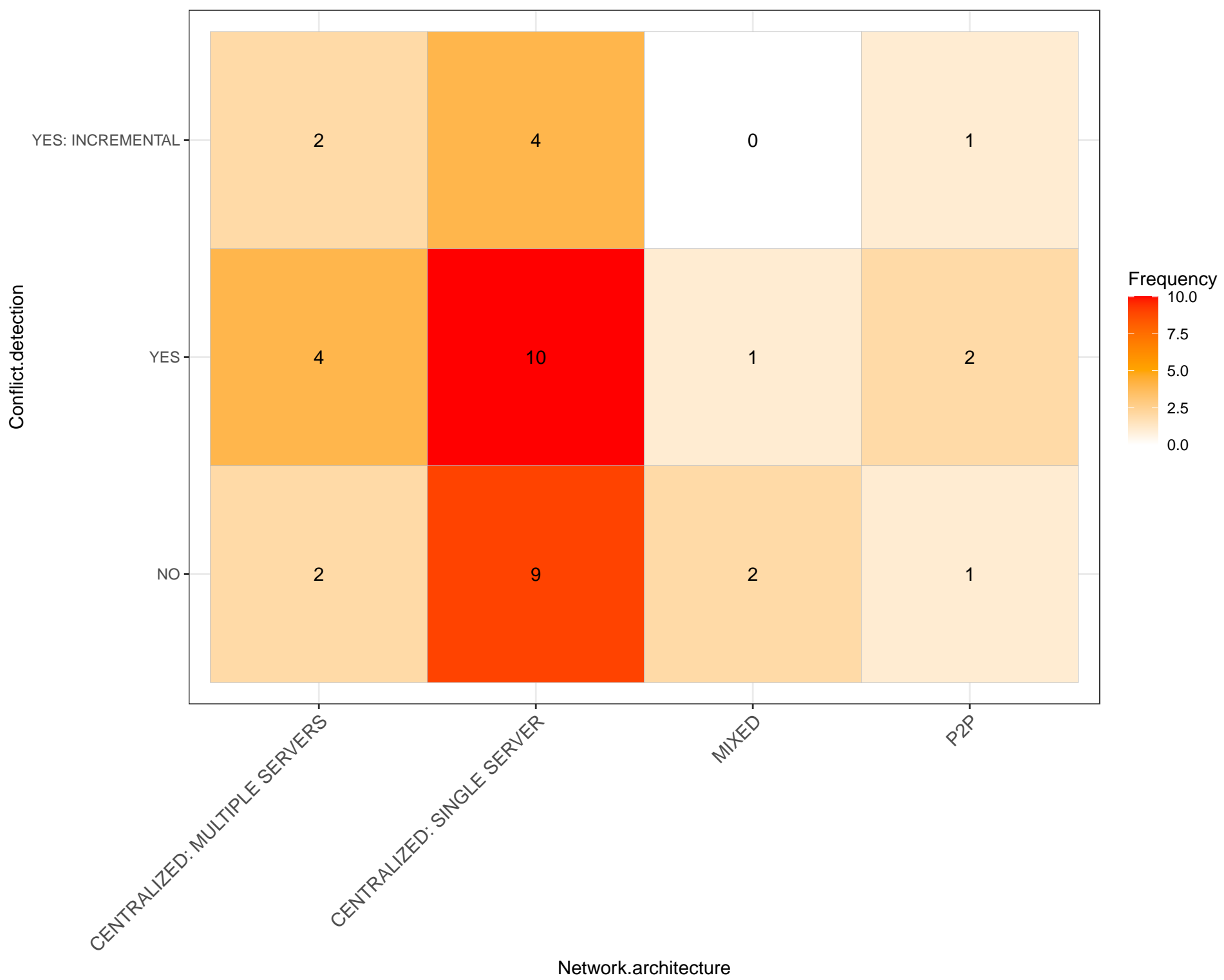
Conflict.resolution.support



Conflict.detection_____Shared.workspace



Conflict.detection_____Network.architecture



Conflict.detection_____Communication.type

Conflict.detection

YES: INCREMENTAL

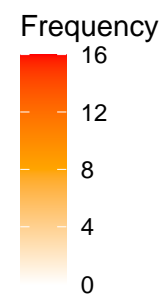
YES

NO

ASYNCHRONOUS

SYNCHRONOUS

Communication.type



7

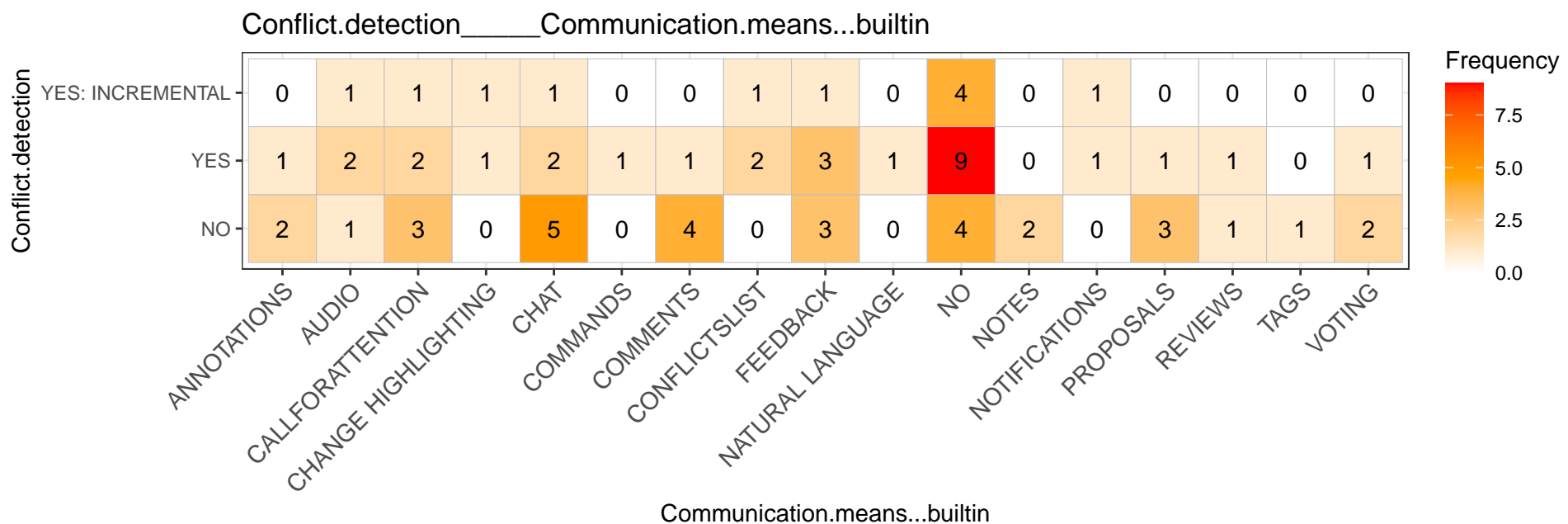
7

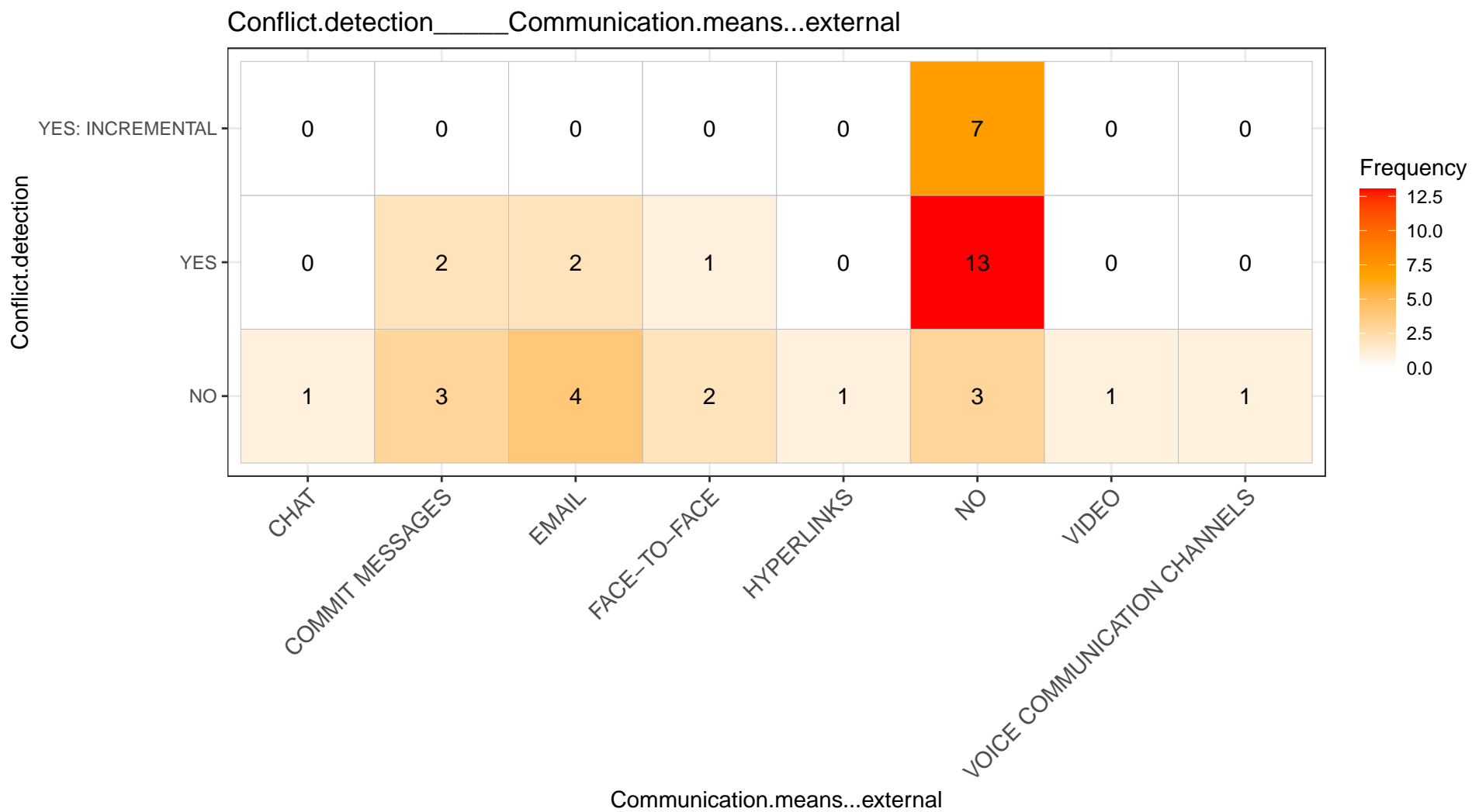
14

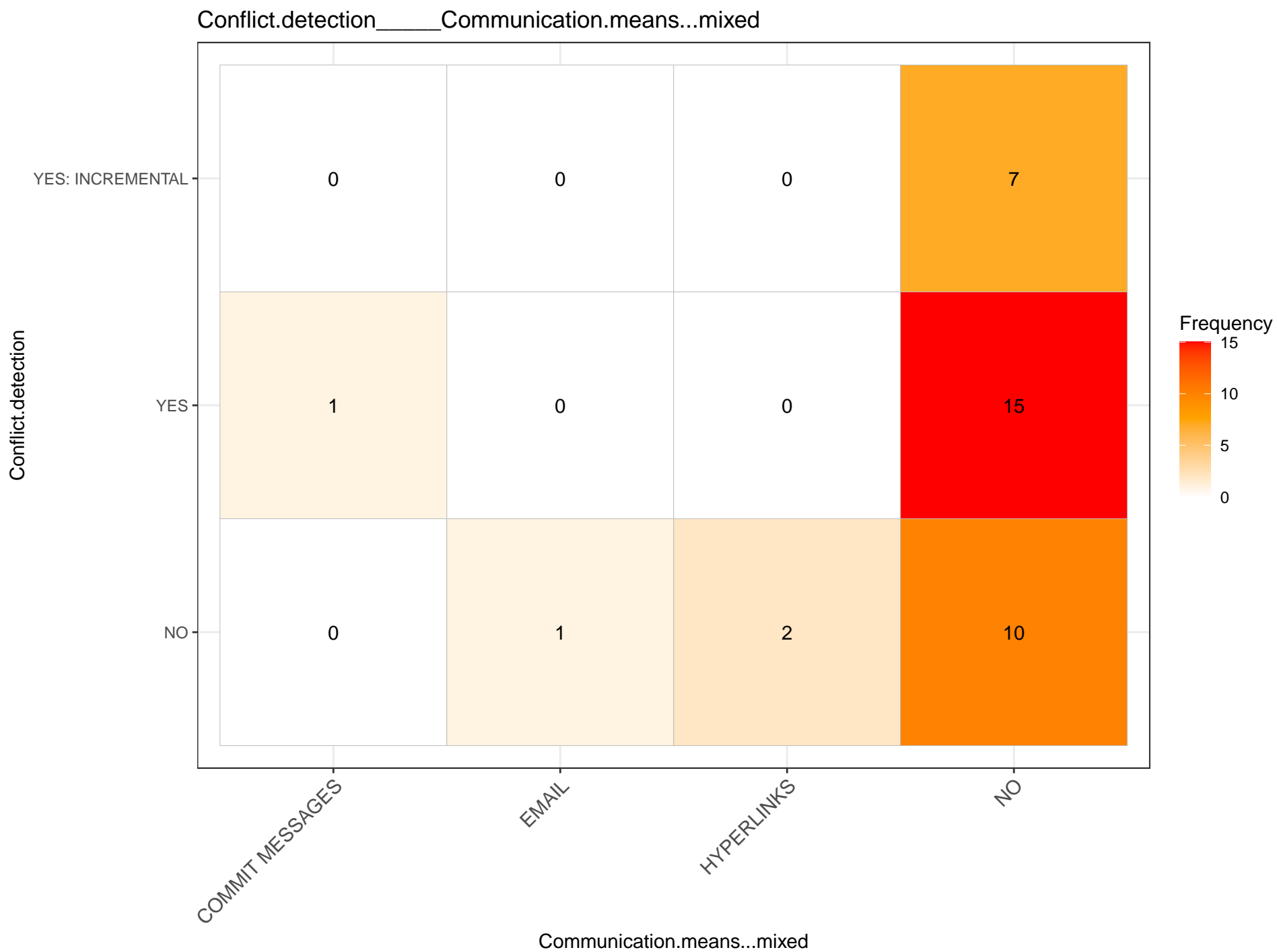
16

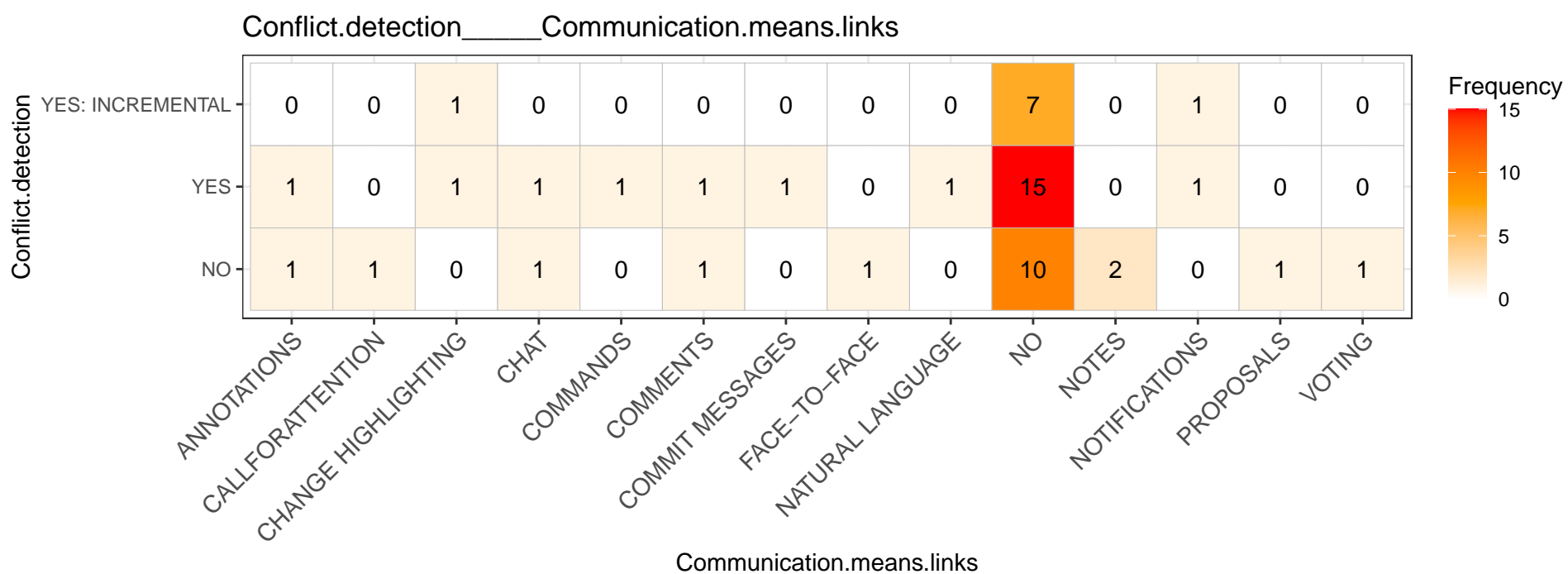
7

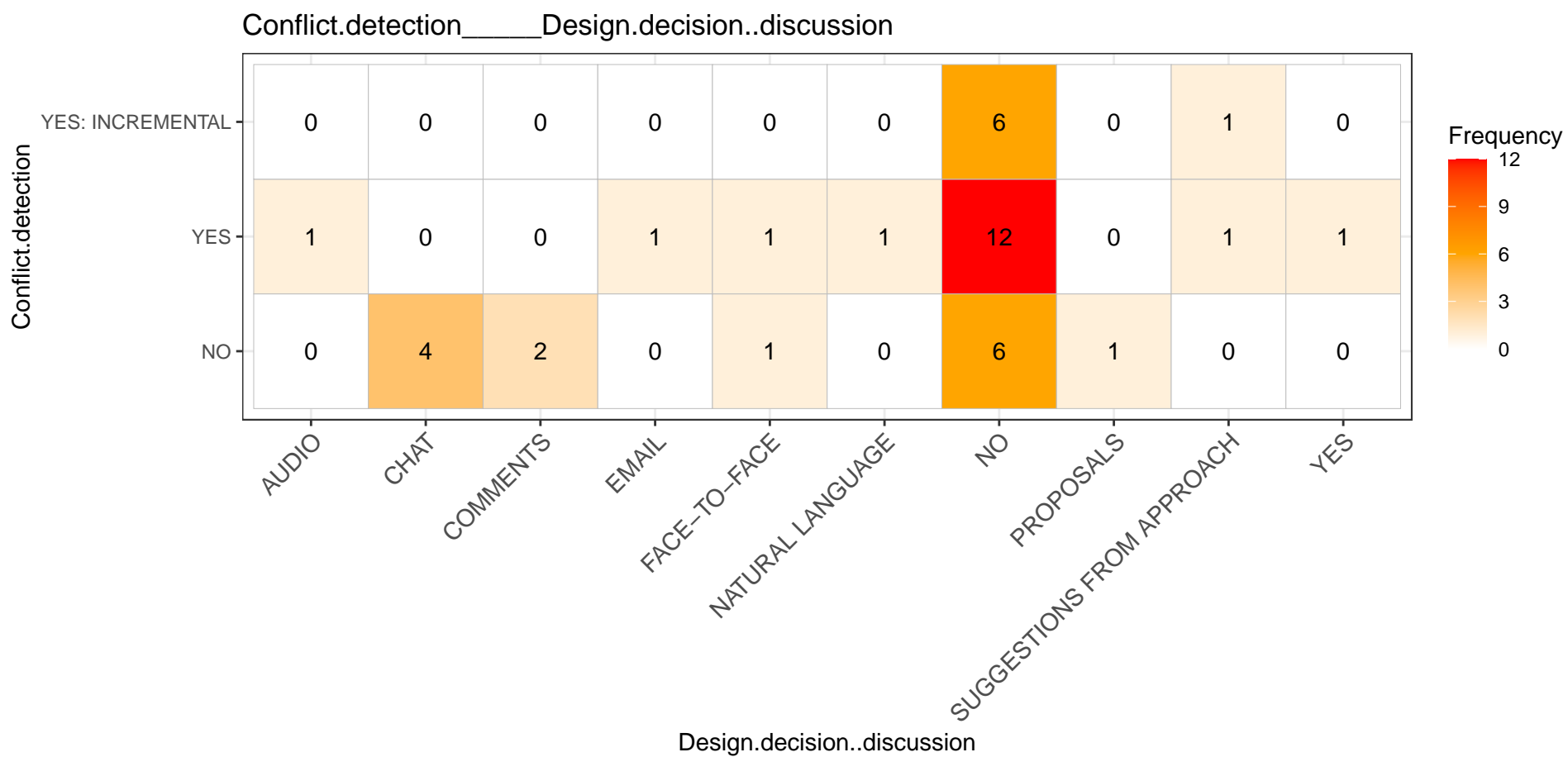
13





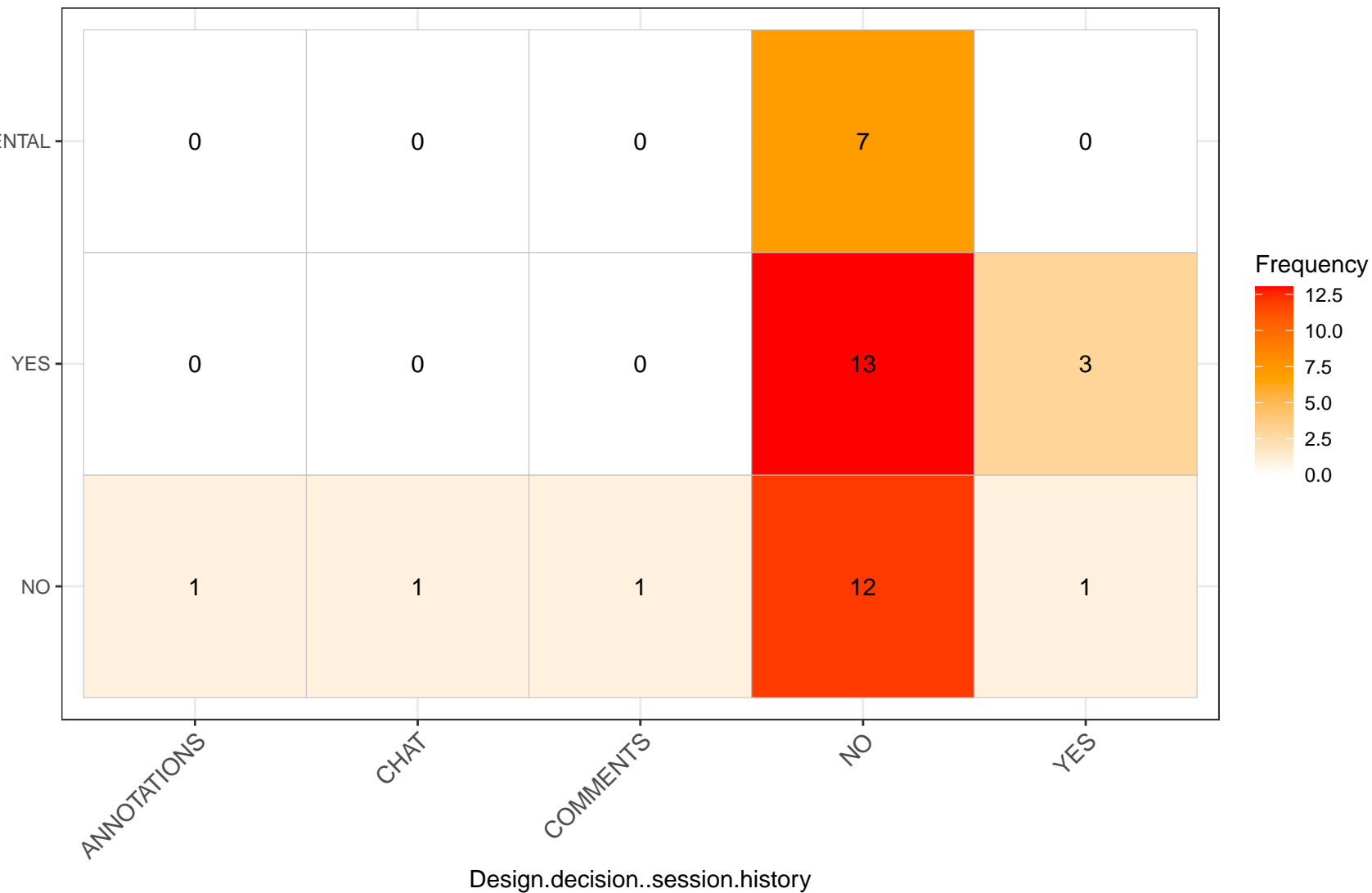




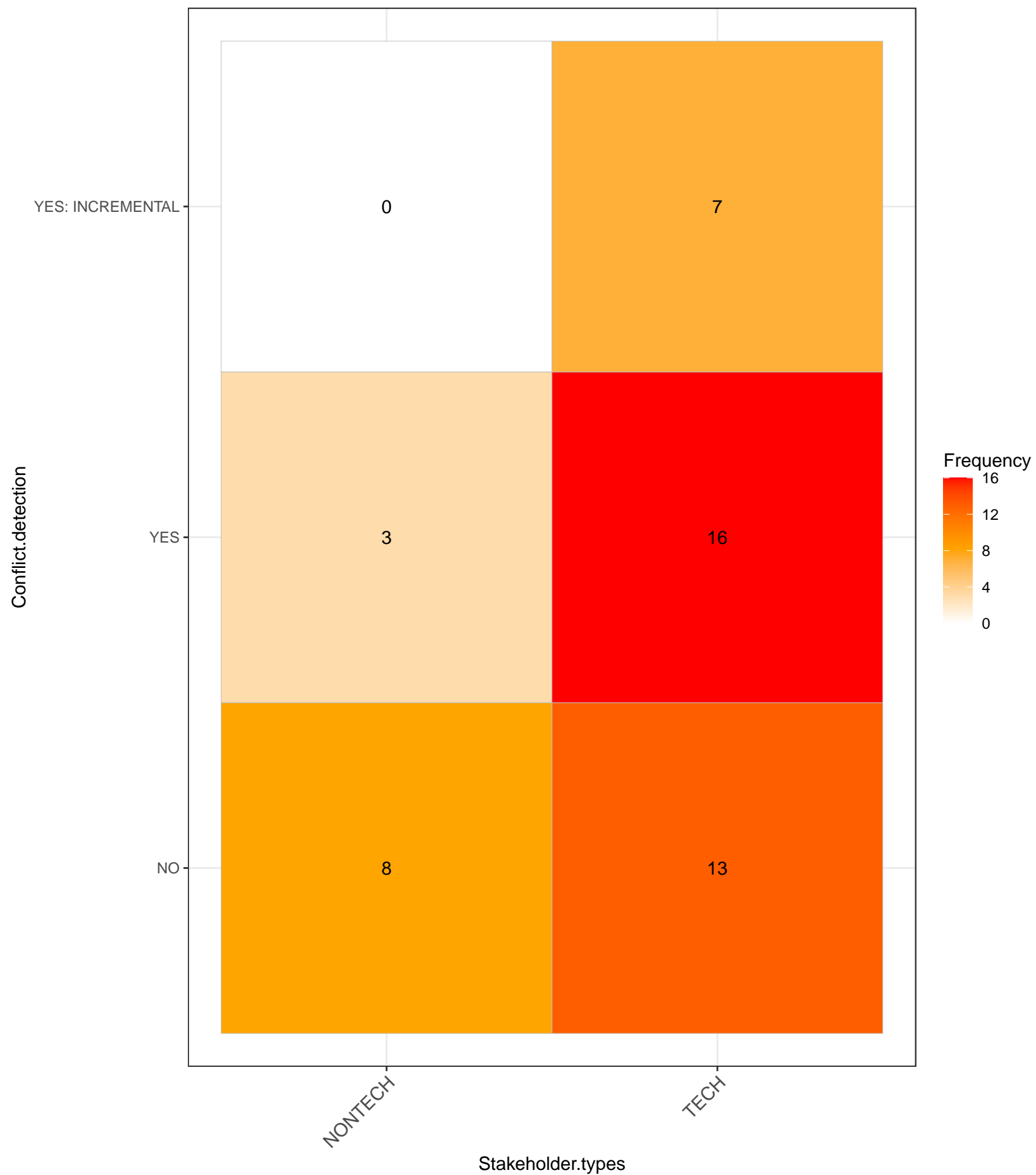


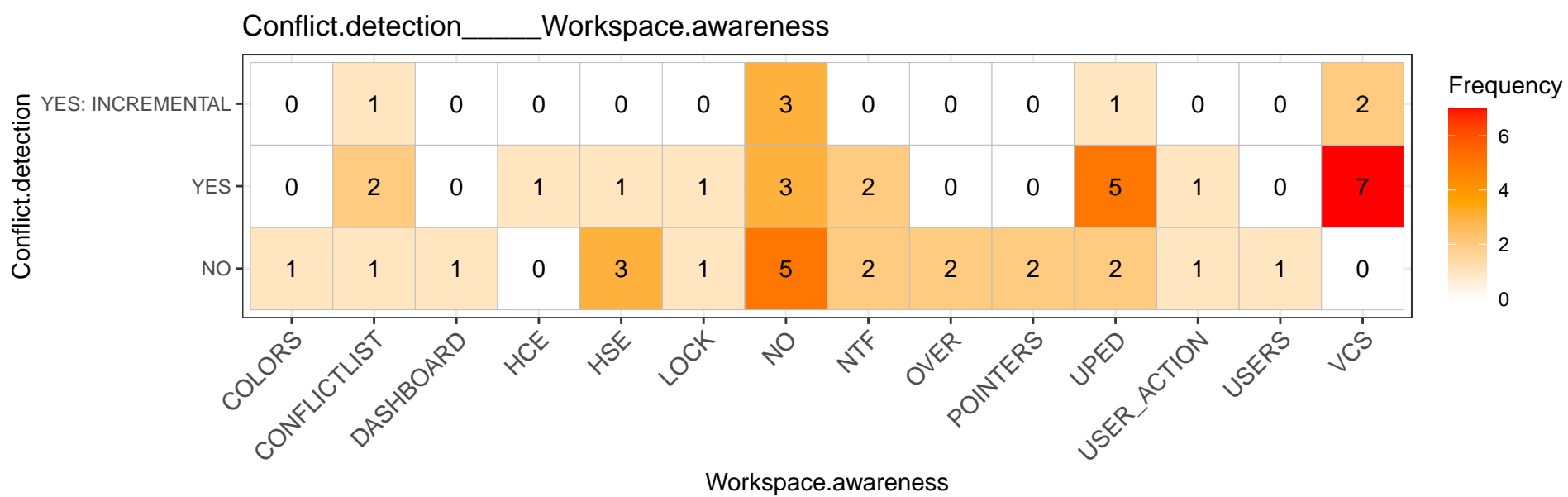
Conflict.detection

Conflict.detection_____Design.decision..session.history

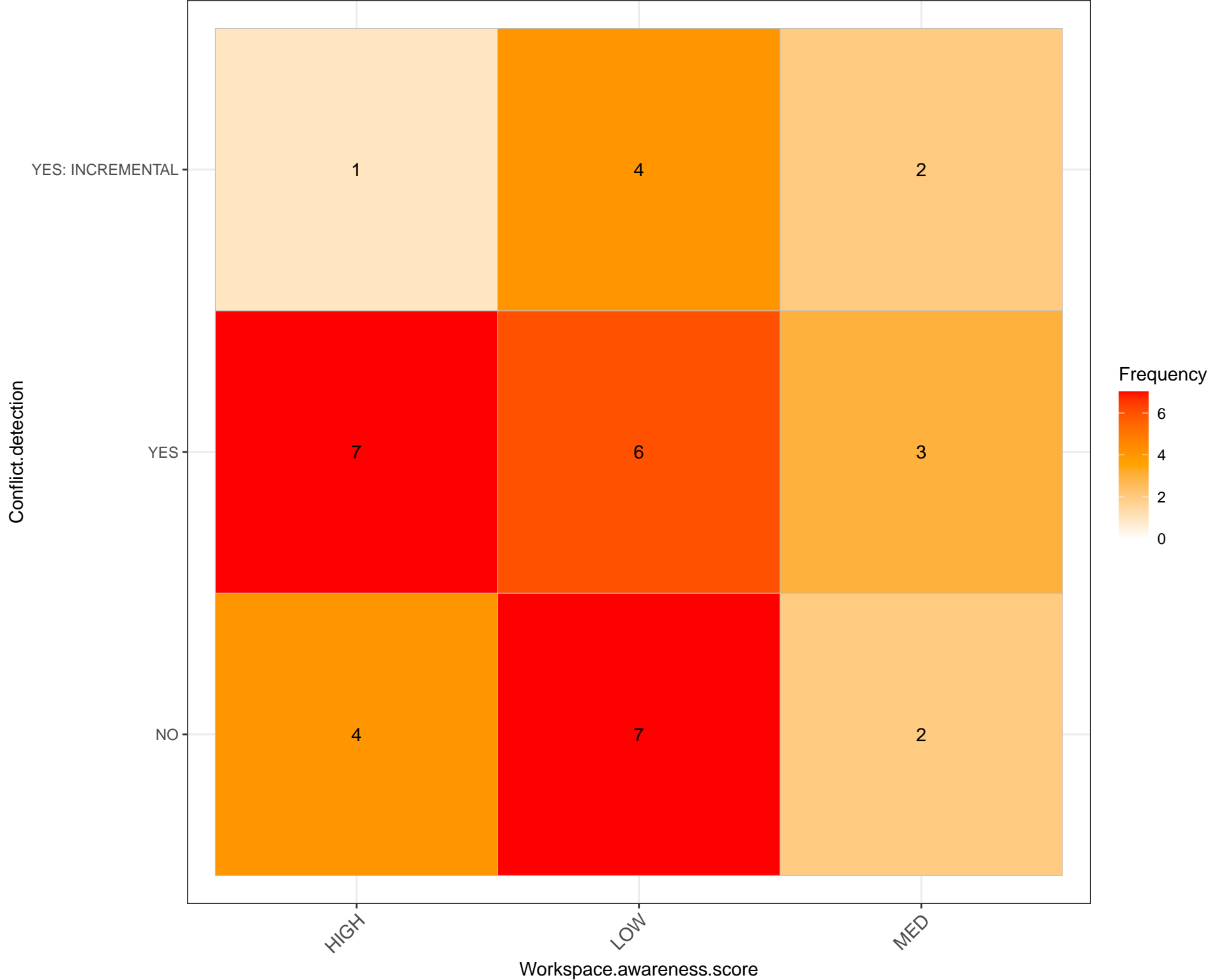


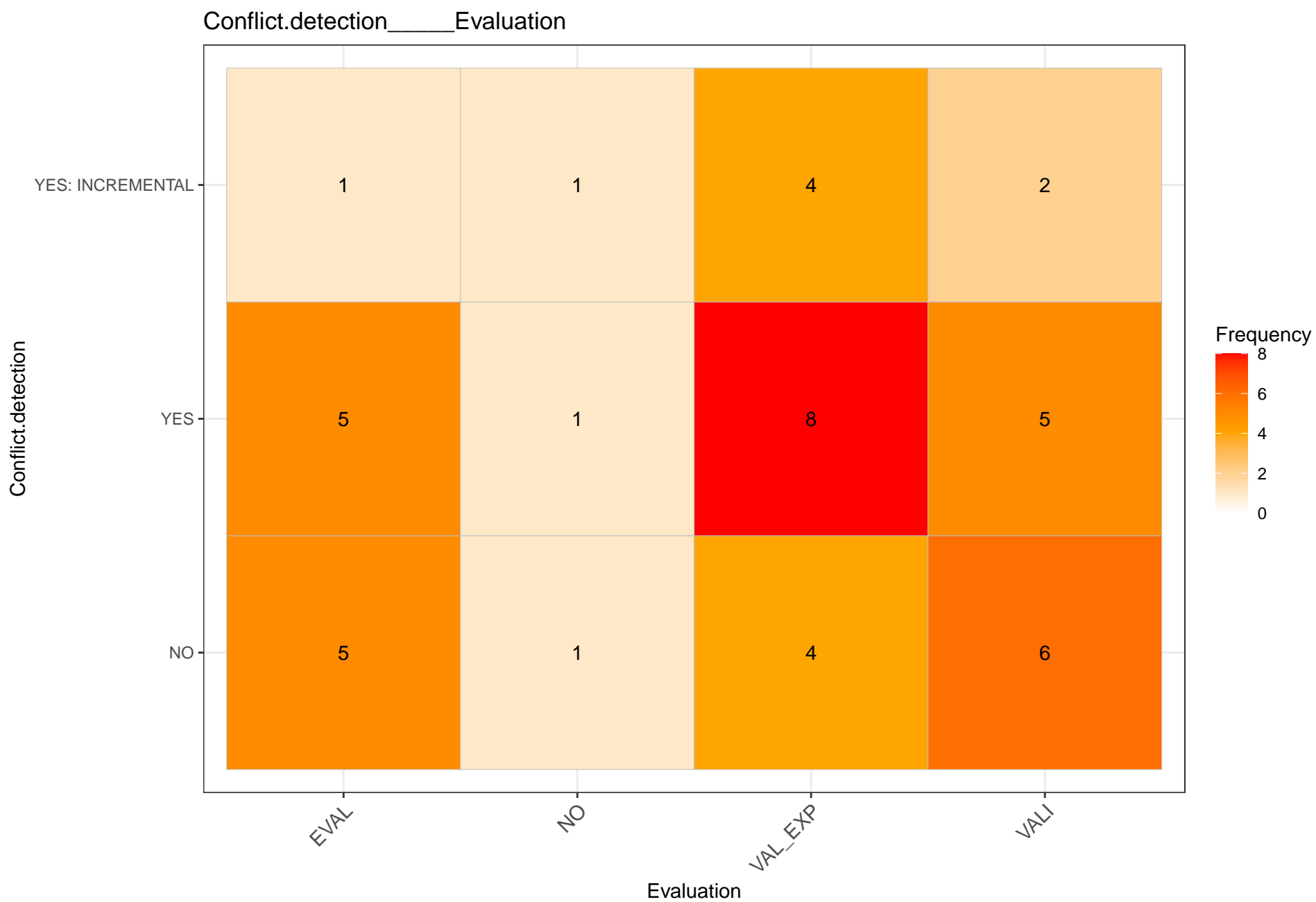
Conflict.detection_____Stakeholder.types



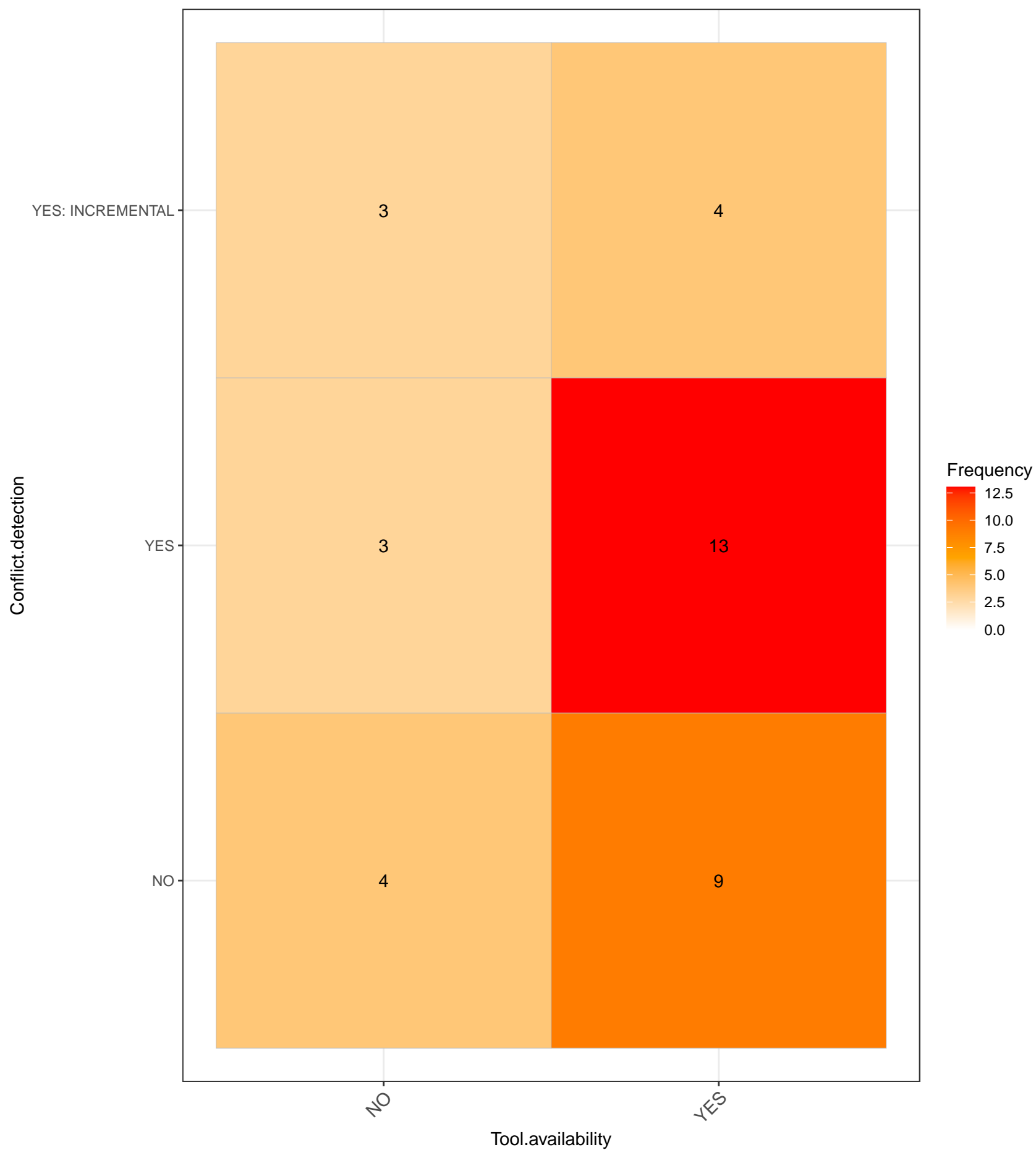


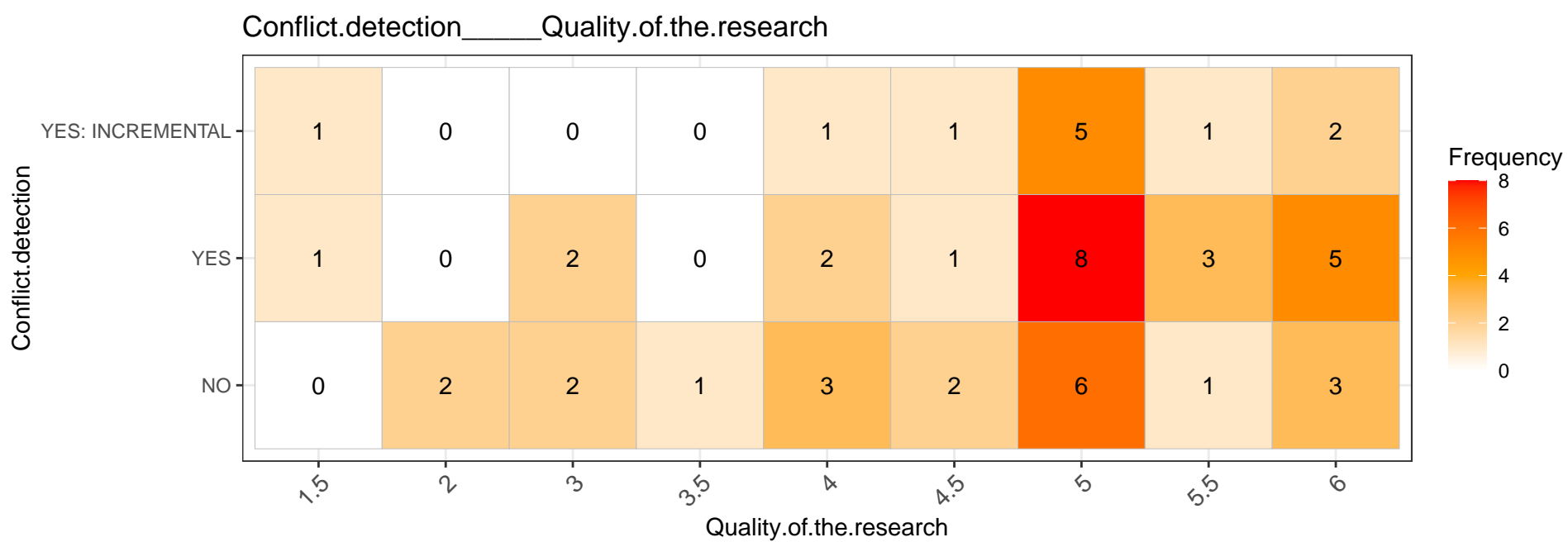
Conflict.detection_____Workspace.awareness.score





Conflict.detection_____Tool.availability





Conflict.awareness..User.____Conflict.resolution.support

Conflict.awareness..User.

WARNING

4

0

5

PROMPT ACTION

1

0

1

NO

3

9

7

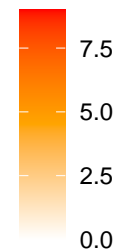
MANUAL

NO

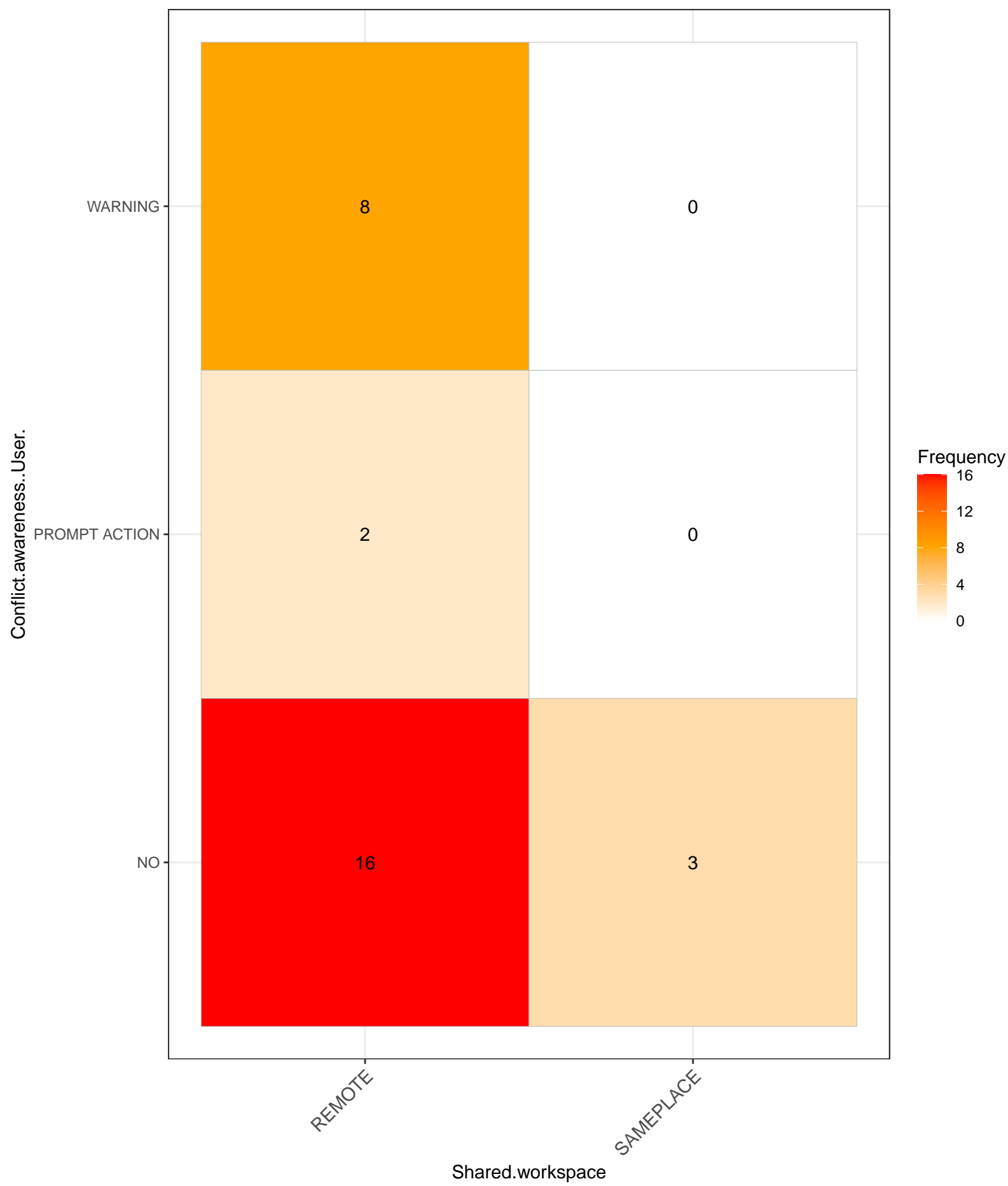
SEMI-AUTOMATED

Conflict.resolution.support

Frequency



Conflict.awareness..User.____Shared.workspace



Conflict.awareness..User.____Network.architecture

Conflict.awareness..User.

WARNING

2

6

0

1

PROMPT ACTION

0

2

0

0

NO

4

11

3

2

CENTRALIZED: MULTIPLE SERVERS

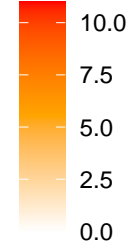
CENTRALIZED: SINGLE SERVER

MIXED

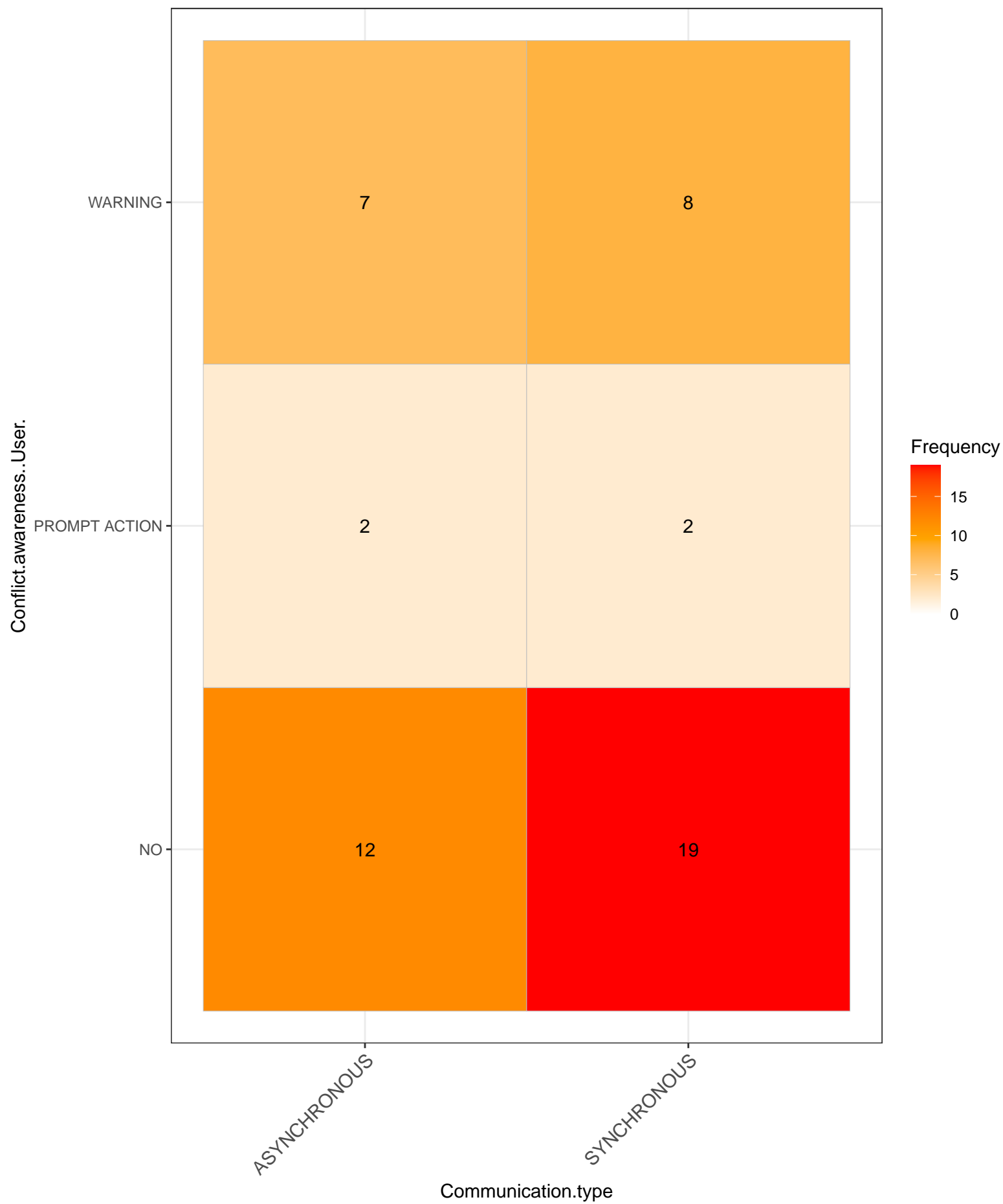
P2P

Network.architecture

Frequency

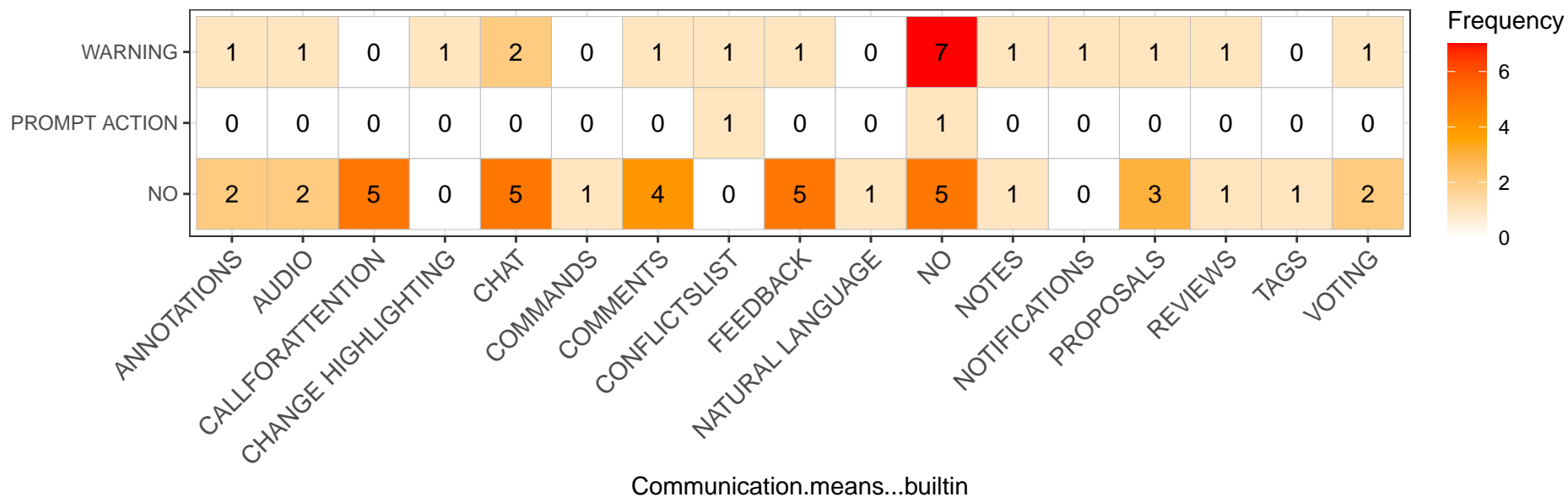


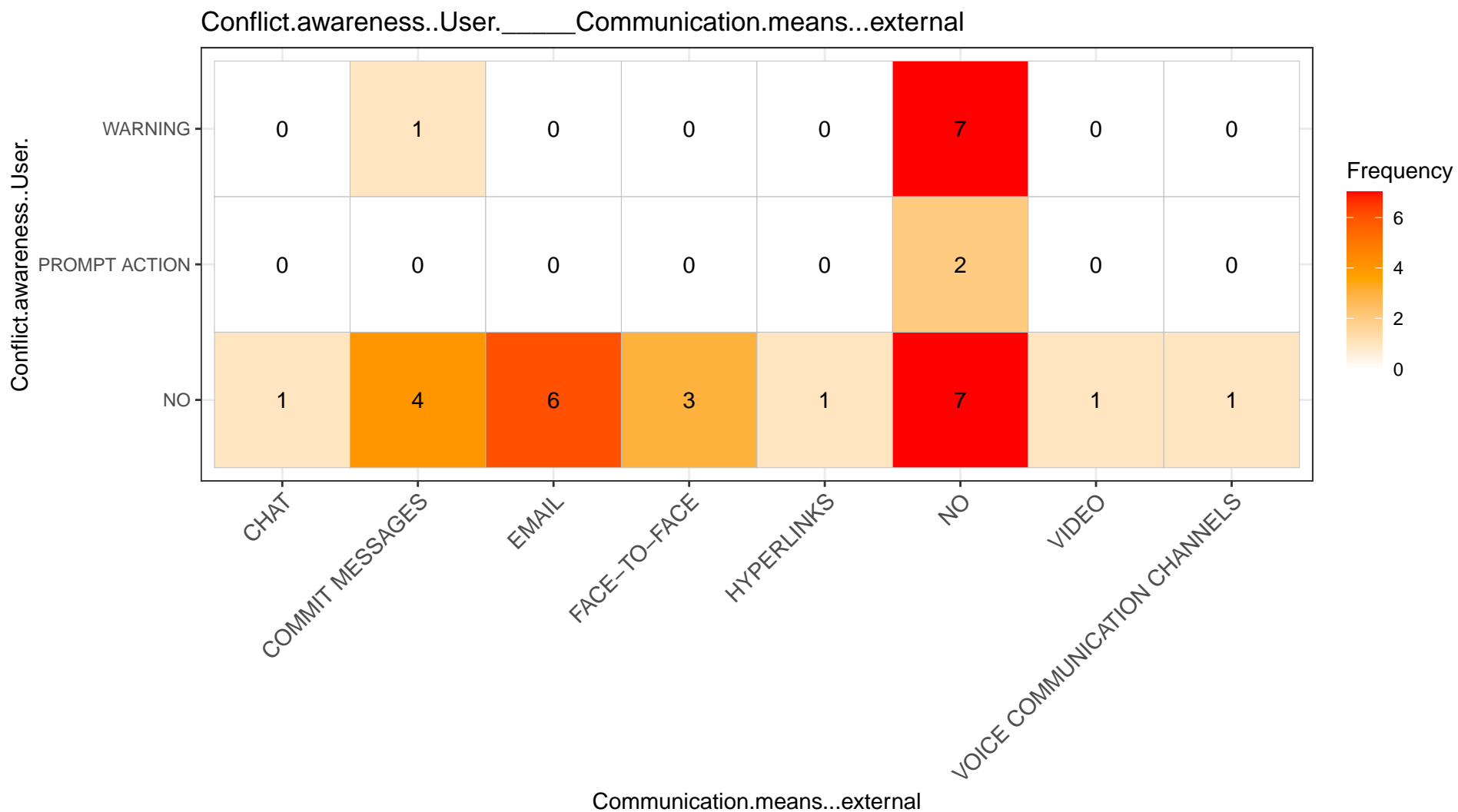
Conflict.awareness..User.____Communication.type



Conflict.awareness..User.

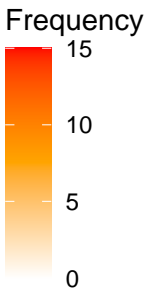
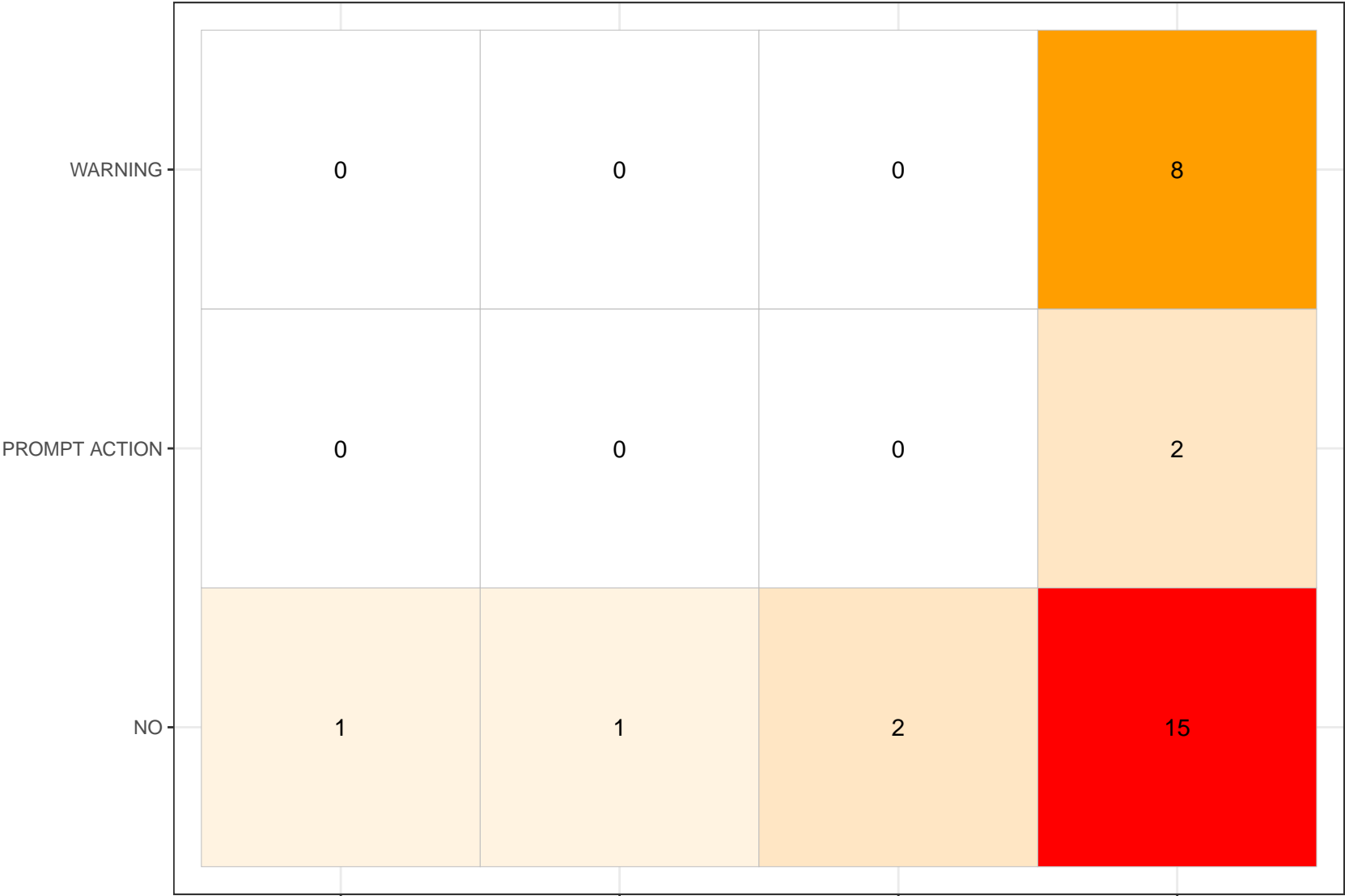
Conflict.awareness..User.____Communication.means...builtin





Conflict.awareness..User.____Communication.means...mixed

Conflict.awareness..User.



COMMIT MESSAGES

EMAIL

HYPERLINKS

NO

Communication.means...mixed

Conflict.awareness..User.

Conflict.awareness..User._____Communication.means.links

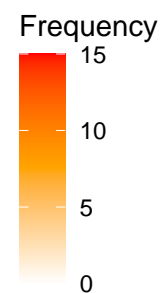
WARNING

PROMPT ACTION

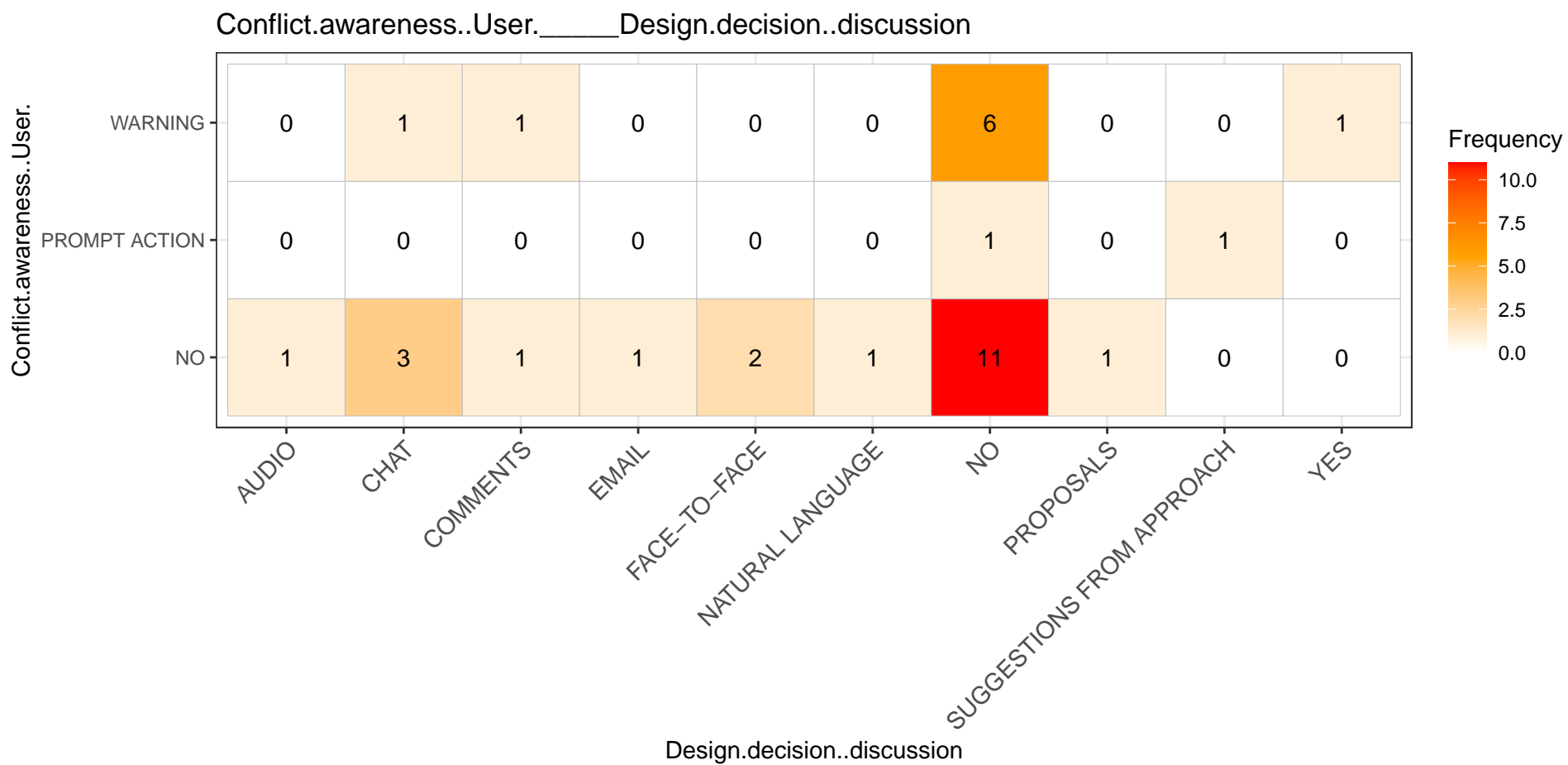
NO

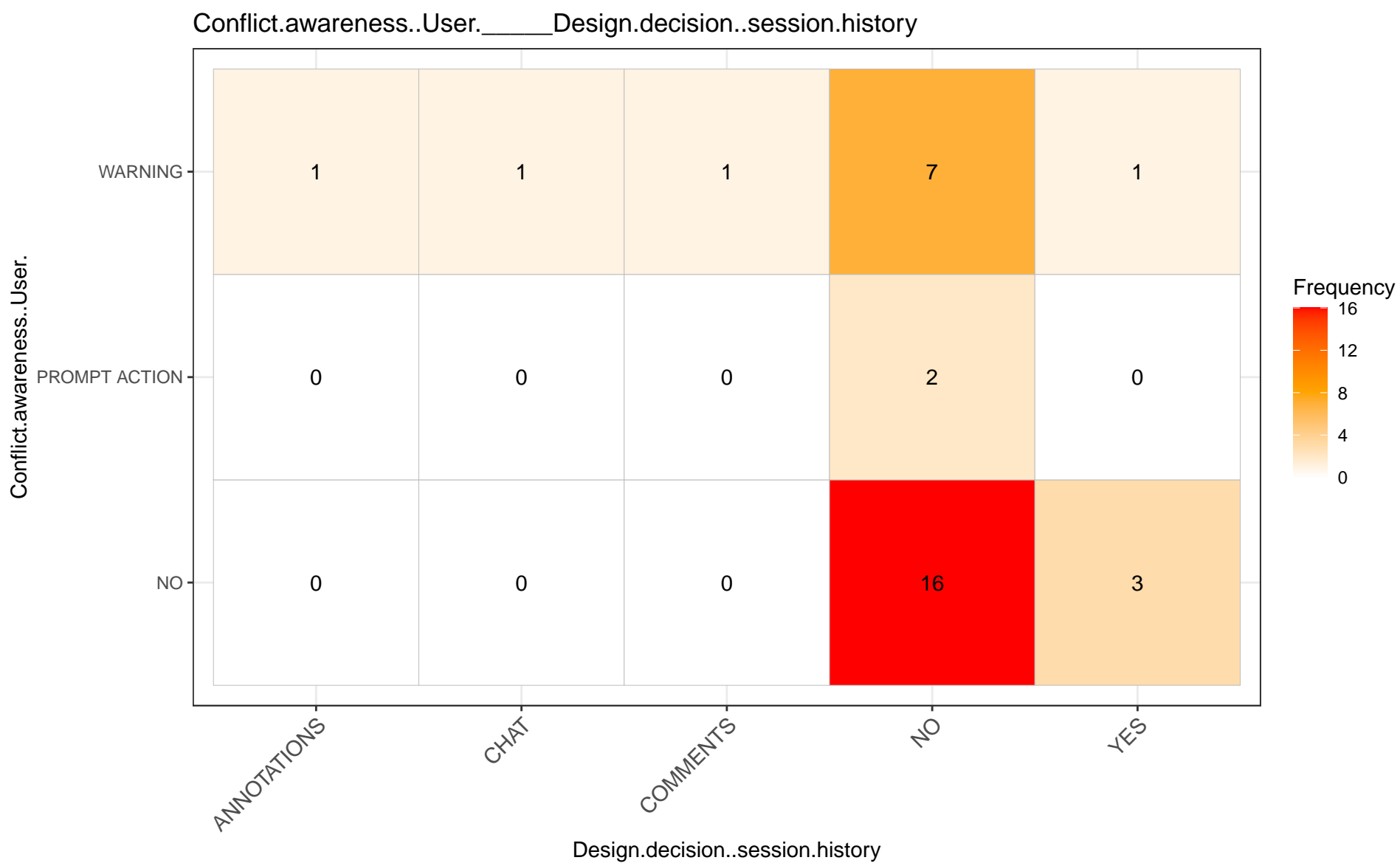
ANNOTATIONS
CALLFORATTENTION
CHANGE HIGHLIGHTING
CHAT
COMMANDS
COMMENTS
COMMIT MESSAGES
FACE-TO-FACE
NATURAL LANGUAGE
NO
NOTES
NOTIFICATIONS
PROPOSALS
VOTING

Communication.means.links

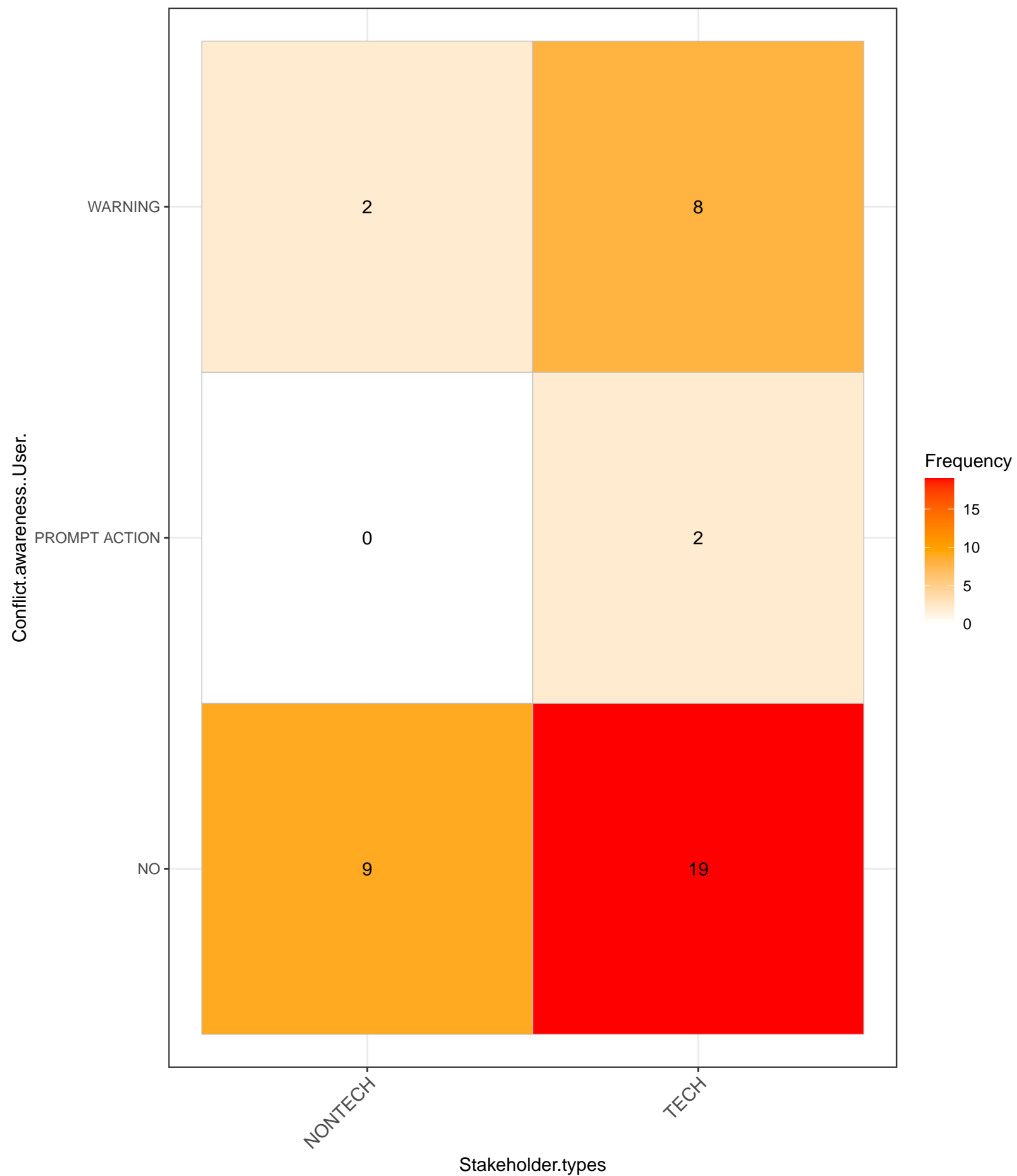


1	0	1	0	0	1	0	0	0	8	1	1	0	0
0	0	0	0	0	0	0	0	0	2	0	0	0	0
1	1	0	2	1	1	1	1	1	15	1	0	1	1





Conflict.awareness..User.____Stakeholder.types



Conflict.awareness..User.

Conflict.awareness..User._____Workspace.awareness



Conflict.awareness..User.____Workspace.awareness.score

Conflict.awareness..User.

WARNING

4

3

1

PROMPT ACTION

0

1

1

NO

7

9

3

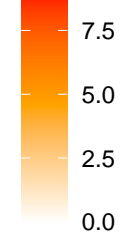
HIGH

LOW

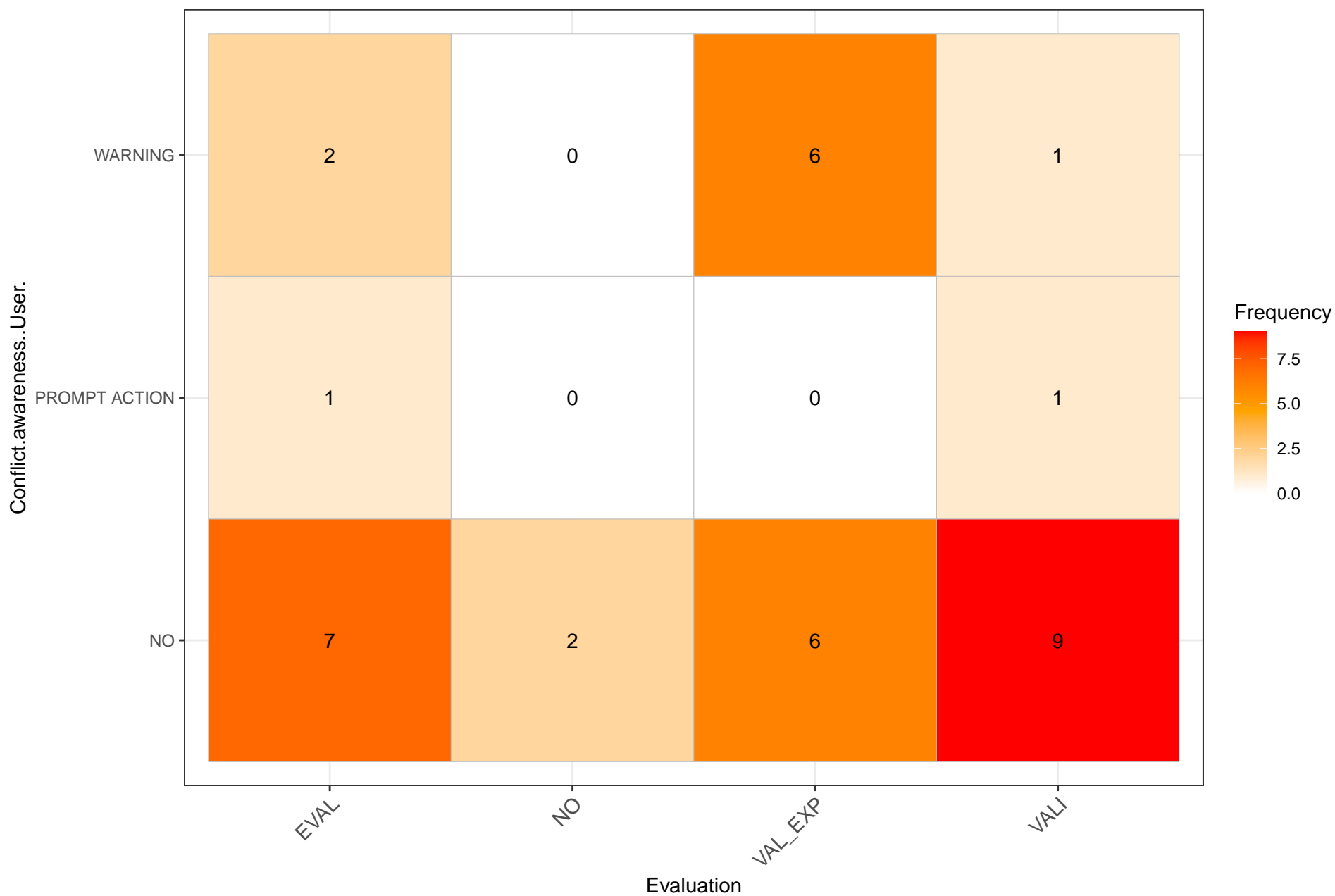
MED

Workspace.awareness.score

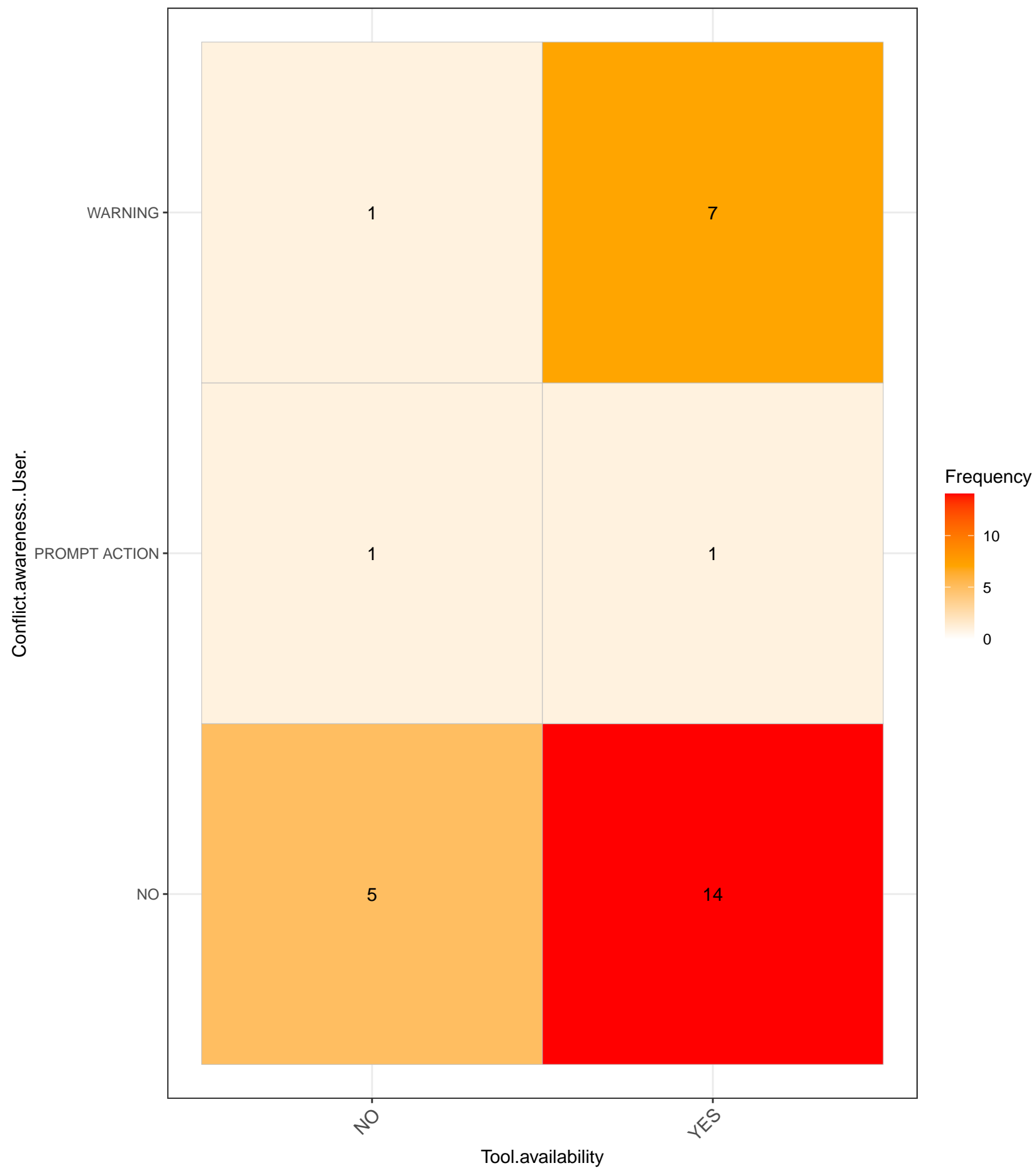
Frequency

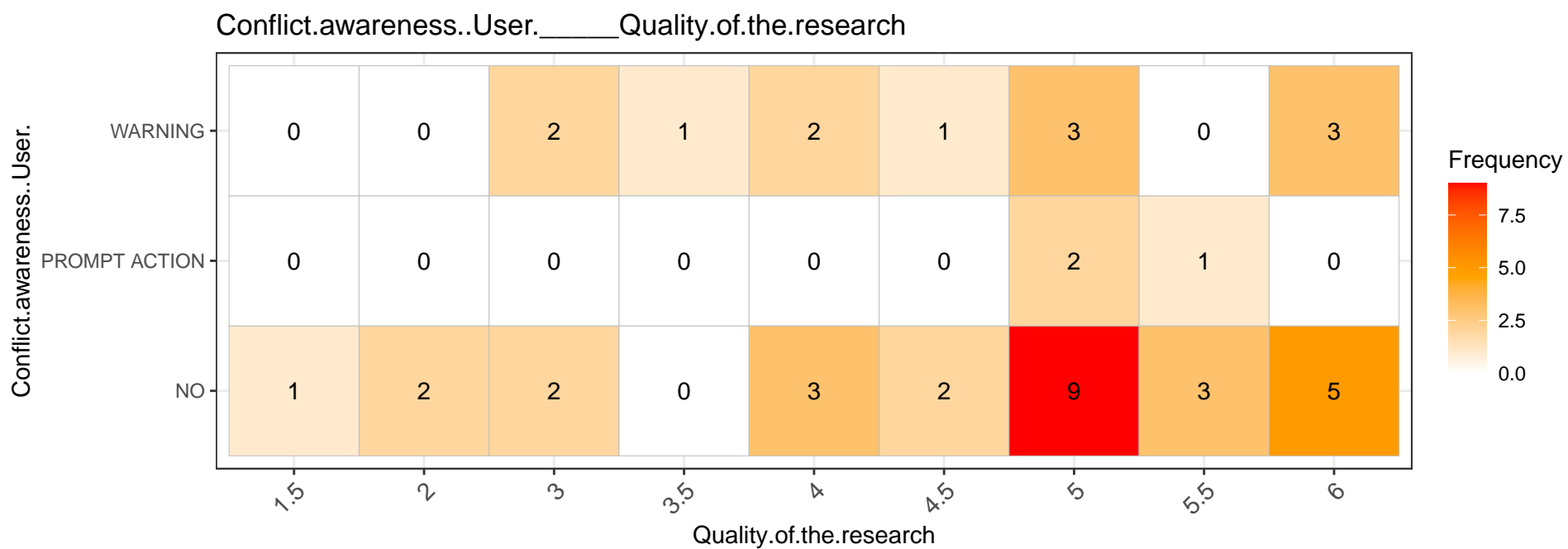


Conflict.awareness..User.____Evaluation

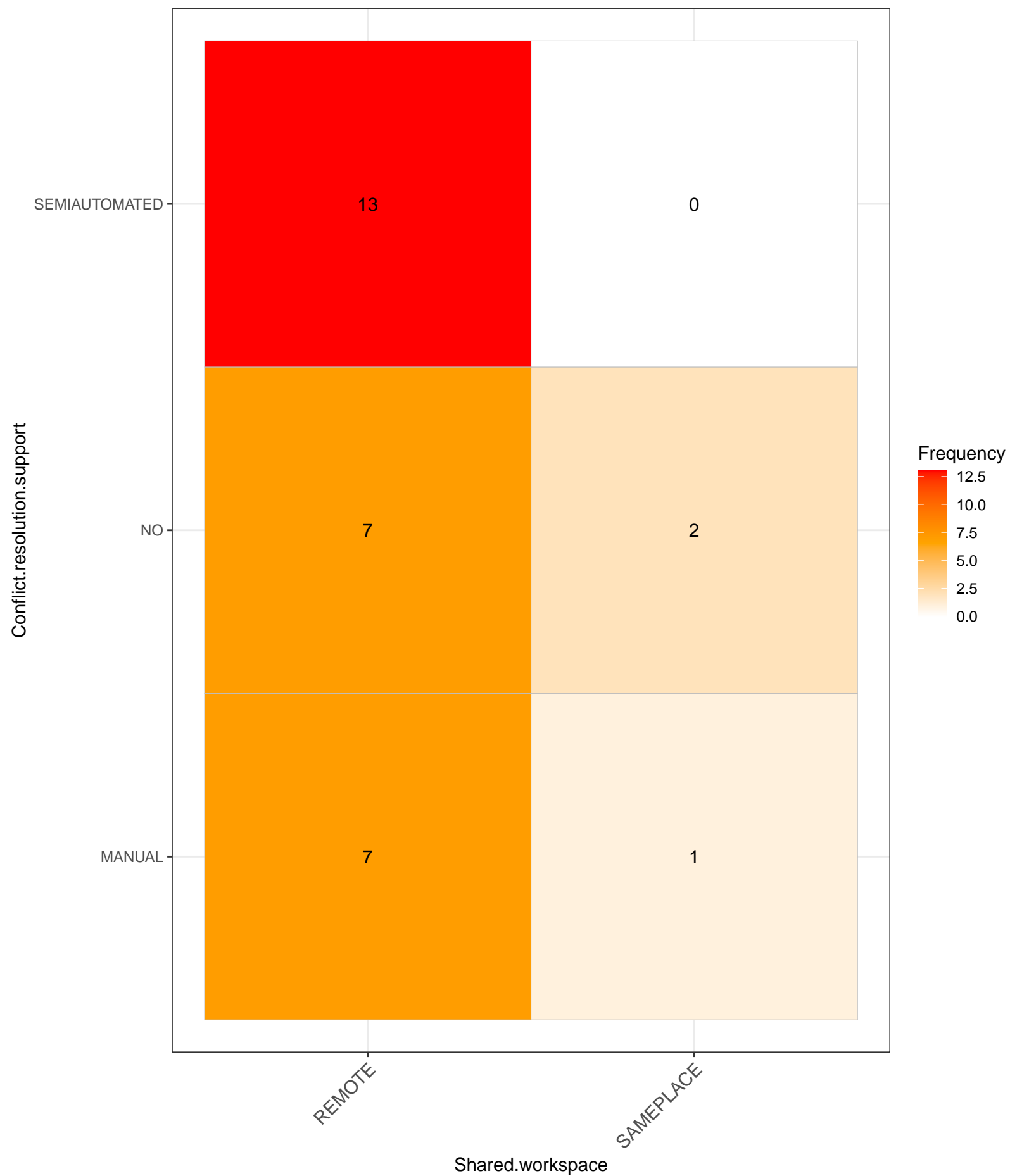


Conflict.awareness..User.____Tool.availability

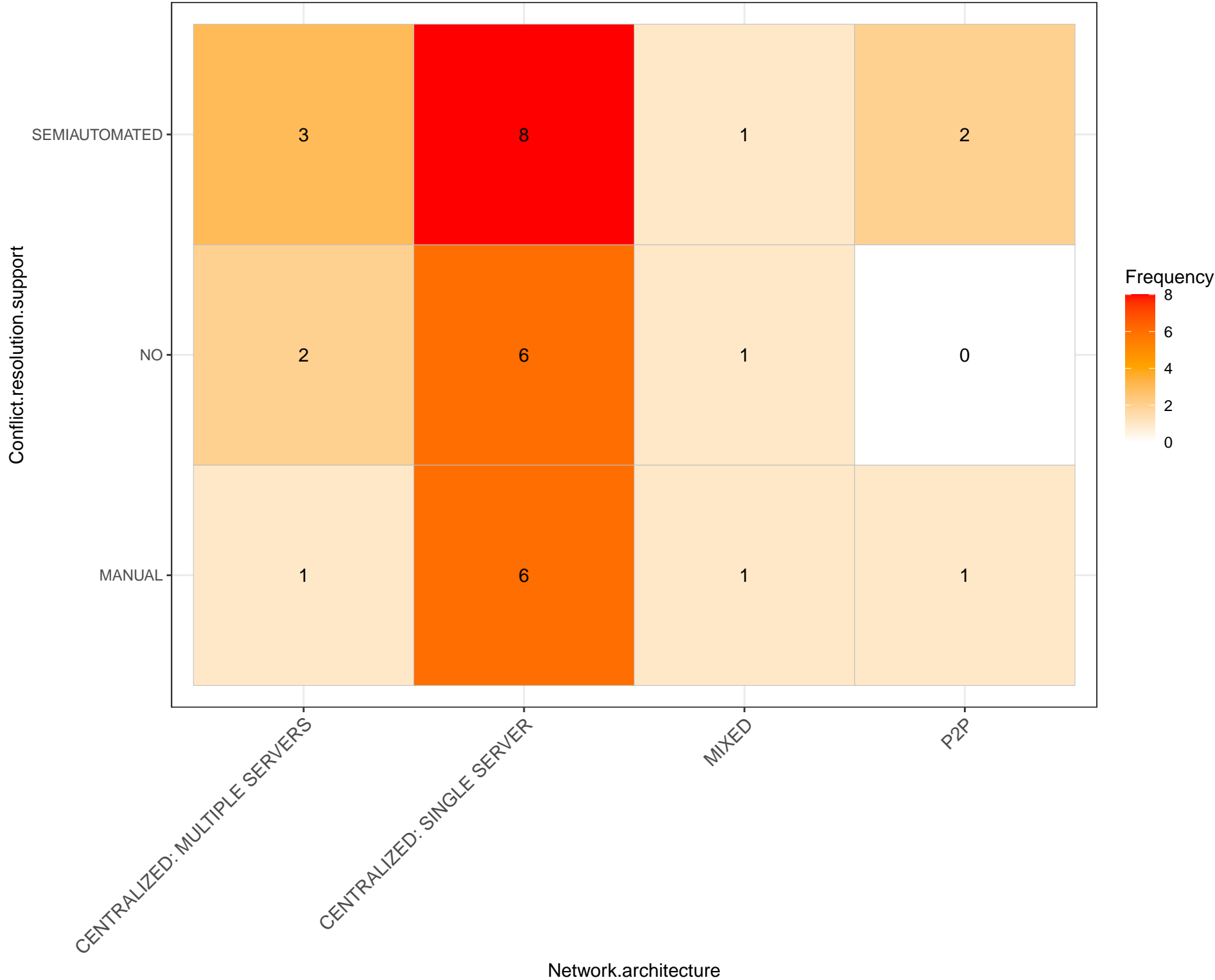




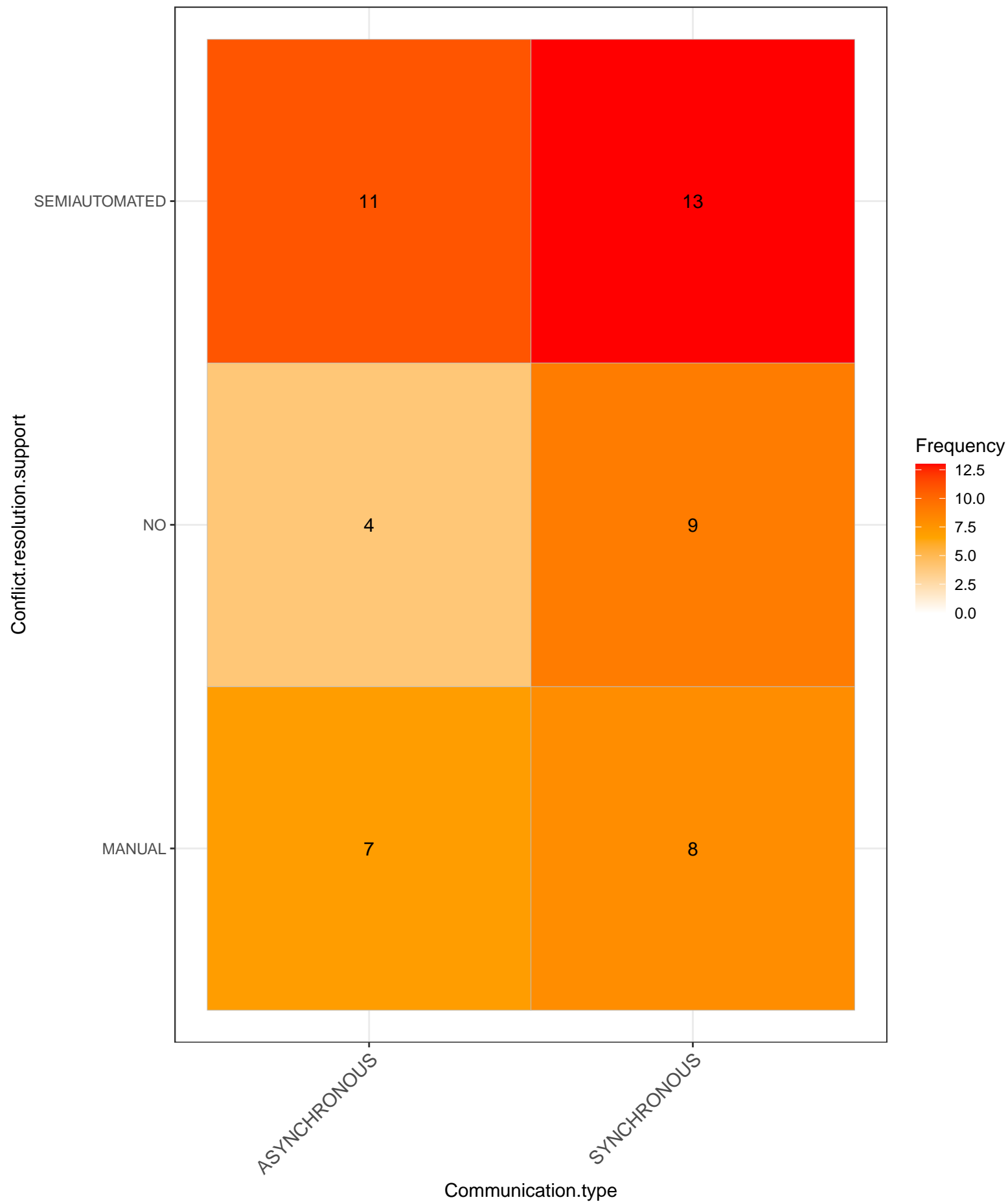
Conflict.resolution.support_____Shared.workspace



Conflict.resolution.support_____Network.architecture



Conflict.resolution.support_____Communication.type



Conflict.resolution.support

Conflict.resolution.support_____Communication.means...builtin

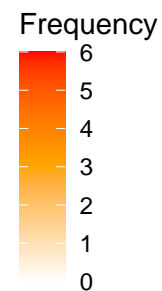
SEMIAUTOMATED

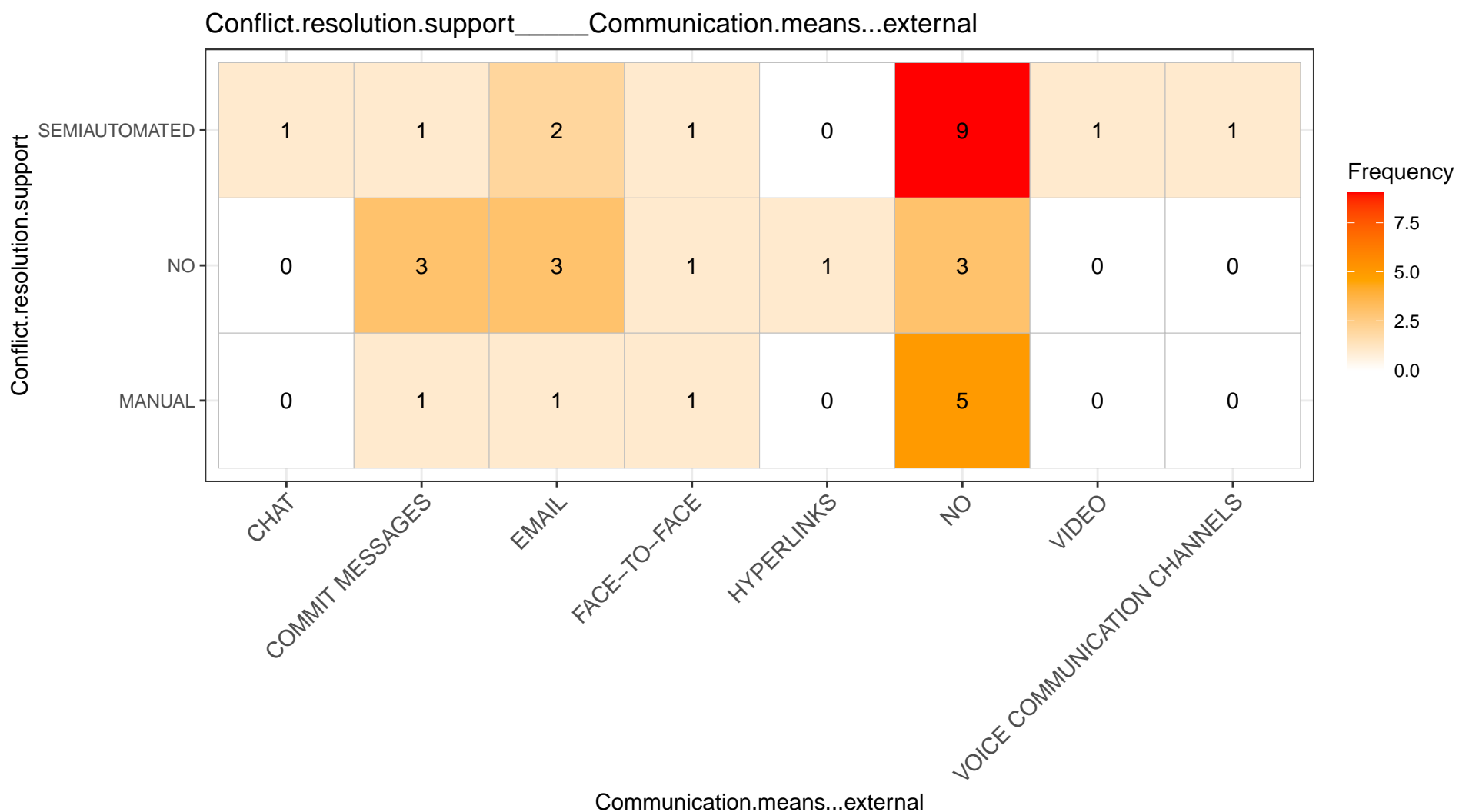
NO

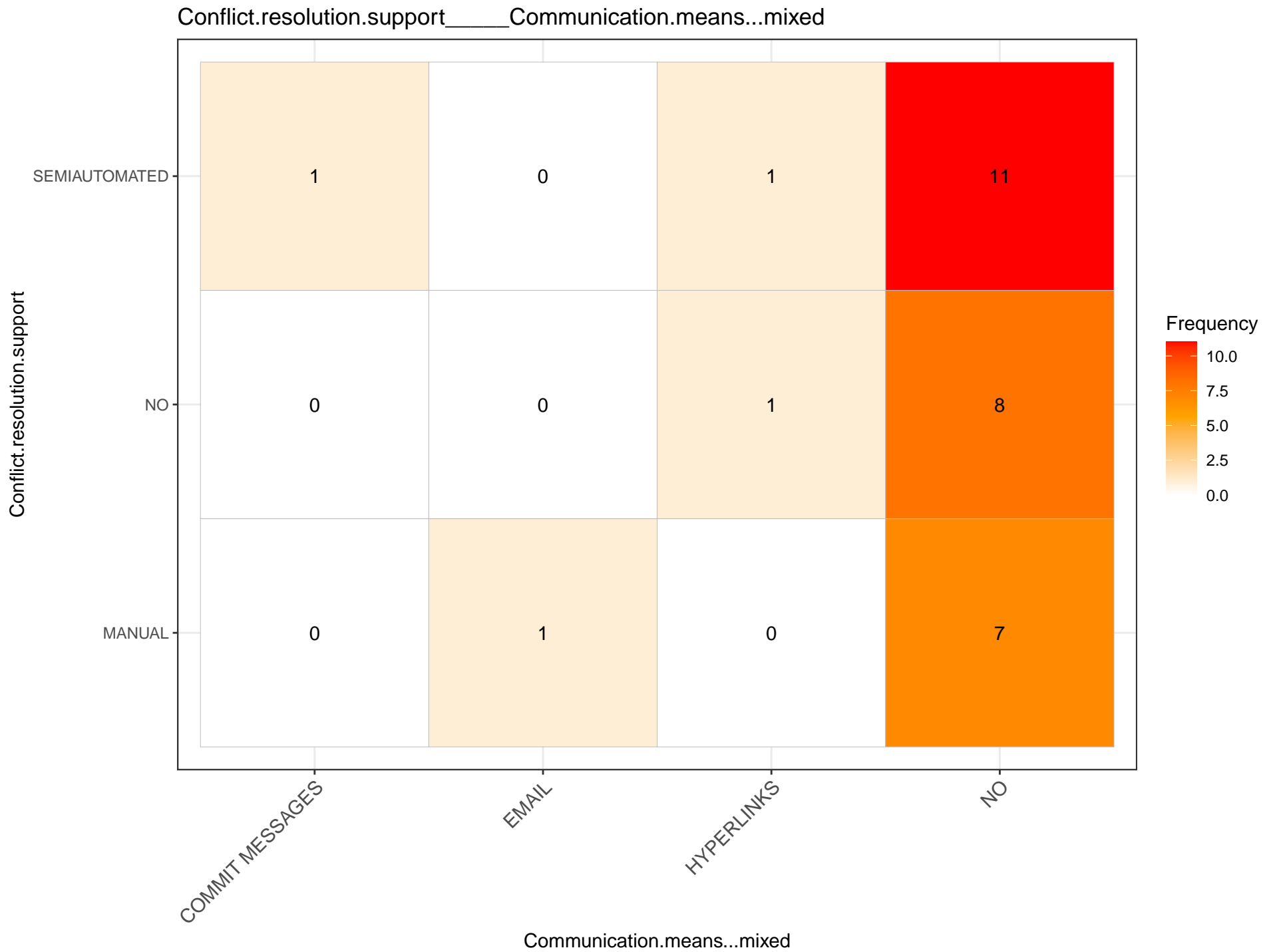
MANUAL

ANNOTATIONS	AUDIO	CALLFORATTENTION	CHANGE HIGHLIGHTING	CHAT	COMMANDS	COMMENTS	CONFLICTSLIST	FEEDBACK	NATURAL LANGUAGE	NO	NOTES	NOTIFICATIONS	PROPOSALS	REVIEWS	TAGS	VOTING
2	1	2	1	1	0	2	2	4	0	6	0	1	1	2	1	2
0	2	2	0	4	1	1	0	1	1	3	1	0	2	0	0	1
1	0	1	0	2	0	2	0	1	0	5	1	0	1	0	0	0

Communication.means...builtin







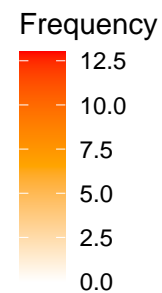
Conflict.resolution.support

Conflict.resolution.support_____Communication.means.links

SEMIAUTOMATED

NO

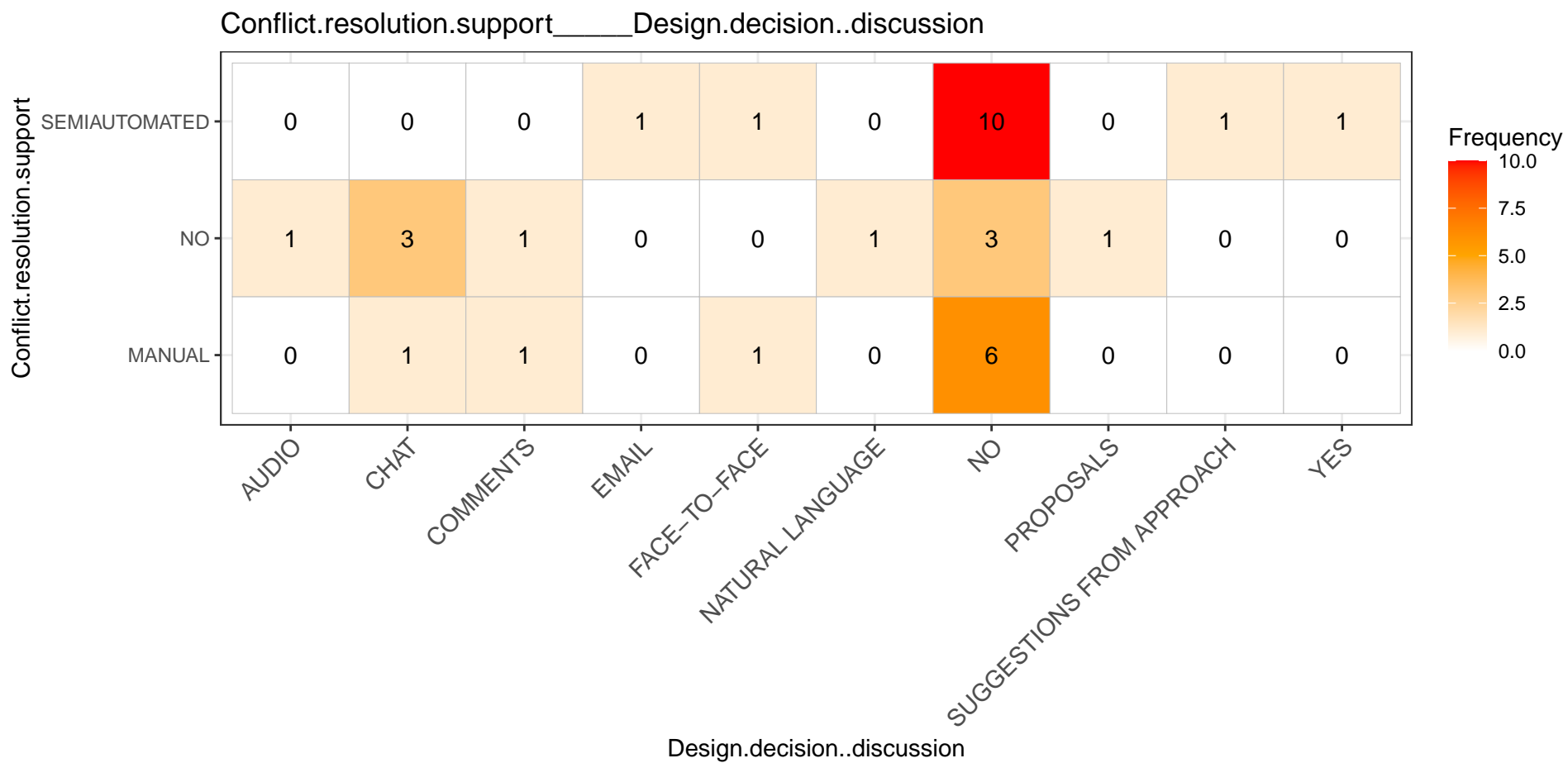
MANUAL

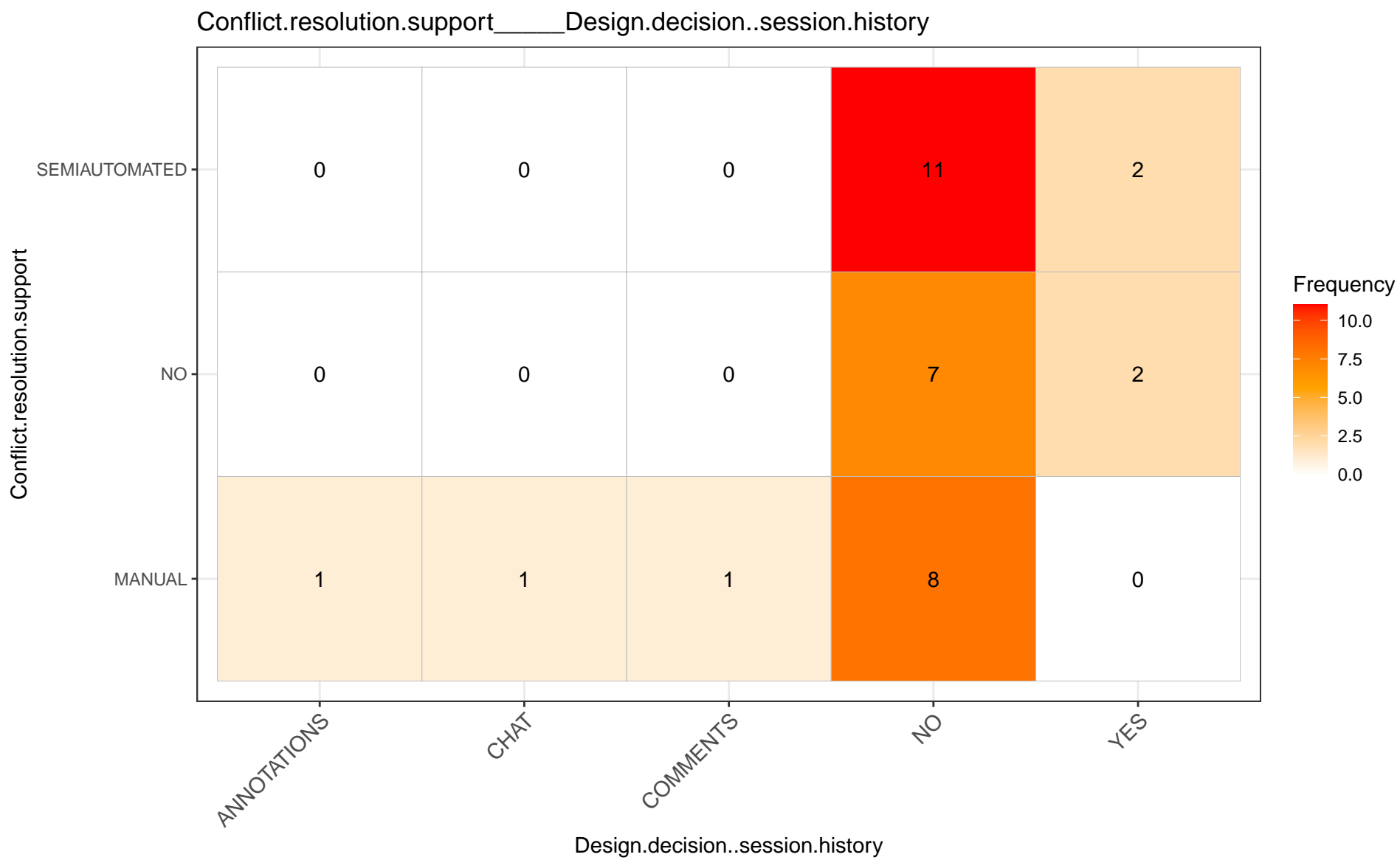


ANNOTATIONS
CALLFORATTENTION
CHANGE HIGHLIGHTING
CHAT
COMMANDS
COMMENTS
COMMIT MESSAGES
FACE-TO-FACE
NATURAL LANGUAGE
NO
NOTES
NOTIFICATIONS
PROPOSALS
VOTING

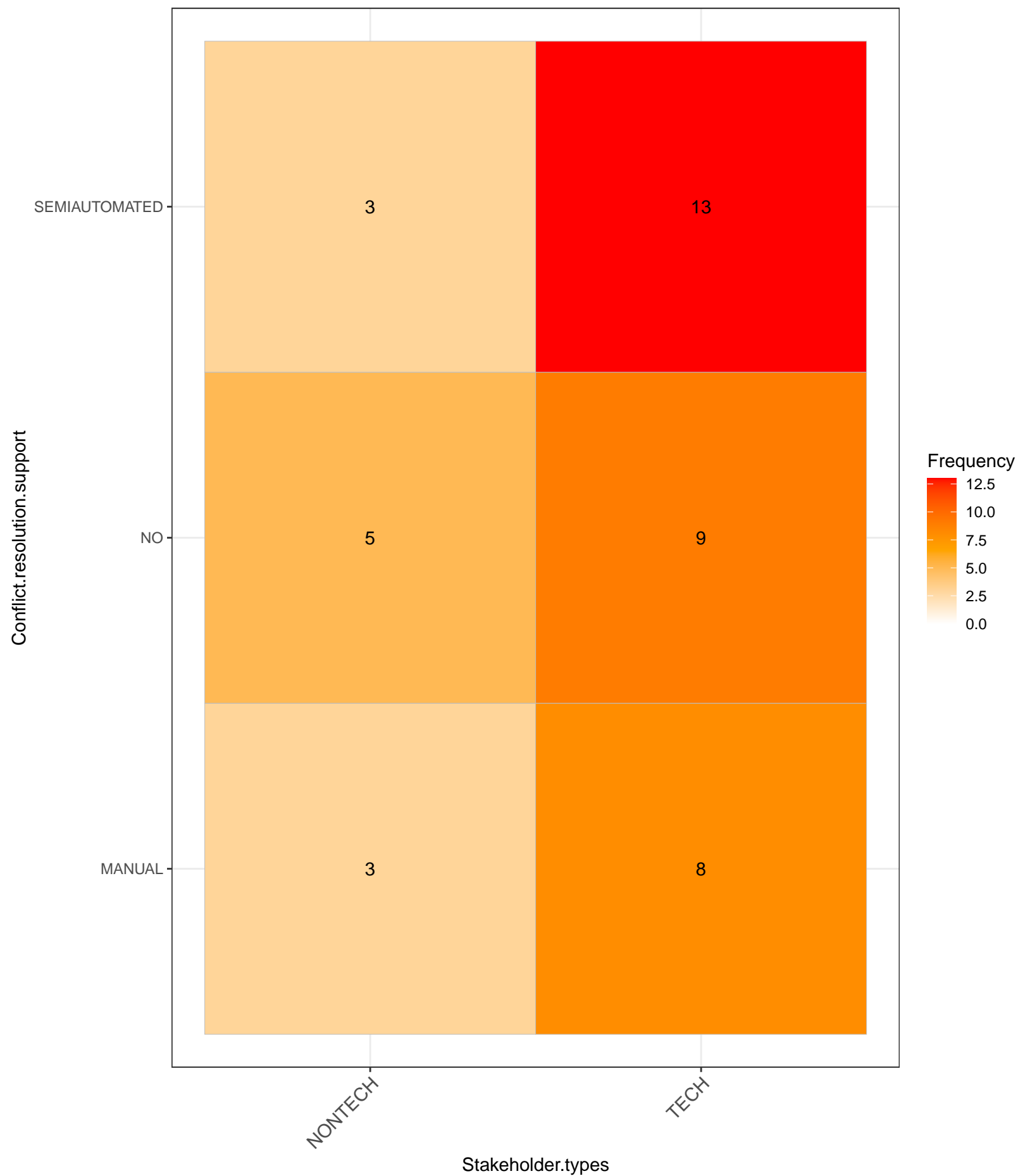
Communication.means.links

1	0	1	0	0	1	1	0	0	13	0	1	0	0
0	1	0	2	1	0	0	0	1	6	1	0	1	1
1	0	0	0	0	1	0	1	0	7	1	0	0	0





Conflict.resolution.support_____Stakeholder.types



Conflict.resolution.support

Conflict.resolution.support_____Workspace.awareness

SEMIAUTOMATED

NO

MANUAL

COLORS

CONFLICTLIST

DASHBOARD

HCE

HSE

LOCK

NO

NTF

OVER

POINTERS

UPED

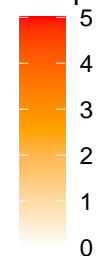
USER_ACTION

USERS

VCS

Workspace.awareness

Frequency



0	2	0	1	2	1	2	0	0	0	3	2	0	5
0	1	1	0	1	1	3	3	2	2	1	0	0	1
1	0	0	0	1	0	3	1	0	0	3	0	1	2
COLORS	CONFLICTLIST	DASHBOARD	HCE	HSE	LOCK	NO	NTF	OVER	POINTERS	UPED	USER_ACTION	USERS	VCS

Conflict.resolution.support_____Workspace.awareness.score

Conflict.resolution.support

SEMIAUTOMATED

NO

MANUAL

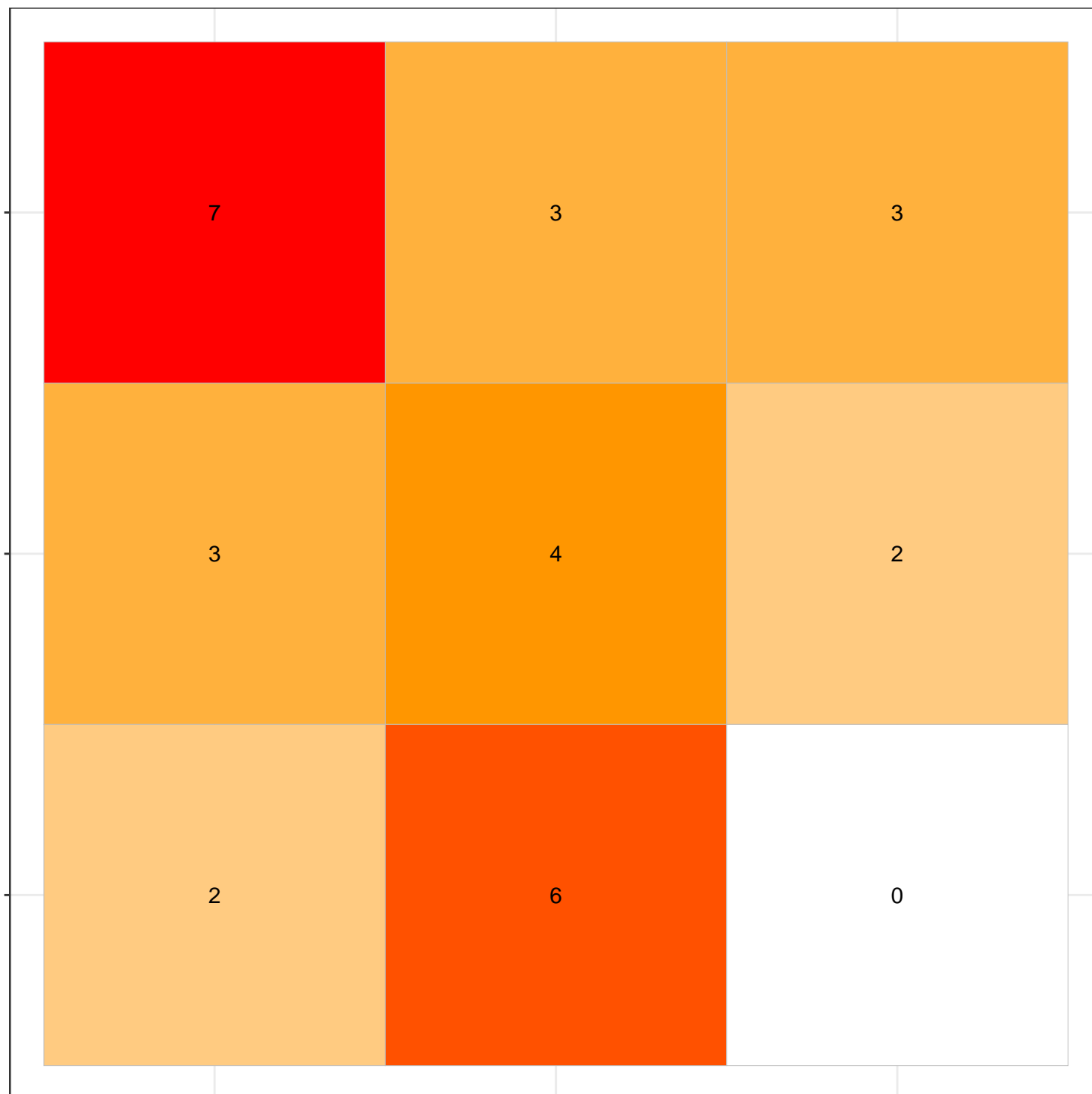
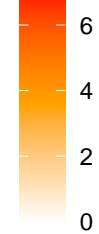
HIGH

LOW

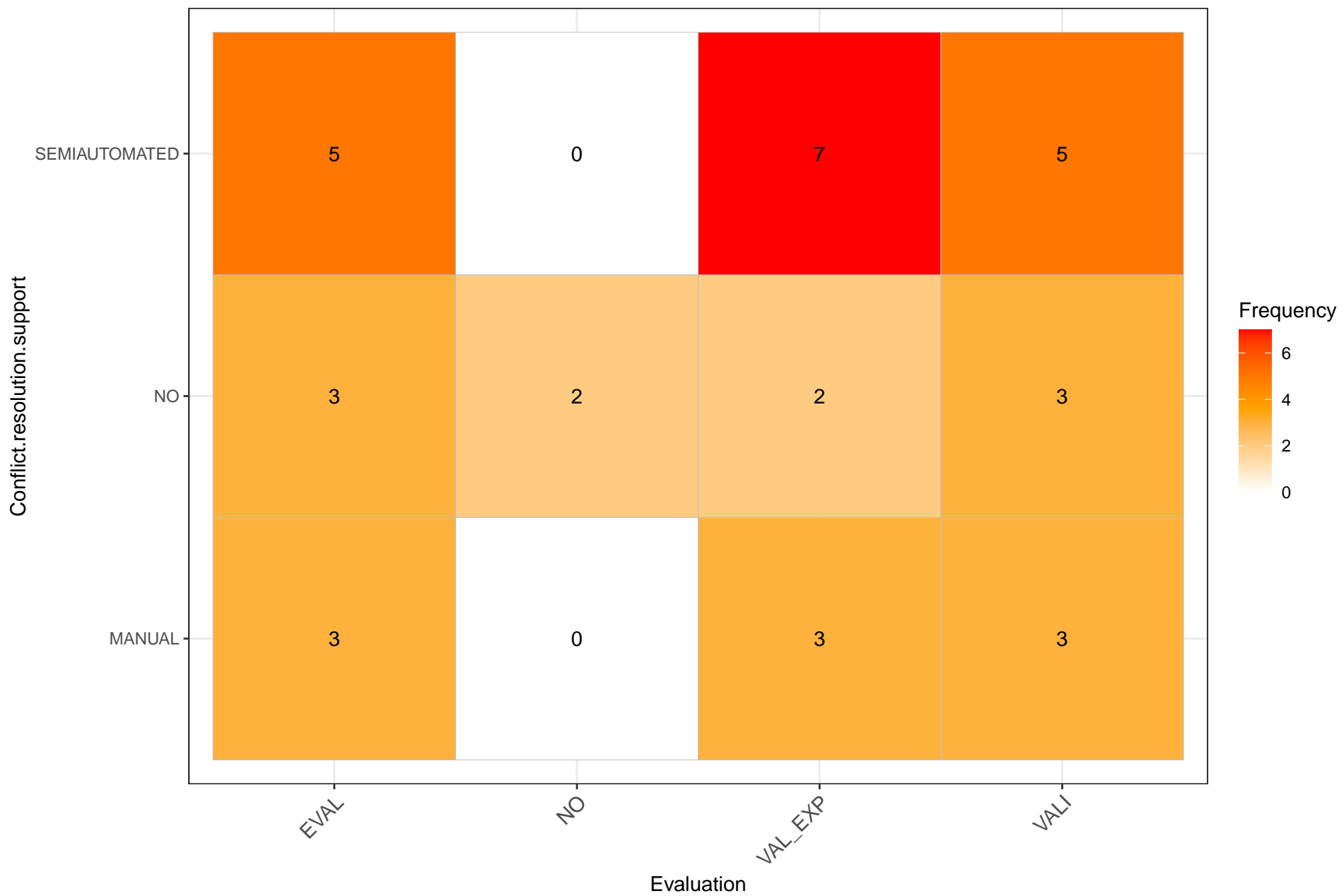
MED

Workspace.awareness.score

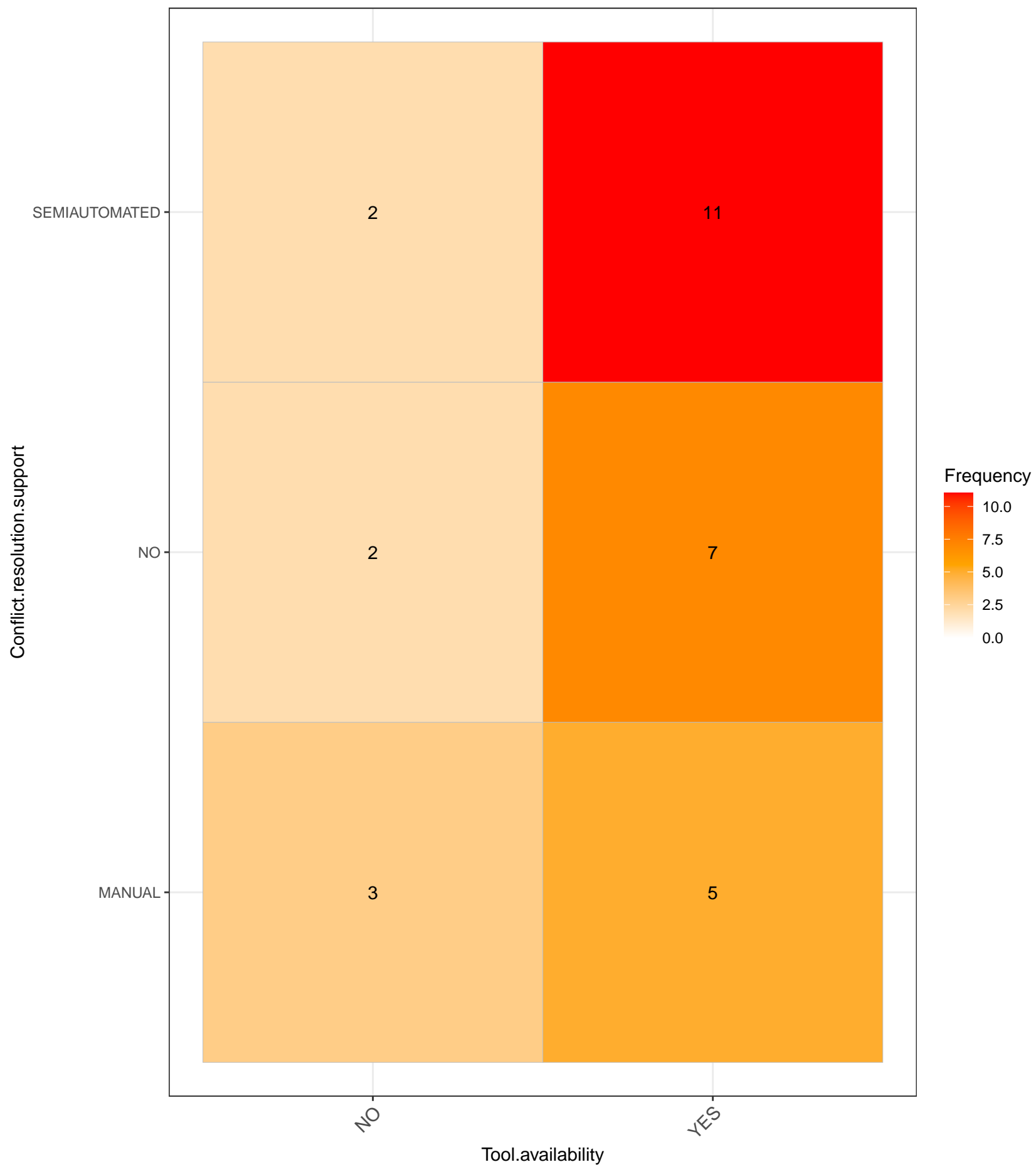
Frequency

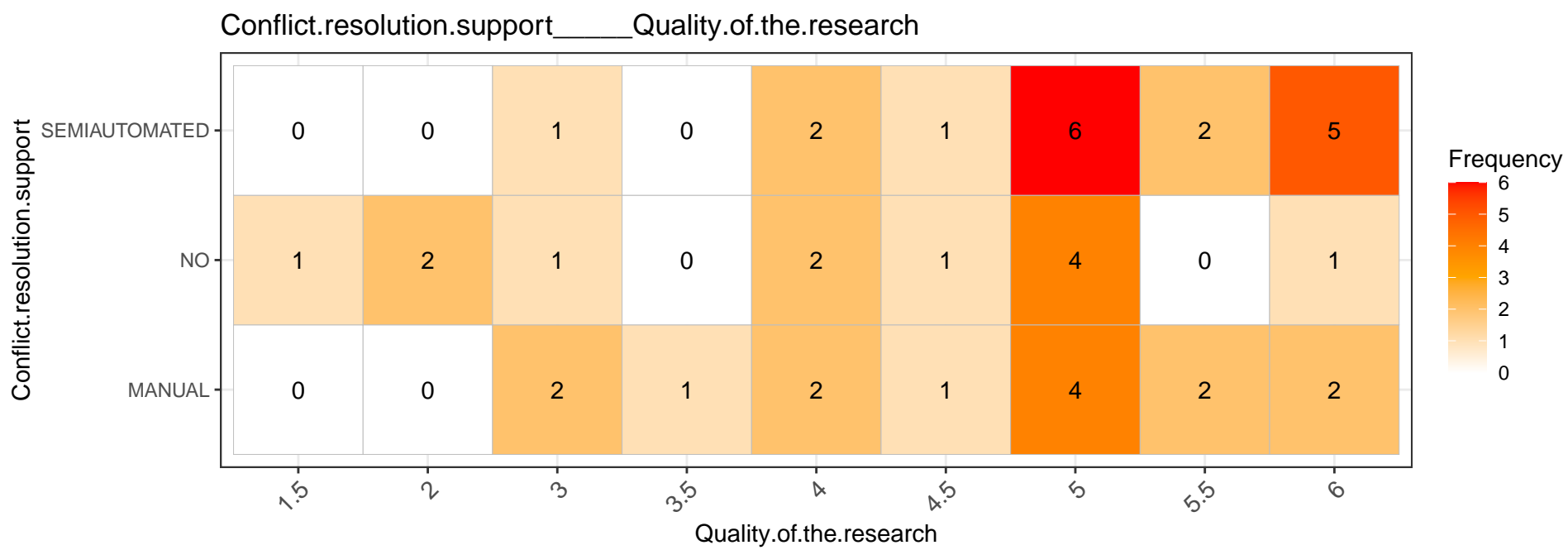


Conflict.resolution.support____Evaluation



Conflict.resolution.support_____Tool.availability





Shared.workspace_____Network.architecture

Shared.workspace

SAMEPLACE

REMOTE

CENTRALIZED: MULTIPLE SERVERS

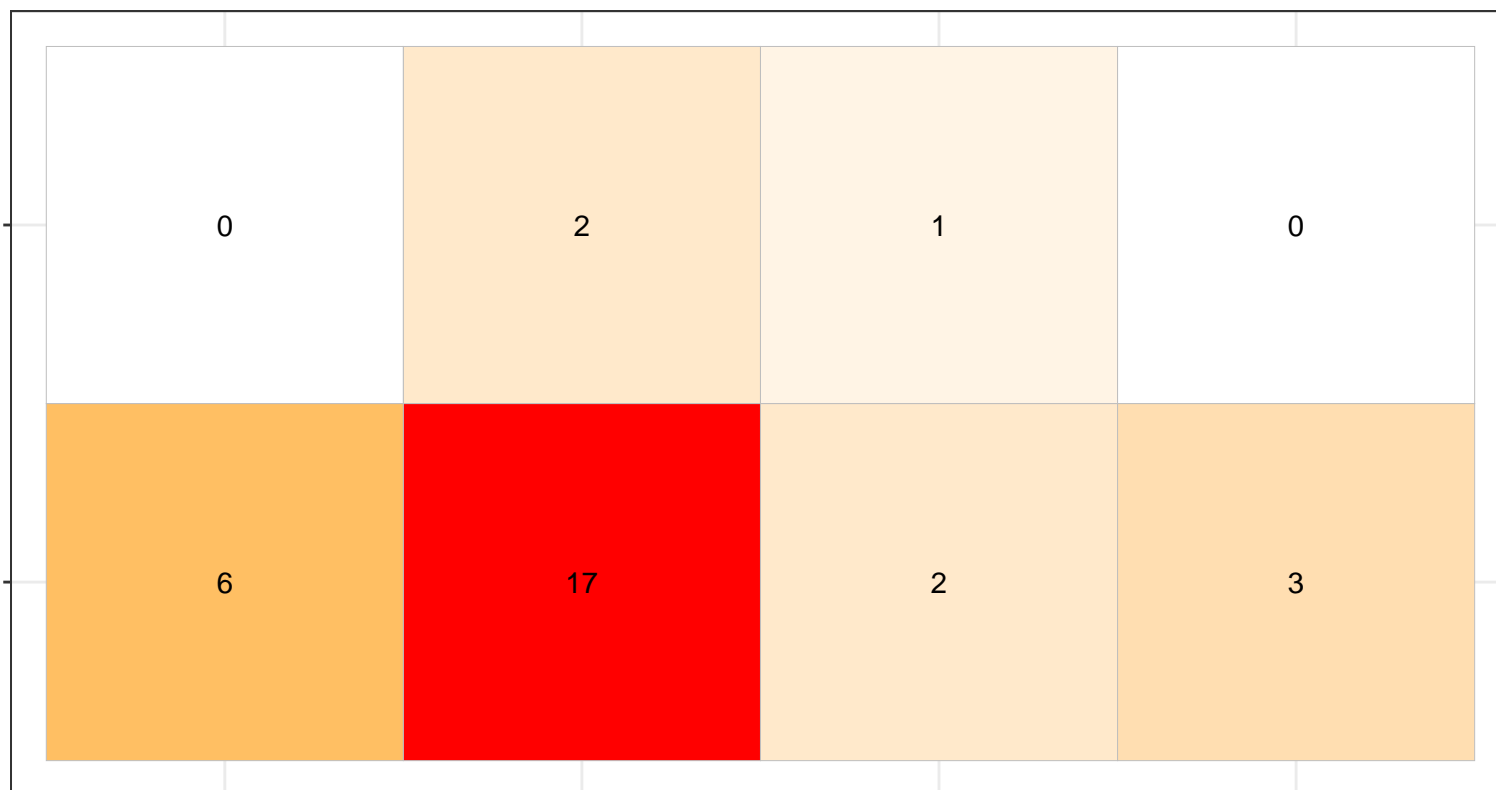
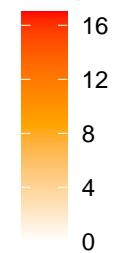
CENTRALIZED: SINGLE SERVER

MIXED

P2P

Network.architecture

Frequency



Shared.workspace_____Communication.type

Shared.workspace

SAMEPLACE

2

3

REMOTE

19

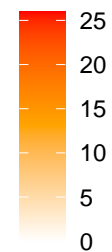
26

ASYNCHRONOUS

SYNCHRONOUS

Communication.type

Frequency



Shared.workspace

Shared.workspace_____Communication.means...builtin

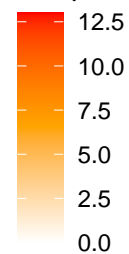
SAMEPLACE

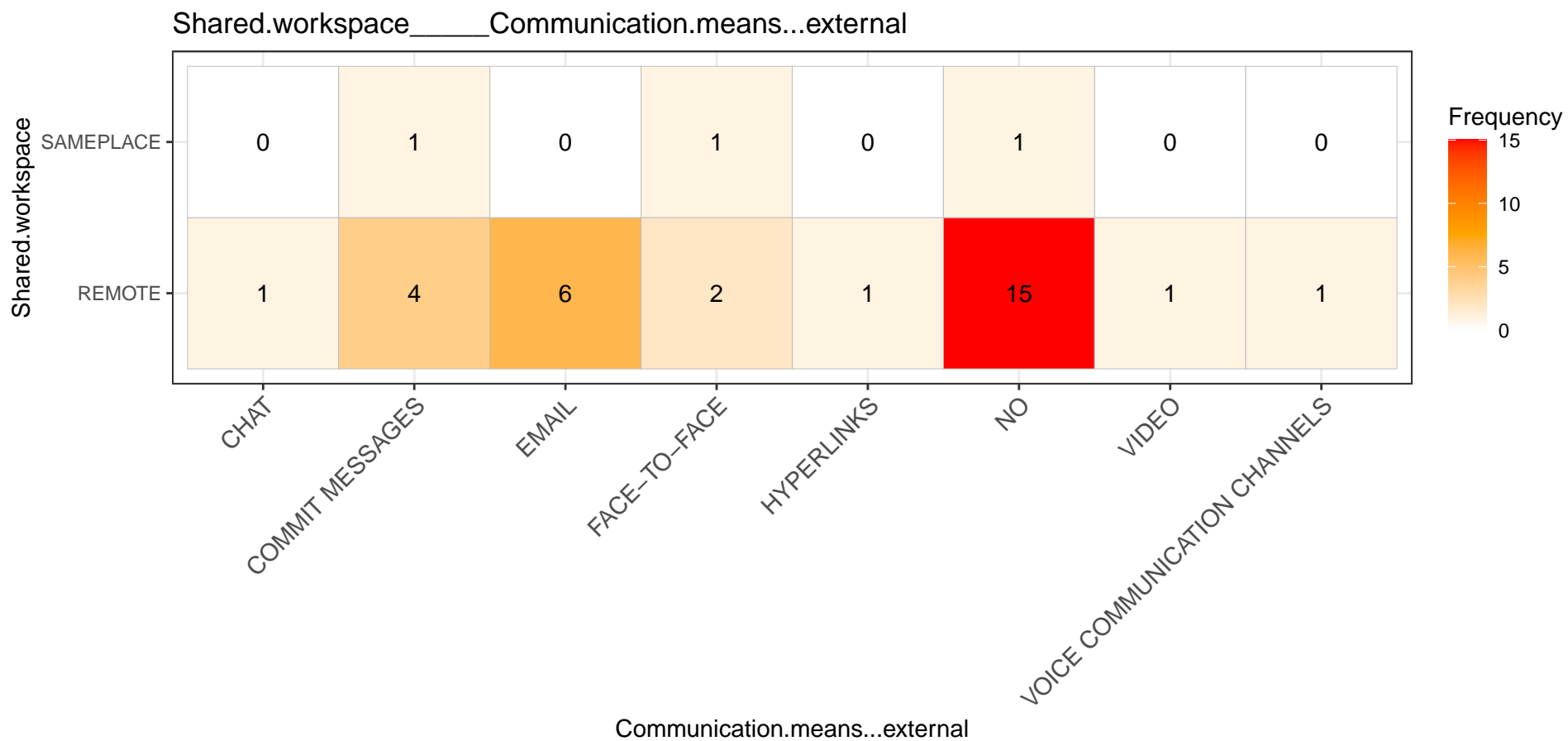
REMOTE

ANNOTATIONS	AUDIO	CALLFORATTENTION	CHANGE HIGHLIGHTING	CHAT	COMMANDS	COMMENTS	CONFLICTSLIST	FEEDBACK	NATURAL LANGUAGE	NO	NOTES	NOTIFICATIONS	PROPOSALS	REVIEWS	TAGS	VOTING
0	1	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0
3	2	4	1	6	1	5	2	6	1	13	2	1	3	2	1	3

Communication.means...builtin

Frequency





Shared.workspace_____Communication.means...mixed

Shared.workspace

SAMEPLACE

0

0

0

3

REMOTE

1

1

2

22

COMMIT MESSAGES

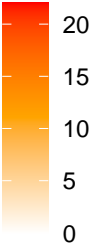
EMAIL

HYPERLINKS

NO

Communication.means...mixed

Frequency



Shared.workspace

Shared.workspace_____Communication.means.links

SAMEPLACE

REMOTE

ANNOTATIONS
CALLFORATTENTION
CHANGE HIGHLIGHTING
CHAT
COMMANDS
COMMENTS
COMMIT MESSAGES
FACE-TO-FACE
NATURAL LANGUAGE
NO
NOTES
NOTIFICATIONS
PROPOSALS
VOTING

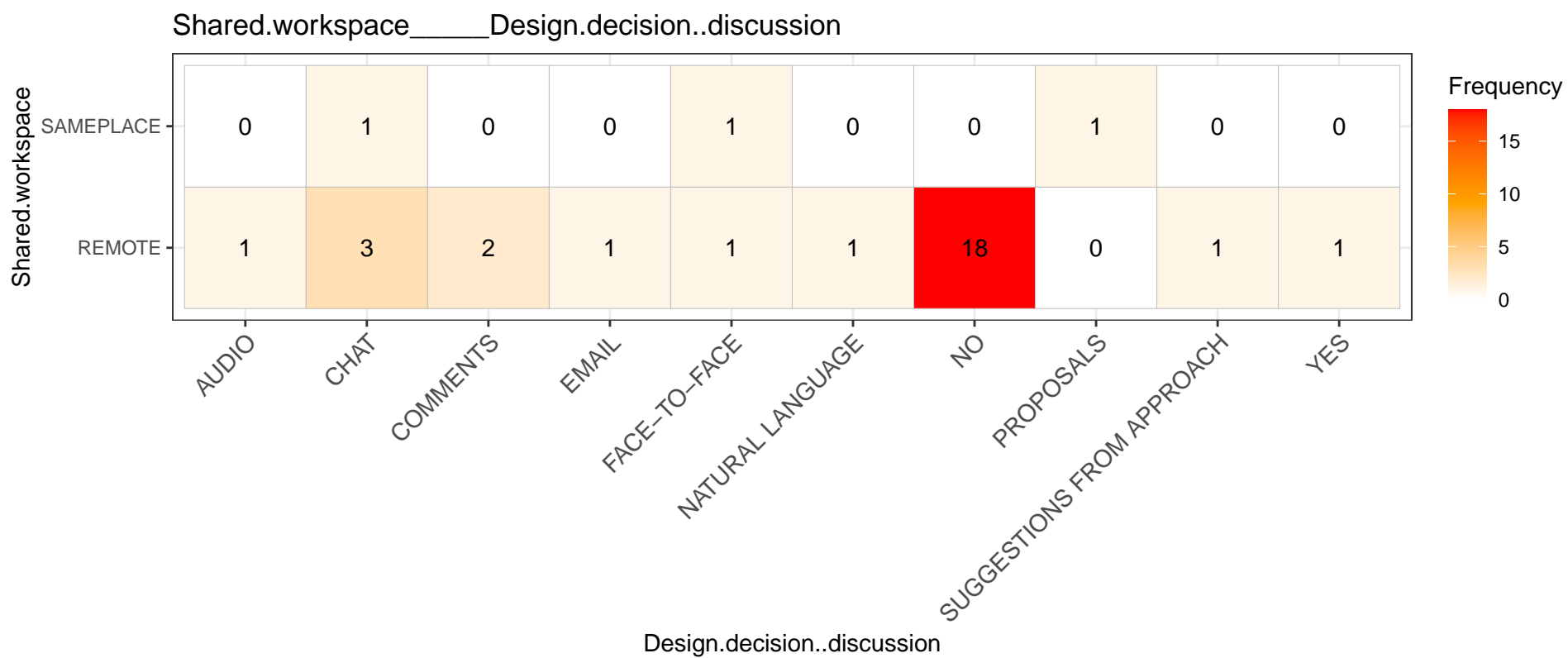
Communication.means.links

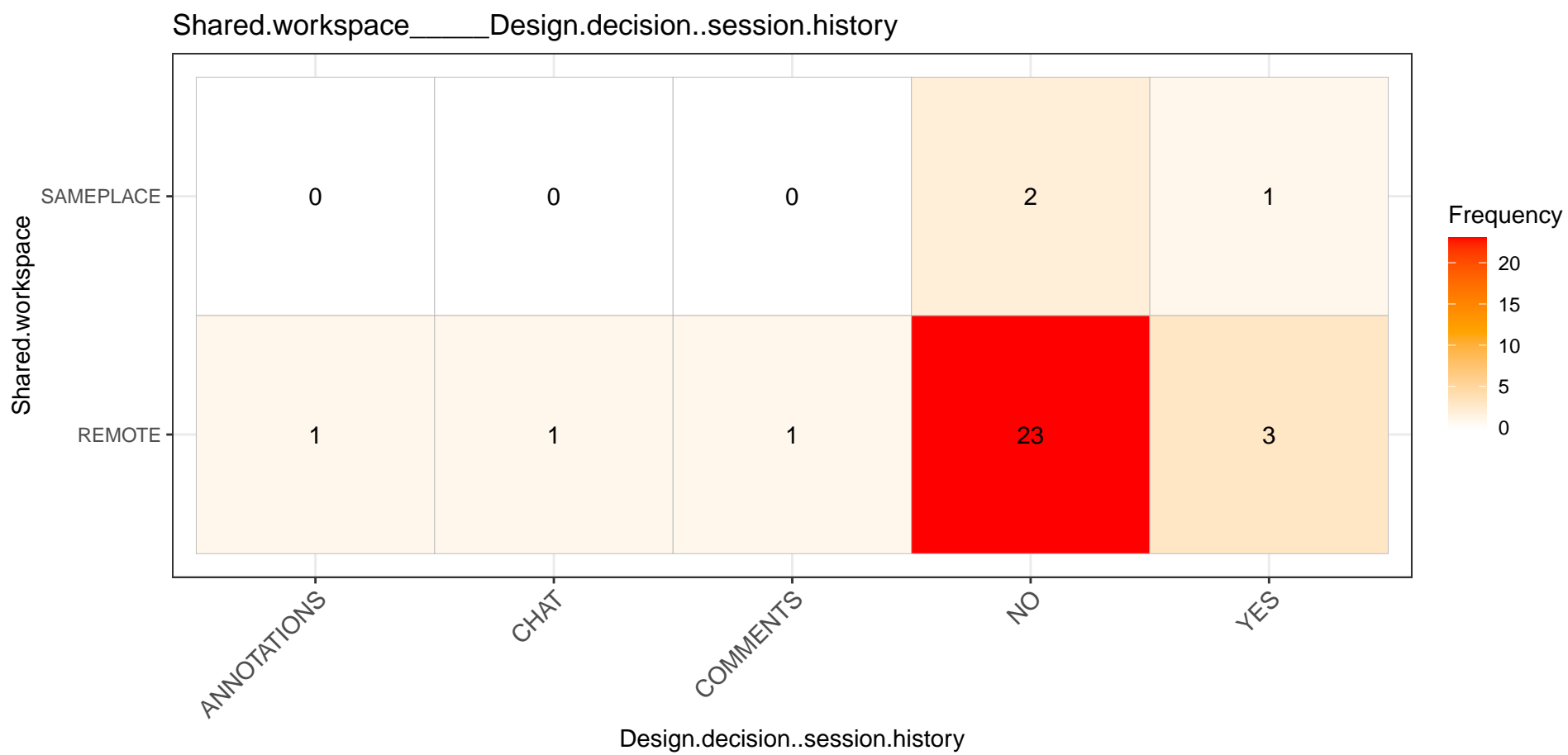
Frequency



20
15
10
5
0

0	0	0	0	0	0	0	1	0	1	0	0	1	0
2	1	1	2	1	2	1	0	1	24	2	1	0	1





Shared.workspace_____Stakeholder.types

Shared.workspace

SAMEPLACE

1

3

REMOTE

10

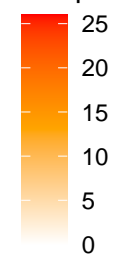
26

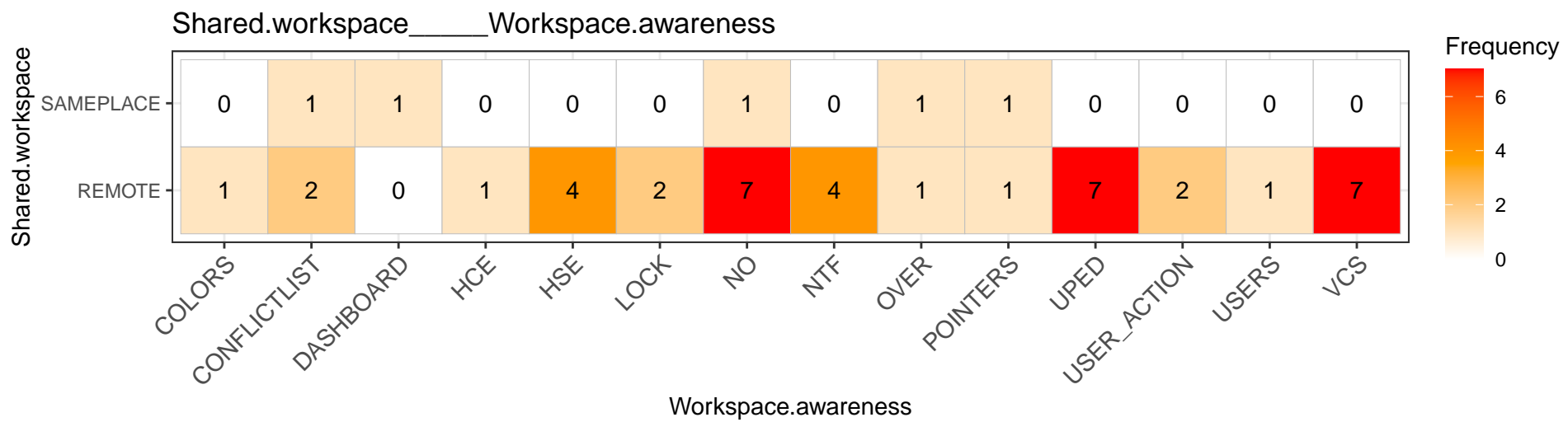
NONTECH

TECH

Stakeholder.types

Frequency





Shared.workspace_____Workspace.awareness.score

Shared.workspace

SAMEPLACE

2

1

0

REMOTE

9

12

5

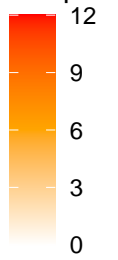
HIGH

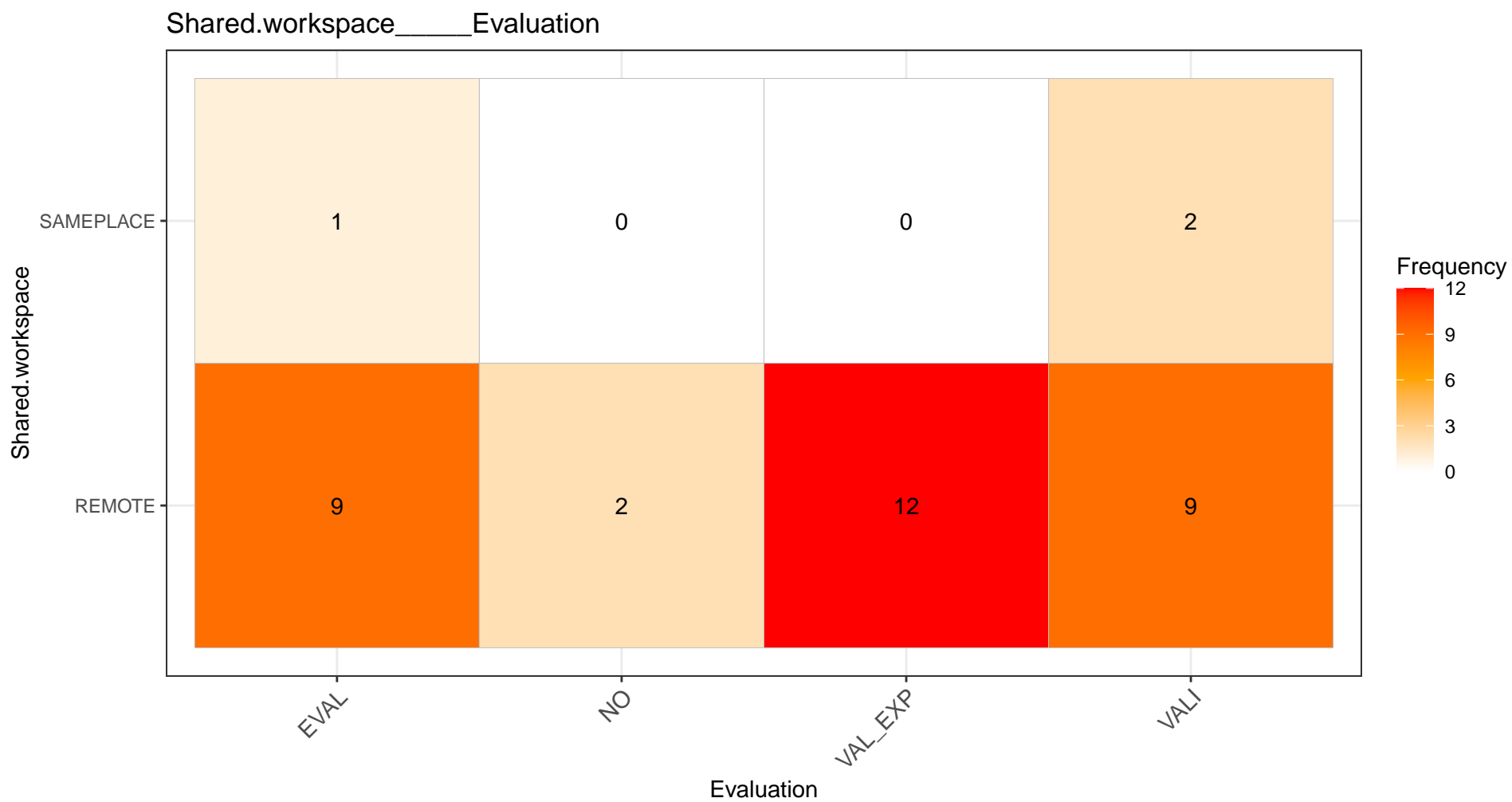
LOW

MED

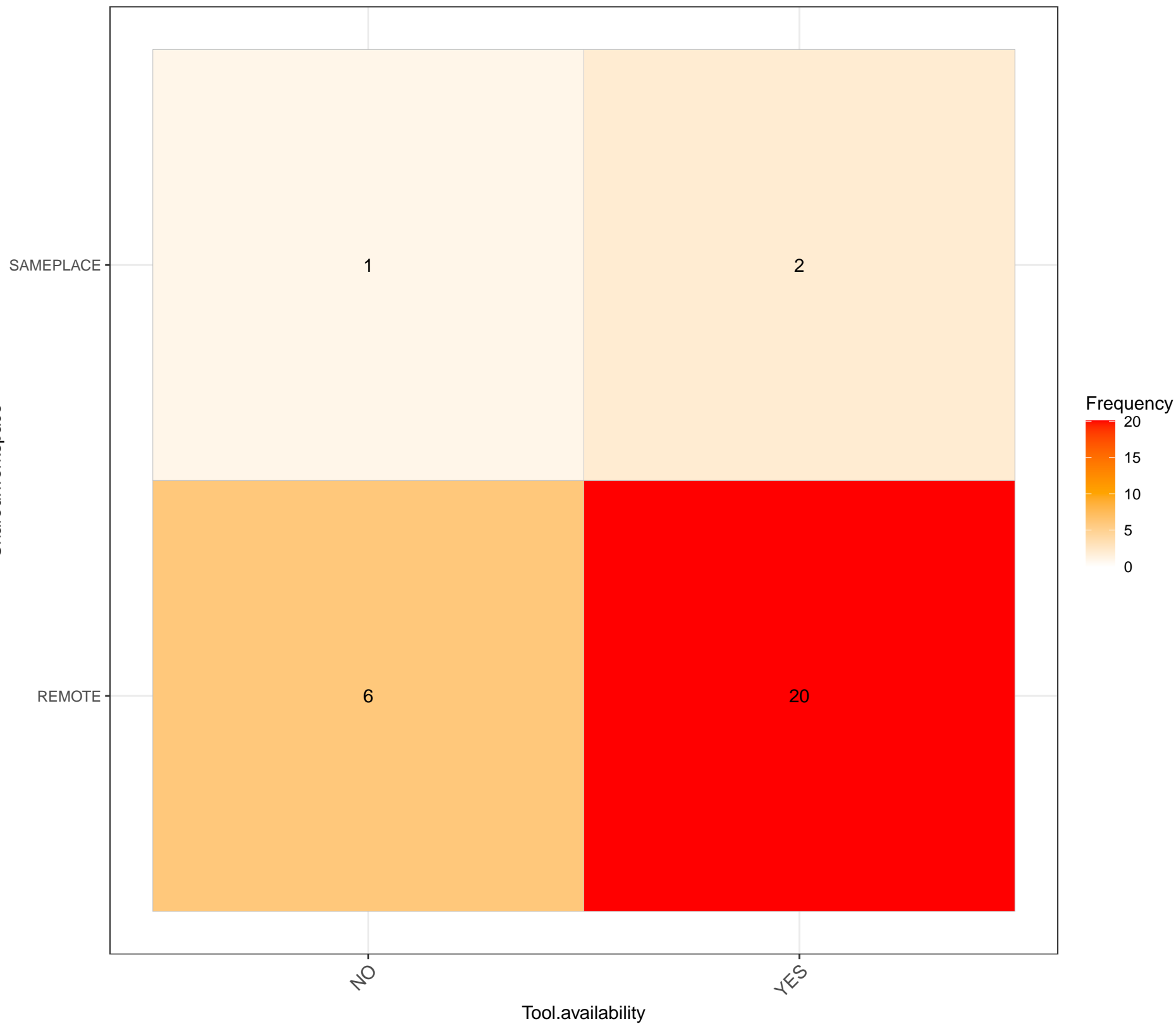
Workspace.awareness.score

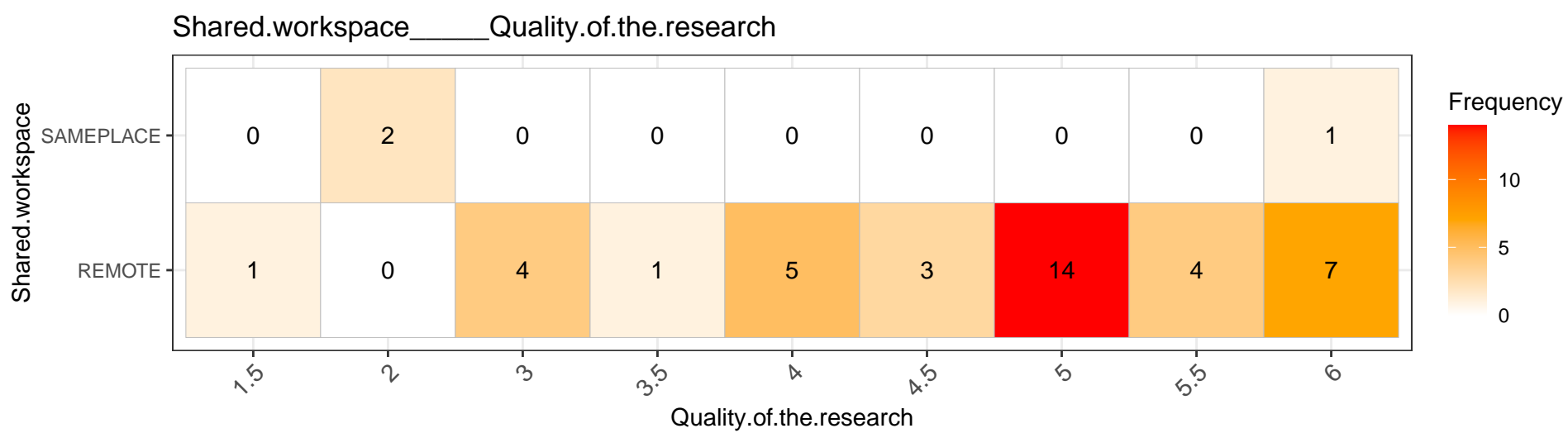
Frequency

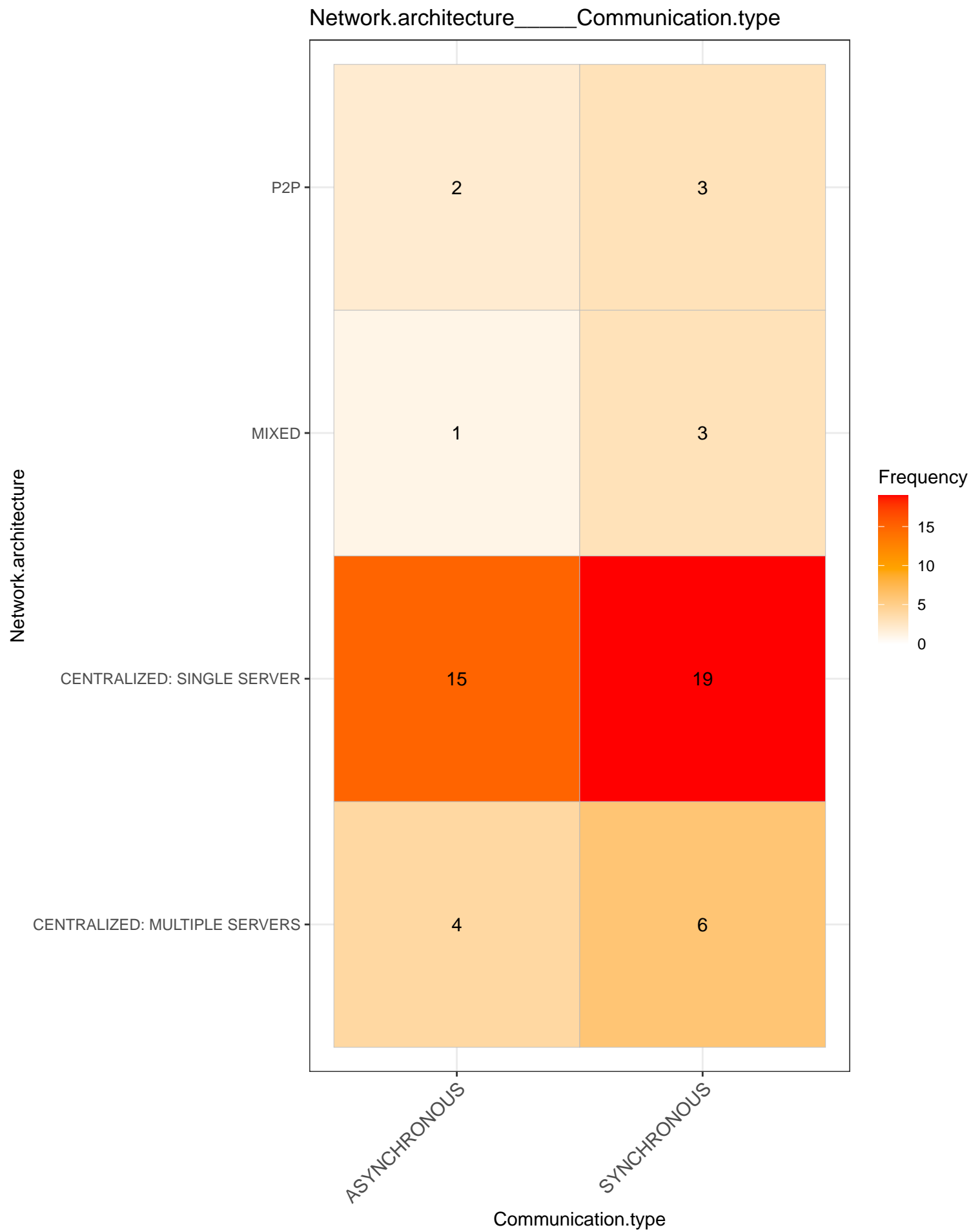




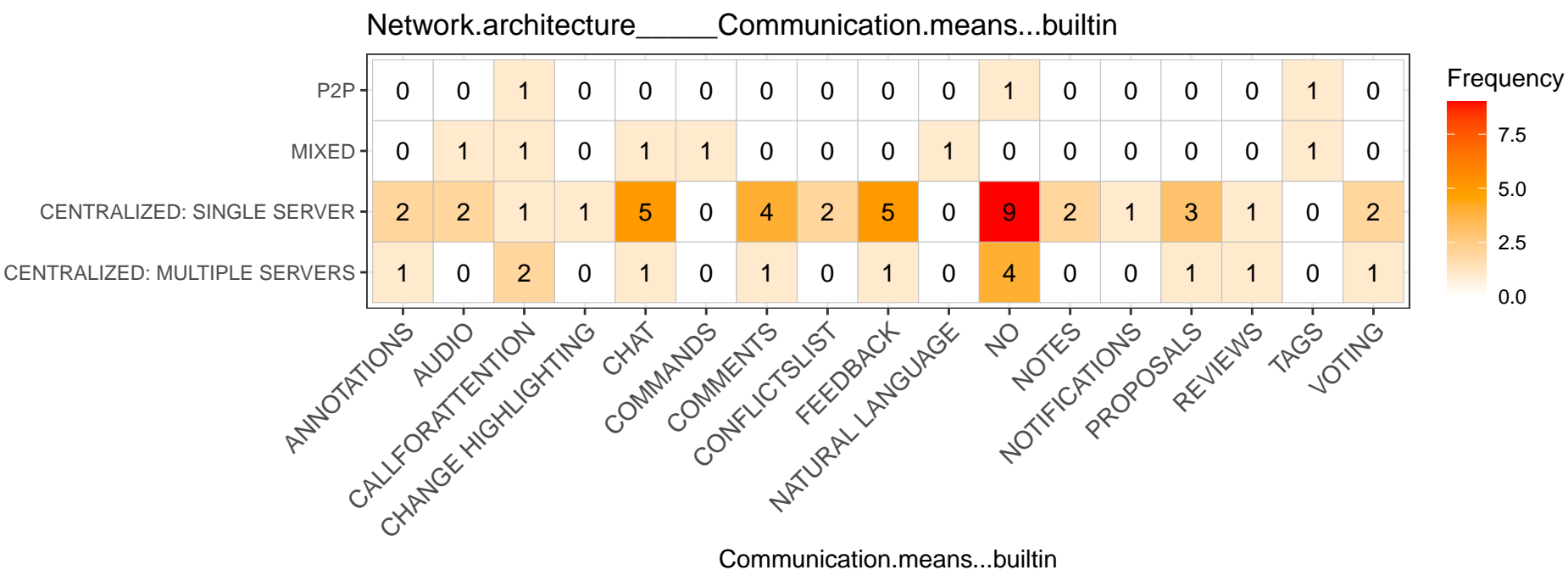
Shared.workspace____Tool.availability

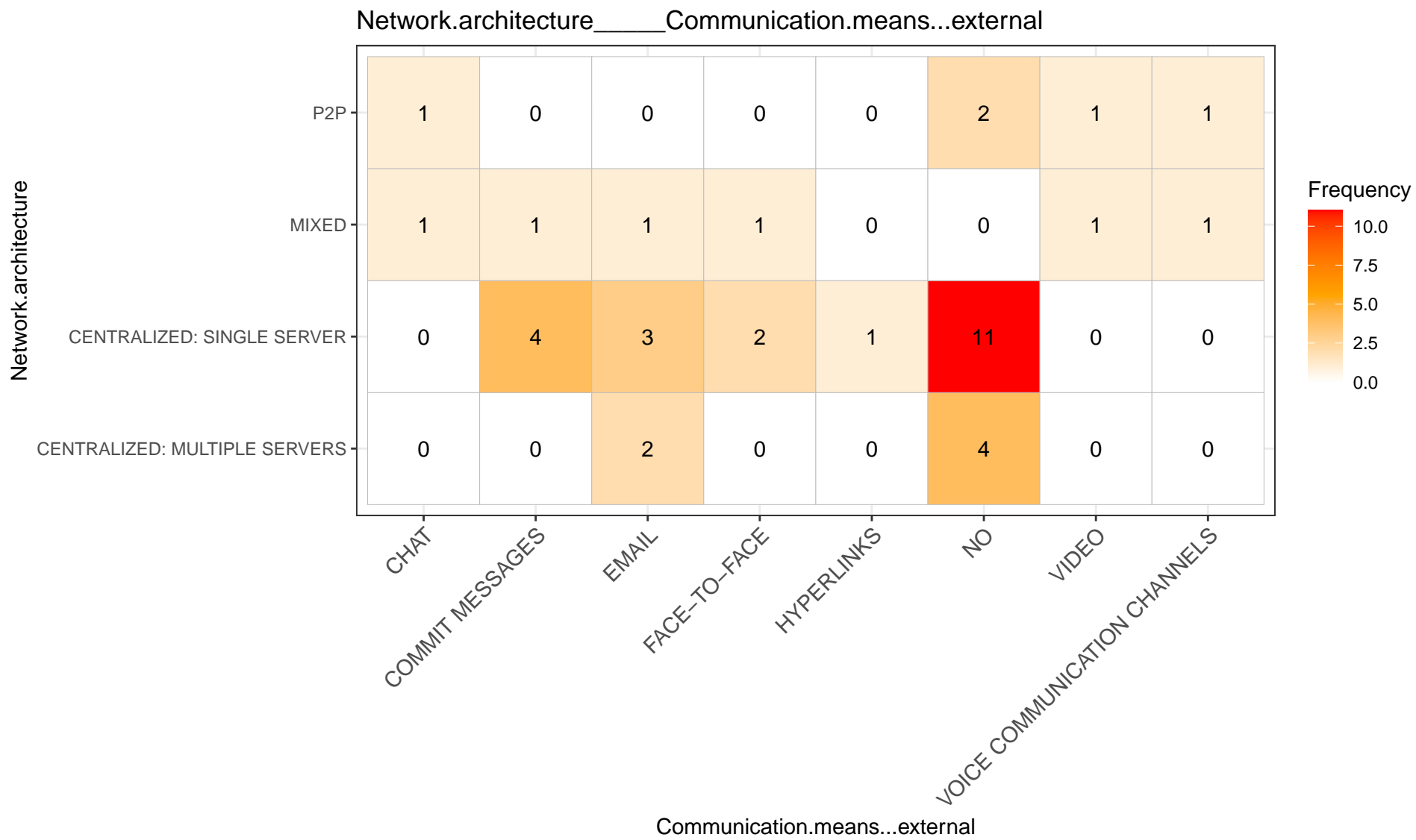




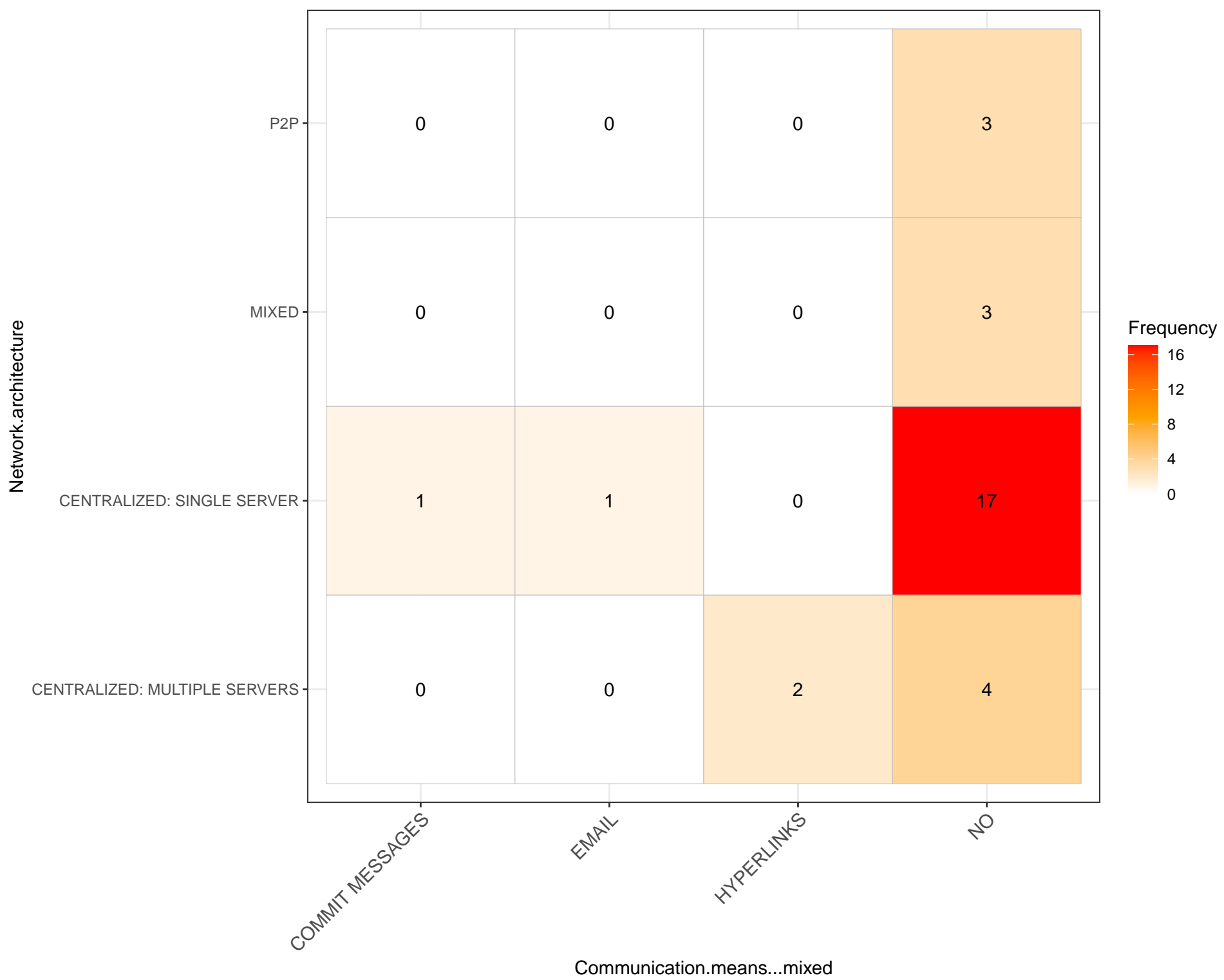


Network.architecture

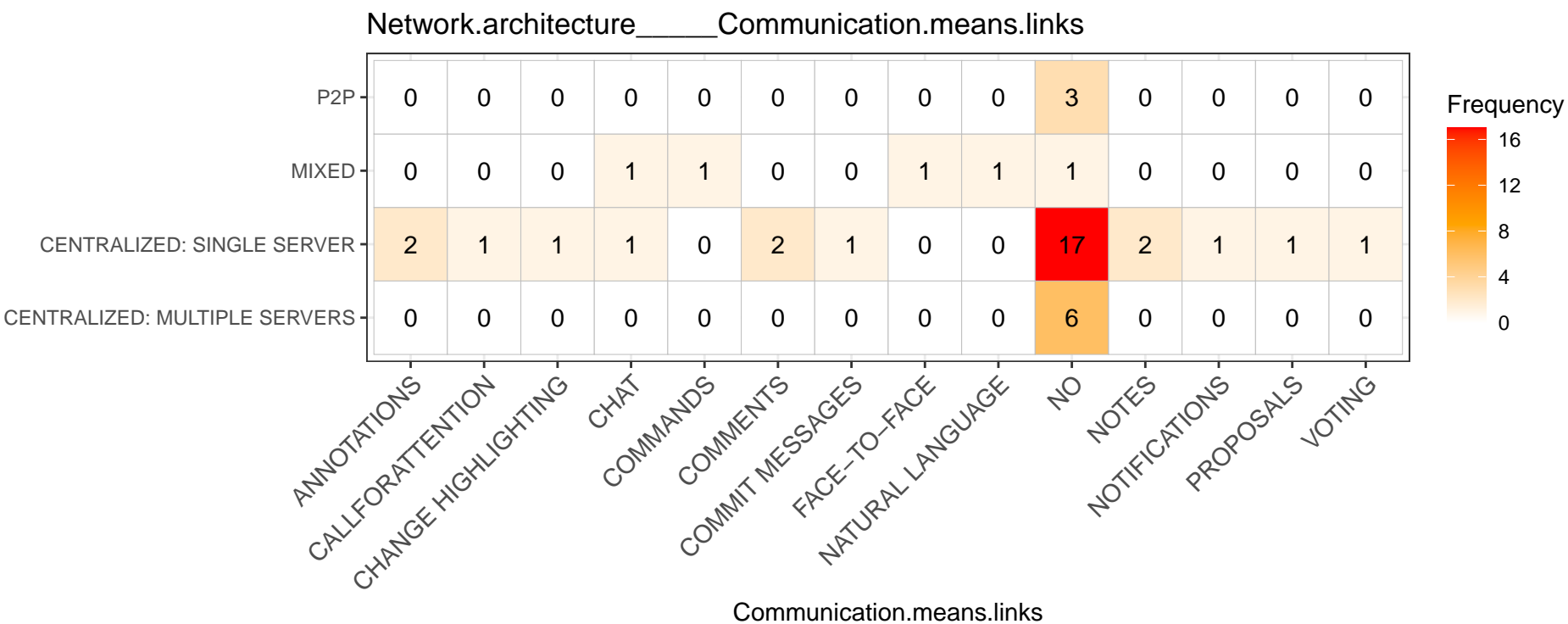


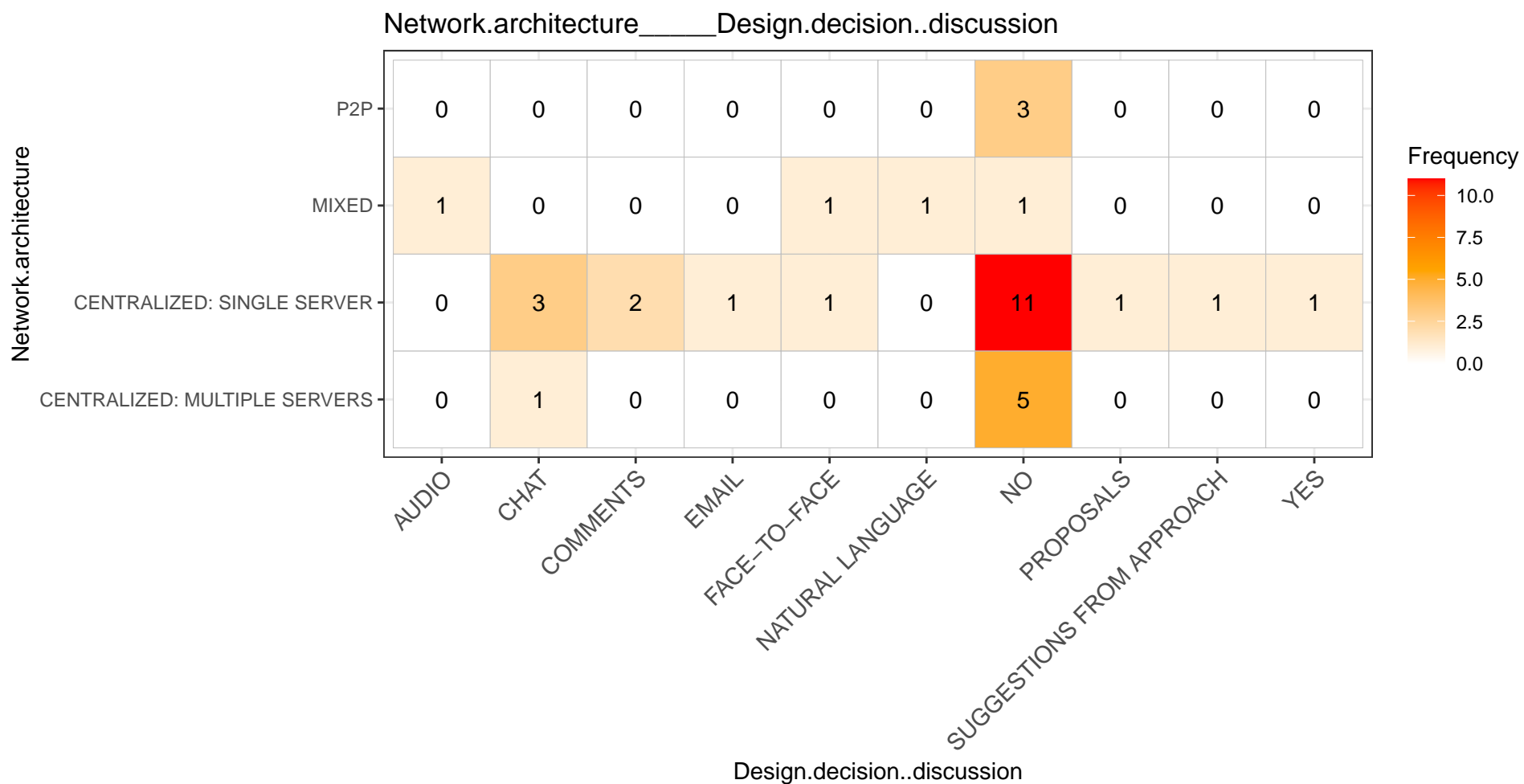


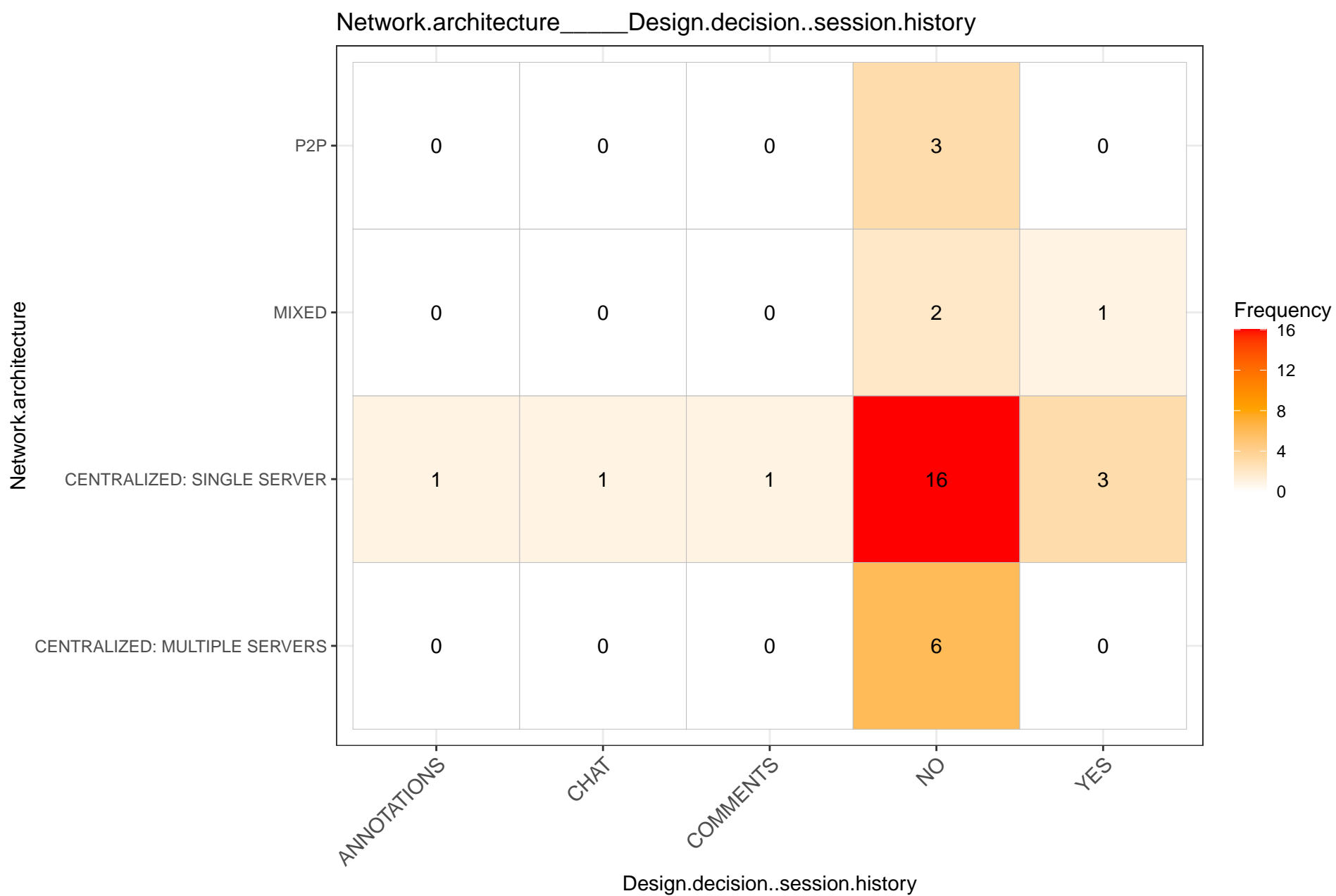
Network.architecture____Communication.means...mixed

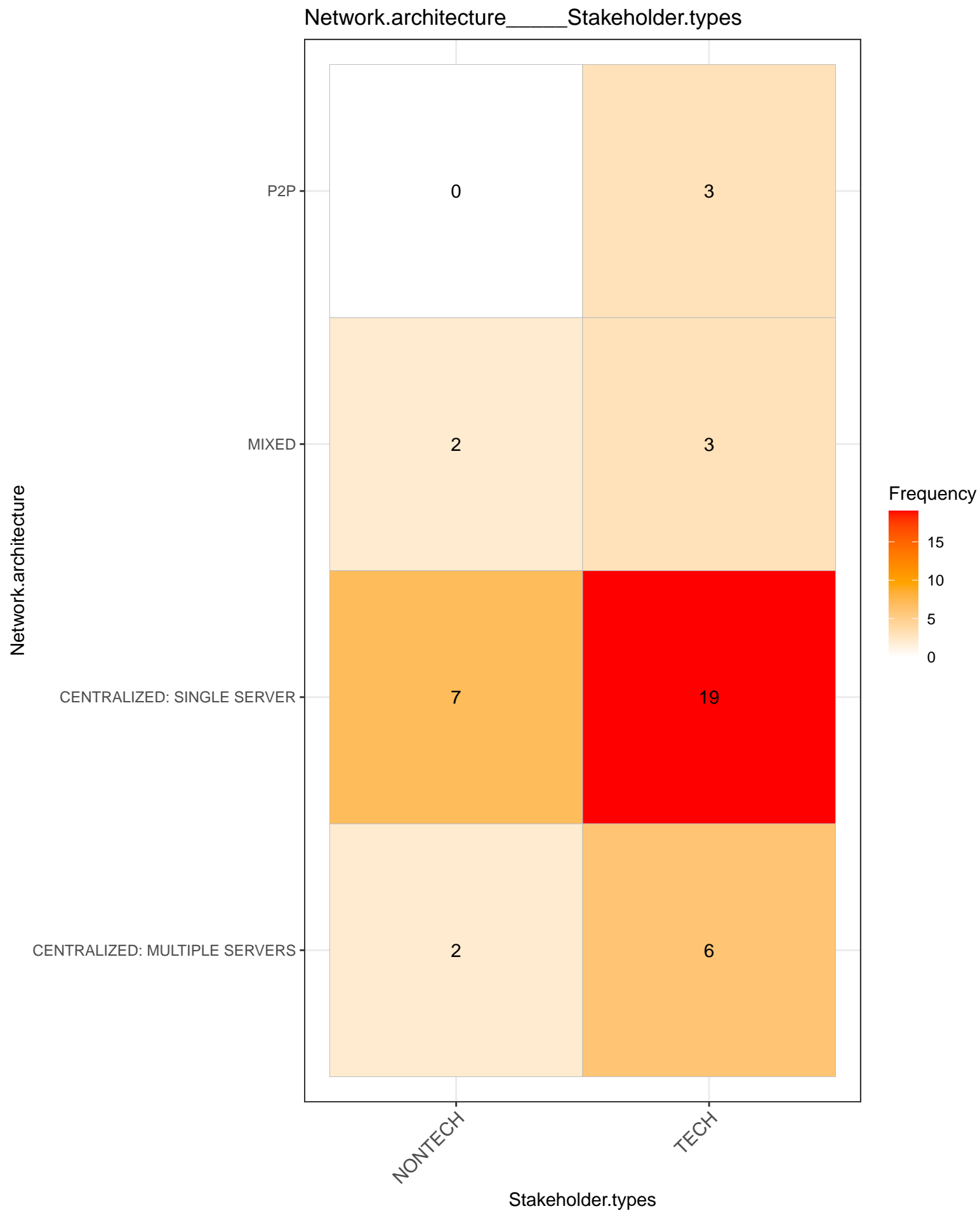


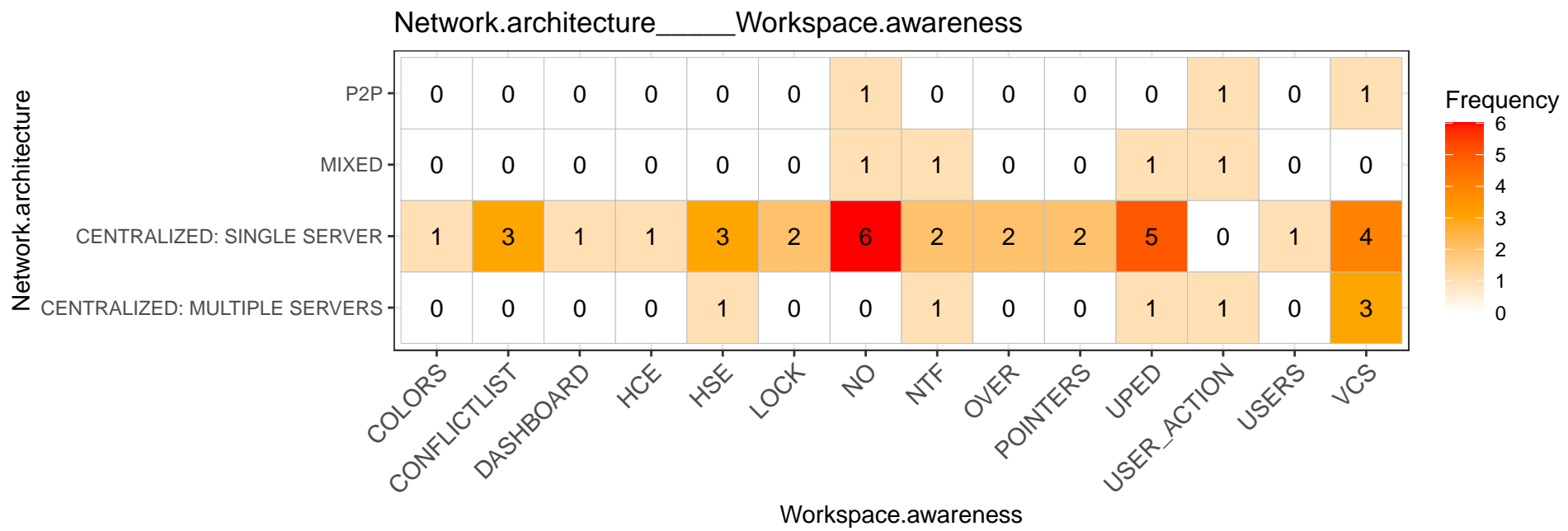
Network.architecture





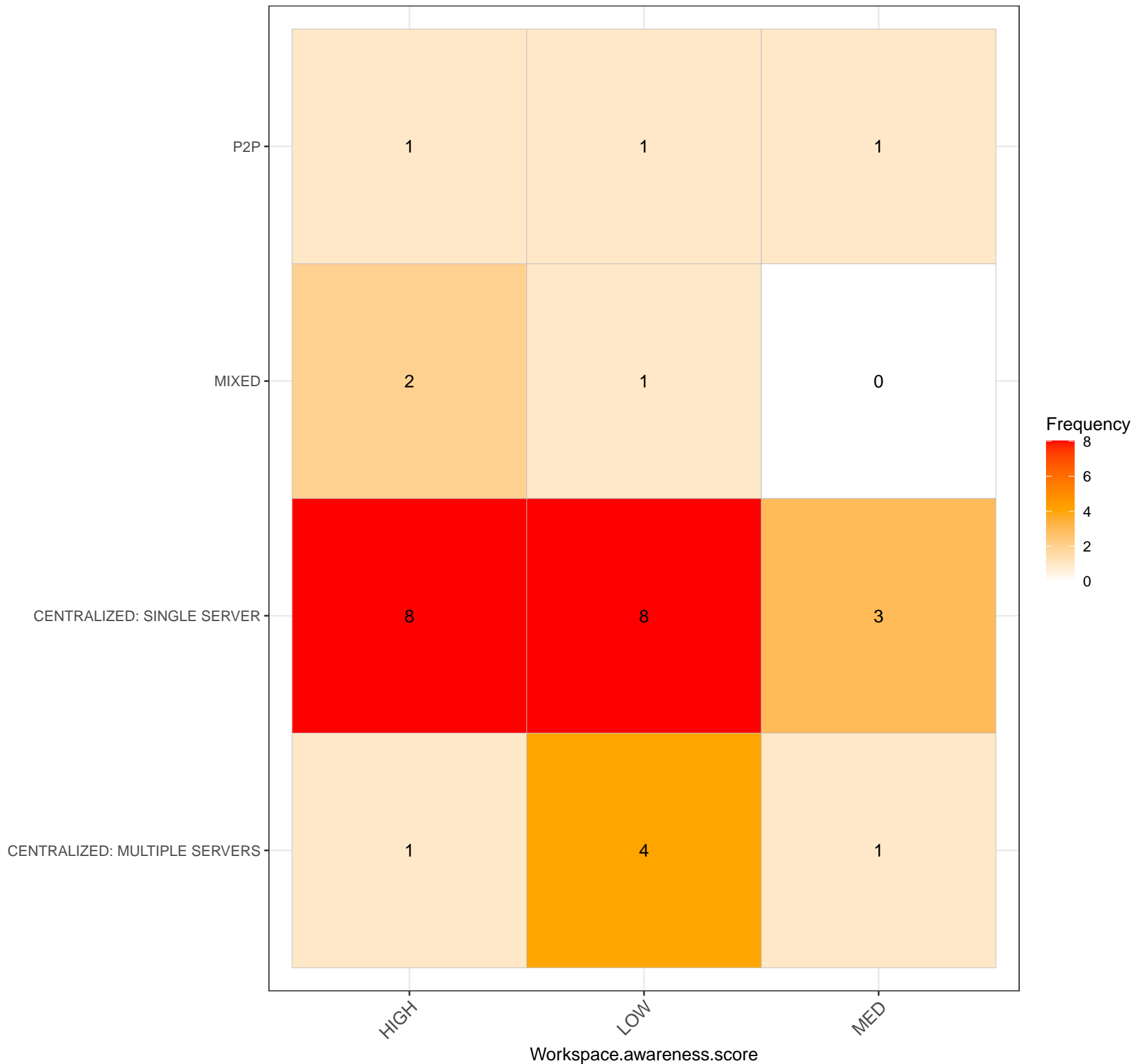




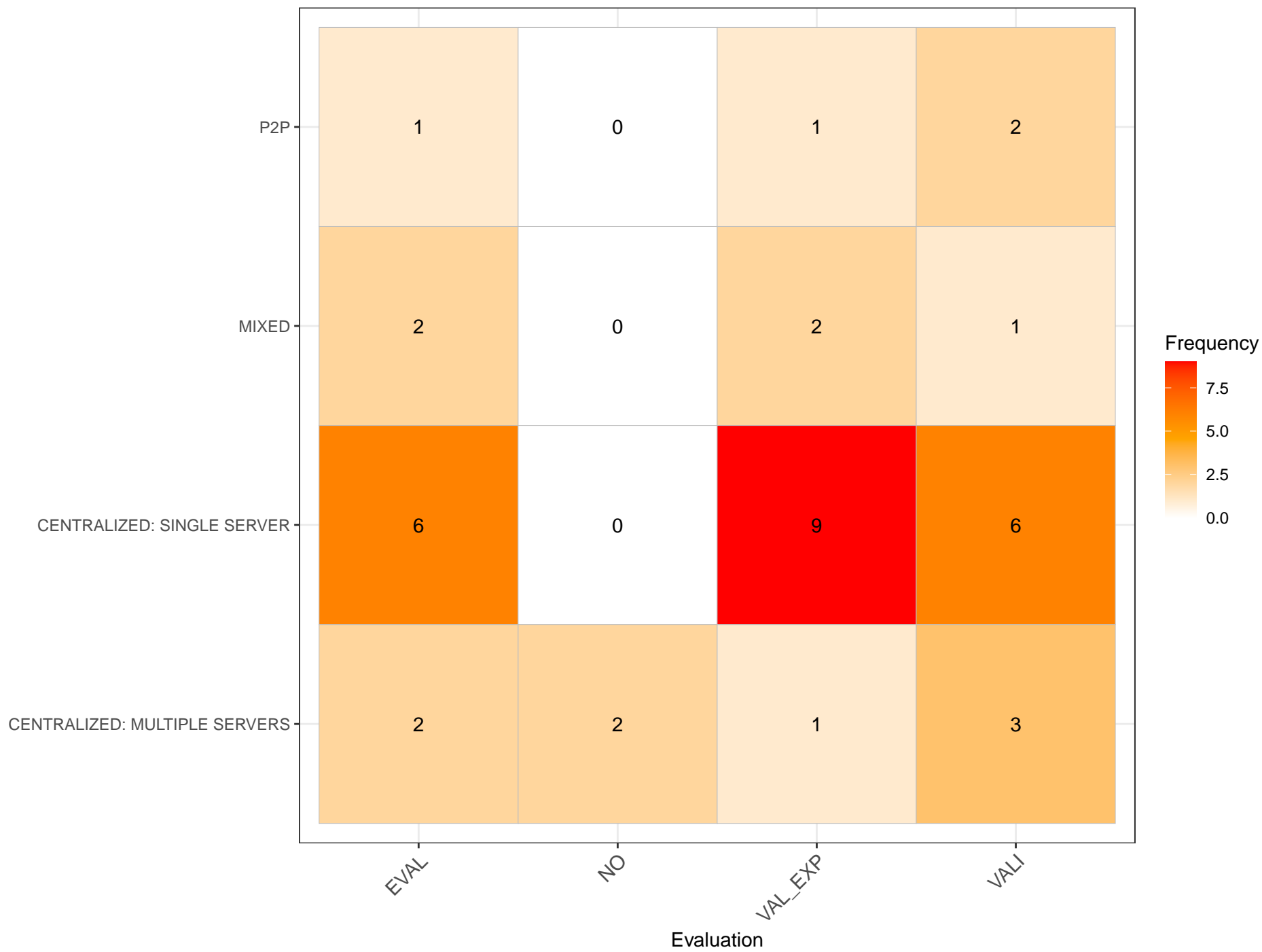


Network.architecture____Workspace.awareness.score

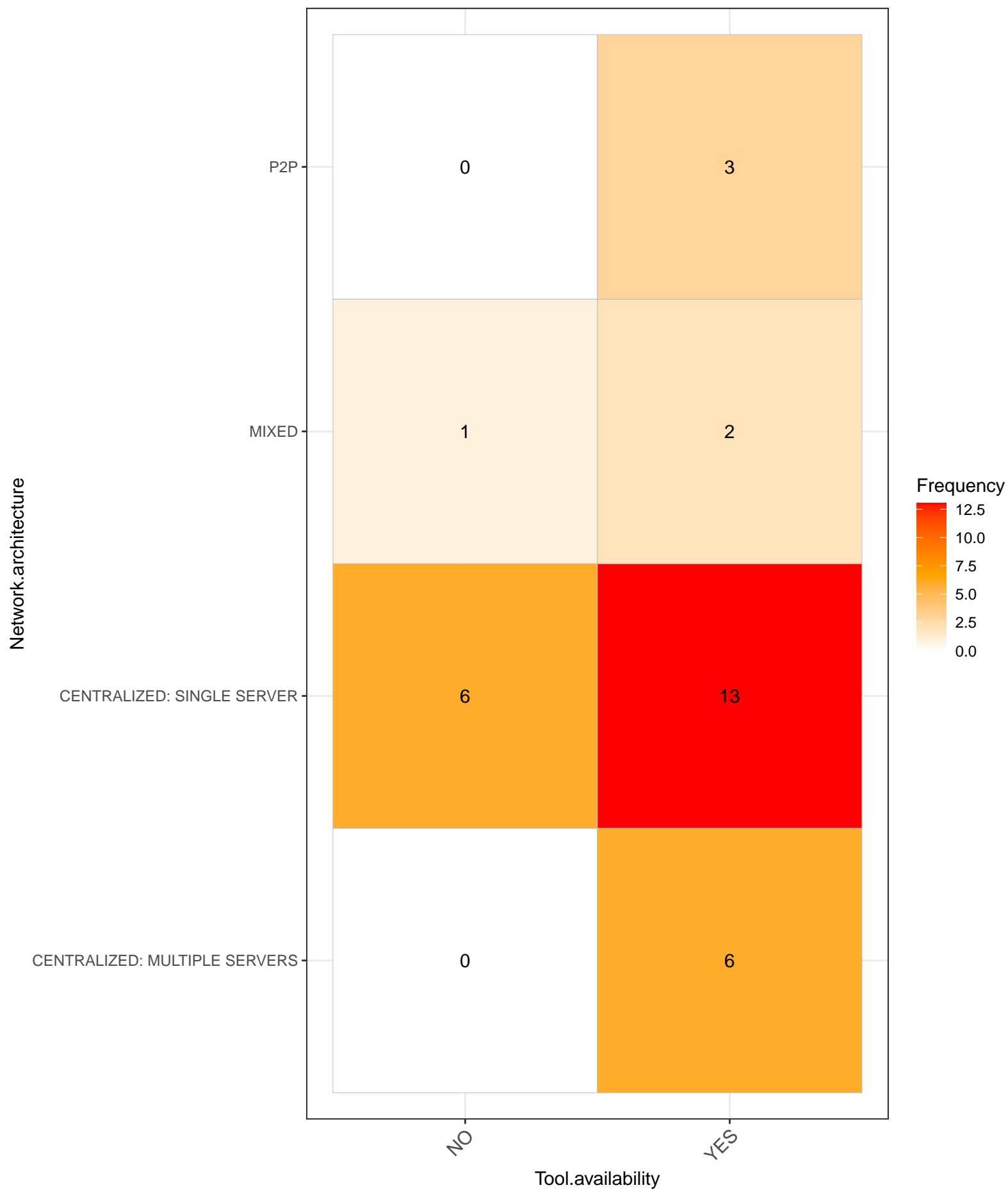
Network.architecture

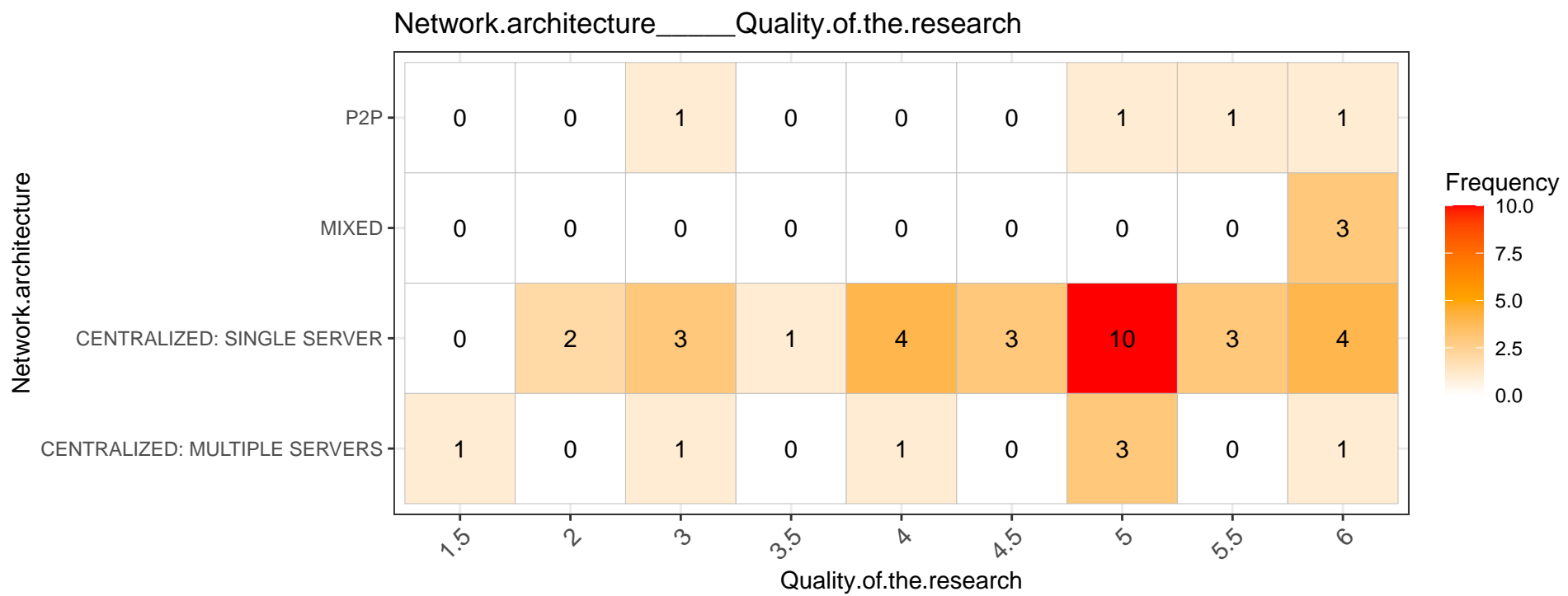


Network.architecture____Evaluation



Network.architecture_____Tool.availability





Communication.type

Communication.type_____Communication.means...builtin

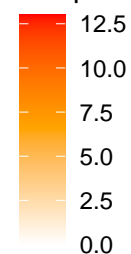
SYNCHRONOUS

ASYNCHRONOUS

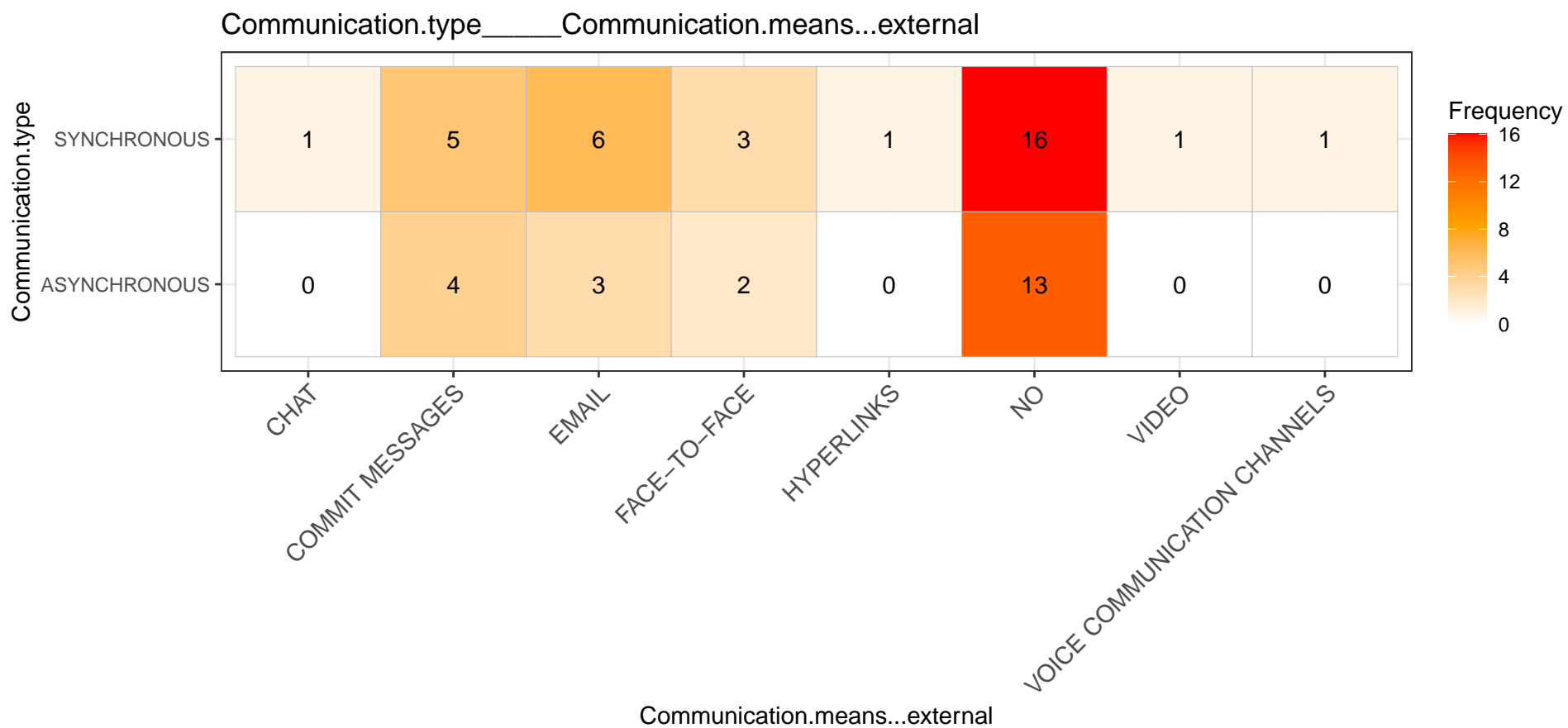
ANNOTATIONS
AUDIO
CALLFORATTENTION
CHANGE HIGHLIGHTING
CHAT
COMMANDS
COMMENTS
CONFLICTSLIST
FEEDBACK
NATURAL LANGUAGE
NO
NOTES
NOTIFICATIONS
PROPOSALS
REVIEWS
TAGS
VOTING

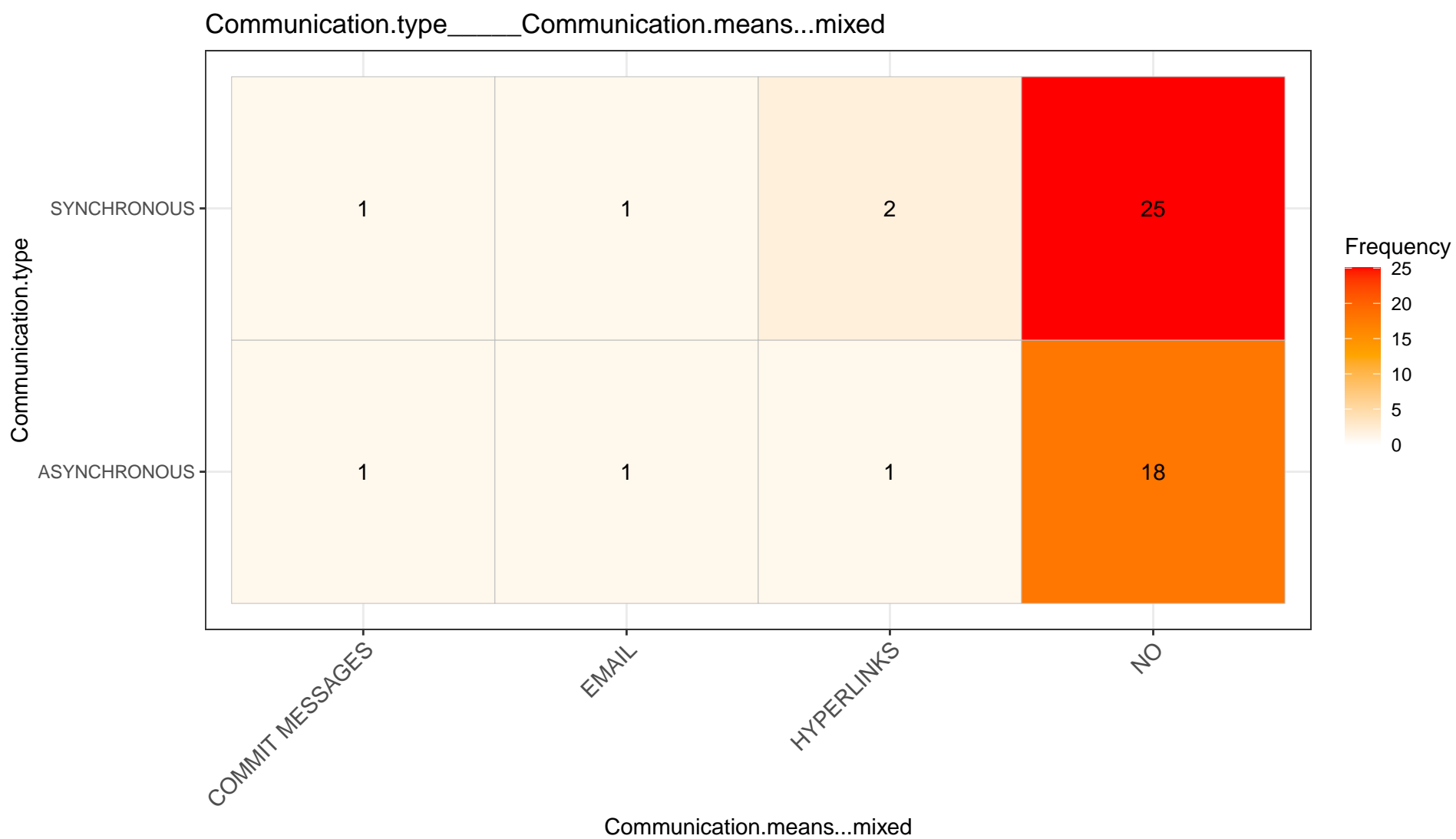
Communication.means...builtin

Frequency



3	3	5	1	7	1	5	2	6	1	13	2	1	4	2	1	3
2	1	2	1	2	0	3	2	6	0	11	0	1	3	2	0	2



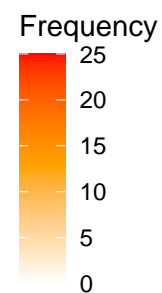


Communication.type

Communication.type_____Communication.means.links

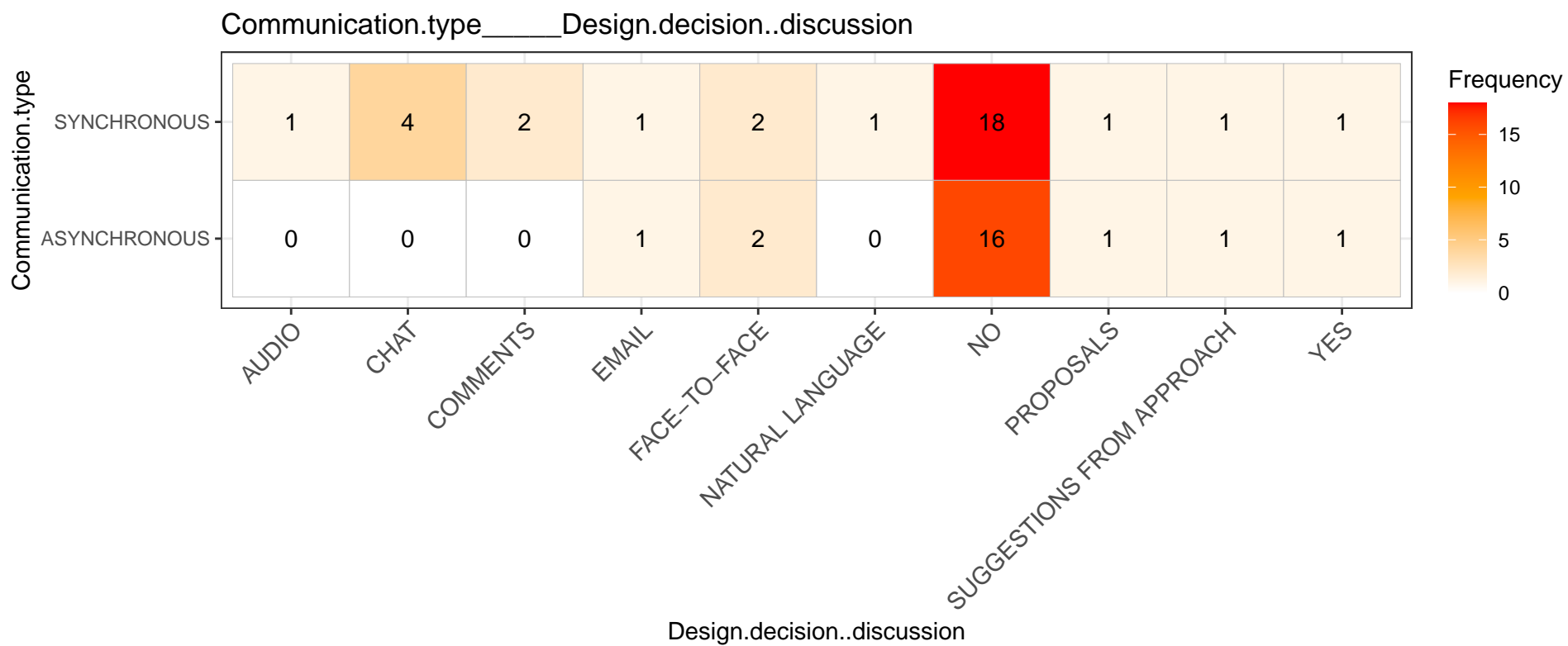
SYNCHRONOUS

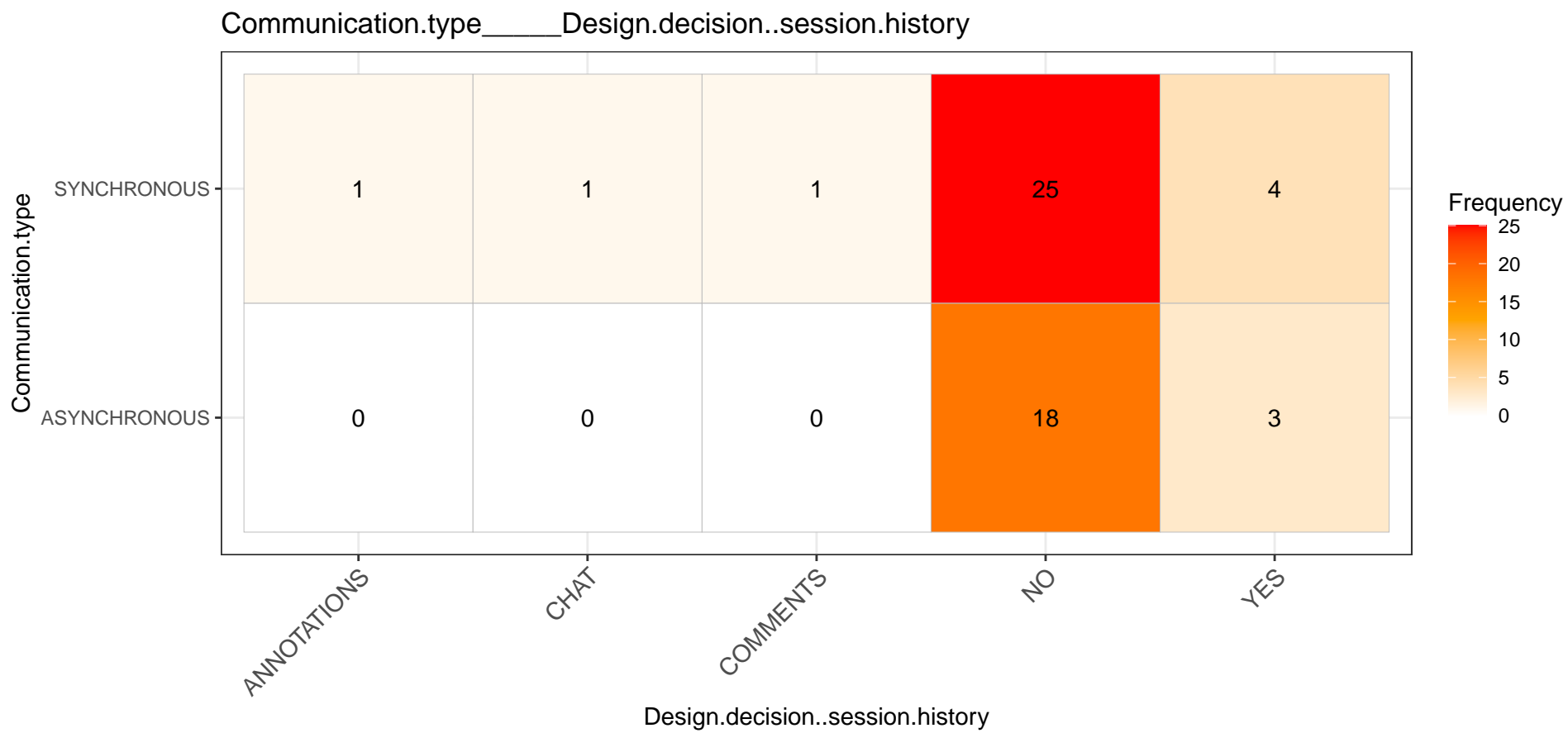
ASYNCHRONOUS



ANNOTATIONS	2	1	1	2	1	2	1	1	1	25	2	1	1	1
CALLFORATTENTION	1	0	1	0	0	1	1	1	0	19	0	1	1	0
CHANGE HIGHLIGHTING														
CHAT														
COMMANDS														
COMMENTS														
COMMIT MESSAGES														
FACE-TO-FACE														
NATURAL LANGUAGE														
NO														
NOTES														
NOTIFICATIONS														
PROPOSALS														
VOTING														

Communication.means.links





Communication.type_____Stakeholder.types

Communication.type

SYNCHRONOUS

11

29

ASYNCHRONOUS

6

21

NONTECH

TECH

Stakeholder.types

Frequency



Communication.type

Communication.type_____Workspace.awareness

SYNCHRONOUS

ASYNCHRONOUS

COLORS

CONFLICTLIST

DASHBOARD

HCE

HSE

LOCK

NO

NTF

OVER

POINTERS

UPED

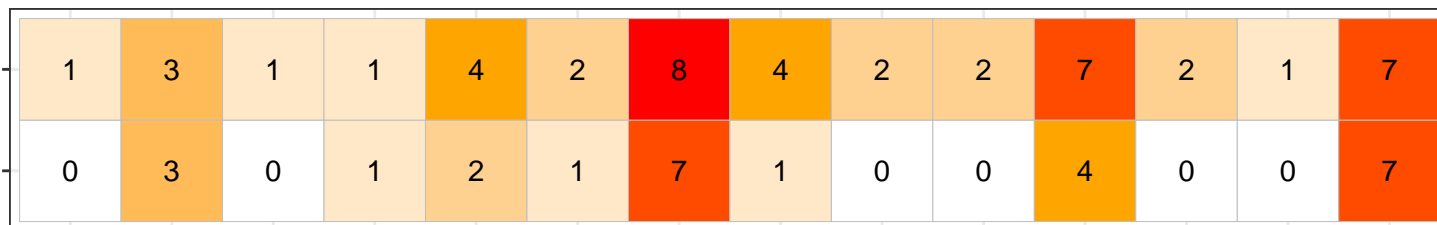
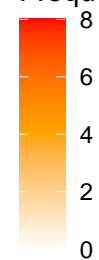
USER_ACTION

USERS

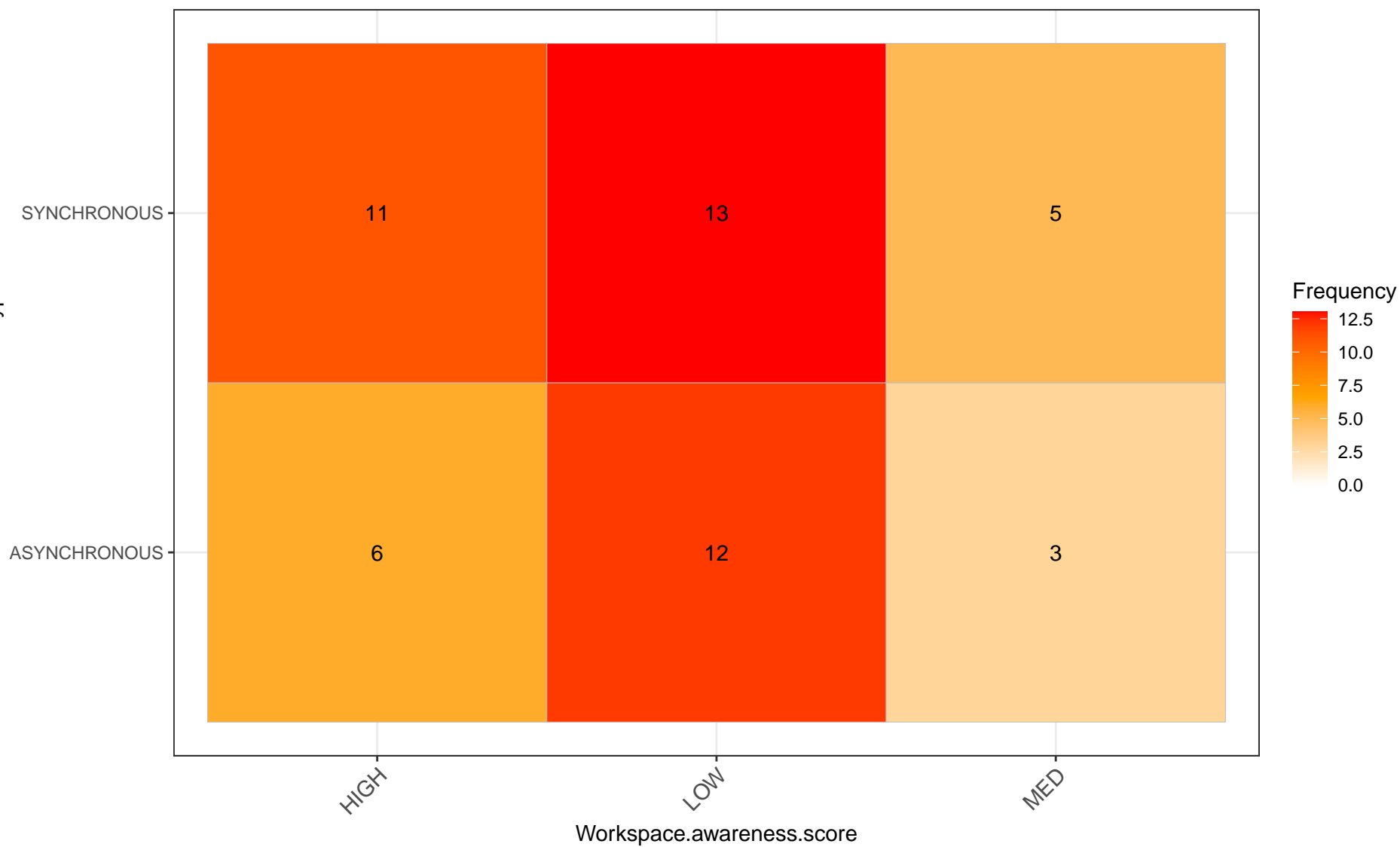
VCS

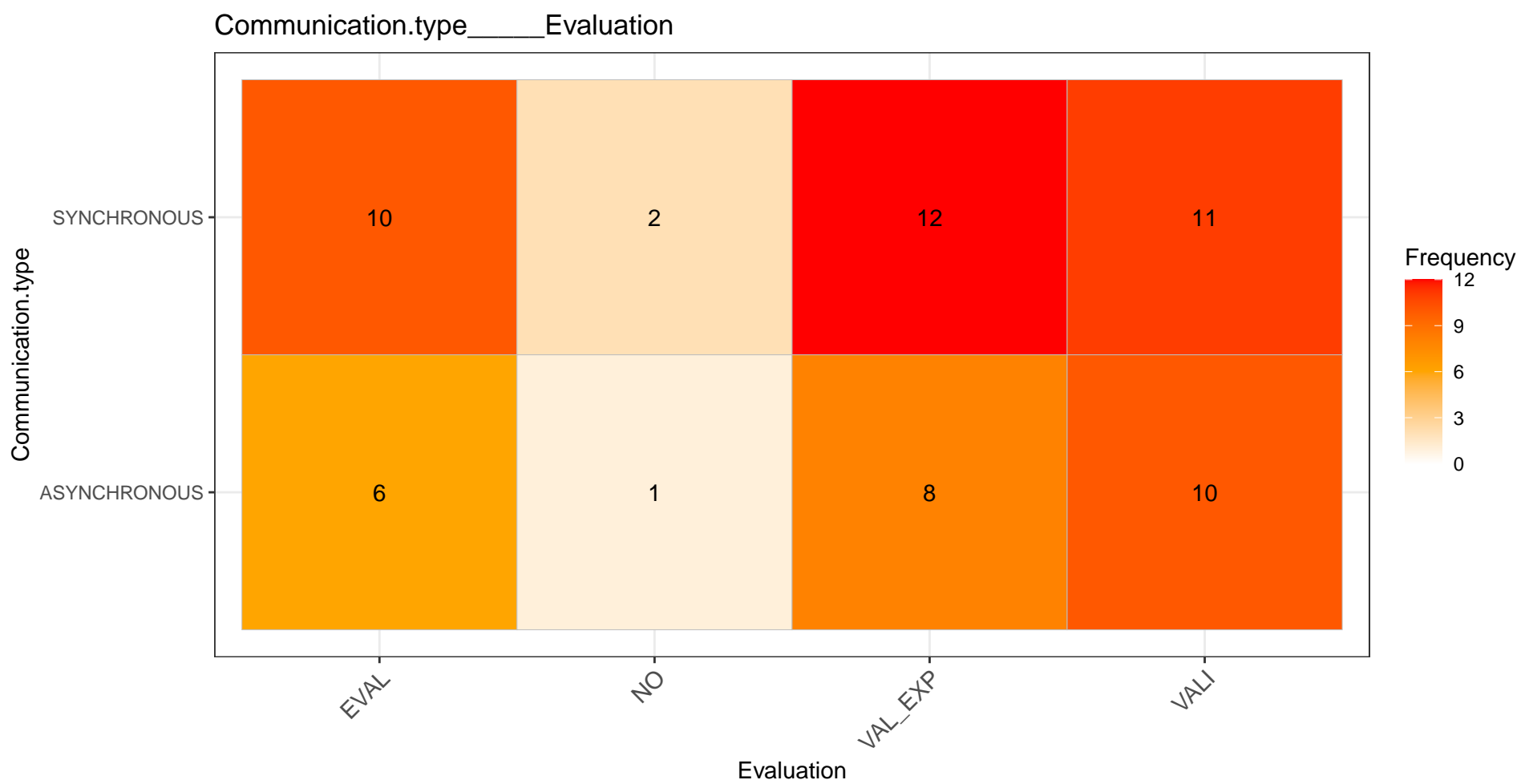
Workspace.awareness

Frequency

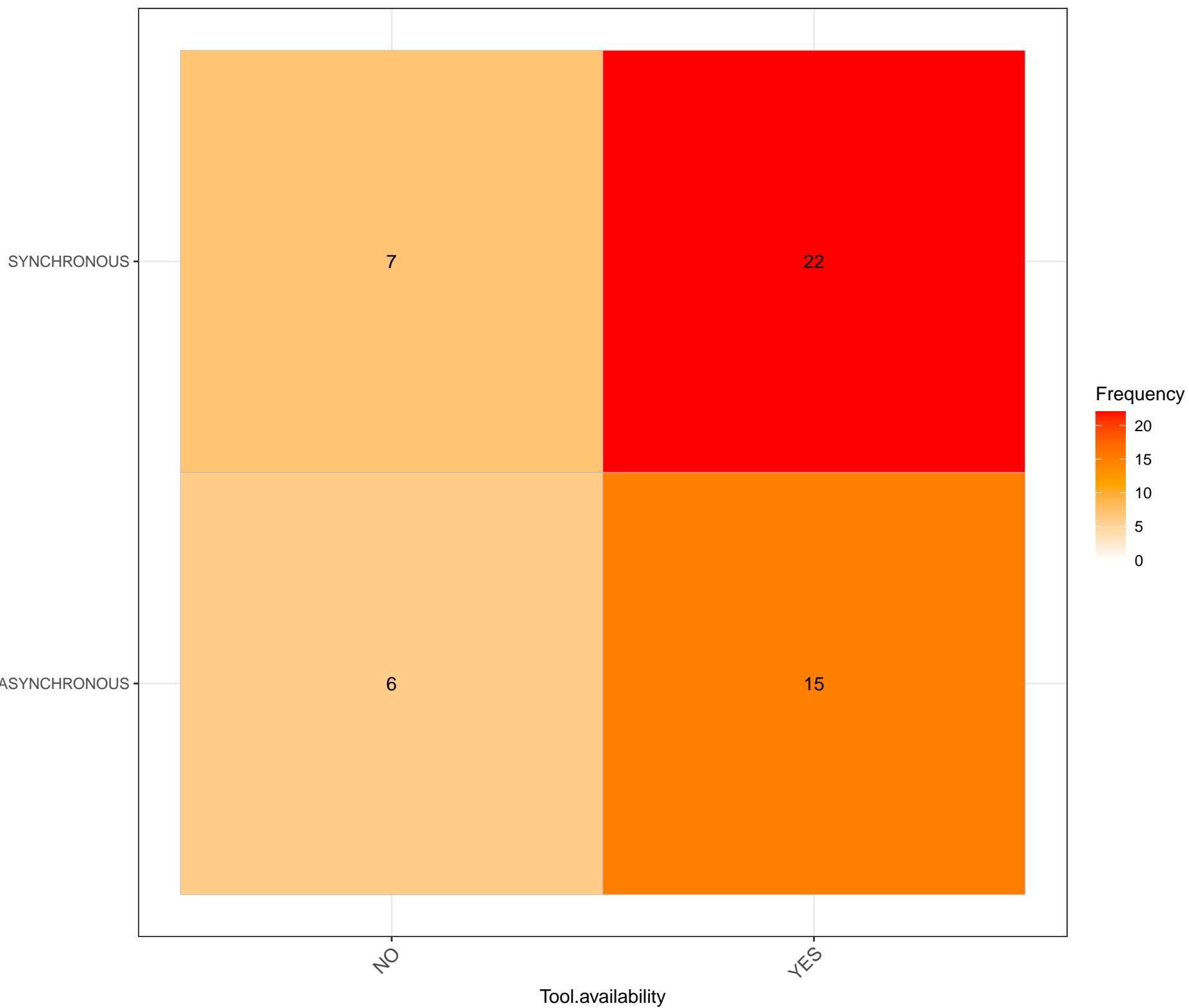


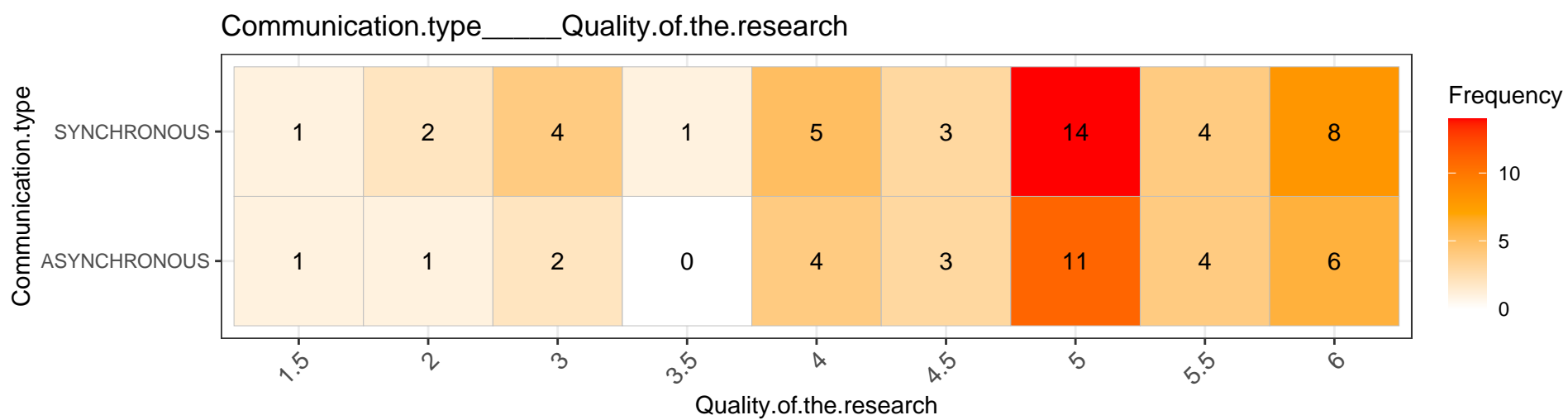
Communication.type_____Workspace.awareness.score

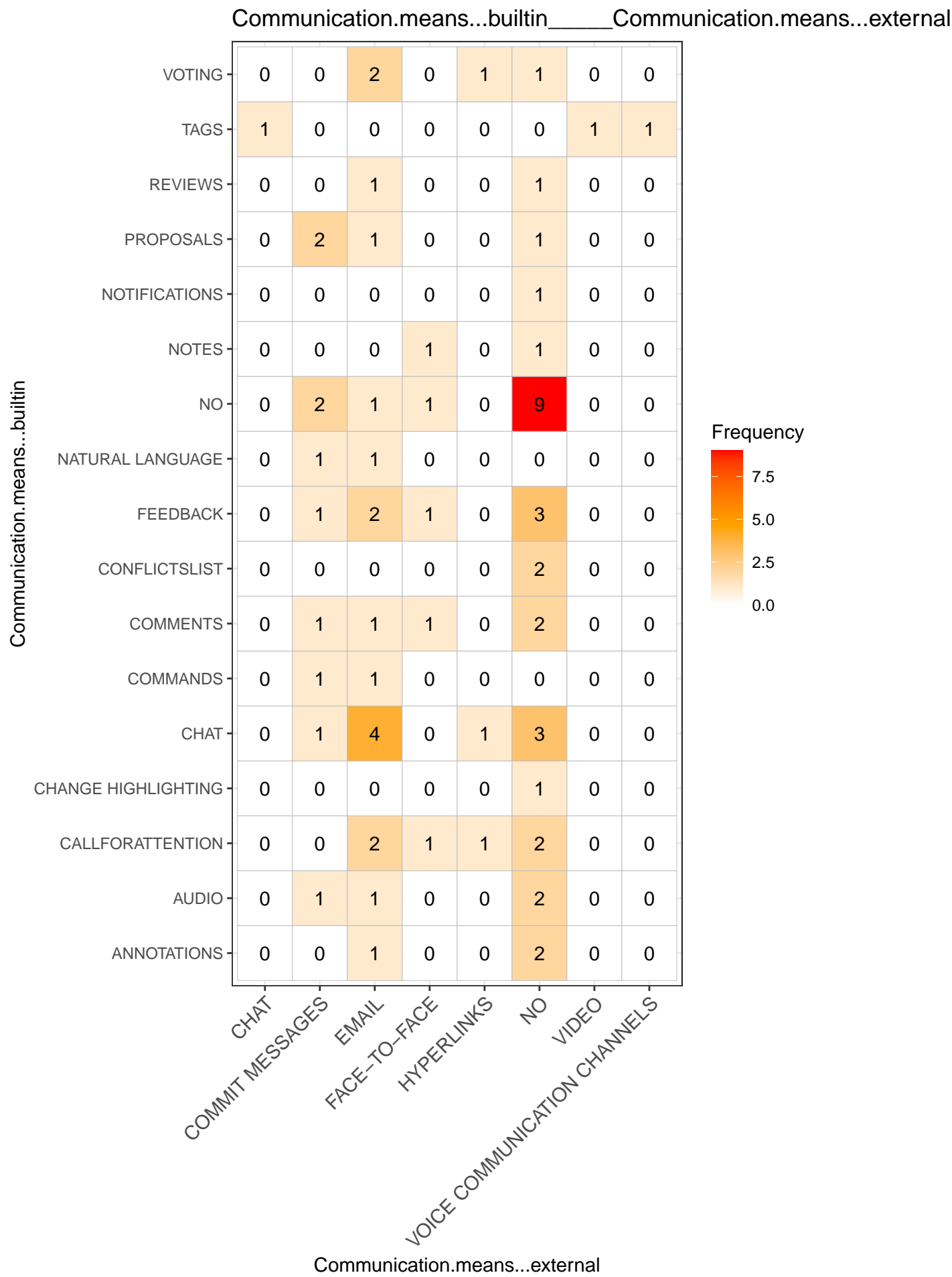


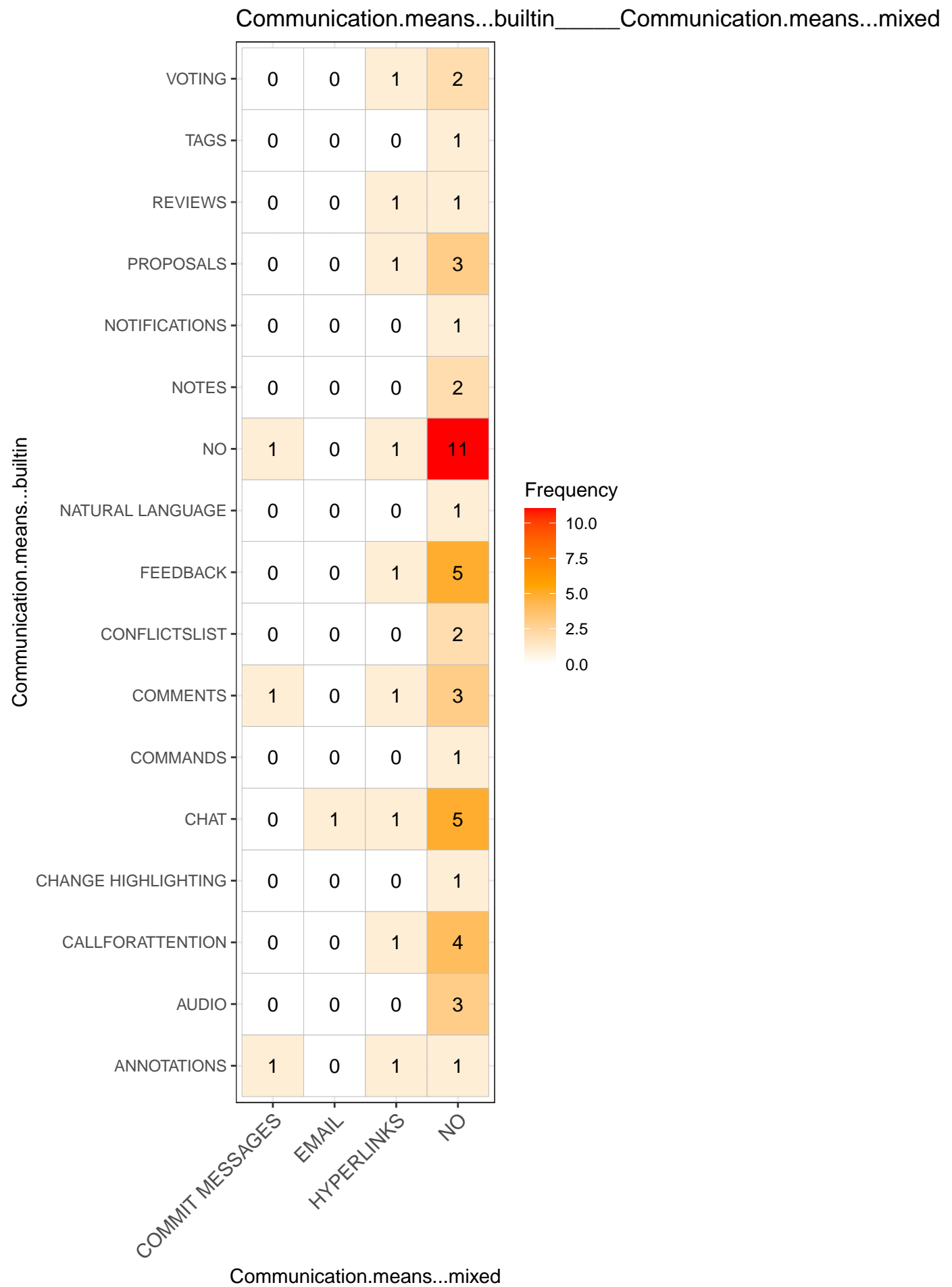


Communication.type_____Tool.availability

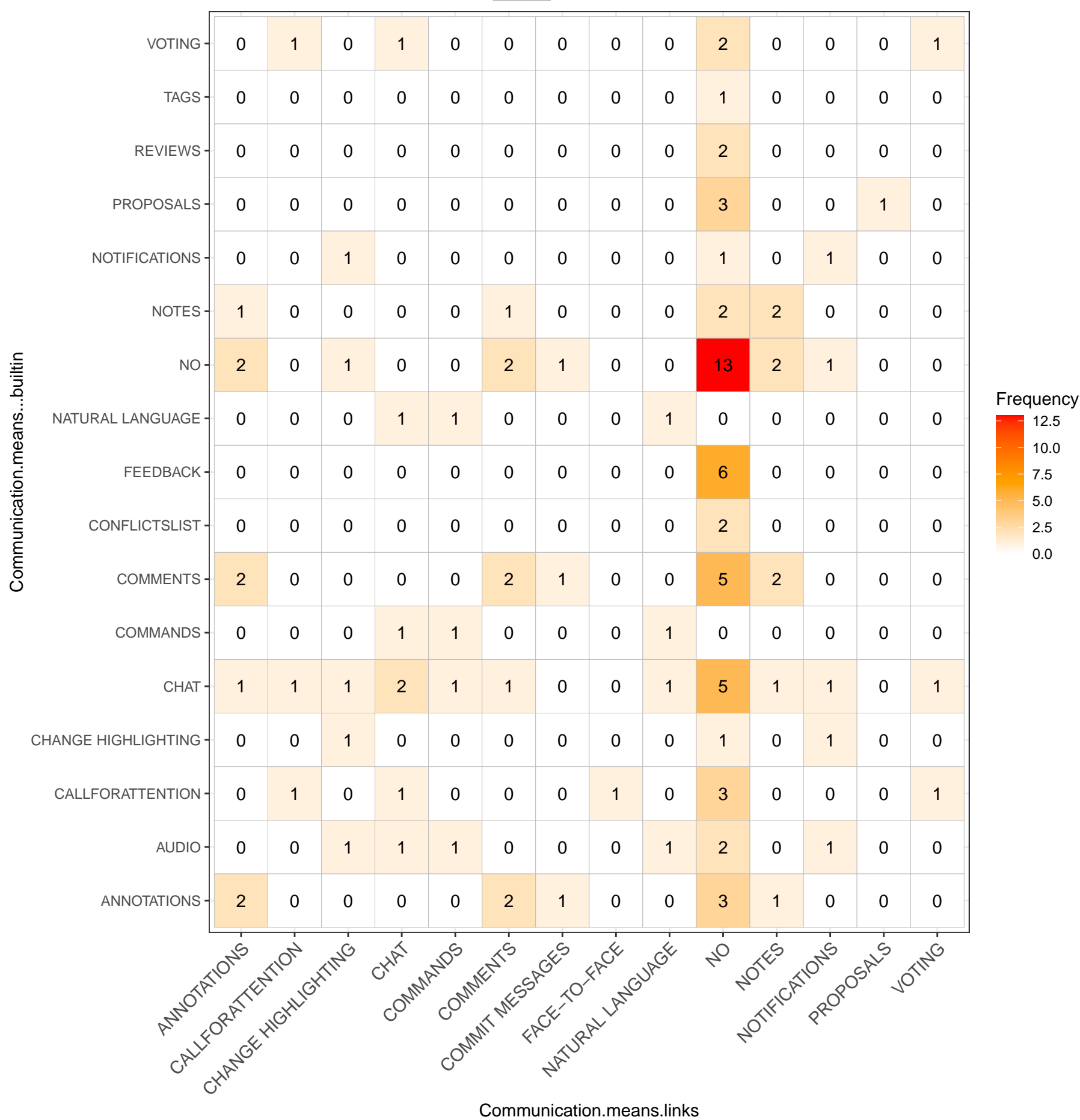


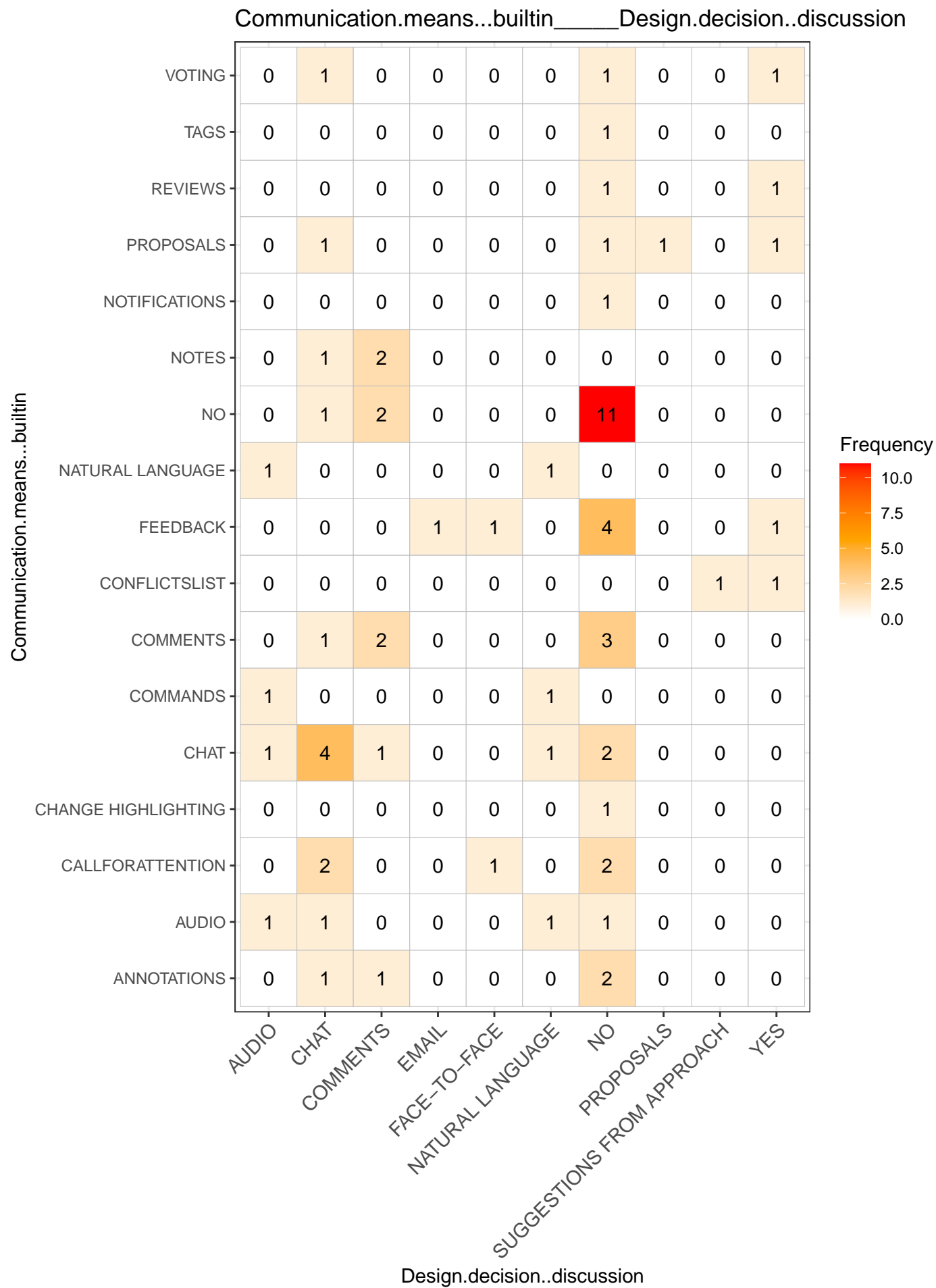


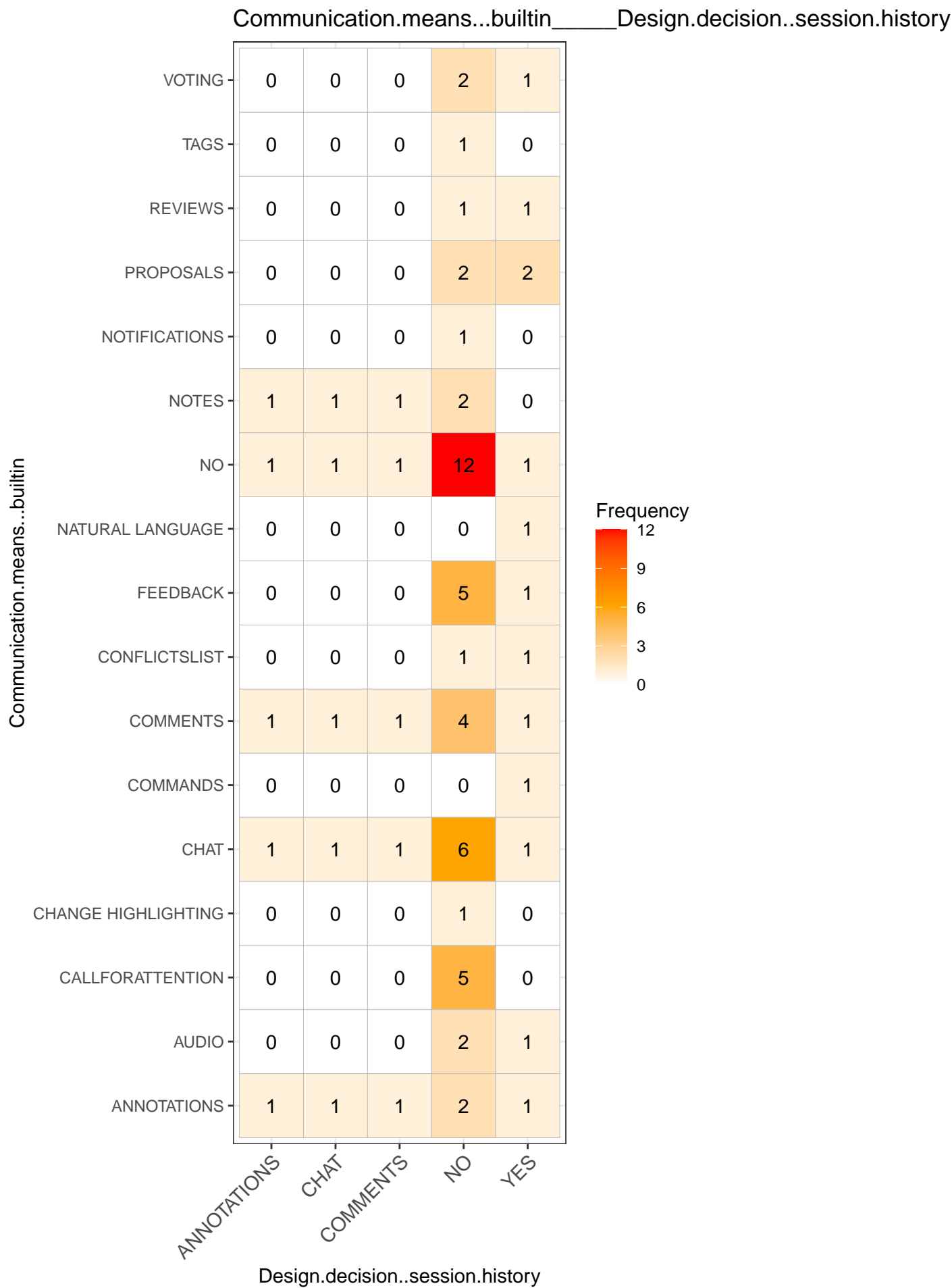




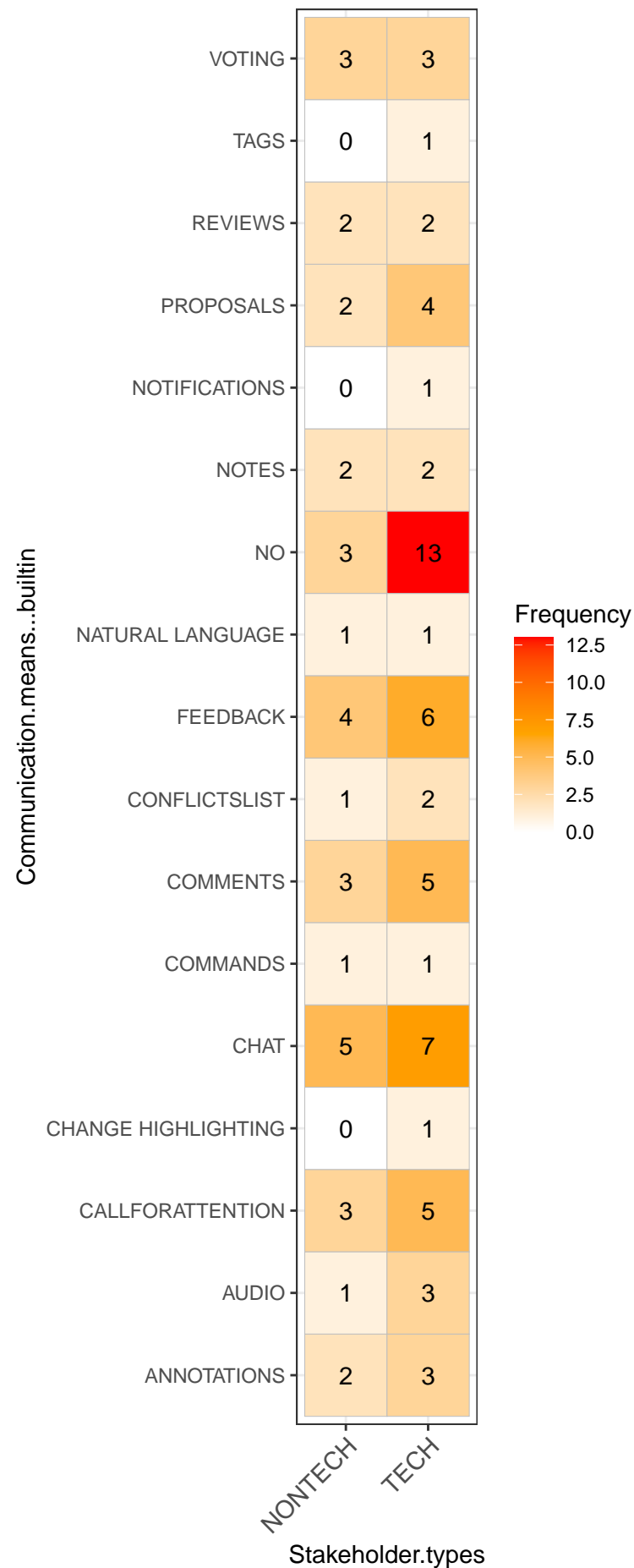
Communication.means....builtinCommunication.means.links





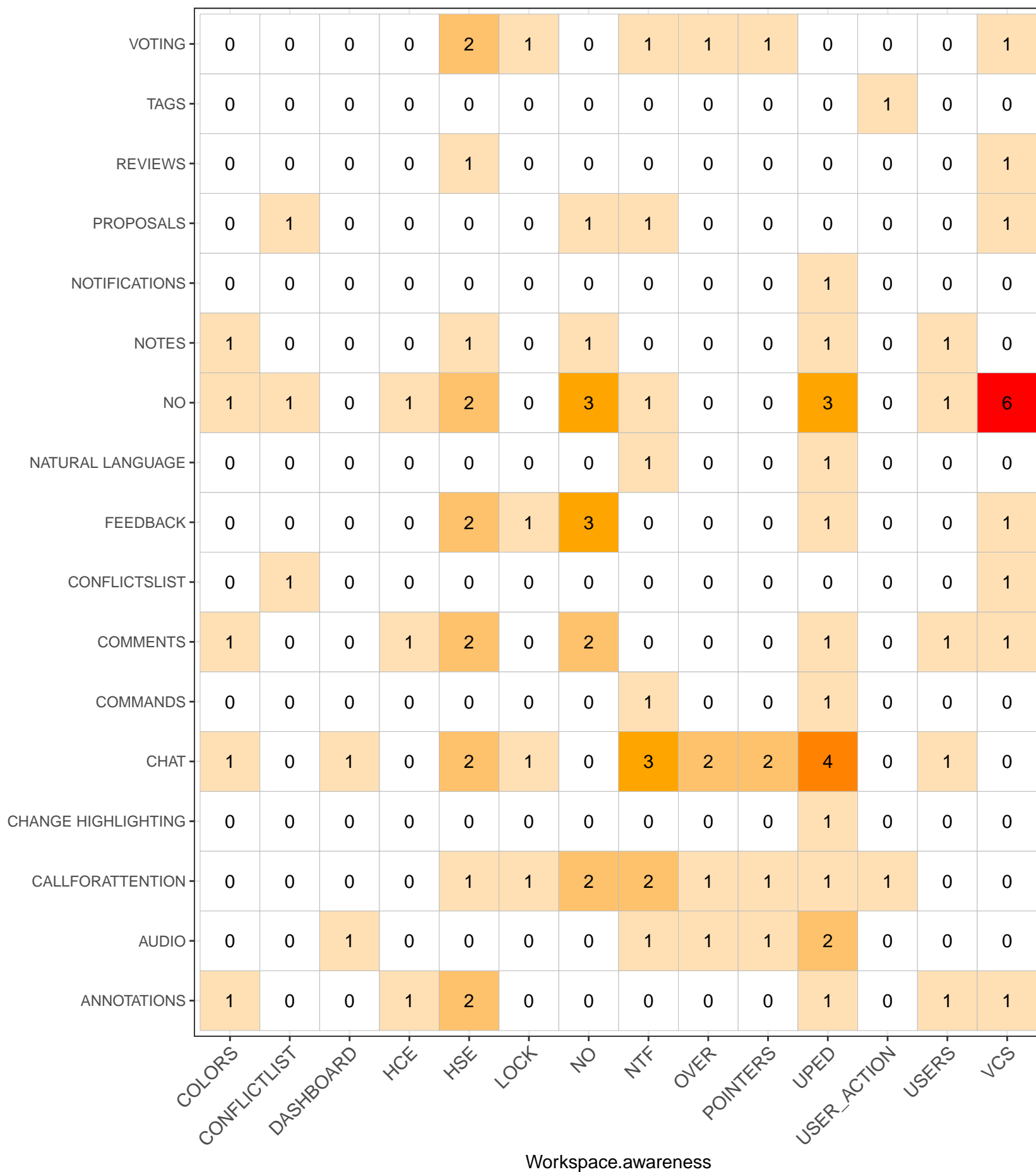


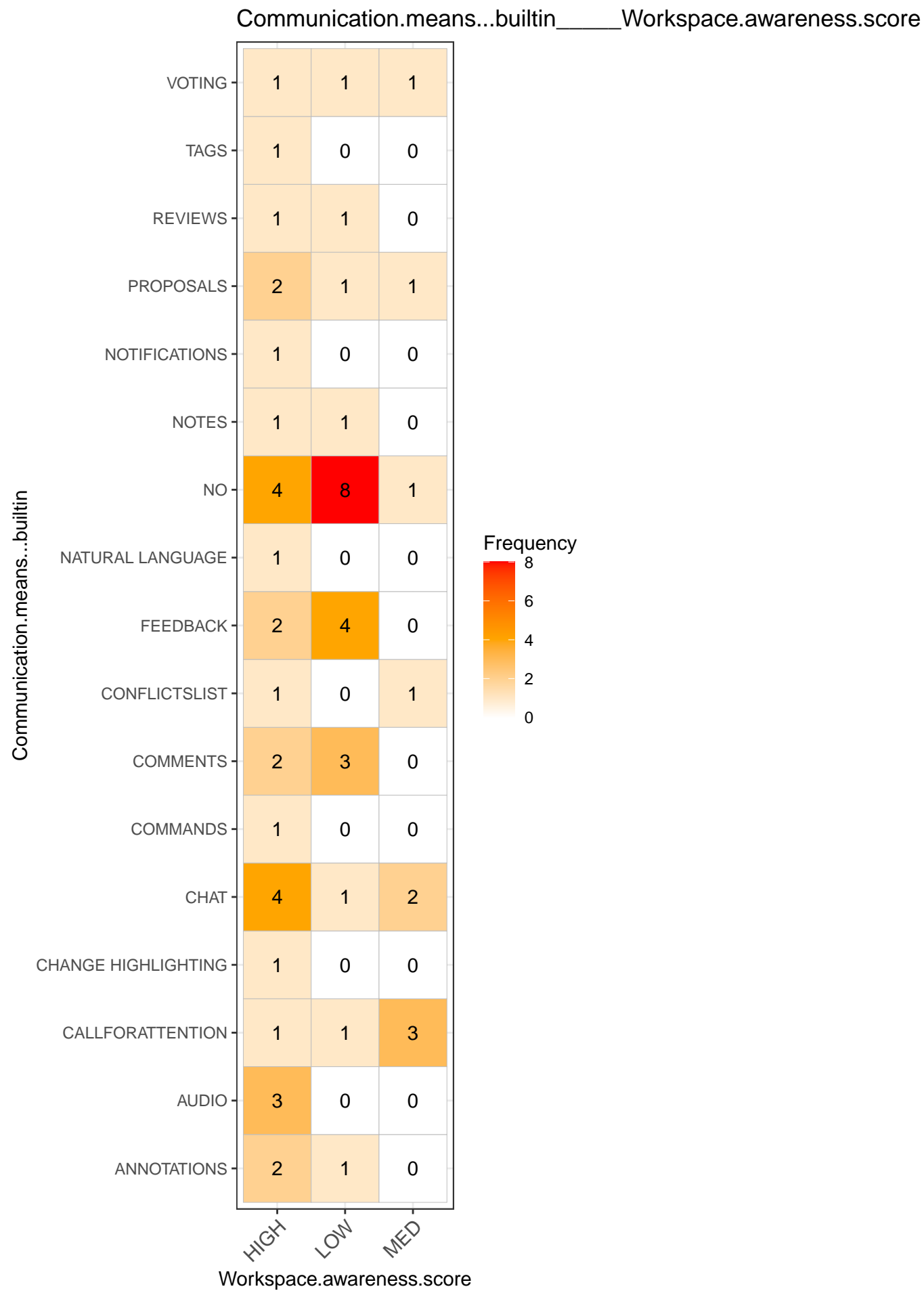
Communication.means...builtin_____Stakeholder.types



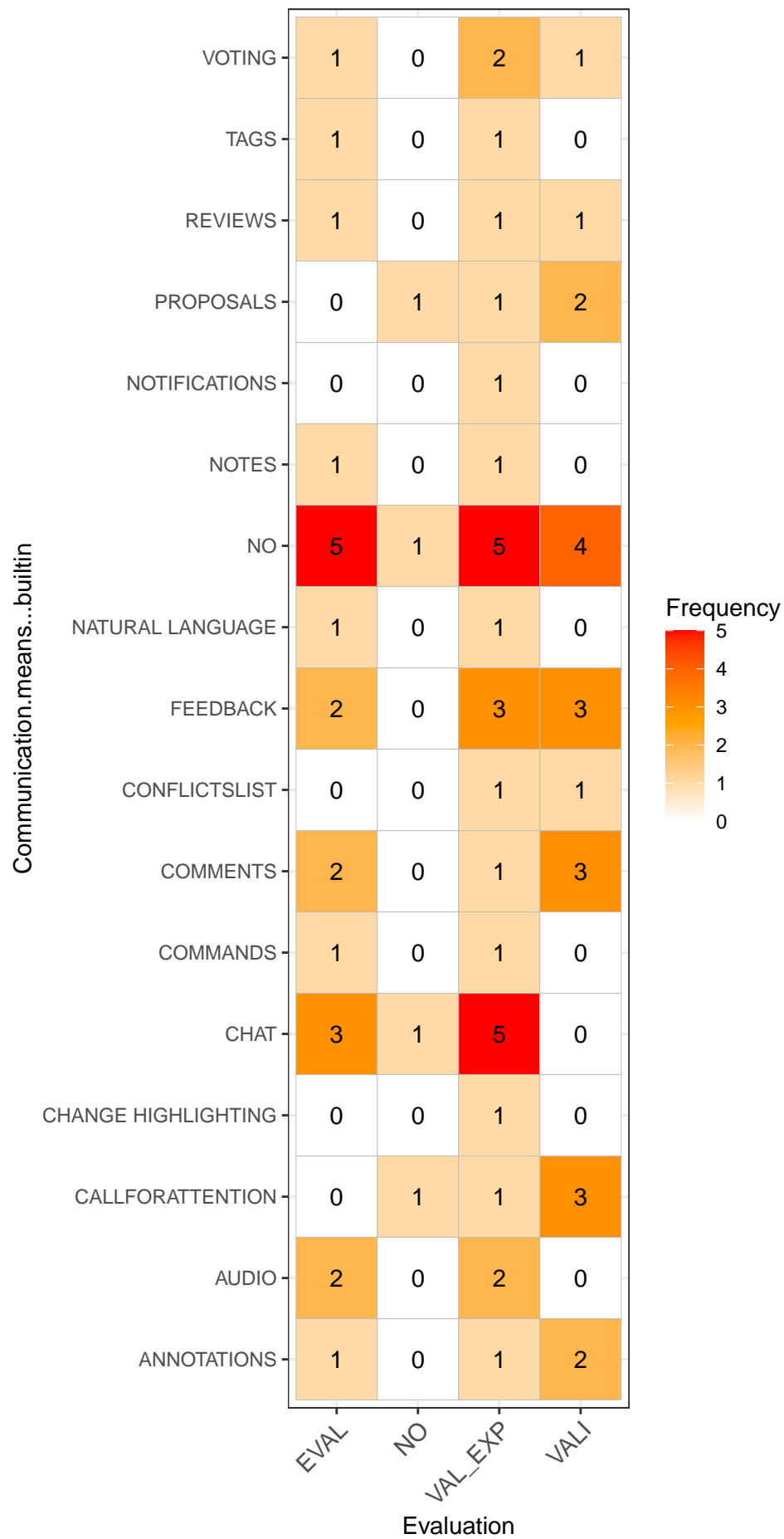
Communication.means...builtinWorkspace.awareness

Communication.means...builtin

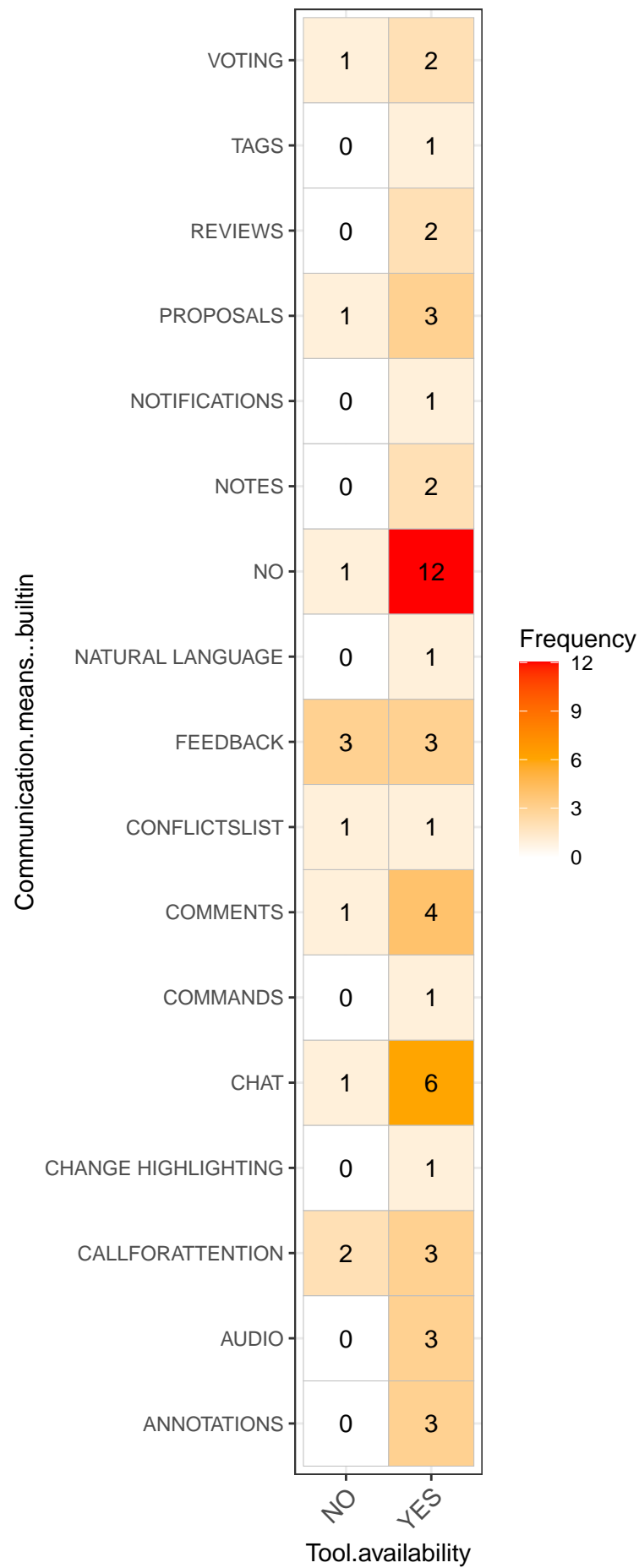




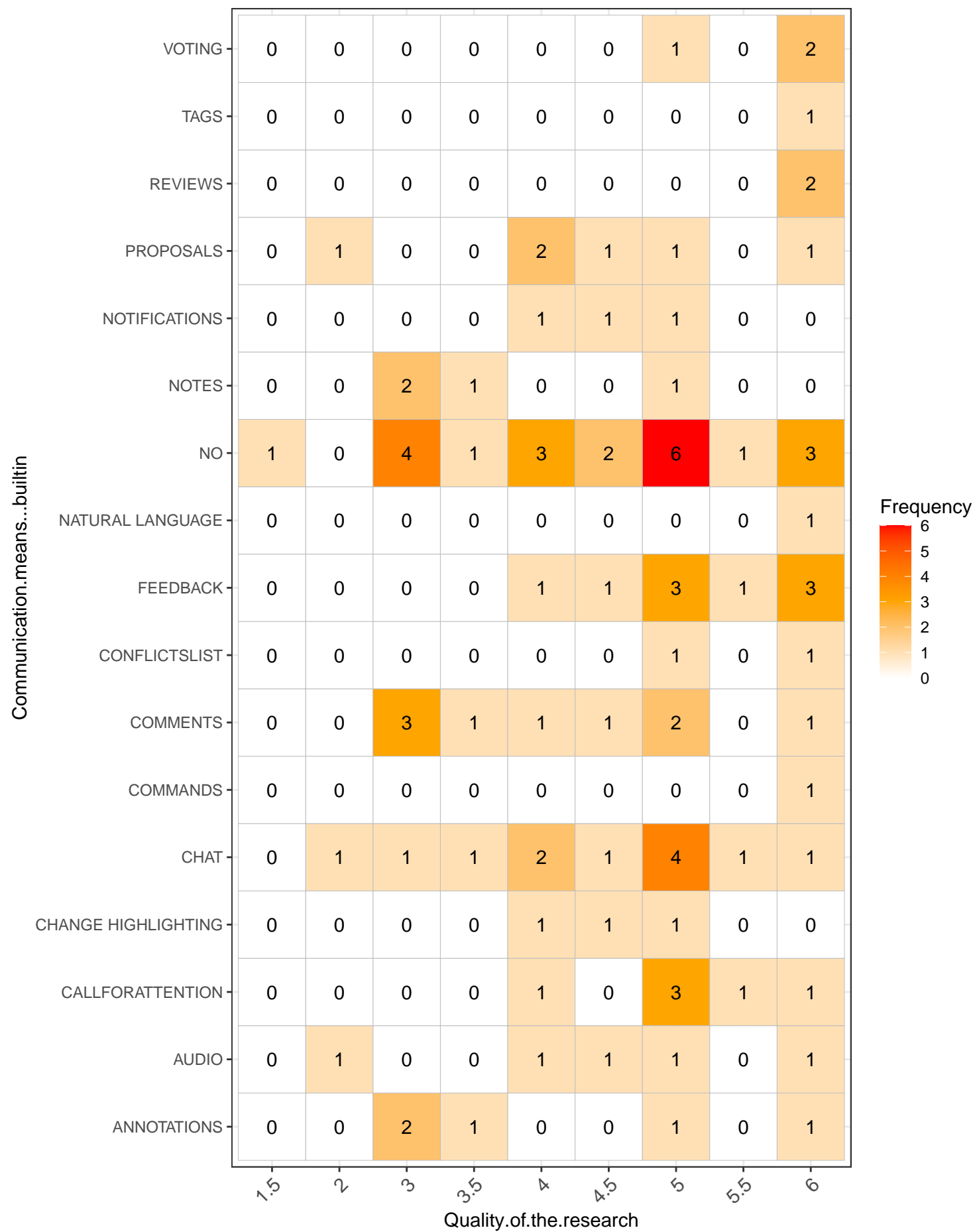
Communication.means...builtin_____Evaluation

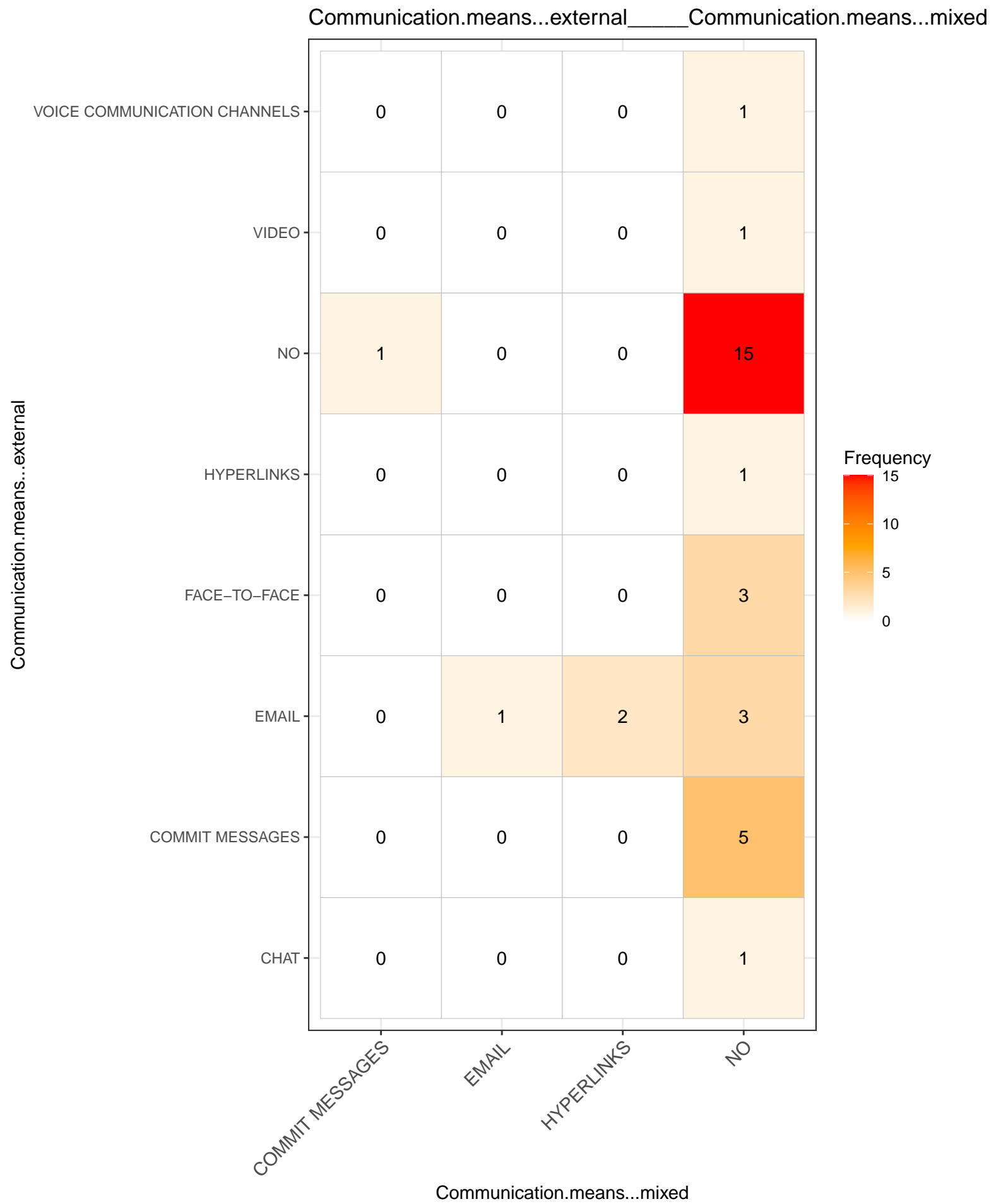


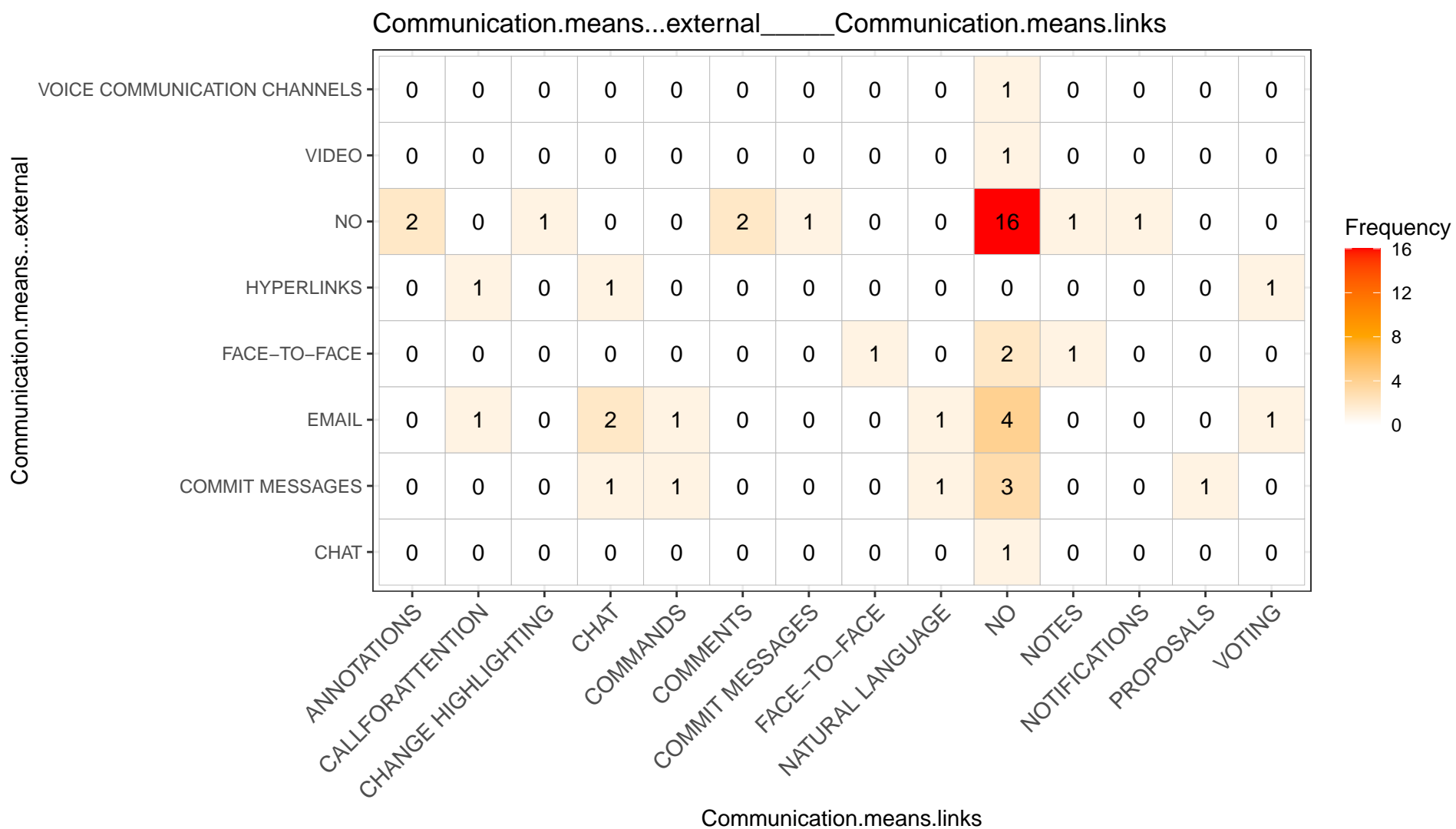
Communication.means...builtin_____Tool.availability

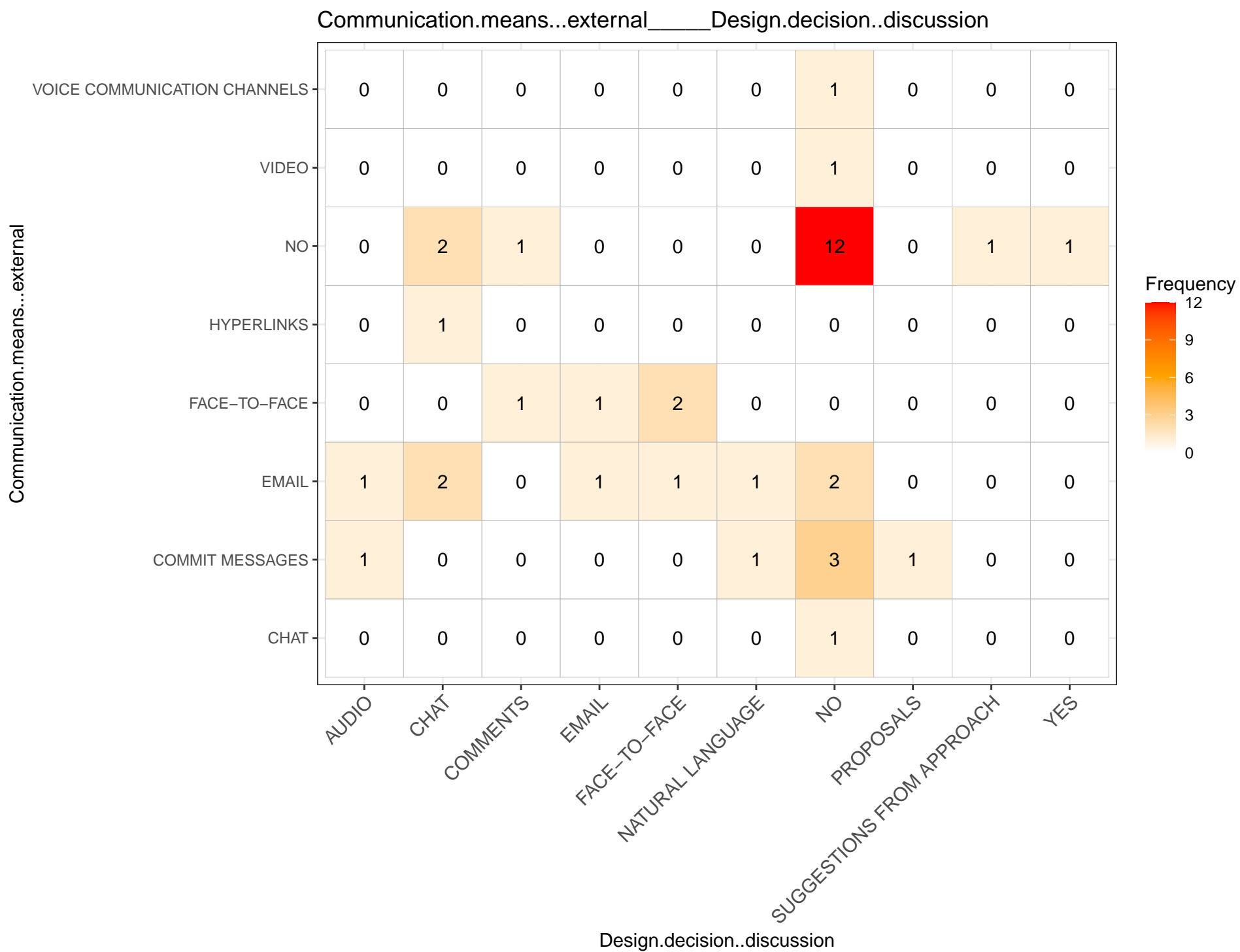


Communication.means...builtin_____Quality.of.the.research









Communication.means...external_____Design.decision..session.history

Communication.means...external

VOICE COMMUNICATION CHANNELS

VIDEO

NO

HYPERLINKS

FACE-TO-FACE

EMAIL

COMMIT MESSAGES

CHAT

ANNOTATIONS

CHAT

COMMENTS

NO

YES

Design.decision..session.history

Frequency

10

5

0

0

0

0

1

0

0

0

0

1

0

1

1

1

14

2

0

0

0

1

0

0

0

0

3

0

0

0

0

5

1

0

0

0

3

2

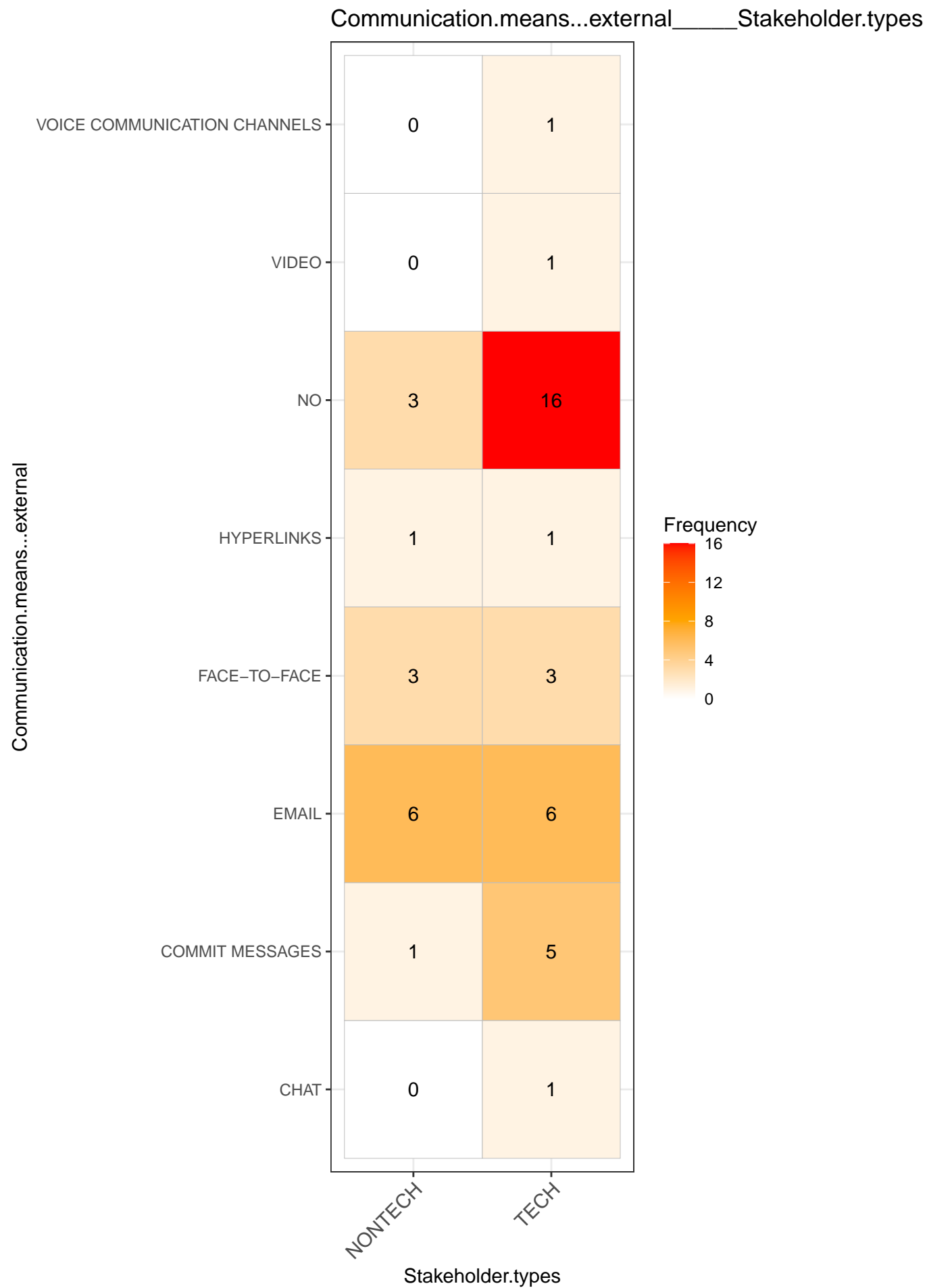
0

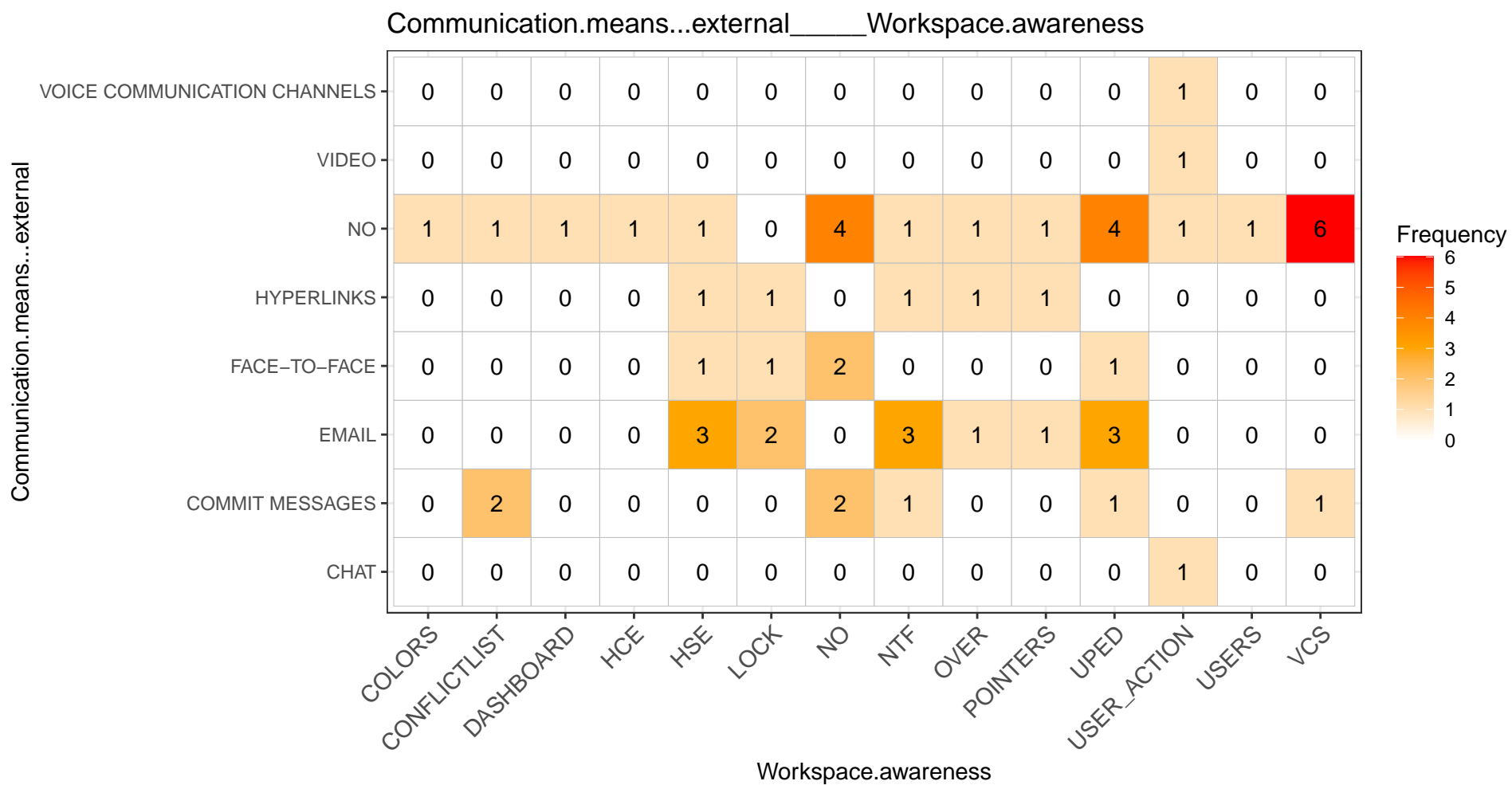
0

0

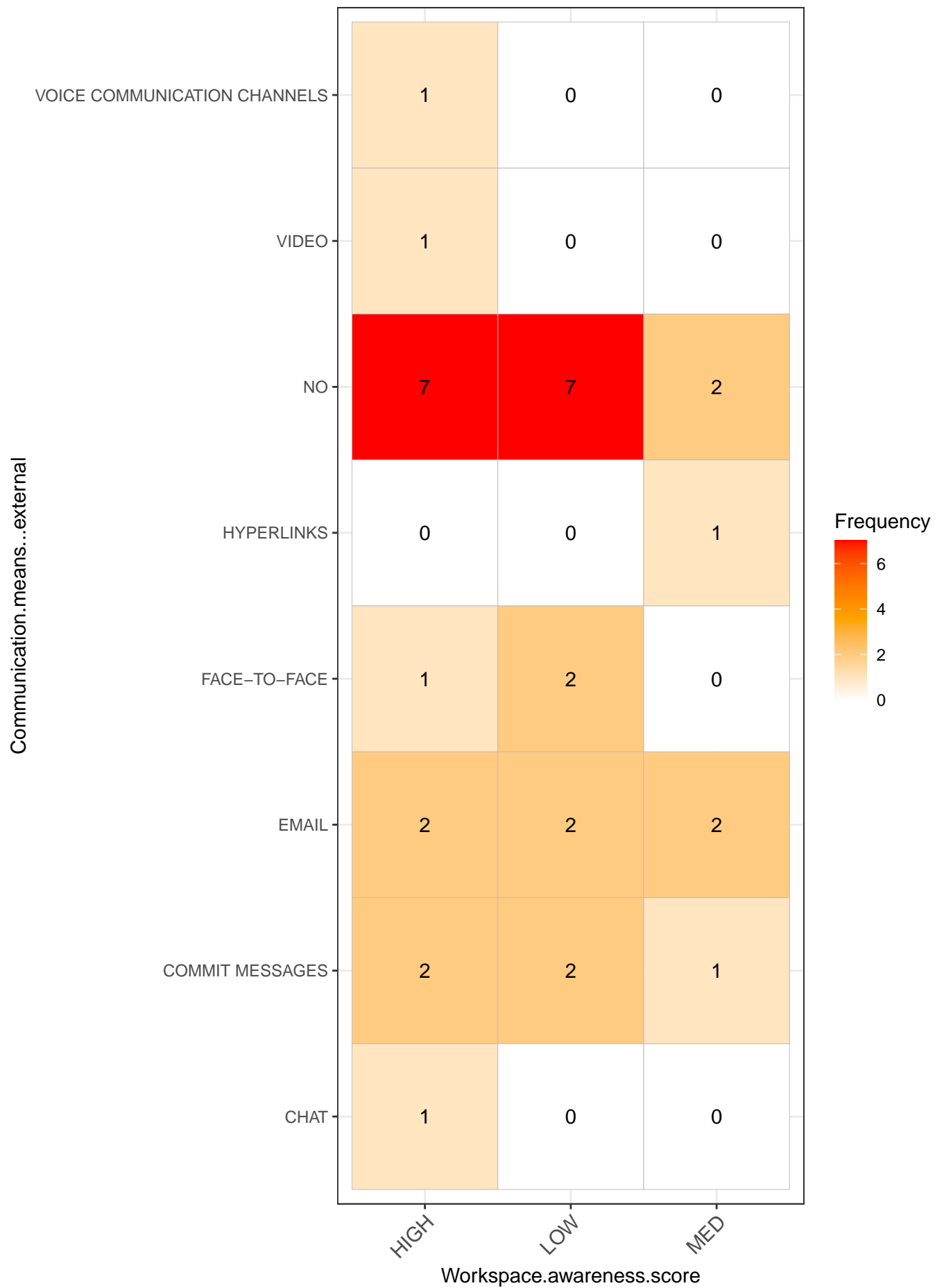
1

0

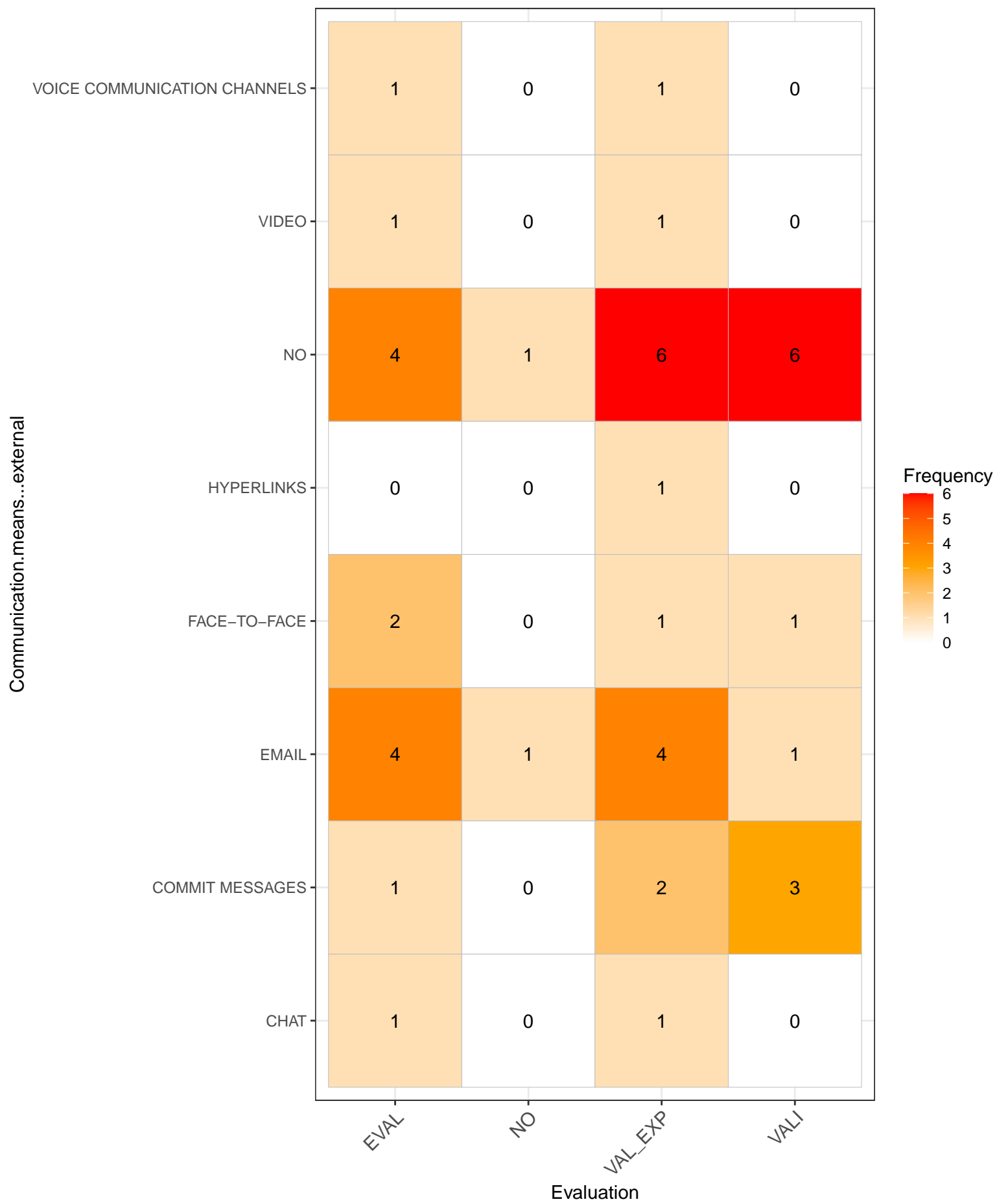




Communication.means...external_____Workspace.awareness.score



Communication.means...external_____Evaluation



Communication.means...external_____Tool.availability

Communication.means...external

VOICE COMMUNICATION CHANNELS

VIDEO

NO

HYPERLINKS

FACE-TO-FACE

EMAIL

COMMIT MESSAGES

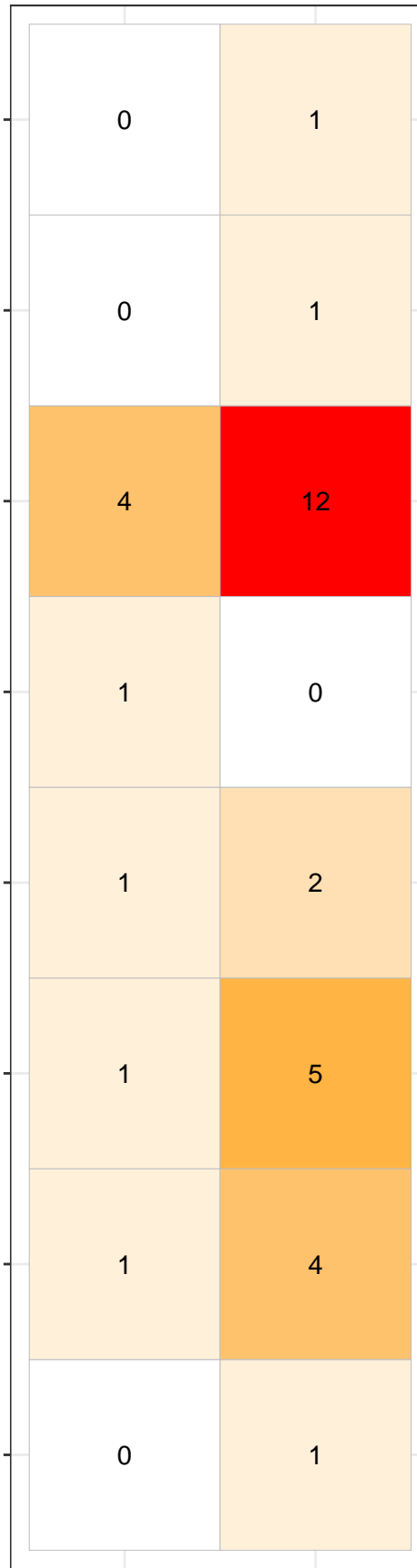
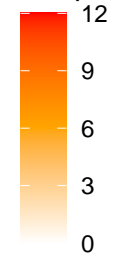
CHAT

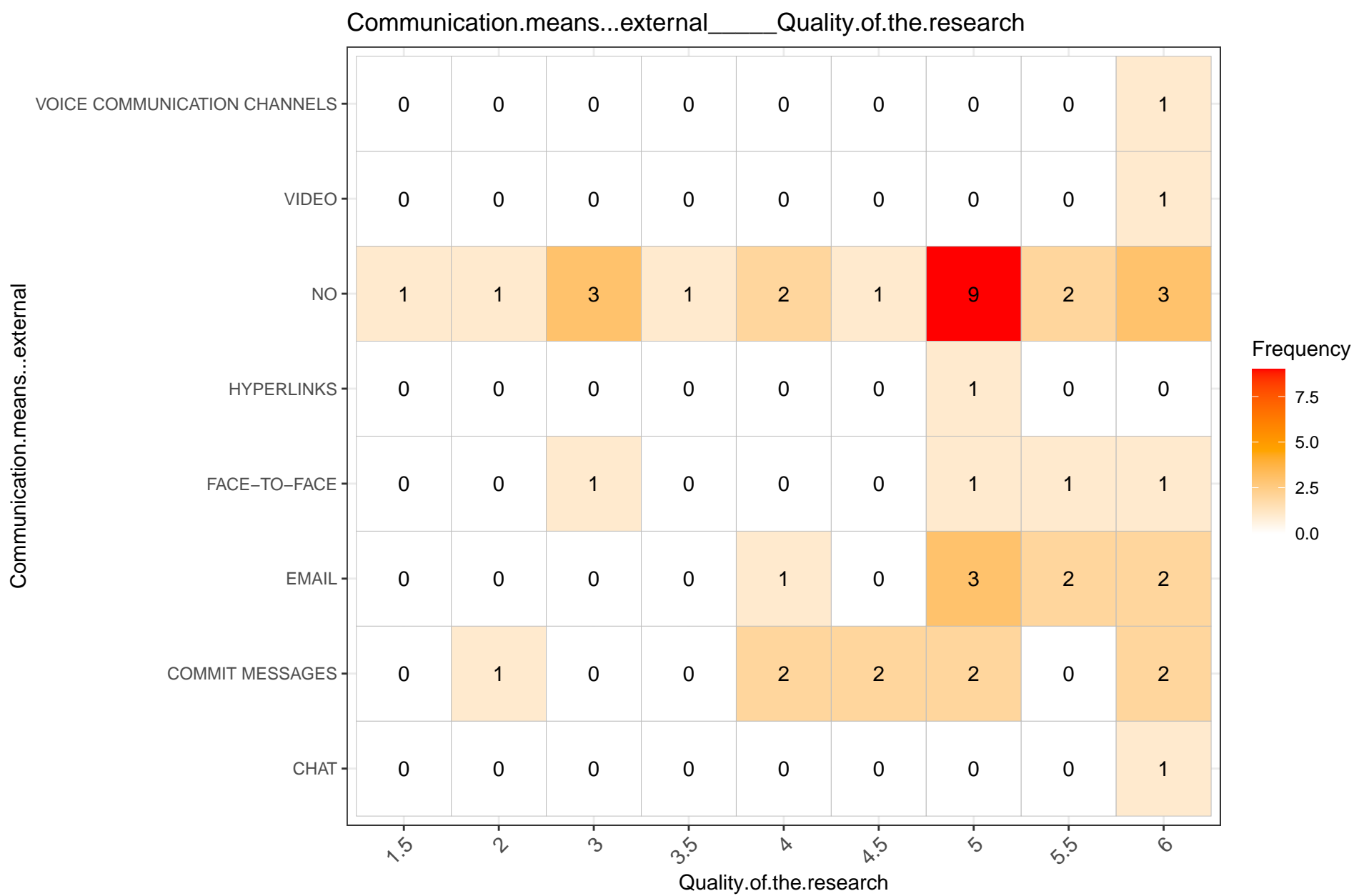
NO

YES

Tool.availability

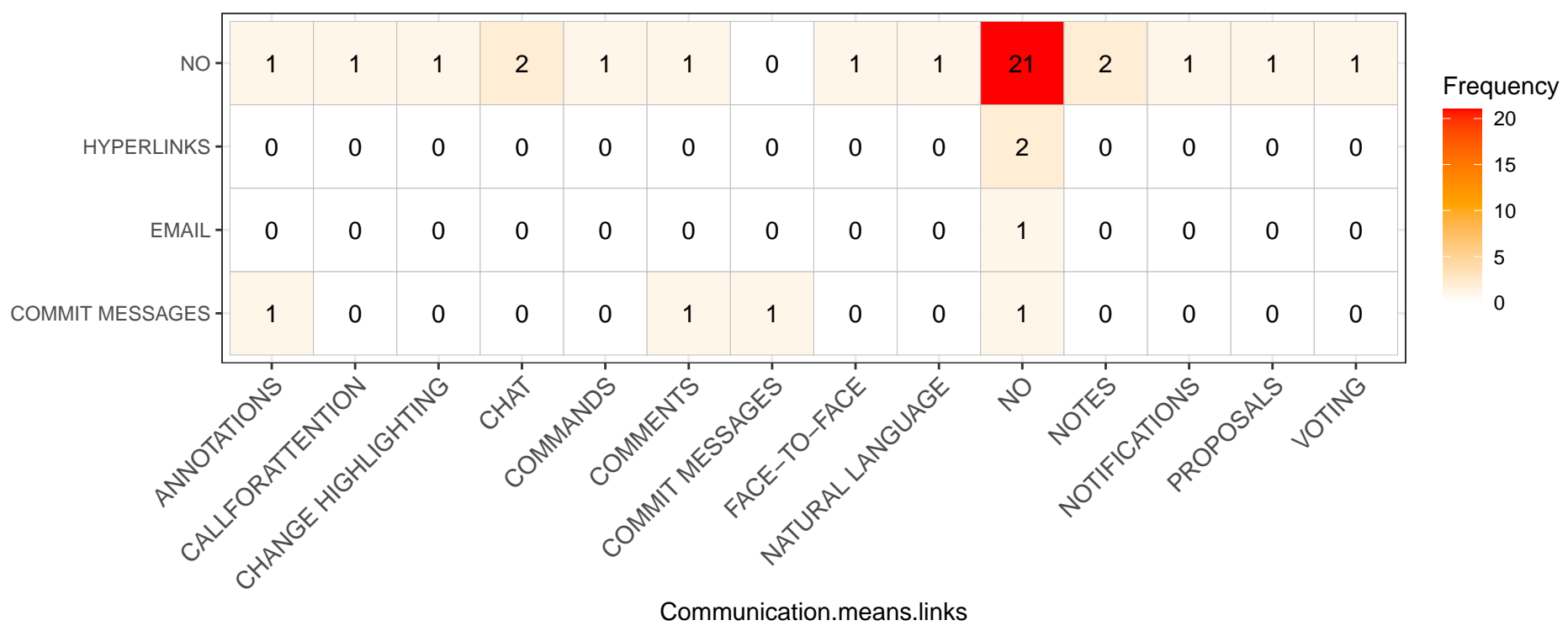
Frequency

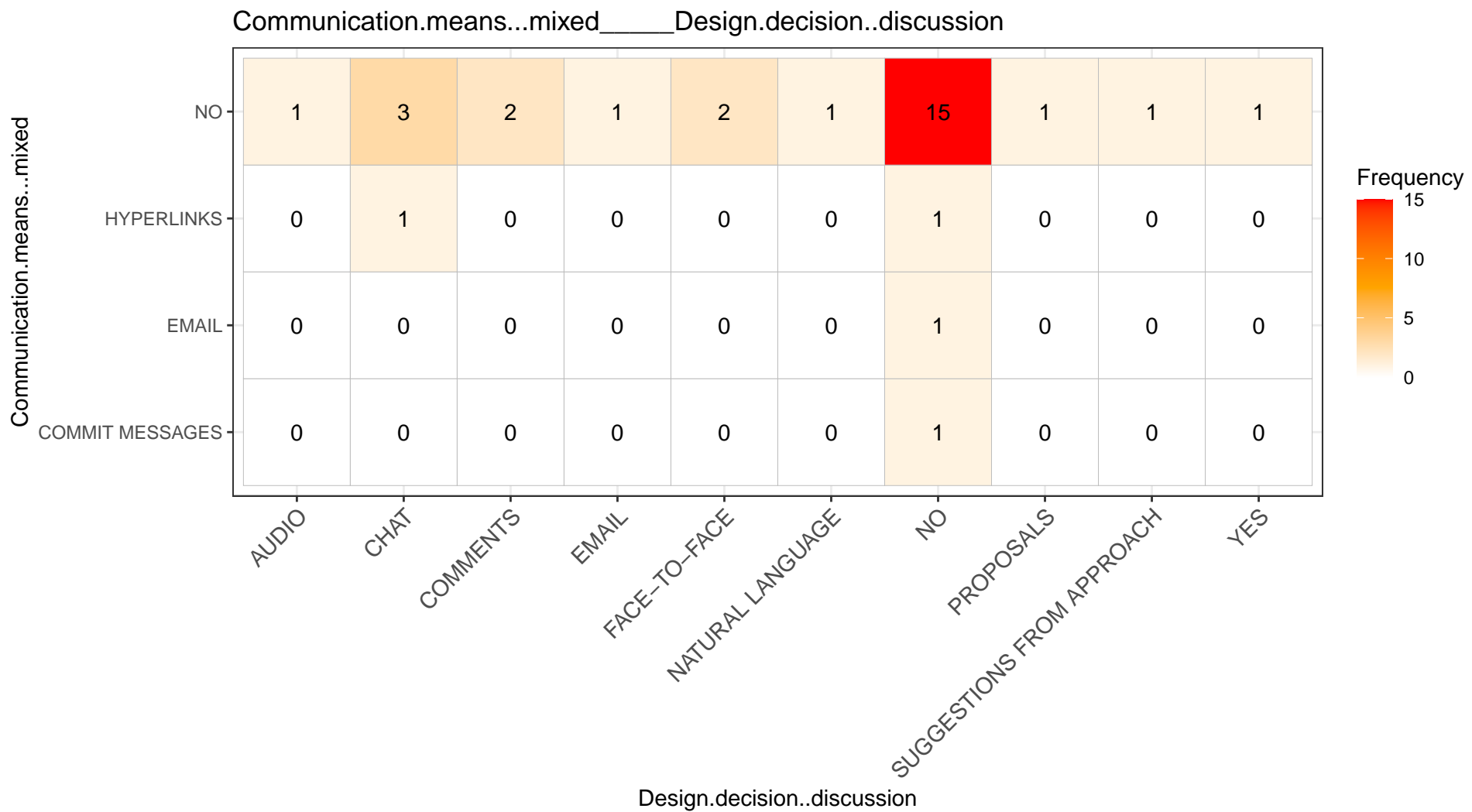


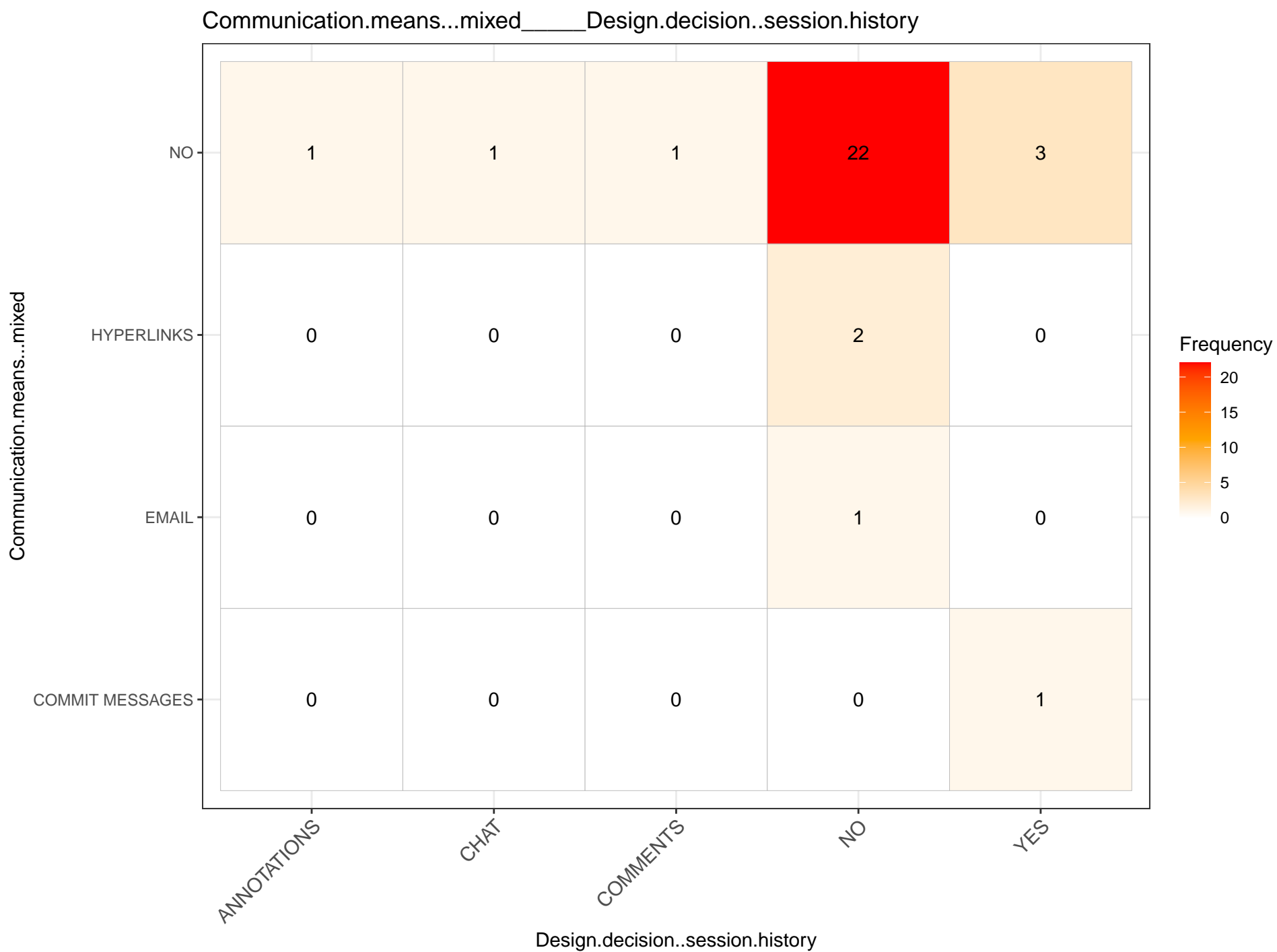


Communication.means...mixed

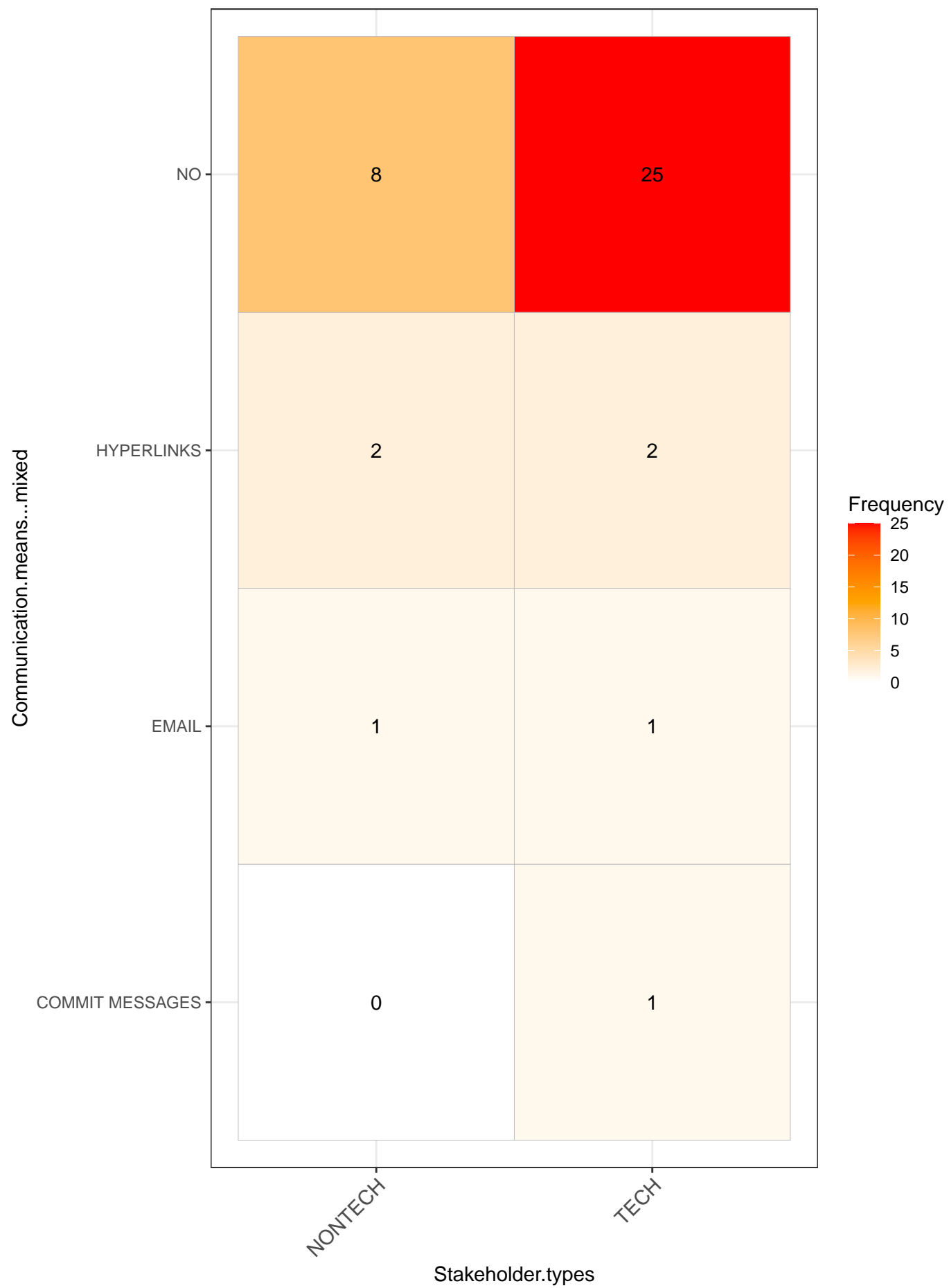
Communication.means...mixed_____Communication.means.links

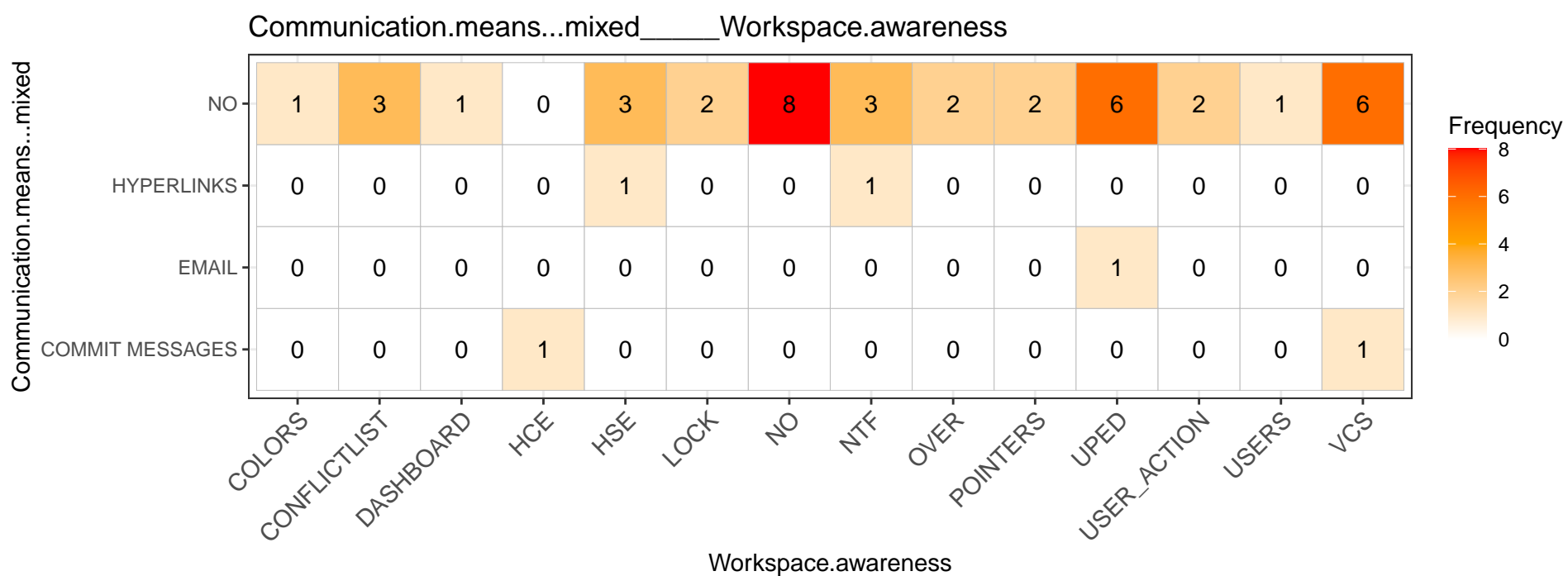




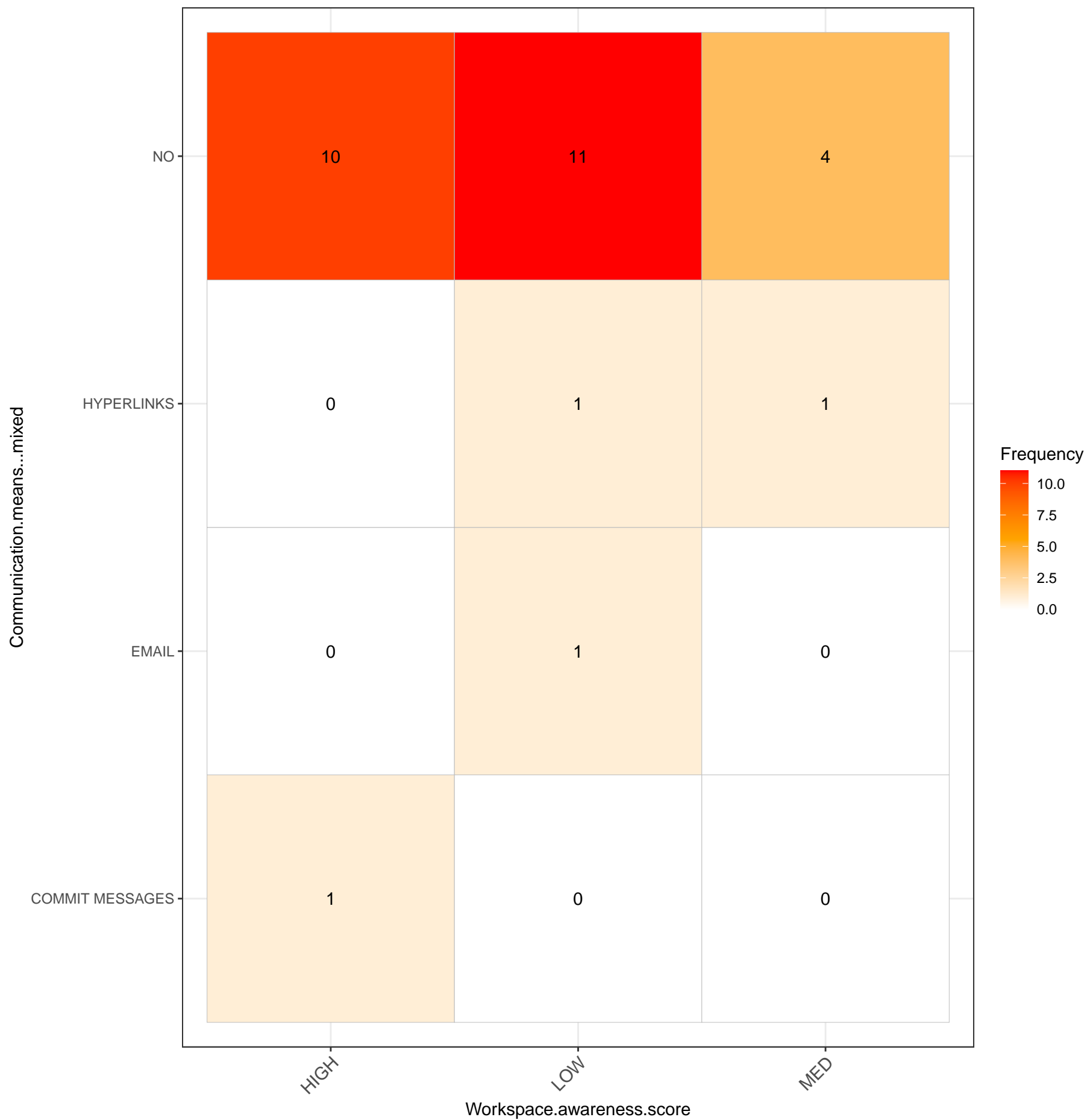


Communication.means...mixed_____Stakeholder.types





Communication.means...mixed_____Workspace.awareness.score



Communication.means...mixed_____Evaluation

Communication.means...mixed

NO

8

1

11

9

HYPERLINKS

1

1

0

1

EMAIL

1

0

1

0

COMMIT MESSAGES

0

0

0

1

EVAL

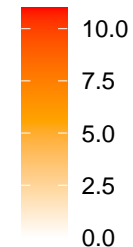
NO

VAL_EXP

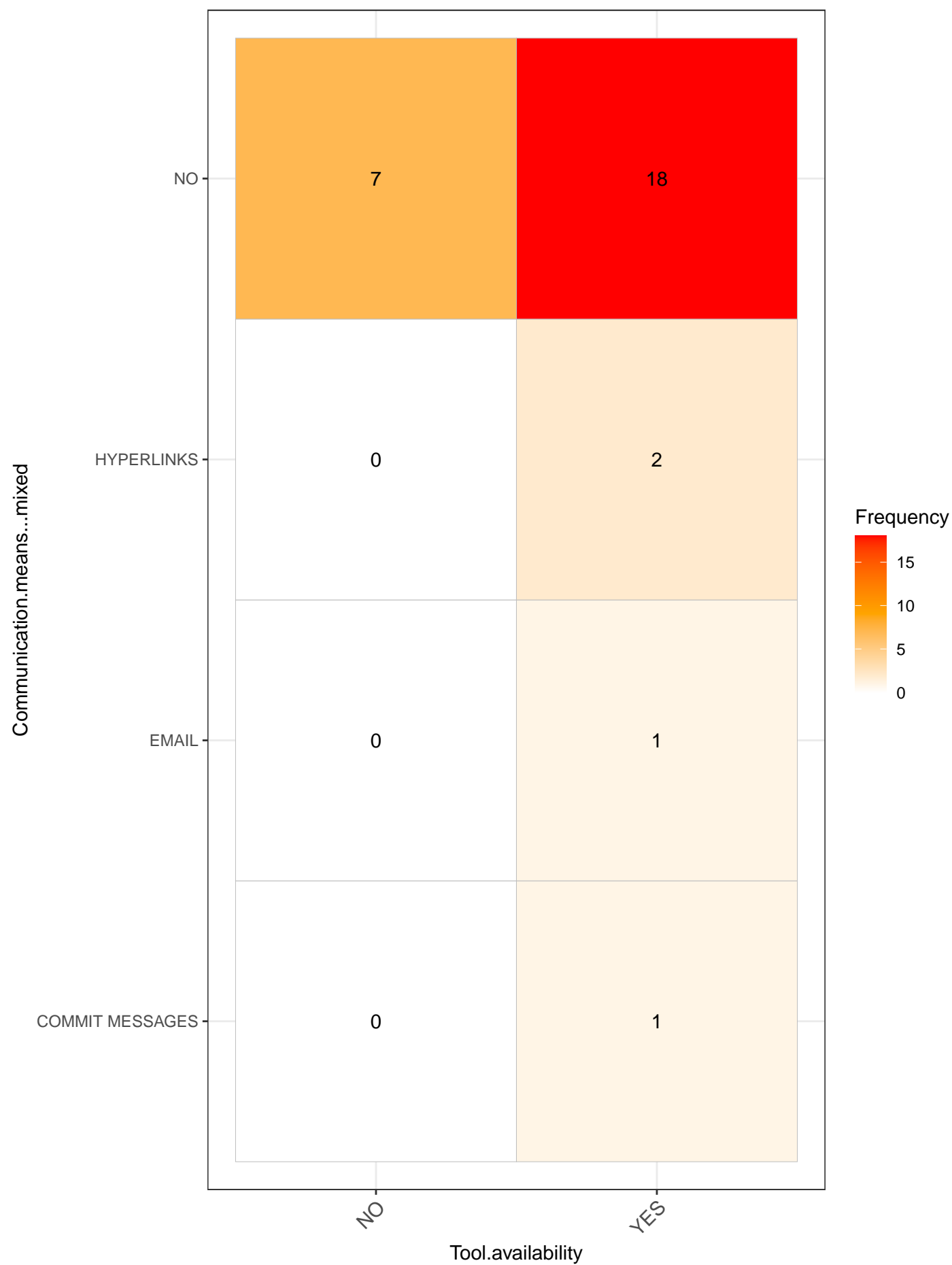
VALI

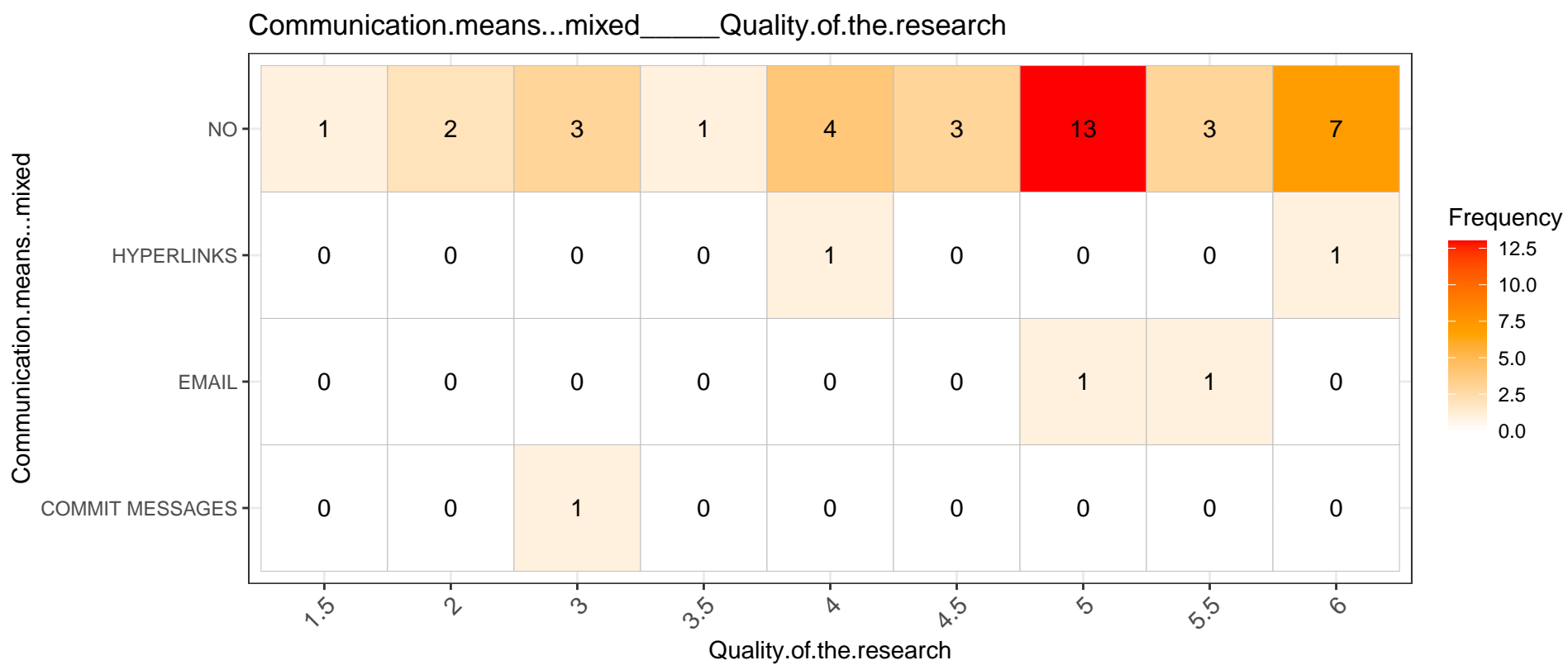
Evaluation

Frequency

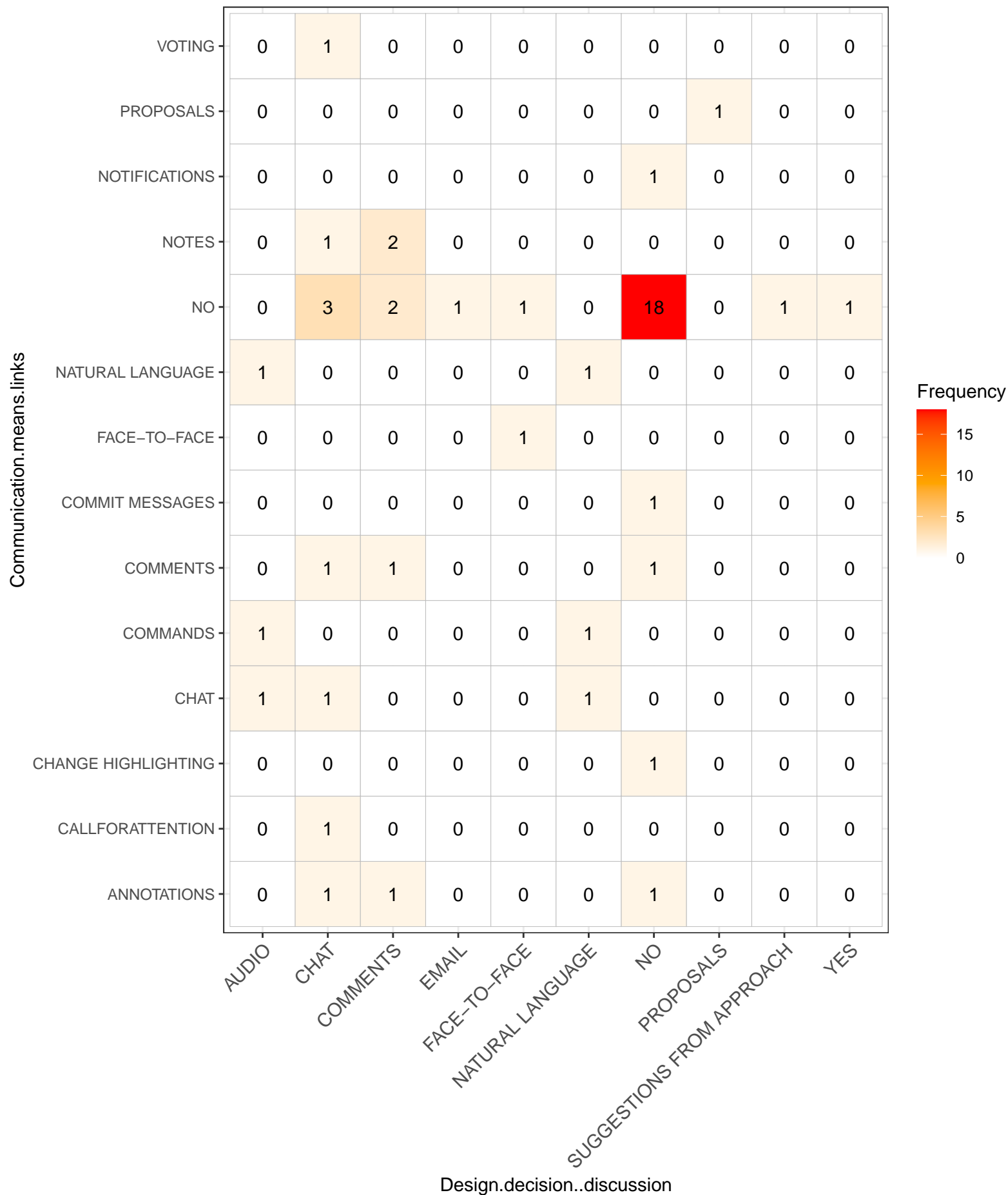


Communication.means...mixed_____Tool.availability

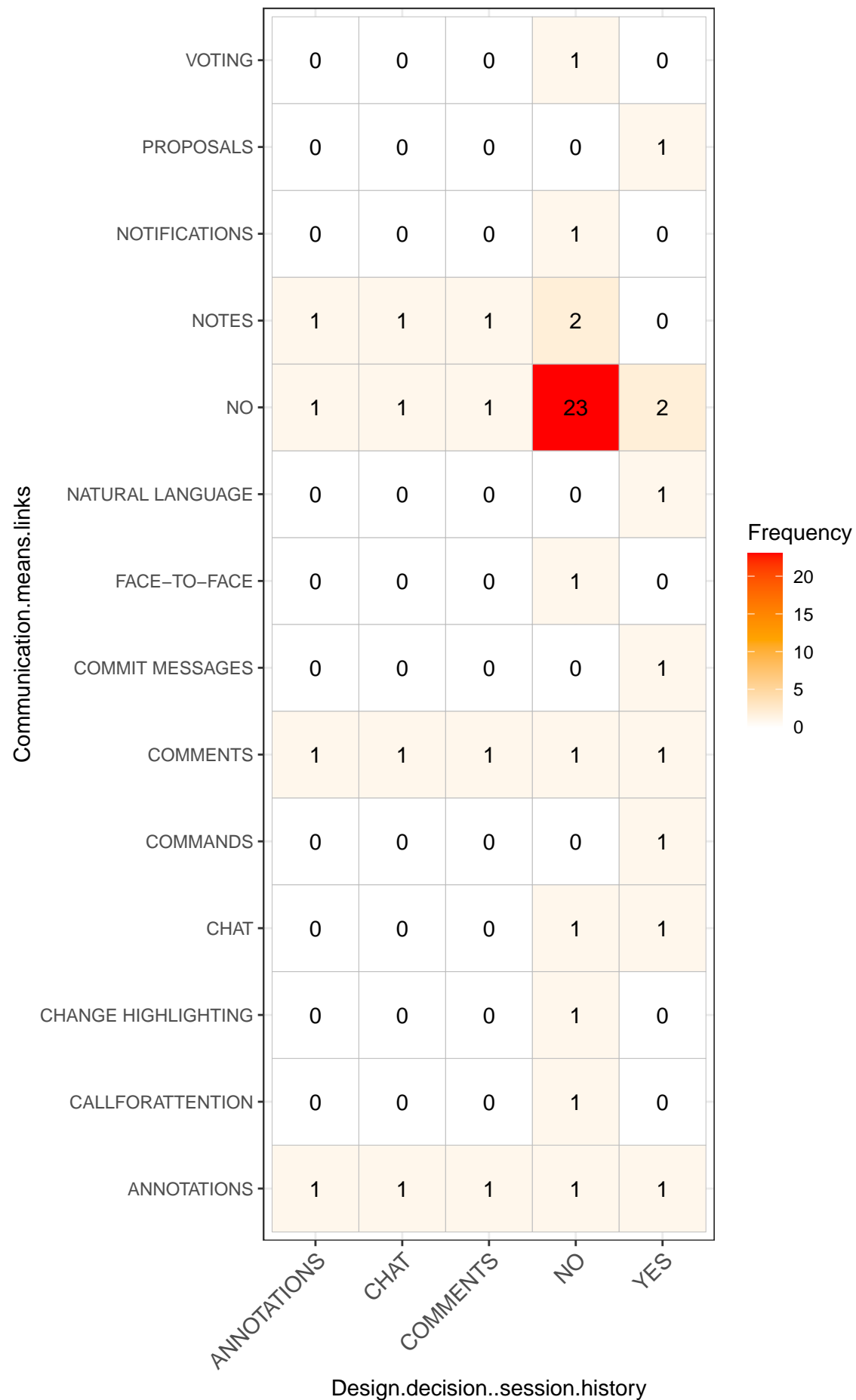


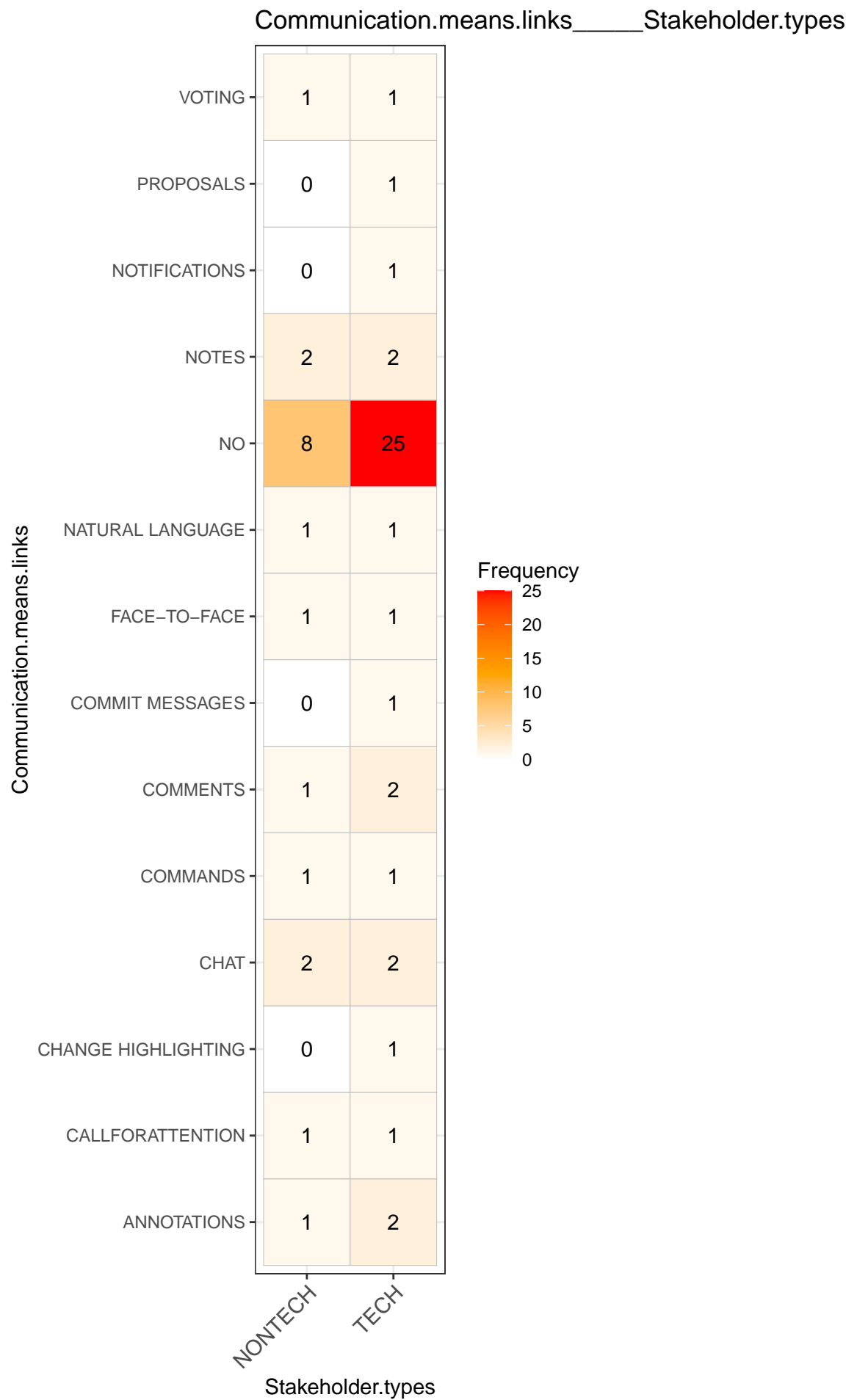


Communication.means.links_____Design.decision..discussion



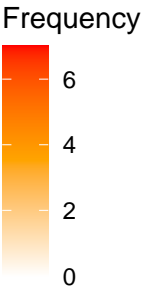
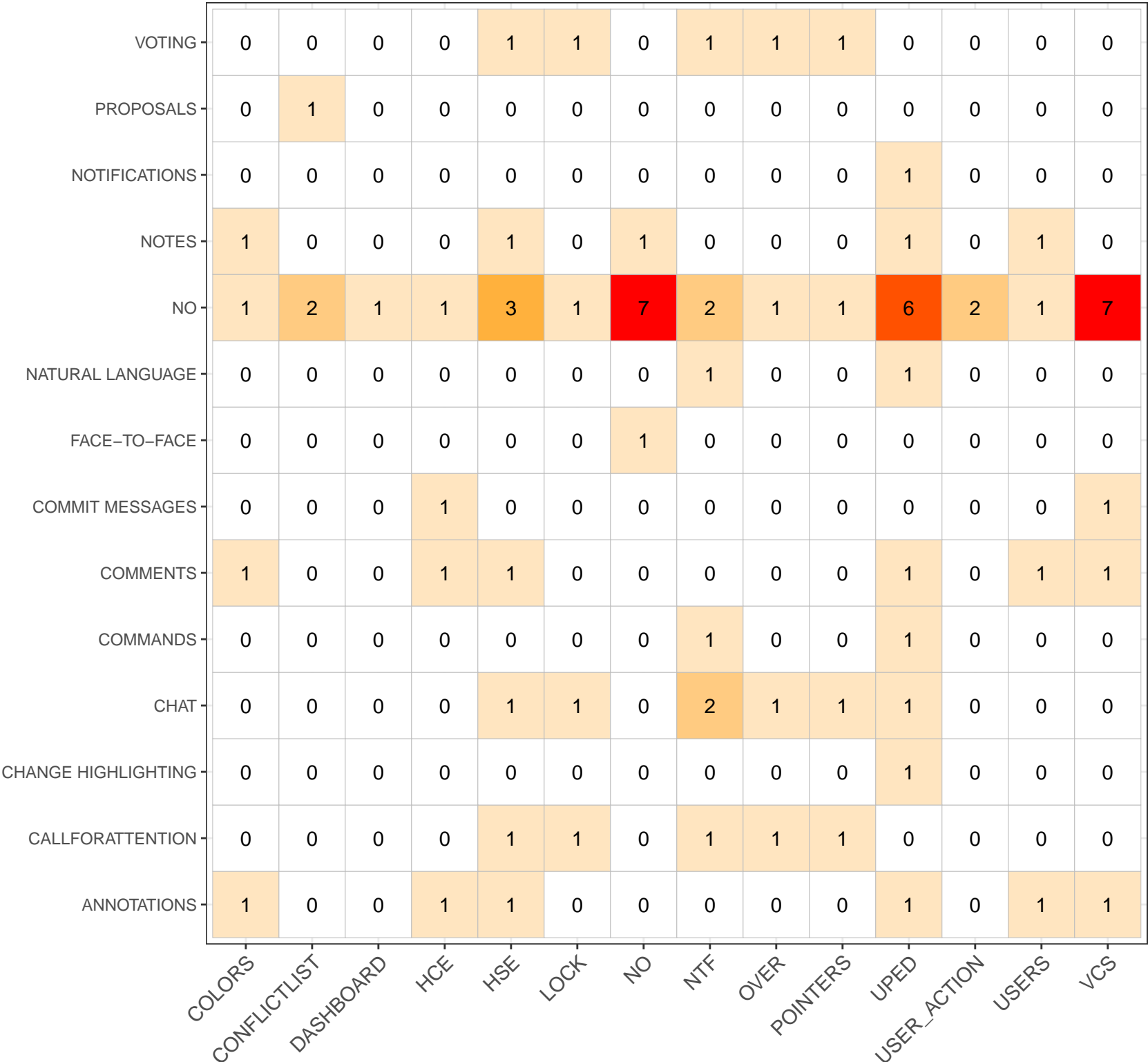
Communication.means.links_____Design.decision..session.history



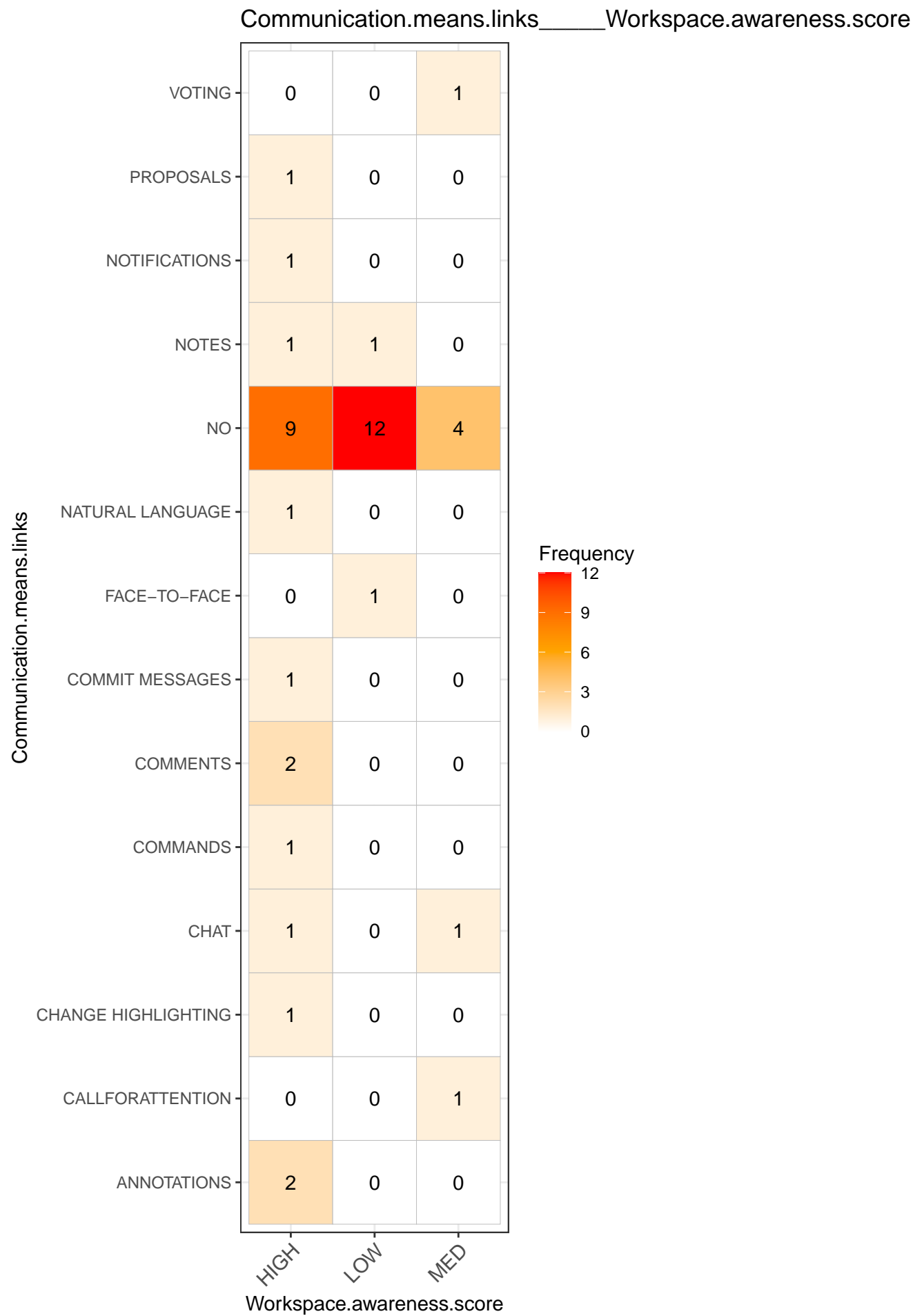


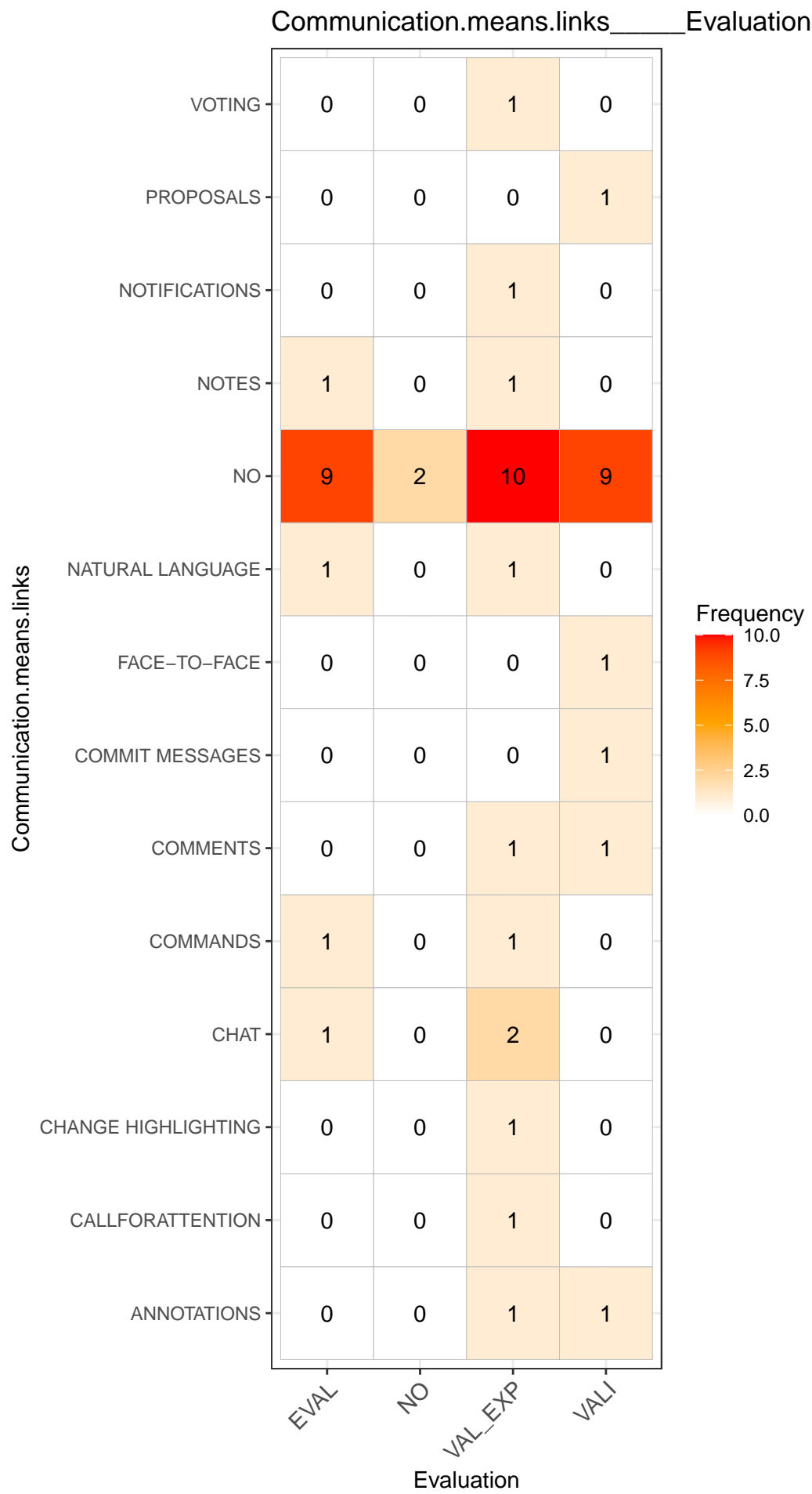
Communication.means.links_____Workspace.awareness

Communication.means.links

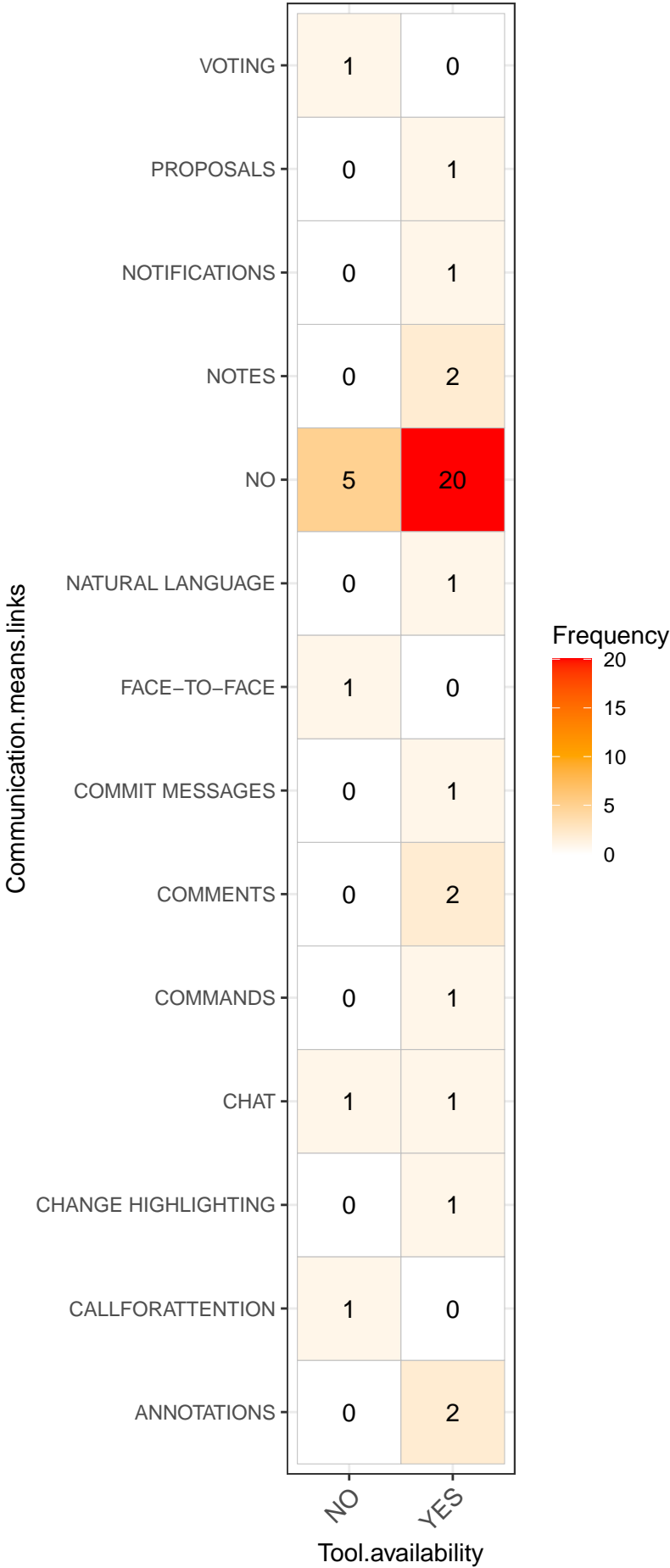


Workspace.awareness

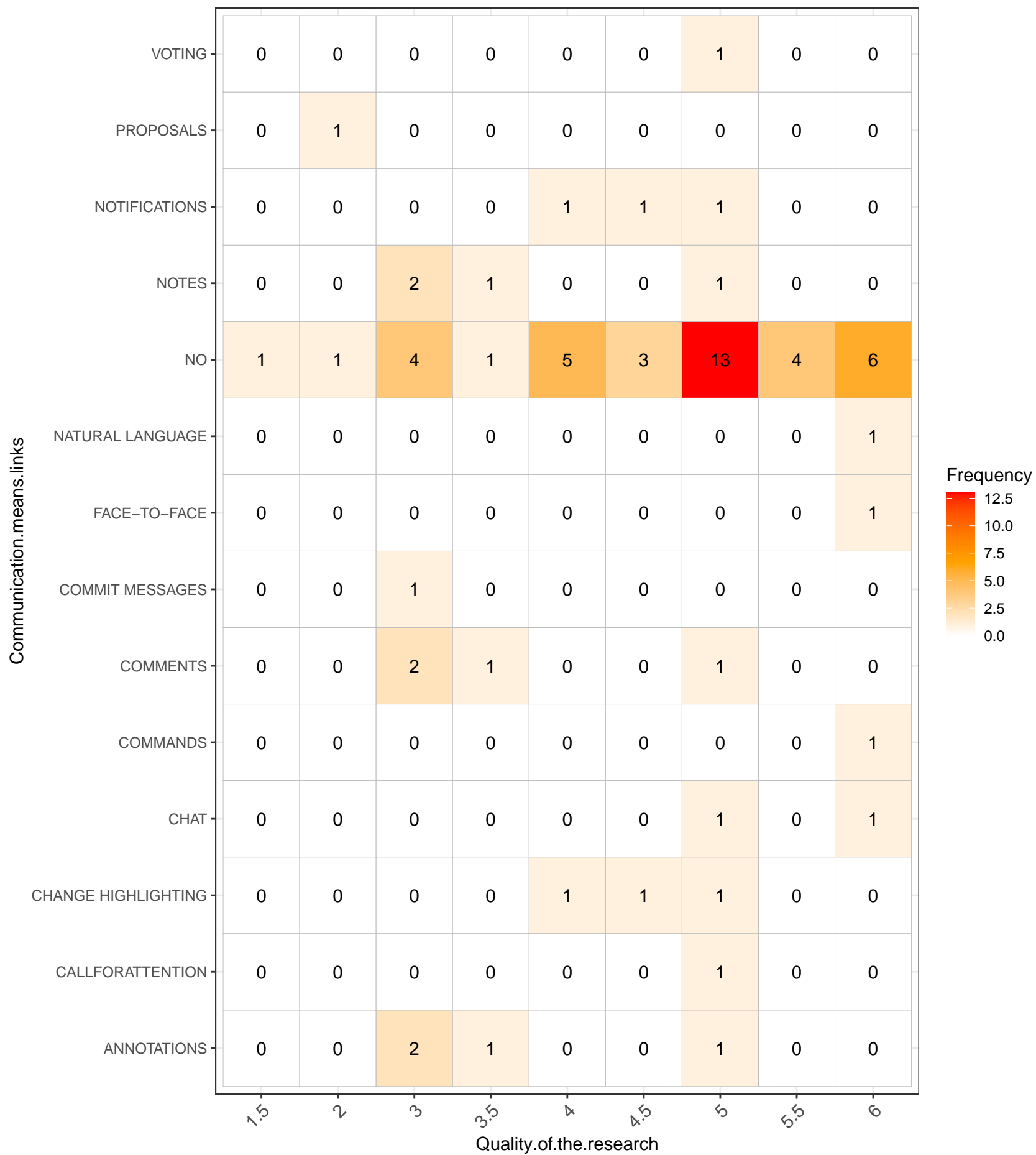


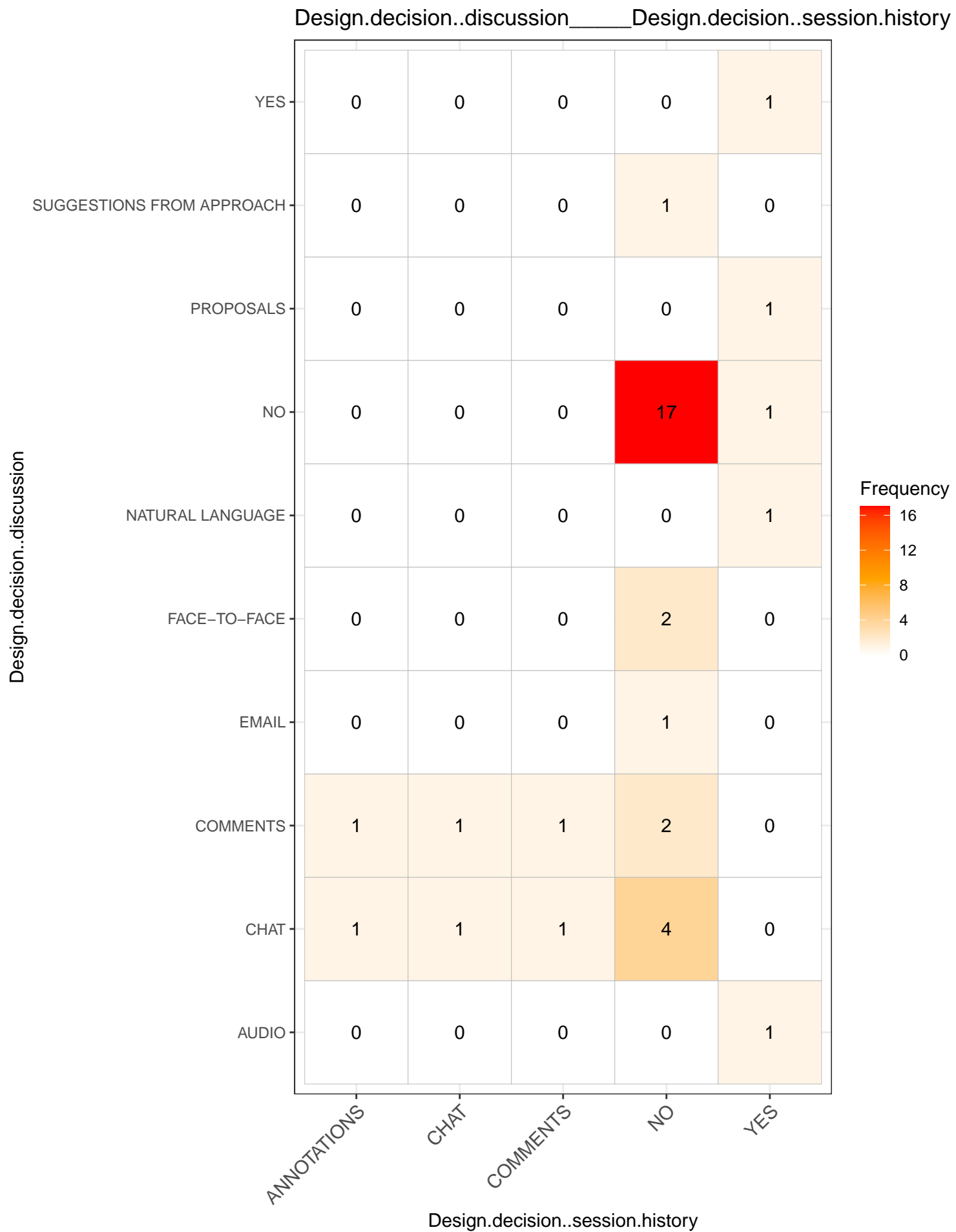


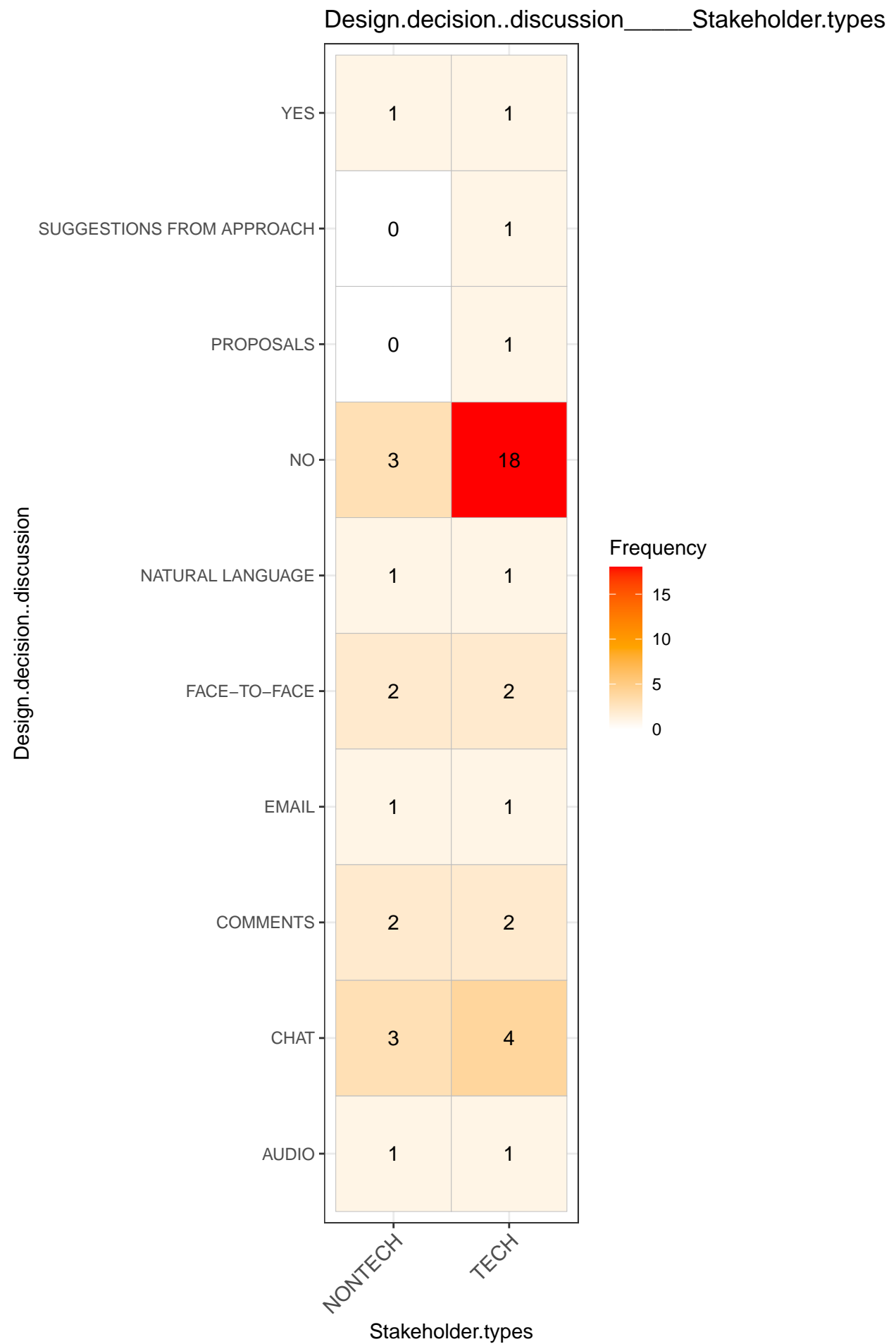
Communication.means.links_____Tool.availability



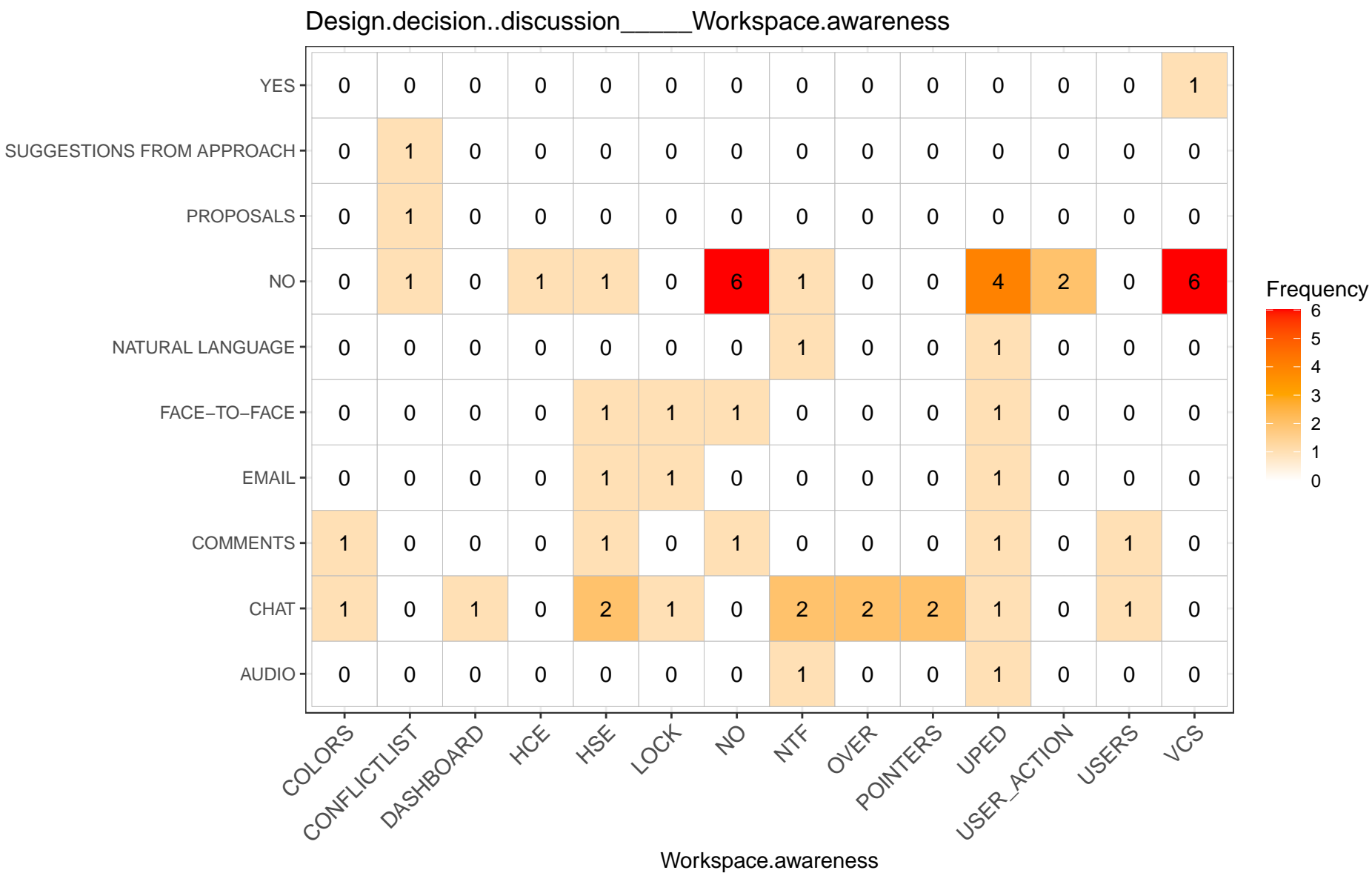
Communication.means.links_____Quality.of.the.research

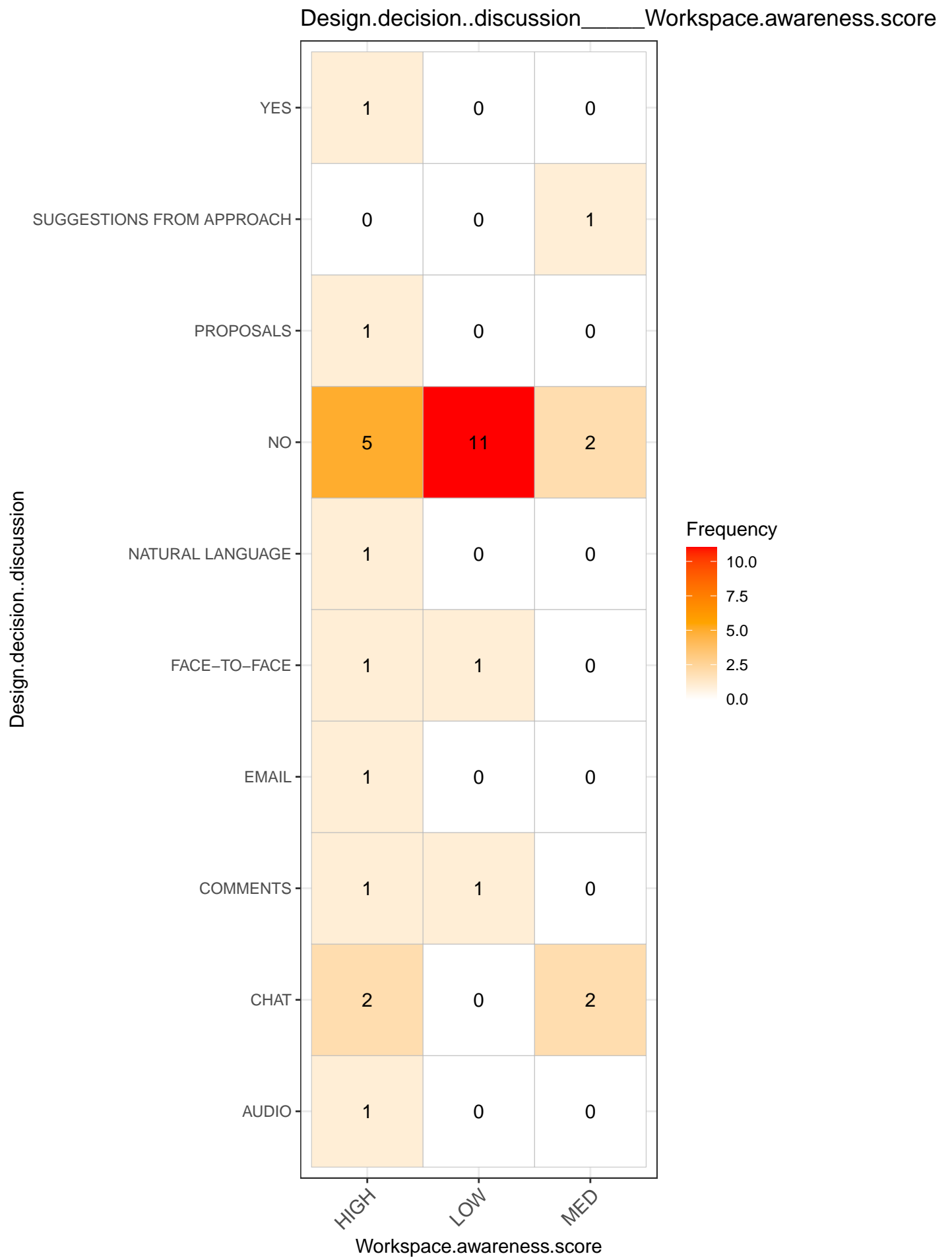


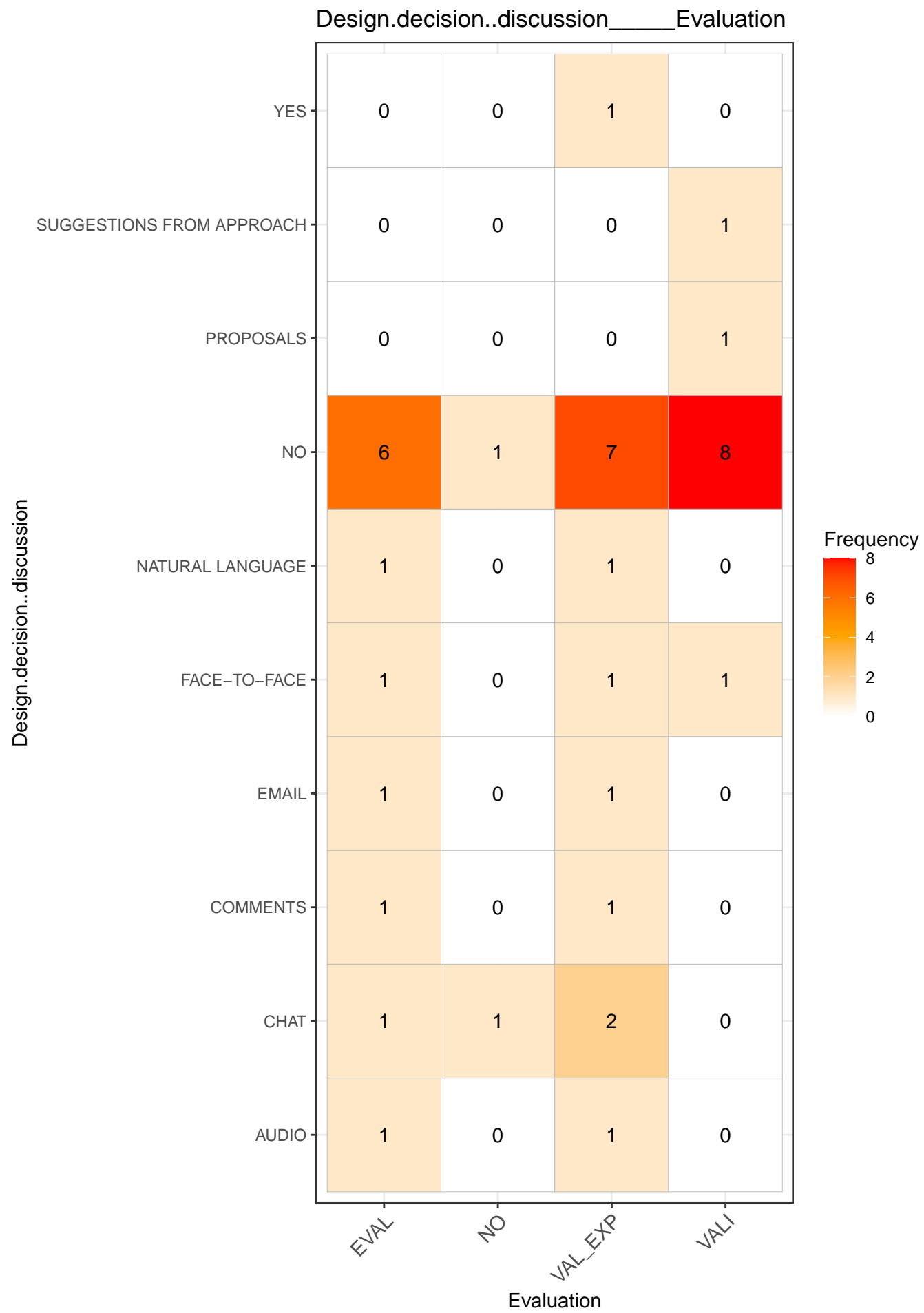




Design.decision..discussion







Design.decision..discussion_____Tool.availability

Design.decision..discussion

SUGGESTIONS FROM APPROACH

PROPOSALS

NATURAL LANGUAGE

FACE-TO-FACE

EMAIL

COMMENTS

CHAT

AUDIO

YES

NO

NO

YES

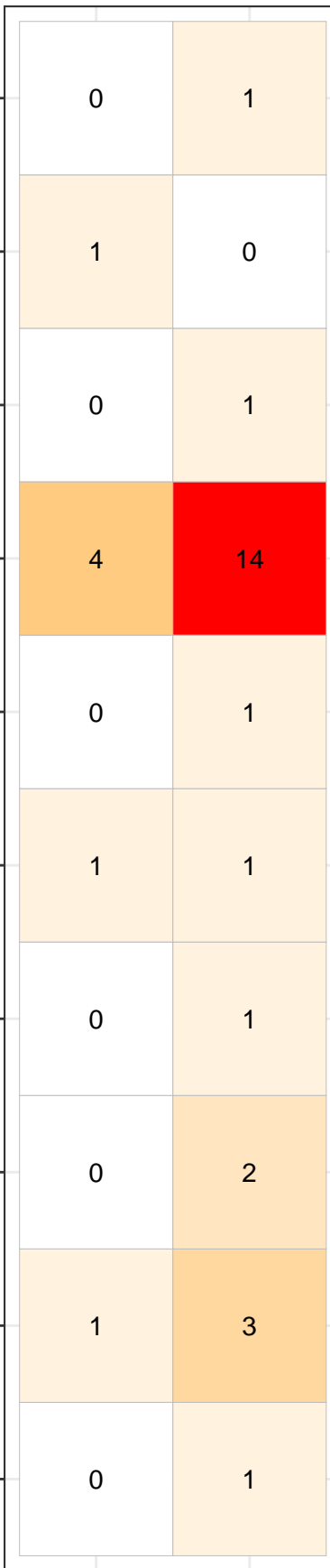
Tool.availability

Frequency

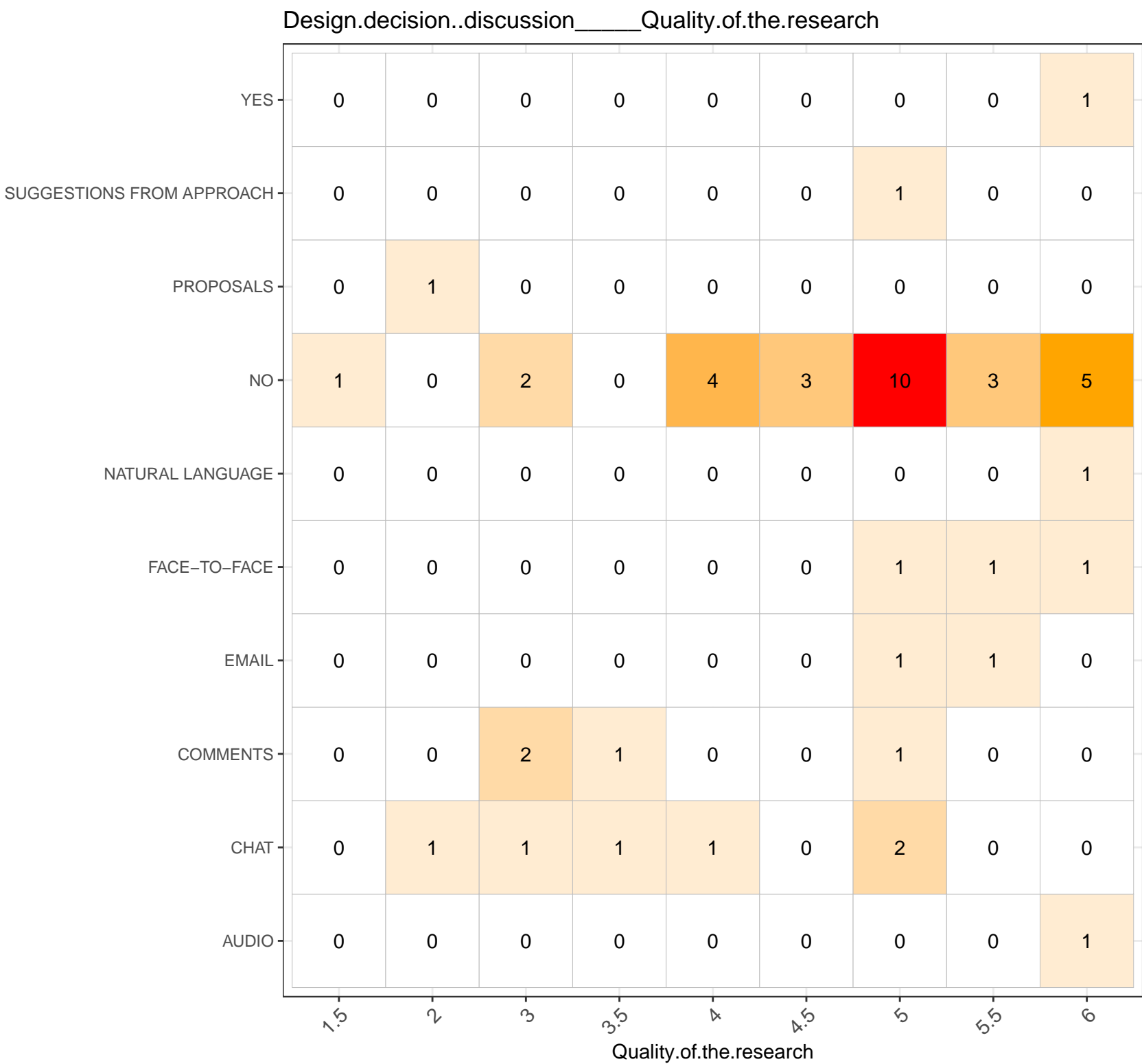
10

5

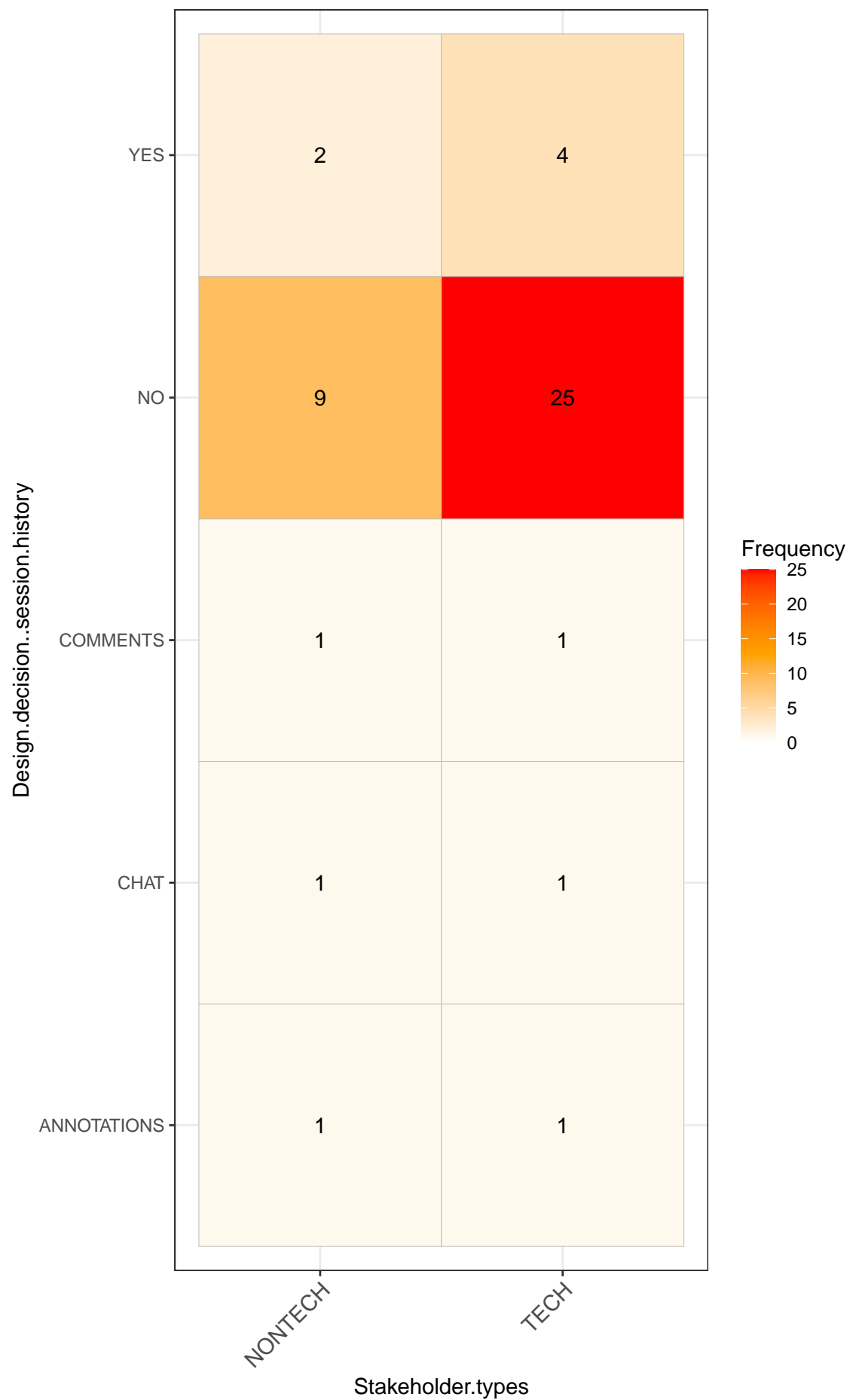
0

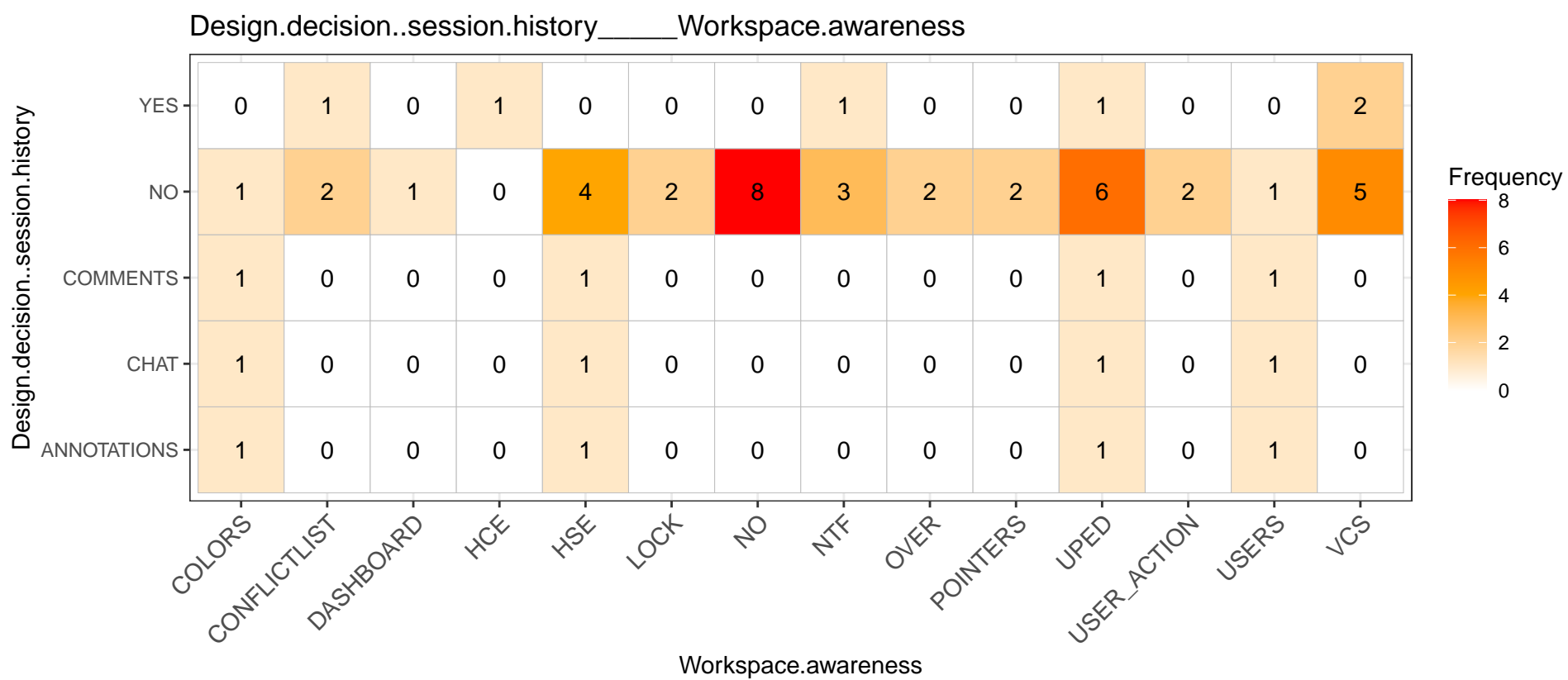


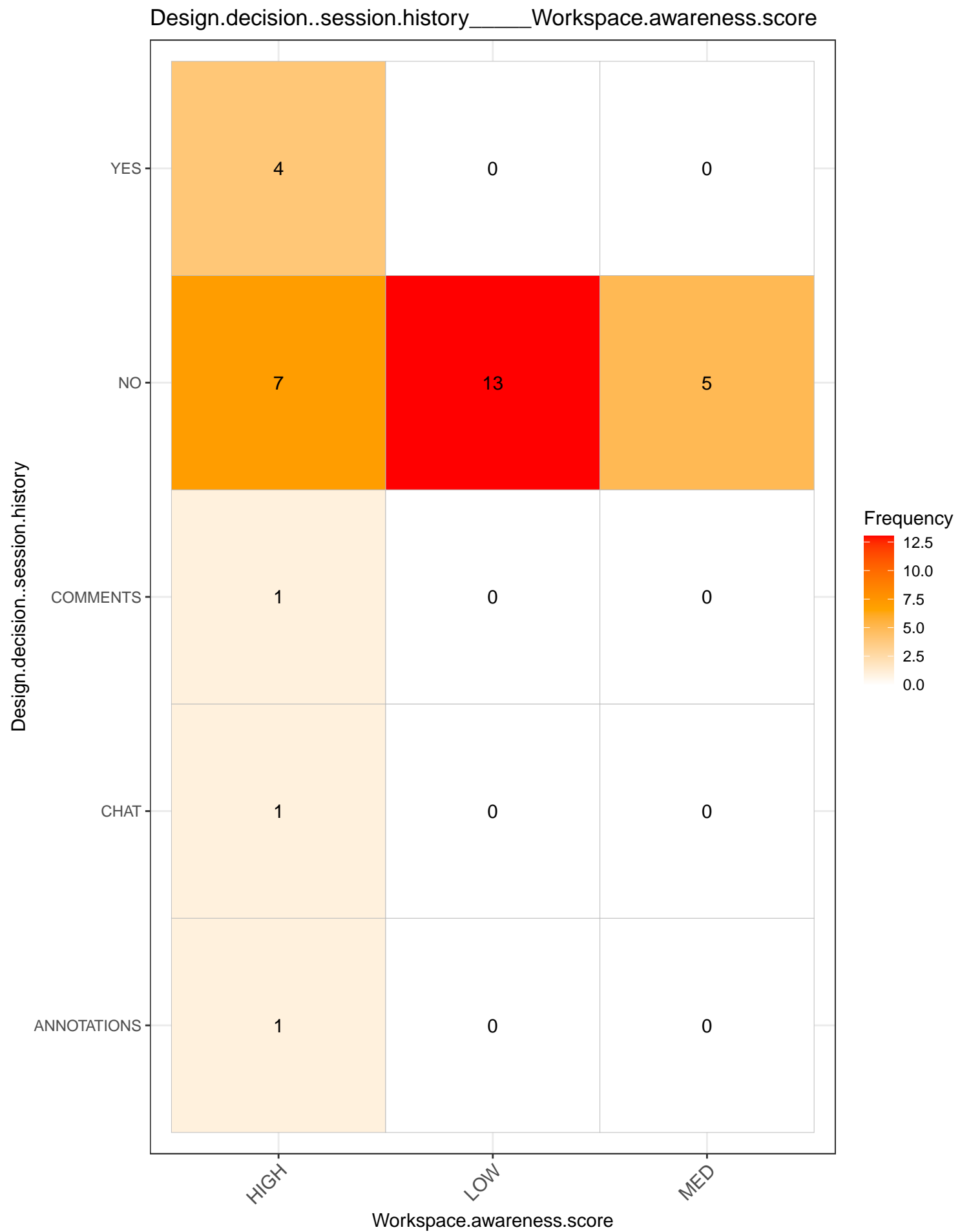
Design.decision..discussion



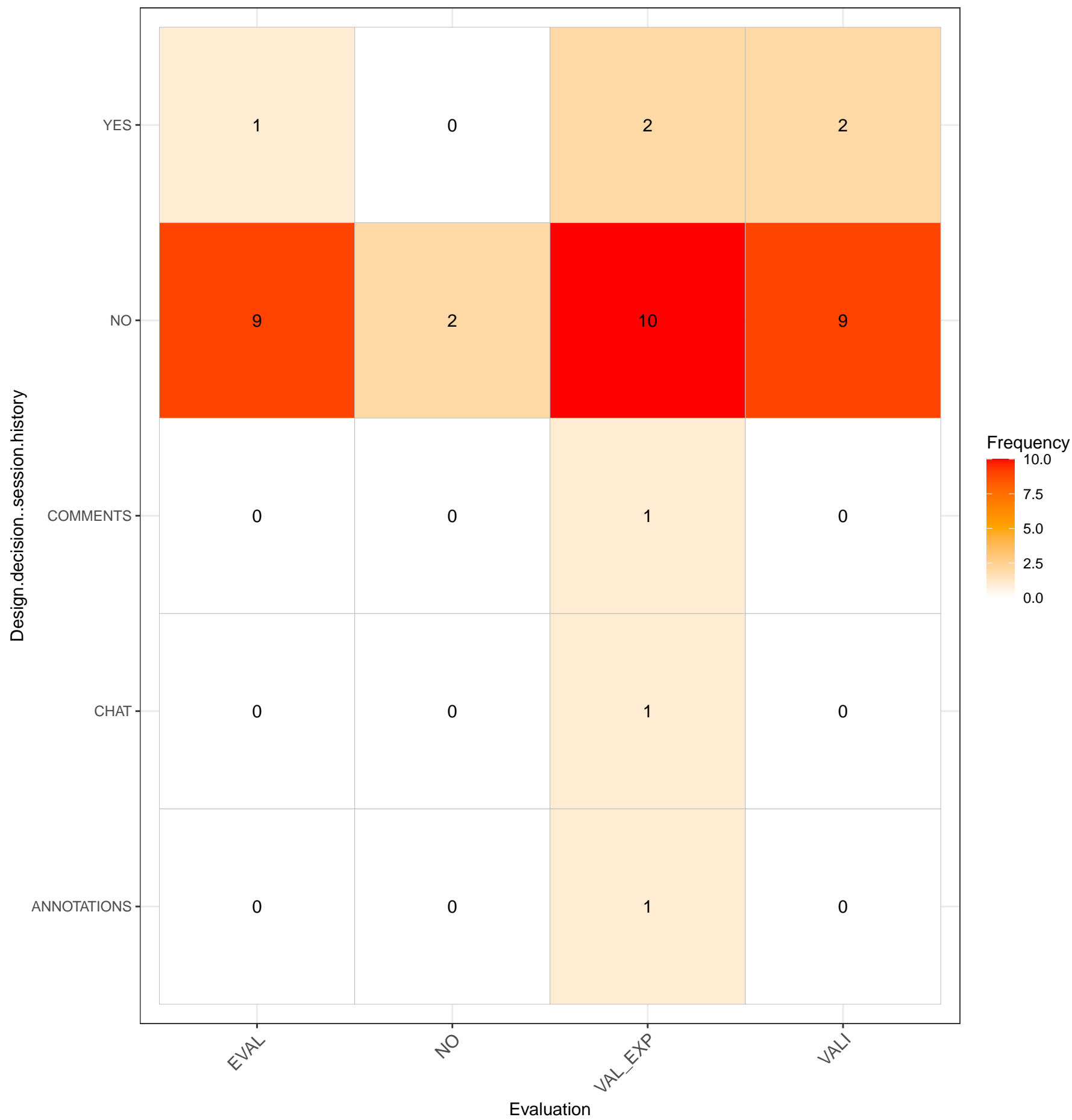
Design.decision..session.history_____Stakeholder.types

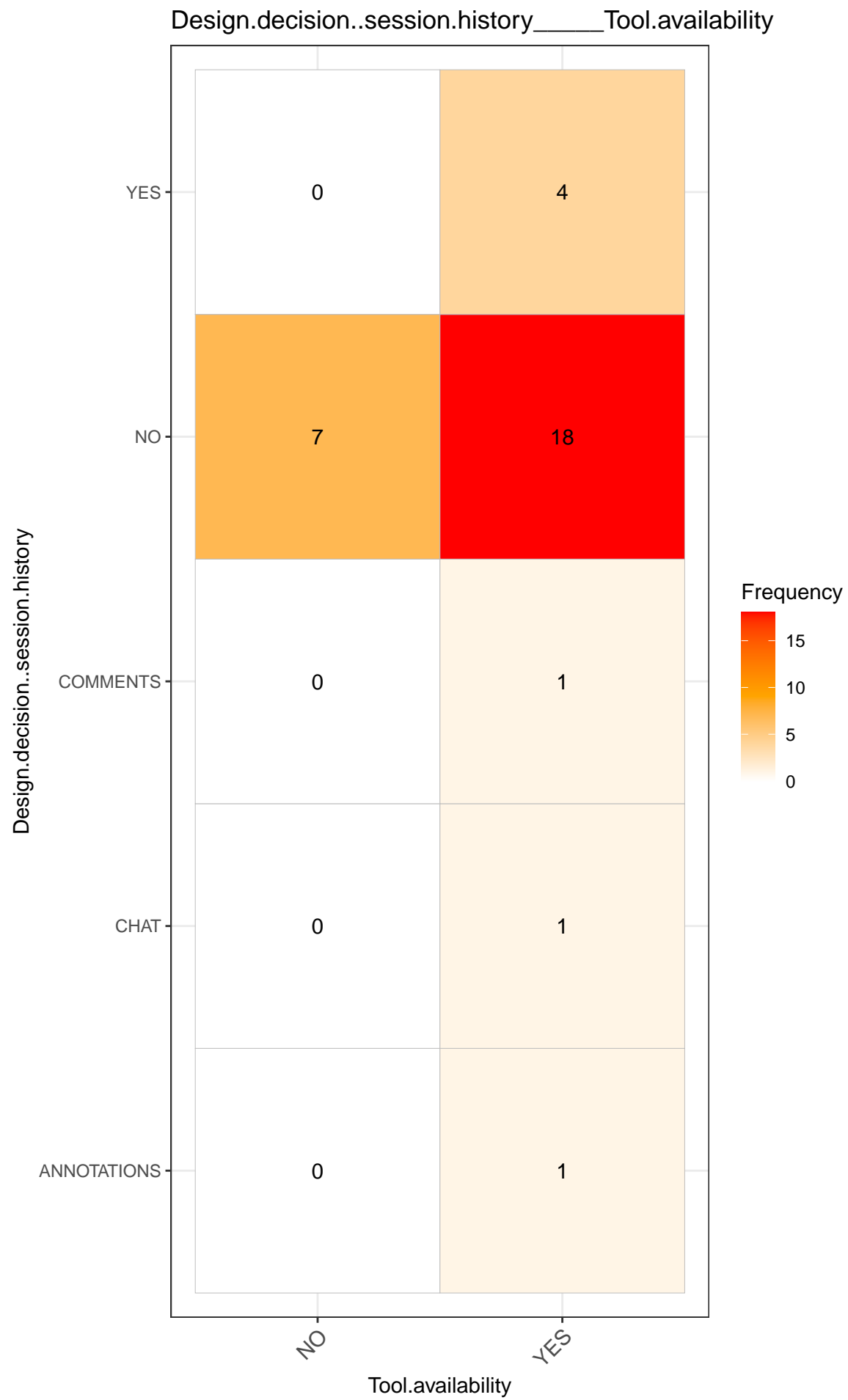


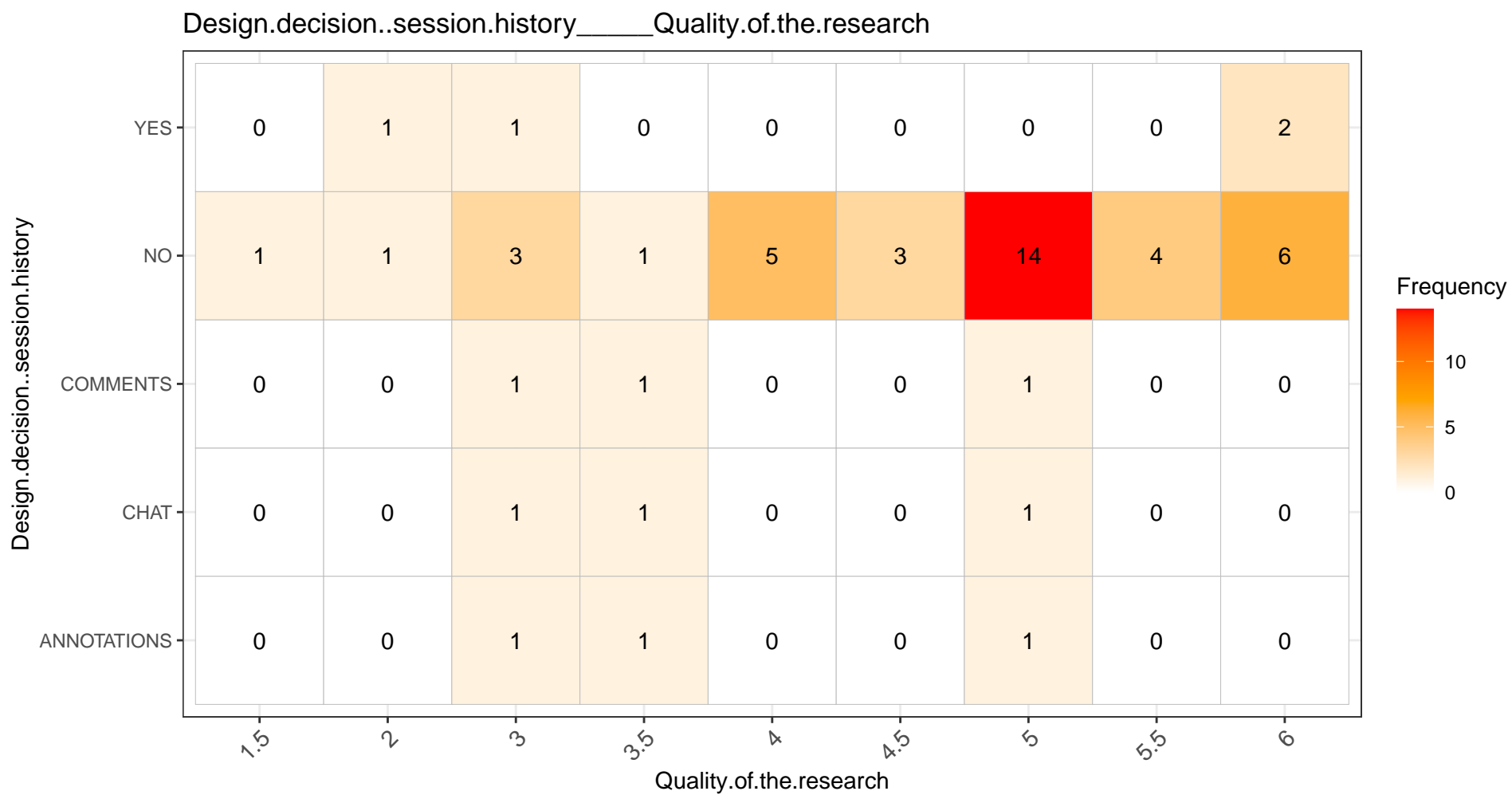


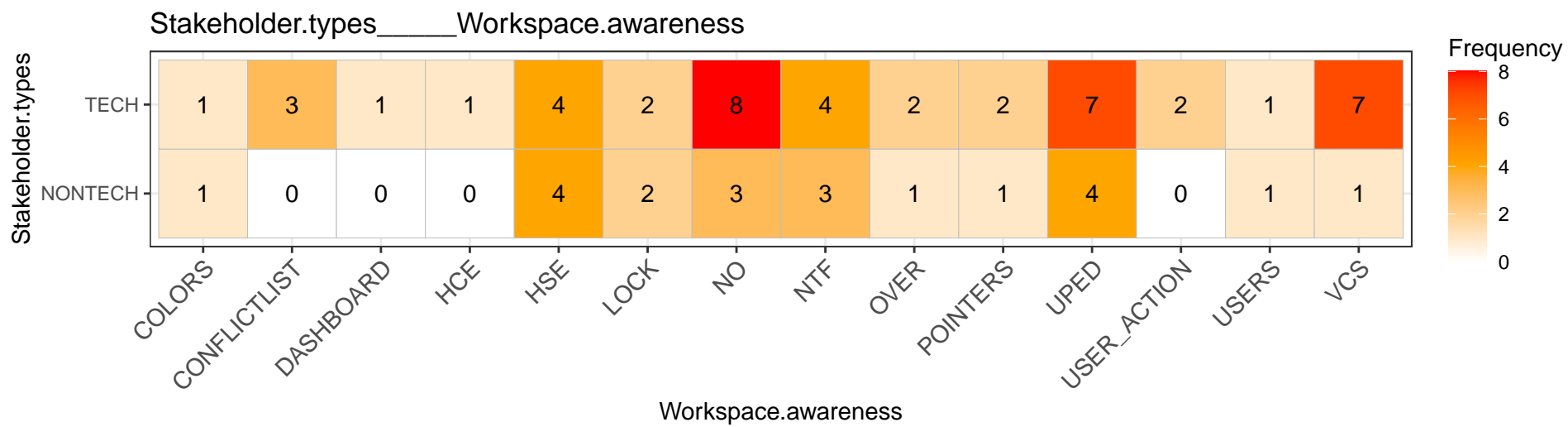


Design.decision..session.history_Evaluation

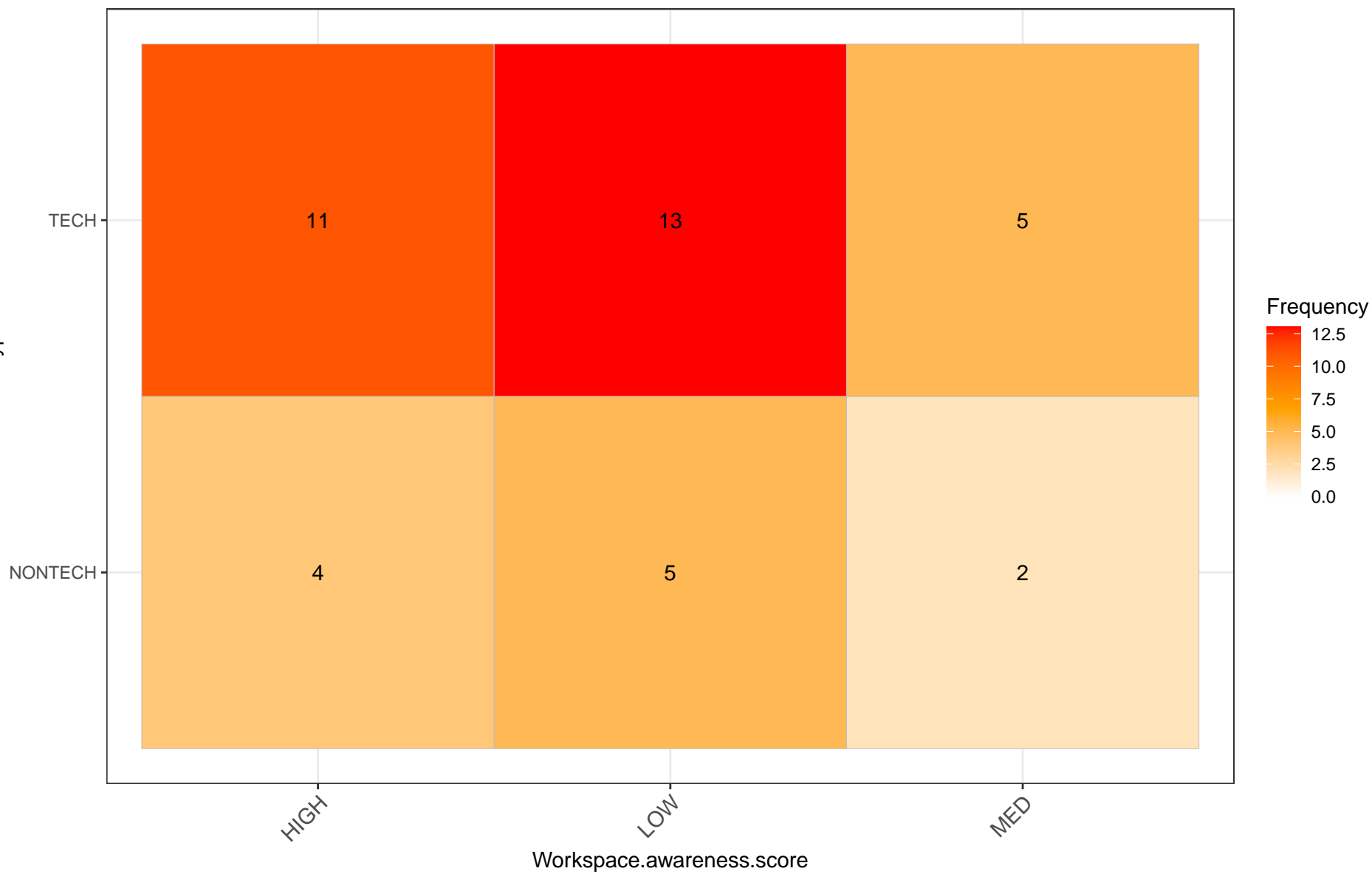




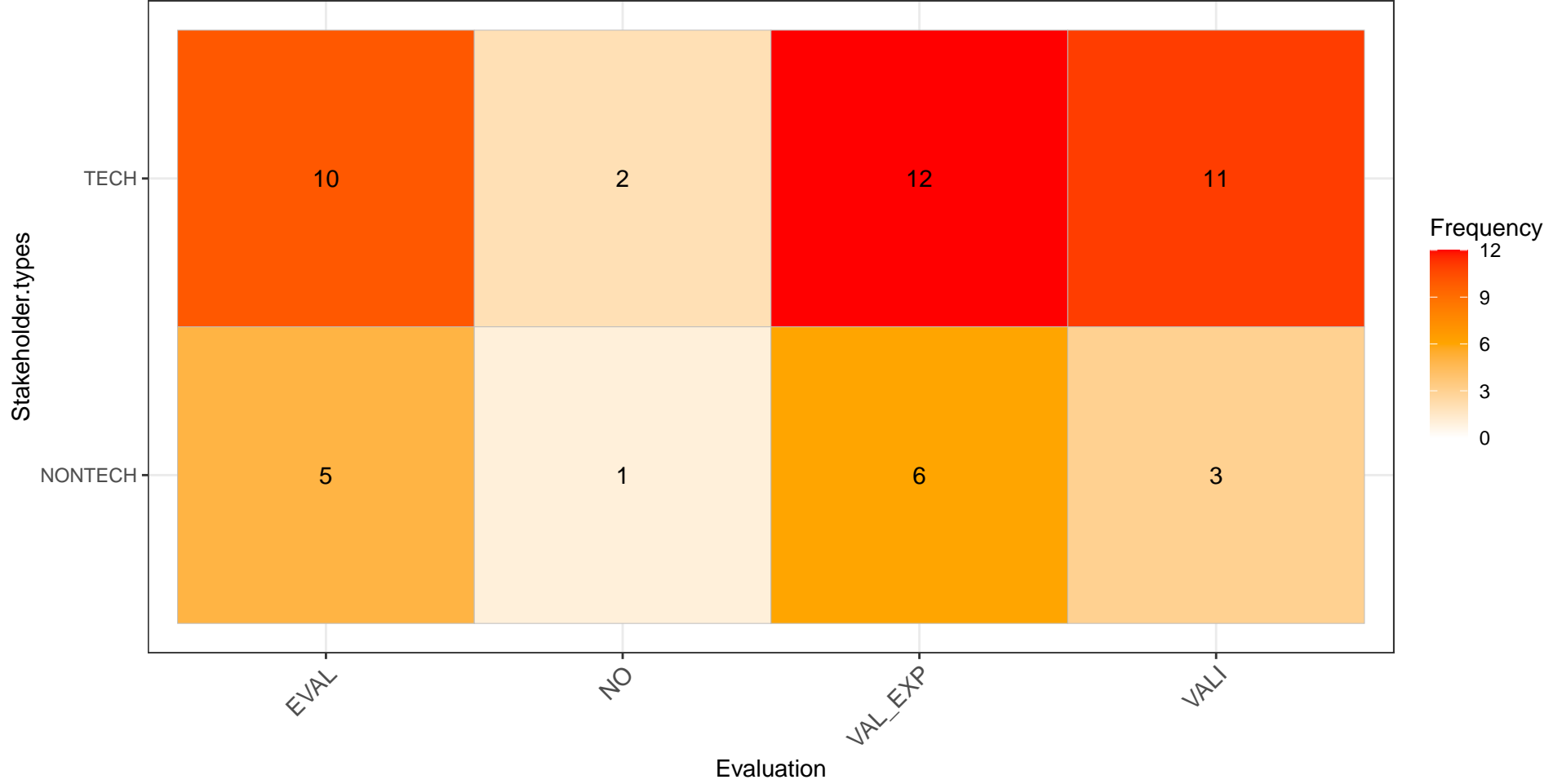




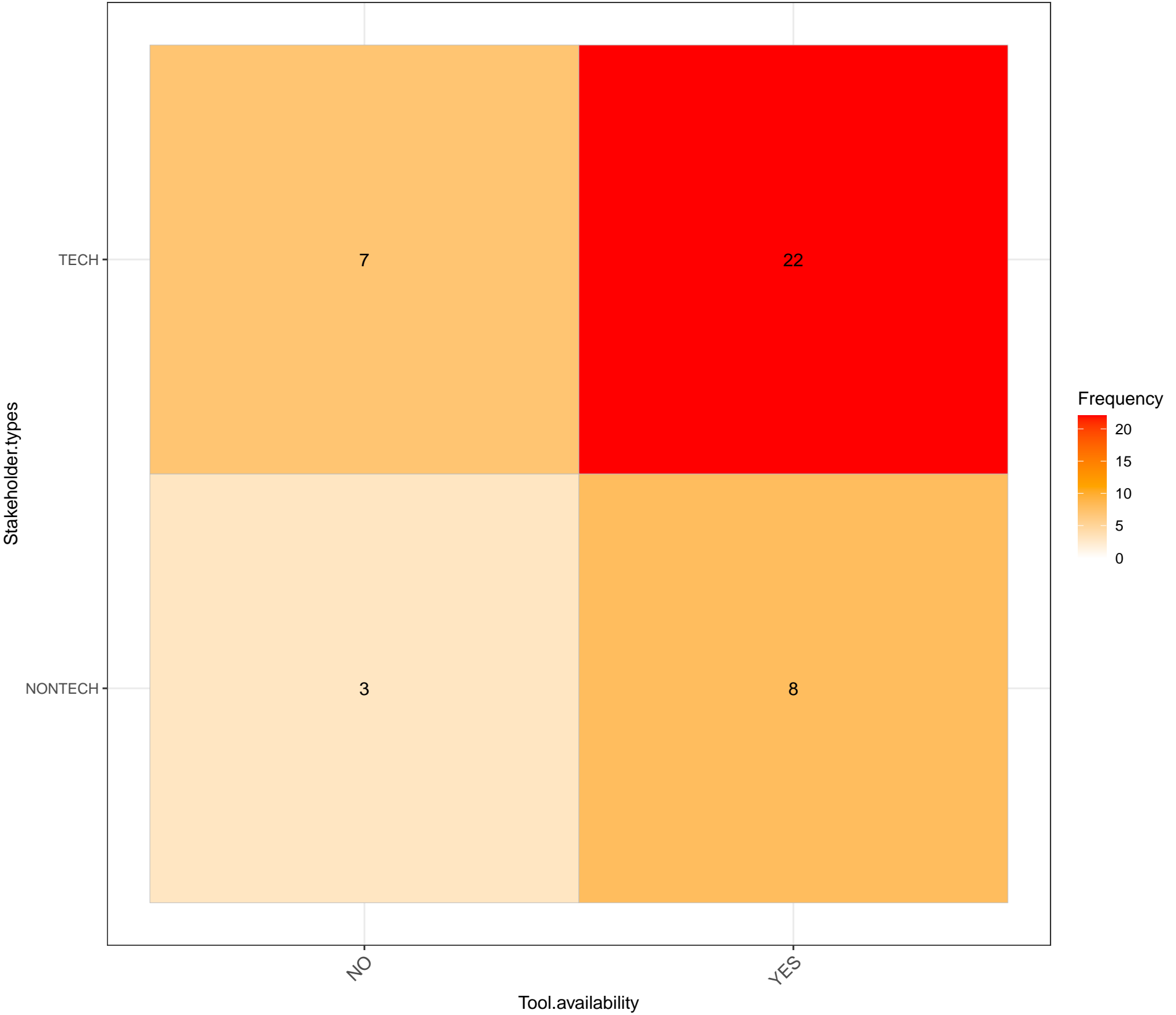
Stakeholder.types_____Workspace.awareness.score

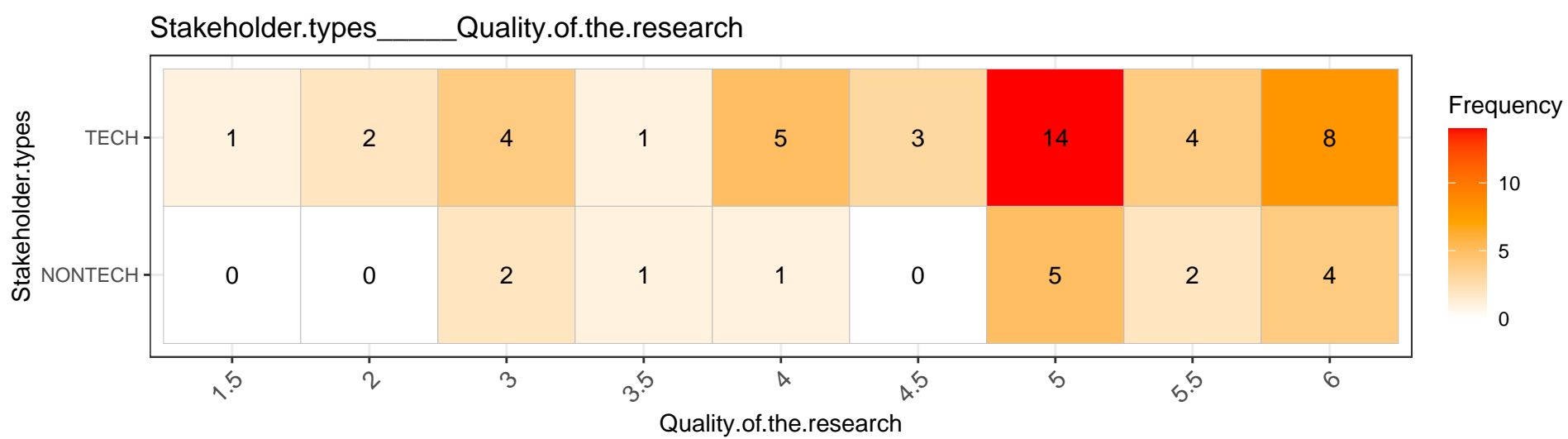


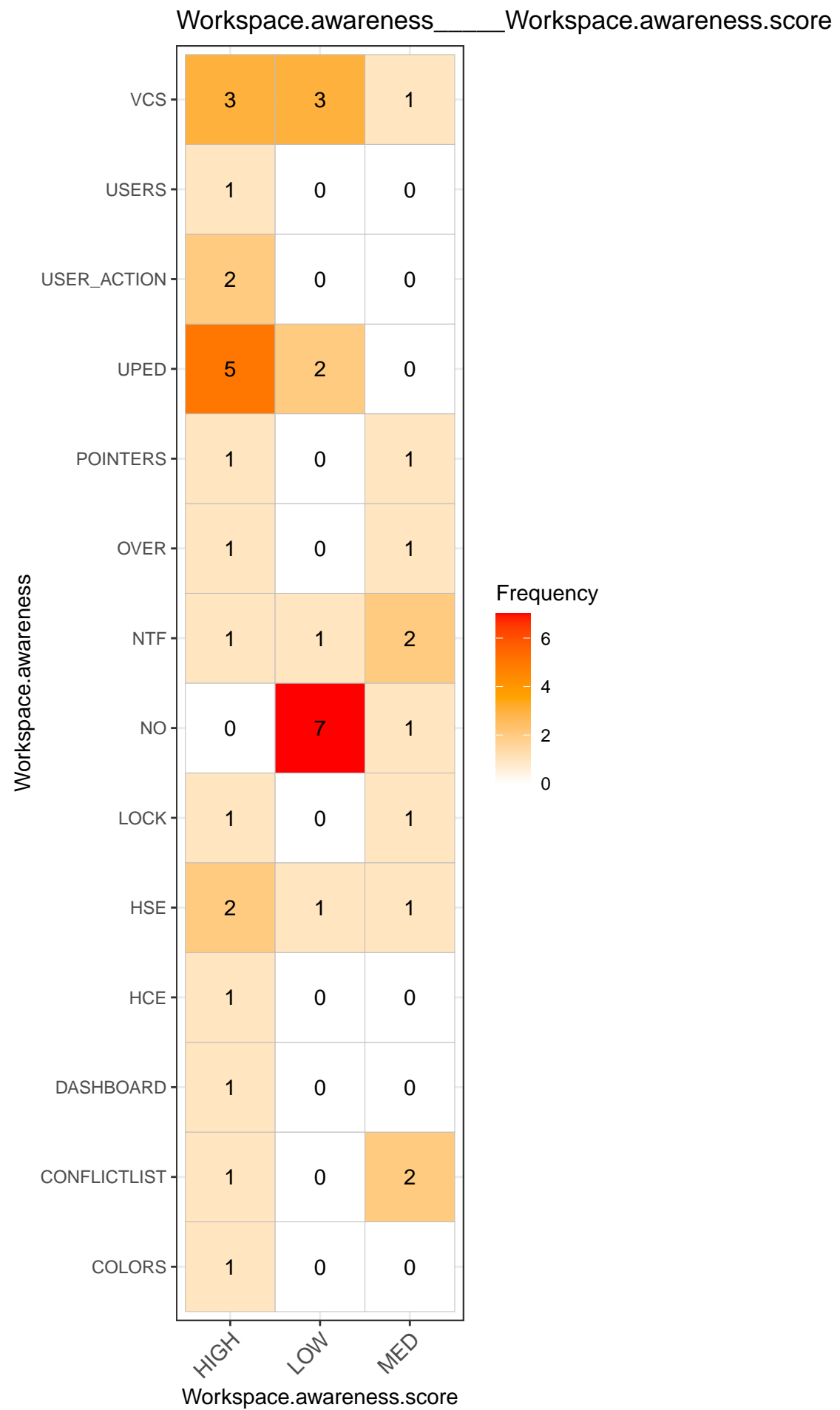
Stakeholder.types____Evaluation



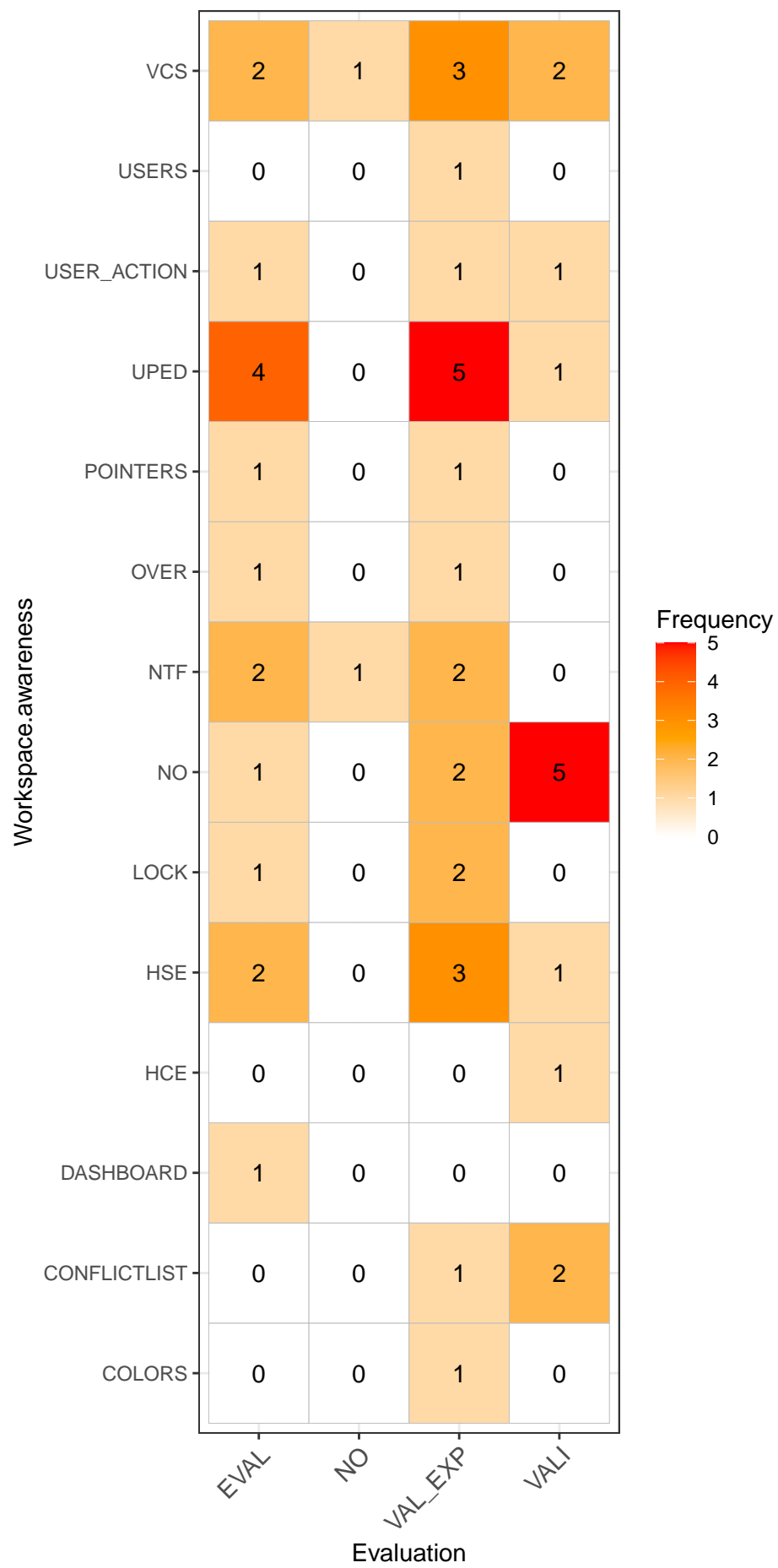
Stakeholder.types____Tool.availability

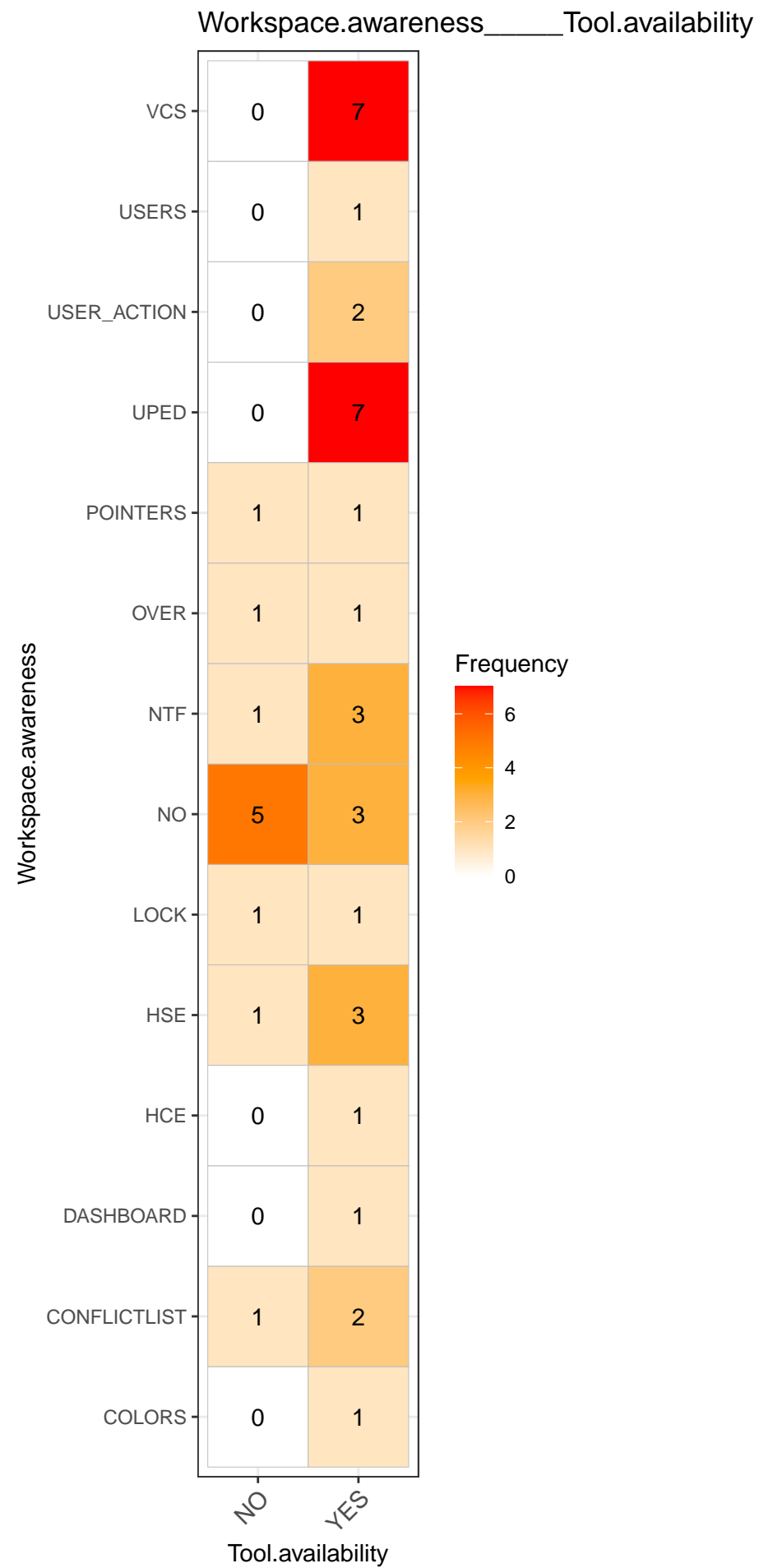




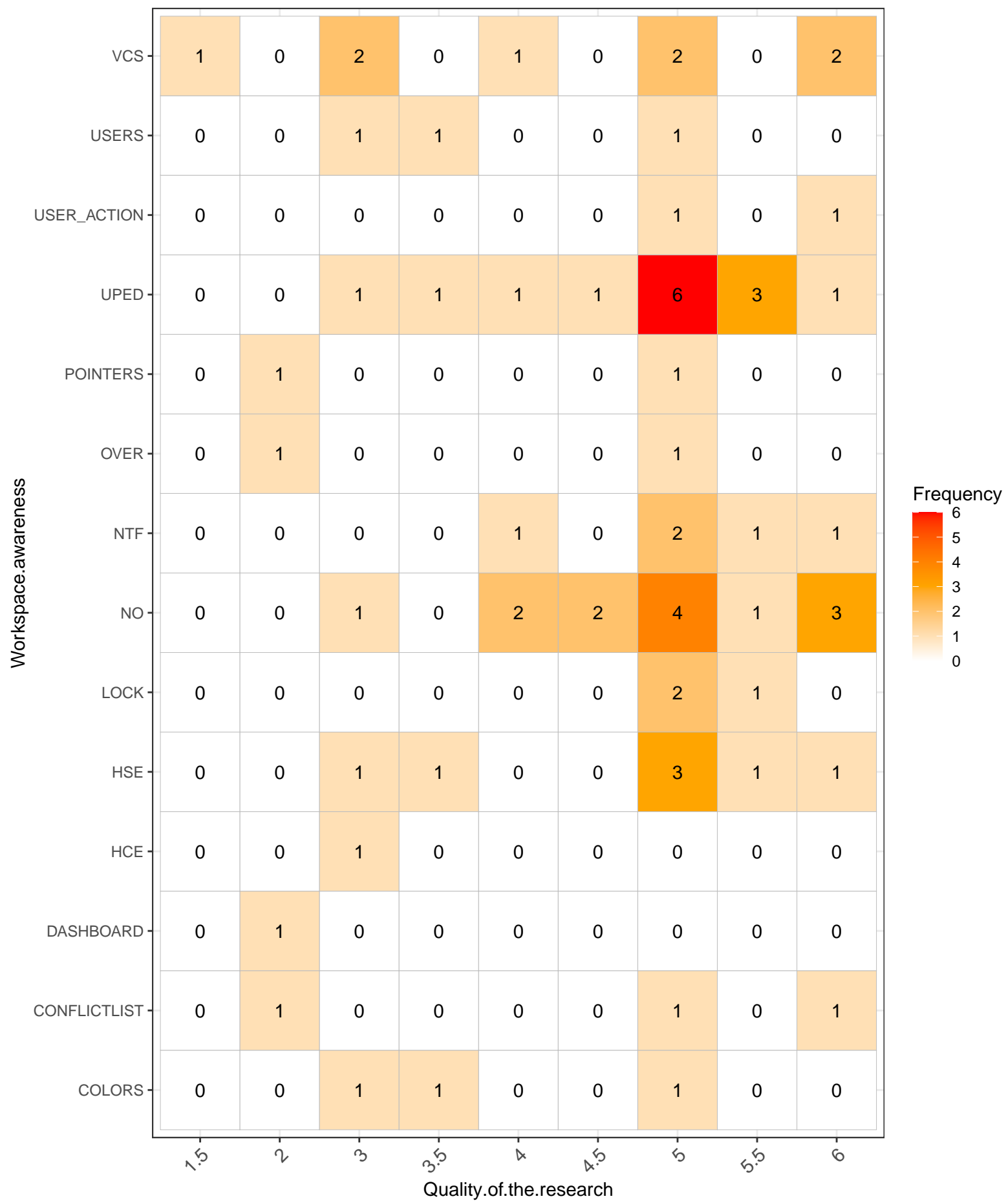


Workspace.awareness_Evaluation

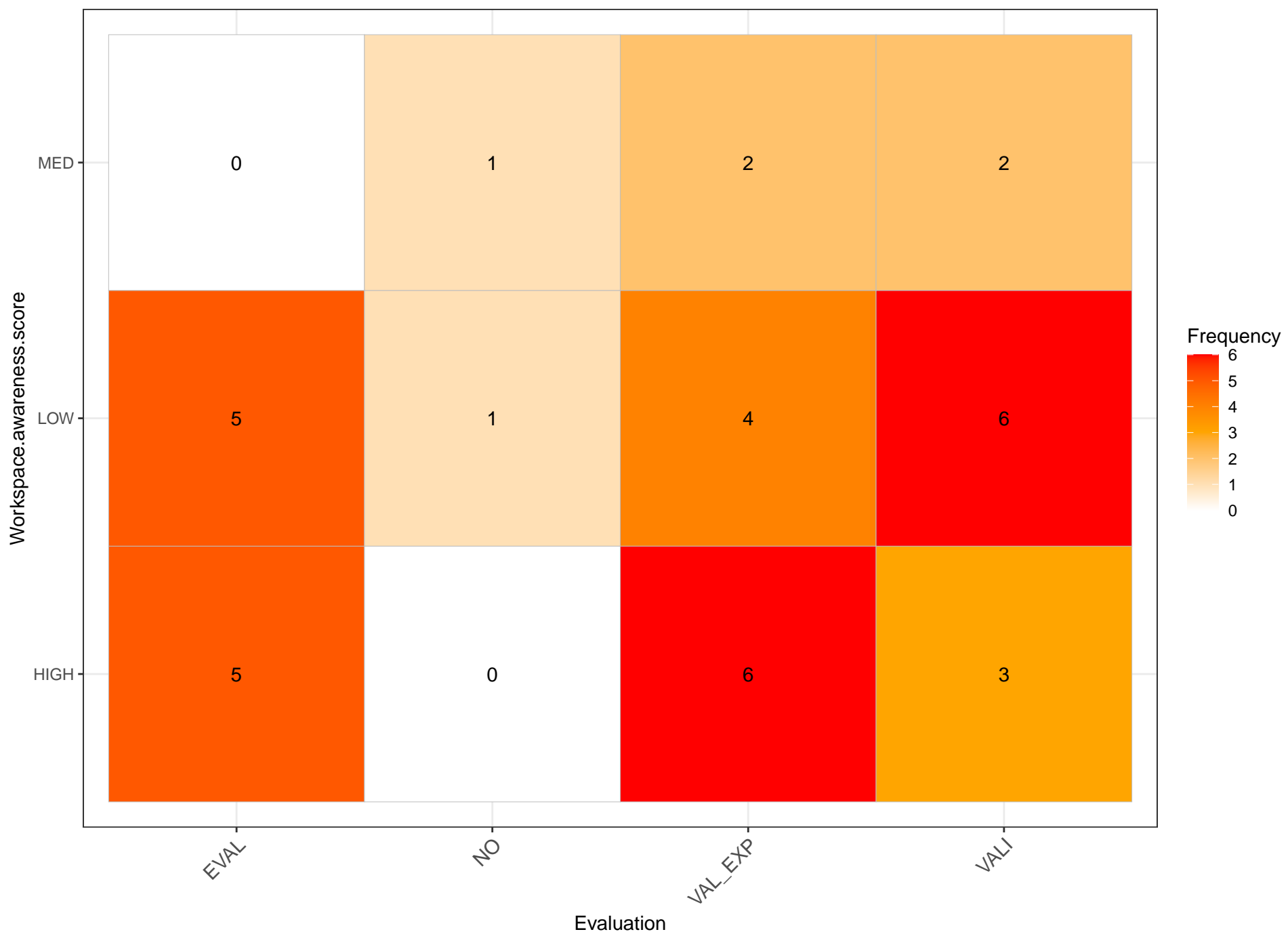




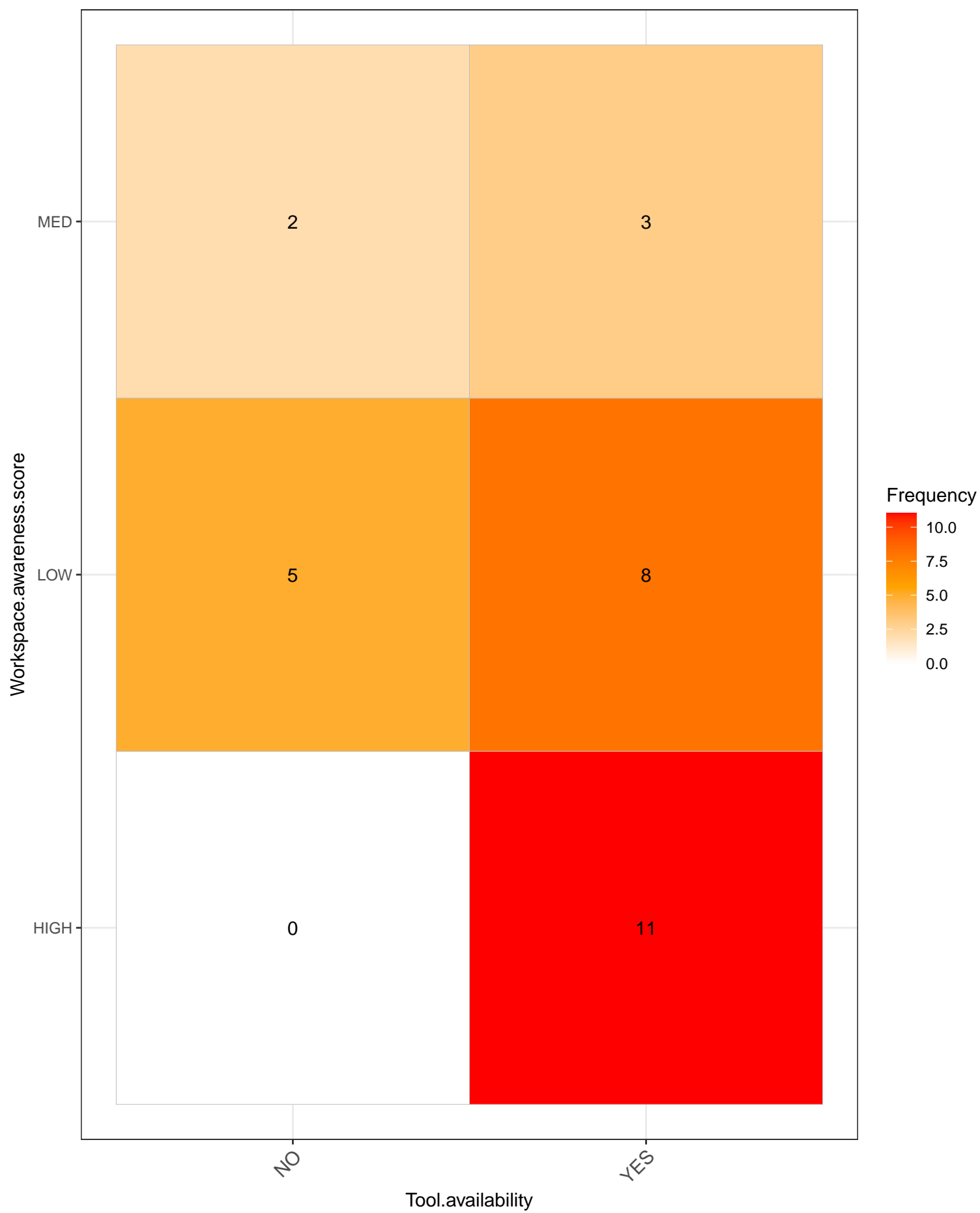
Workspace.awareness_____Quality.of.the.research

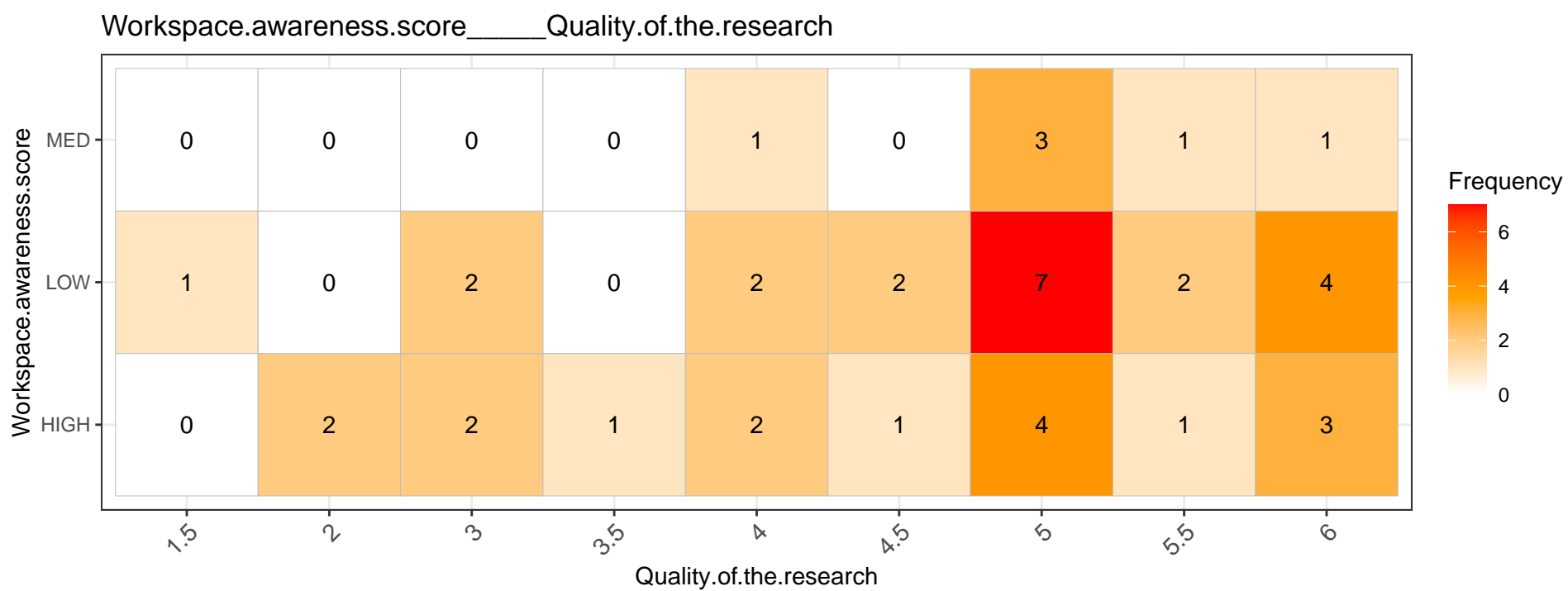


Workspace.awareness.score____Evaluation



Workspace.awareness.score_____Tool.availability





Evaluation_____Tool.availability

