# The Metadata Game

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Your team has been selected for an exciting new FAIR metadata repository project.

The goal is to collaborate across the metadata life cycle to create a repository of ten metadata records that include all FAIR elements.

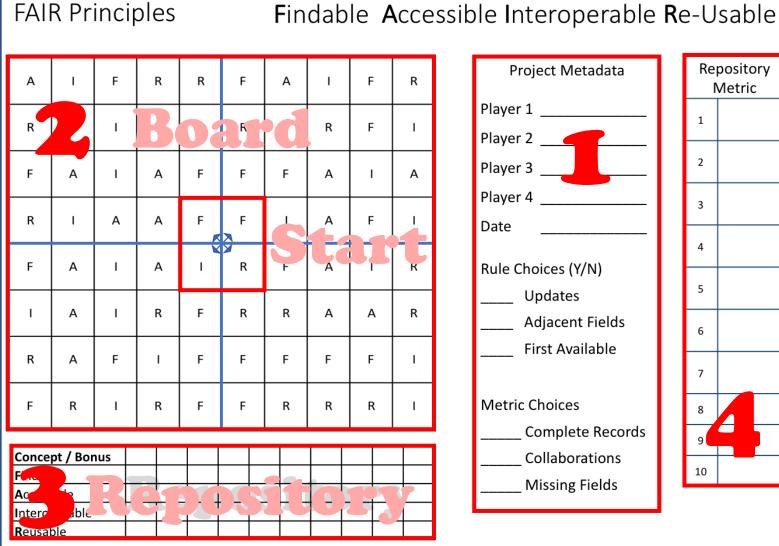
Progress is measured regularly.

Good luck!



# **Project Tools**

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Tools are available for

- tracking project metadata, 1.
- 2. selecting metadata elements,
- 3. recording repository content,
- recording repository metrics 4. after each round.

Start on one of the squares with the arrows at the center of the board.

### Selection Rules – Summary

Round 1 – Select adjacent squares.

**Subsequent rounds** – jump adjacent filled squares.

**Can't jump?** – select square in same quadrant where you can jump next round.

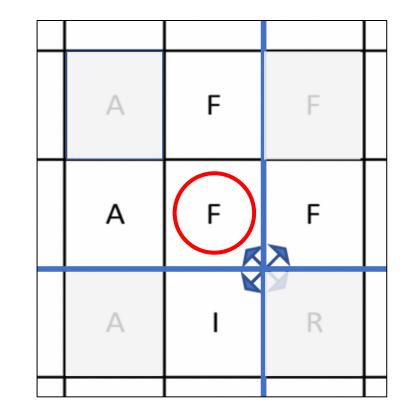


# Selection Rules - First Round

The player with the earliest birthday selects a square in the center of the board (where the arrows are) by circling the letter and then fills the corresponding element in the first repository record.

In this example, Red selects F and fills the F in the first record.

Other players select squares that are adjacent to ones already selected (vertically or horizontally, i.e. not diagonal). The next player can select any of the unshaded squares.



Concept / Bonus						
Findable						
Accessible						
Interoperable	0	5				
<b>R</b> eusable						

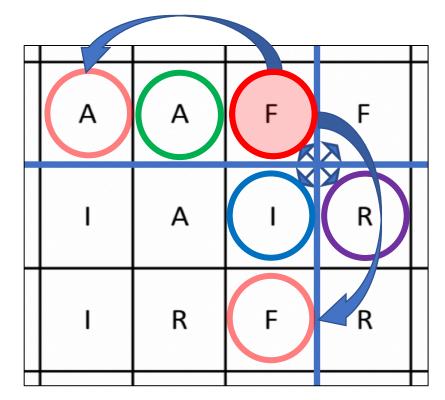


### Selection Rules - Subsequent Rounds

Players jump **one or more** filled squares vertically or horizontally.

In this example, Red can jump to the left (to A) or down (to F) to start the second round.

The space jumped from is filled in so that the open circle indicates current position.



After the first round the repository has one complete record with collaboration and the metric is 6.

<u>Э</u>	Concept / Bonus	6					
	Findable				•		
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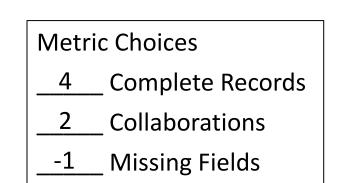
### Metric Defaults

Progress is tracked after each complete round by combining three repository metrics:

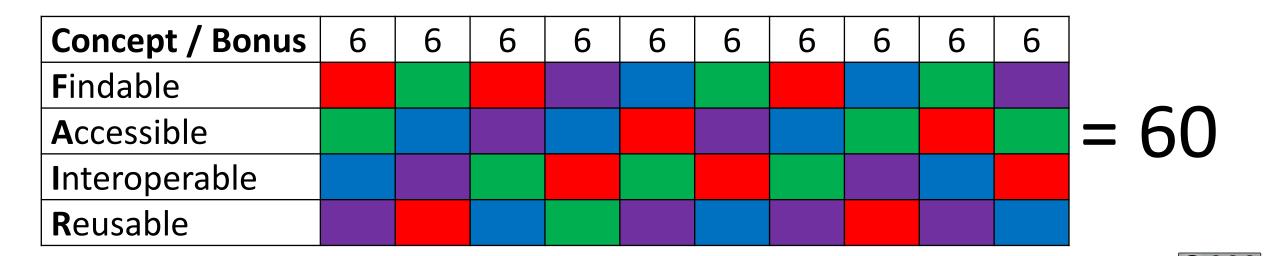
**Complete Records** have all four fields filled.

**Collaborations** have four fields filled with one element of each color.

**Empty Fields** are fields with no content in records that have been started.

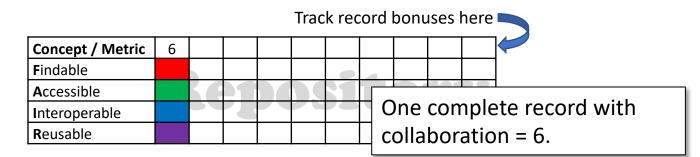


The metrics have default values.



# Metric Examples

Calculate the metric **after each complete round** by adding all record bonuses and subtracting the number of empty fields:



One complete record with collaboration and four empty fields = 6 - 4 = 2.

Concept / Metric	6						
Findable							
Accessible				5		2	
Interoperable			5		5		
<b>R</b> eusable							

Three complete records, one with collaboration = 14.

#### The repository project ends when no

more elements can be legally selected and added to the repository.

The final metric includes all ten records.

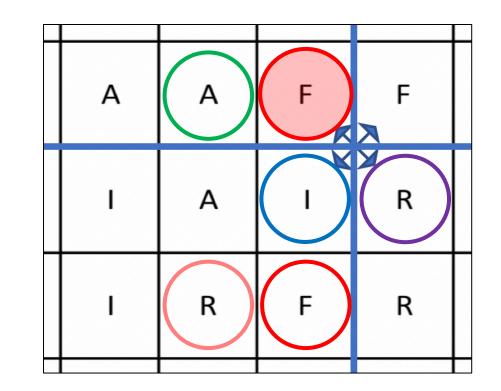
Concept / Metric	6	4	4						
Findable									
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### Selection Rules - No Jumps Available

If **no jumps are available**, a player can move to any square in the same quadrant (marked by blue lines) that allows a jump on next move, i.e. adjacent to a filled square.

If Red had selected F on the last move (note that original position is shaded), and this was the complete board, no jump is available, so Red can select any square in the current quadrant that allows a jump on the next move (only R in this case).





### Repository Rules – Adjacent Fields

The **Adjacent Fields** rule represents the many obstacles encountered on the road to complete metadata repositories.

In this example, the team succeeded in collaborating to create a complete record in round 1 and received the complete record (4) and collaboration (2) bonuses. If Red selects an F in the second round, the Adjacent Fields rule controls where F can play:

If Adjacent Fields is **Yes, i.e. allowed**, **Red** must select the F in the second record If Adjacent Fields is **No, i.e. not allowed** (default), **Red** must select the F in the third record. This creates seven missing fields and has a negative effect on the metric.

Concept	6						
Findable		Yes	No				
Accessible							
Interoperable		5					
<b>R</b> eusable							



### Repository Rules - Updates

Updating existing metadata records to address new use cases is an important role of repositories.

After **Red** fills the F in the third record, the **Updates** rule controls where **Green** can play in round 2:

If Updates is **Yes** (default), **Green** can update F, I, or R in record 2. The A in record 2 cannot be selected because it is adjacent to **Green** in record 1 and **Adjacent Fields** is No. If Updates is **No**, **Green** must select A, I, or R in record 3 and record 2 will always be empty and will always contribute four empty fields to the metric.

Concept	6						
Findable		Yes					
Accessible			No				
Interoperable		Yes	No			5	
<b>R</b> eusable		Yes	No				



### Repository Rules – Next Available

The **Next Available** rule represents the many obstacles to collaborating on the road to complete metadata repositories.

After two rounds, Red must play an R to start round 3 and Blue must play an A because of jump constraints on the board. Red must play the R in record 3 because it is the only R available in an existing record. The **Next Available** rule controls where Blue can play in round 3:

If Next Available is **Yes** (default), Blue must play an A in record 2 and a collaboration bonus will not be scored for record 2 because two fields were filled by Blue. If Next Available is **No**, Blue can play the A in record 3, preserving the possibility of a collaboration bonus for record 2.

Concept	6						
Findable							
Accessible		Yes	No				
Interoperable							
<b>R</b> eusable			Yes				



### Repository Rule Defaults

The **Repository Rules** also have default values.

Rule (	Rule Choices (Y/N)						
<u>N</u>	Adjacent fields						
<u>Y</u>	Updates						
Y	First Available						

The **repository project ends** when no more elements can be added to the repository. The final metric includes all ten records.



### Metadata Project Stories

Organizations make metadata creation rules and set repository metrics. The default values were selected as a reasonable starting point.

You can change the metadata game by changing rule and metric choices.

Are there rules you would like to change?

How will changes affect opportunities, decisions, and metrics?

The Metadata Game was developed by Erin Robinson and Ted Habermann. Please let us know how you liked it or how it can be improved. Also let us know if you think The Metadata Game could help your organization make better metadata. Thanks, ted@tedhabermann.com

