Florian Thiery M.Sc., Mainz, Germany
Clemens Schmid B.A., Kiel, Germany

Looking for the “grey value” in research and geodesy: Is there right or wrong in software framework decisions?

CC BY

Moin!

we are Florian Thiery and Clemens Schmid.

We love to give presentations ☺

You can find us on Twitter **@fthierygeo** and **@nevromeCS** .

we are...

software engineers in
geodesy AND archaeology.

R G Z M

Florian: Römisch-Germanisches Zentralmuseum Mainz

Clemens: Initiative for Statistical Analysis in Archaeology Kiel

"we are looking for the
"grey value"
in research
and geodesy..."

"...and try to find out, if there is a

right OR wrong..."

“

“..especially in
software framework
decisions.”

working in **research institutes** as geodesist...

Valencia, Spain

source: @stella_gaeodaiesie via Instagram - https://www.instagram.com/p/BduKYMgAlVz/?taken-by=stella_geodaesie

...or working in geodesy companies...

Jardín del Turia, Valencia

source: @stella_gaeodaiesie via Instagram - https://www.instagram.com/p/Bfh-ucrBjtn/?taken-by=stella_geodaesie

...always deals with the **same question**...

source: @stella_gaeodaiesie via Instagram - https://www.instagram.com/p/BkCVeExlYlD/?taken-by=stella_geodaesie

is there the “right” decision?

in geodesy there are a lot of examples where the “right” decision is not objectively given...

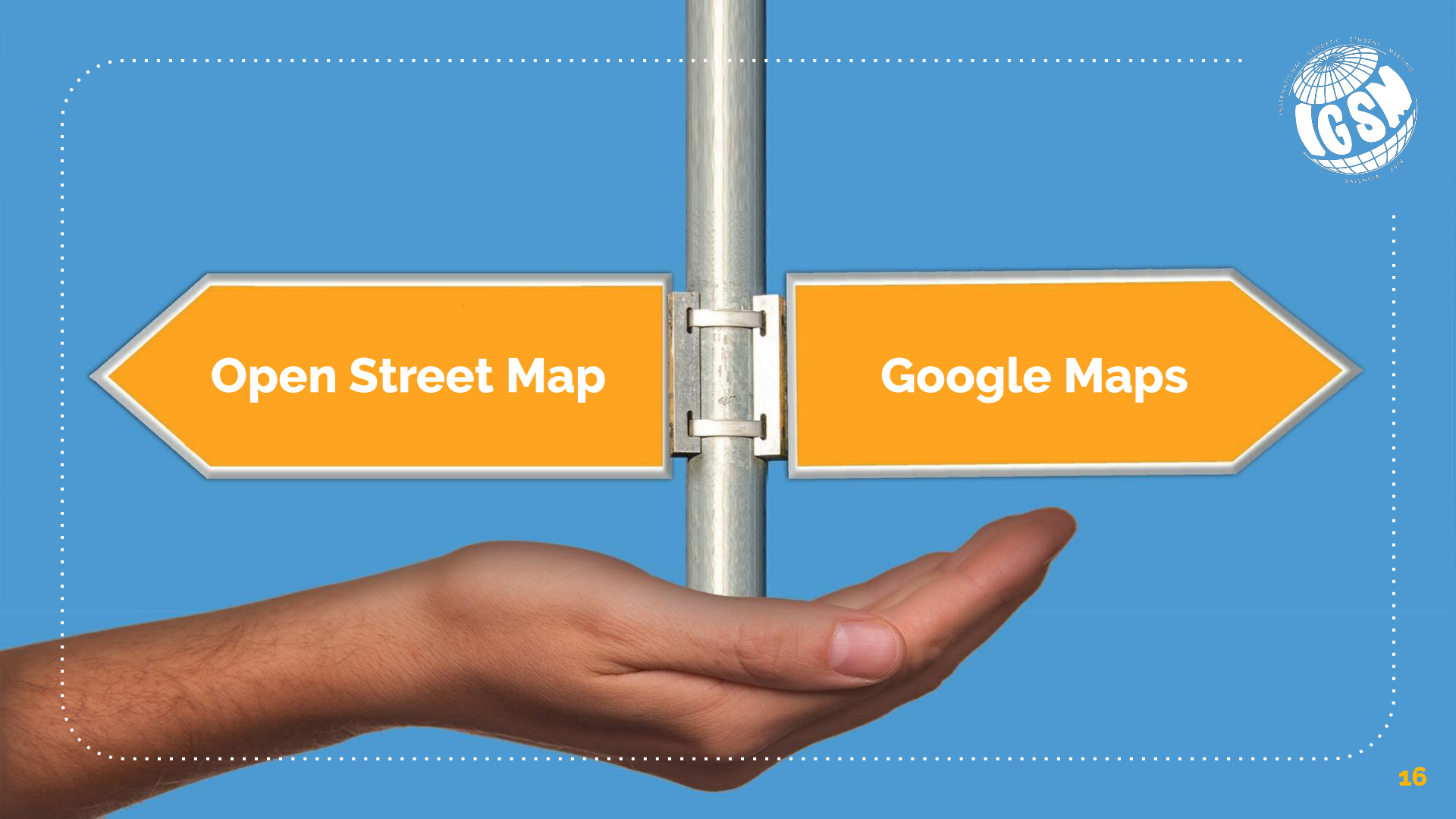
source: @stella_gaeodaiesie via Instagram - https://www.instagram.com/p/Bc4UDCogxLP/?taken-by=stella_geodaesie

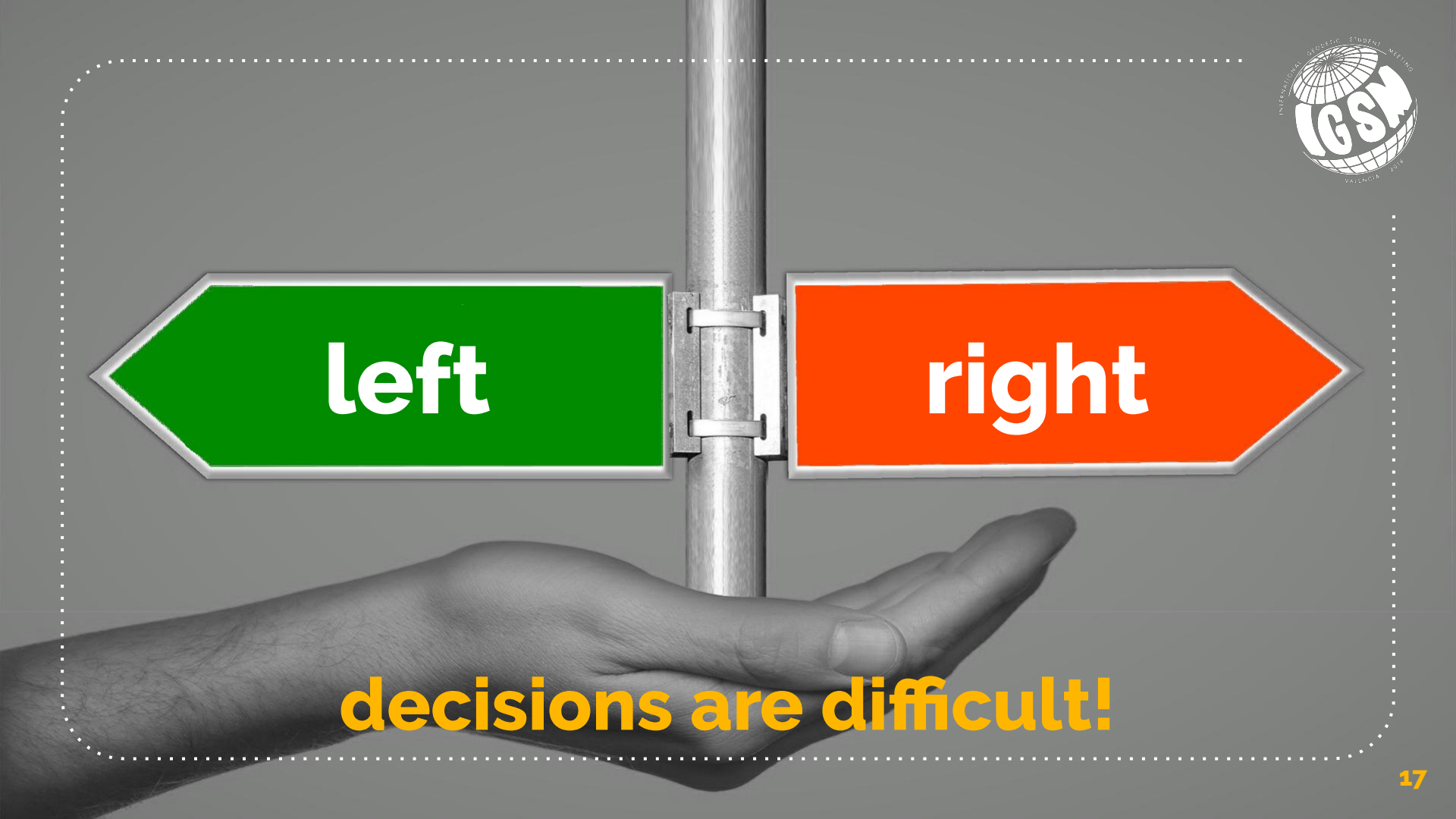
... it always depends on the usage!

source: @stella_gaeodaiesie via Instagram - https://www.instagram.com/p/Bgx5UX3DGMV/?taken-by=stella_geodaesie

Choice
Choice

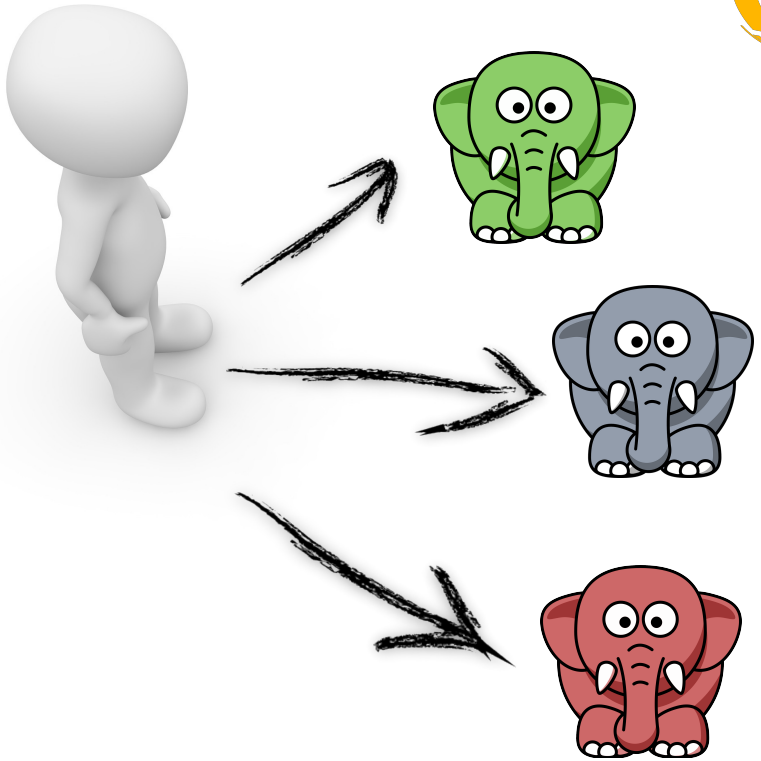
QGIS
ArcGIS


Open Street Map
Google Maps



decisions are difficult!

we are always
looking for
the “grey value”



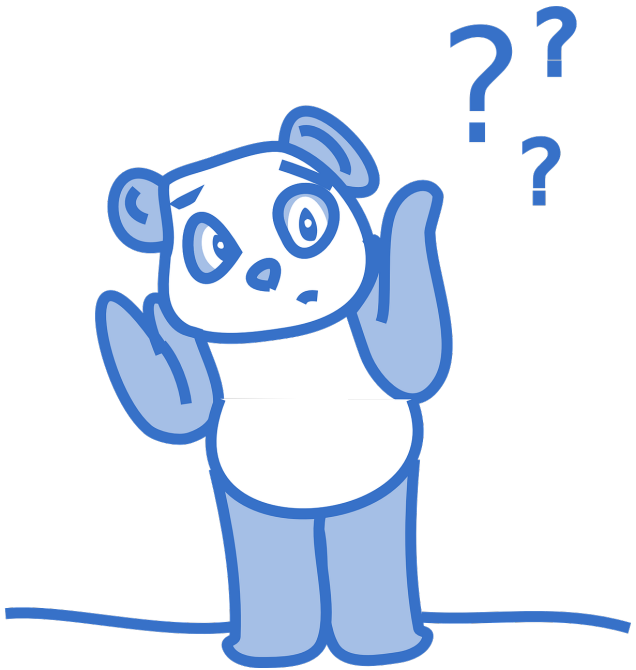
in geodesy research and research in general we have to consider that it is always political.

Fallas de Valencia

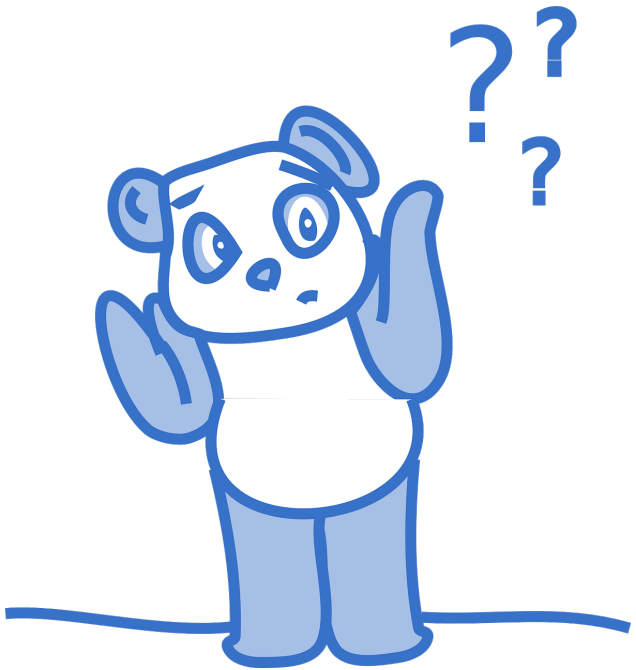
source: @stella_gaeodaiesie via Instagram - https://www.instagram.com/p/BglElDMnhnU/?taken-by=stella_geodaesie

the “right” objective decision of a developer is often not concordant with the “right” political statement.

open software and **open source code** is **better** than **close blackboxes** to allow **reproducibility** and **transparency**, ...



...but proprietary software might be faster or more convenient to use.



example
git

what is git?

- **git** is a version control system for tracking changes
- **git** is primarily used for source code management in software development
- **git** is free and open source software distributed under the terms of the GNU General Public License version 2

source: https://en.wikipedia.org/wiki/Git

the basic software

git

By Jason Long (http://git-scm.com/downloads/logos)
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git cloud services

GitHub

Atlassian Bitbucket

SOURCEFORGE

commercial:

centralised - owned by a firm

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git cloud services

GitLab

semi-commercial: open source - centralised - owned by a firm - decentral self-hosting possible

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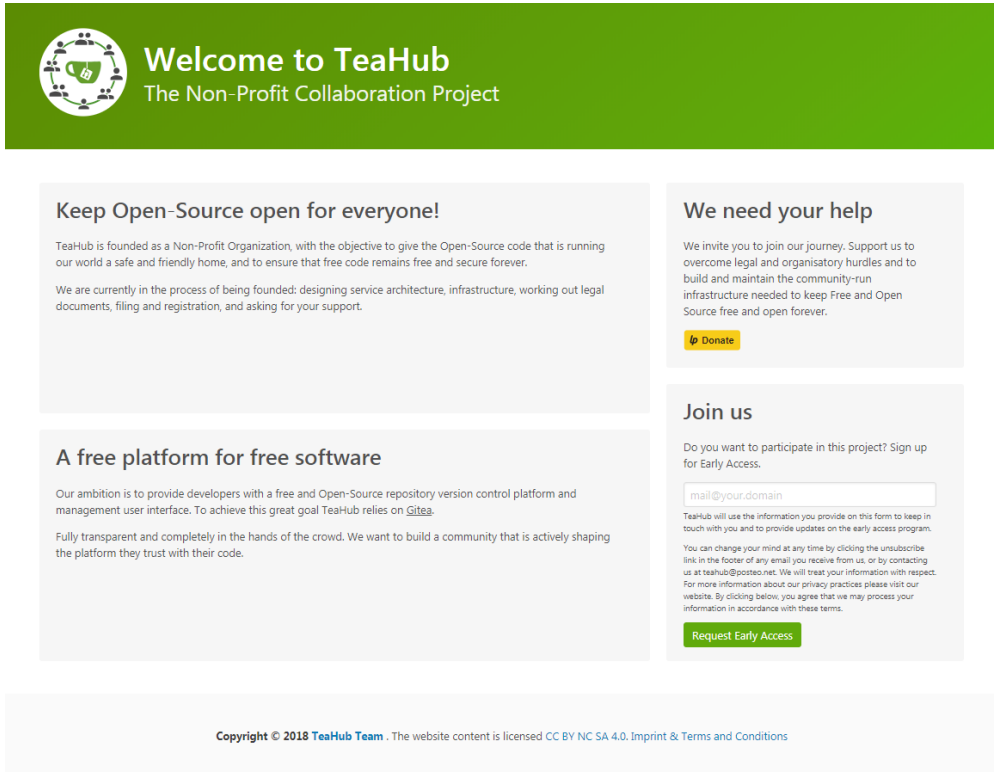
git cloud services

TeaHub

by Gitea & Gogs

community hold: open source - centralised - owned by a community - decentral self-hosting possible via Gitea / Gogs

logos by https://gitea.io & https://gogs.io & https://teahub.io



14/06/2018: new idea for a community driven european git

screenshot by https://about.teahub.io acced at 20/06/2018

our task...

“

*“looking for the **“grey value”** and **“right” decision** in **version control software** in **software development**, here especially **git**.”*

git
fight
EVERLAST

visibility vs. open source

community
ethics of science

GitHub

- 24 million users
- 1.5 million organizations
- 67 million repositories

GitLab

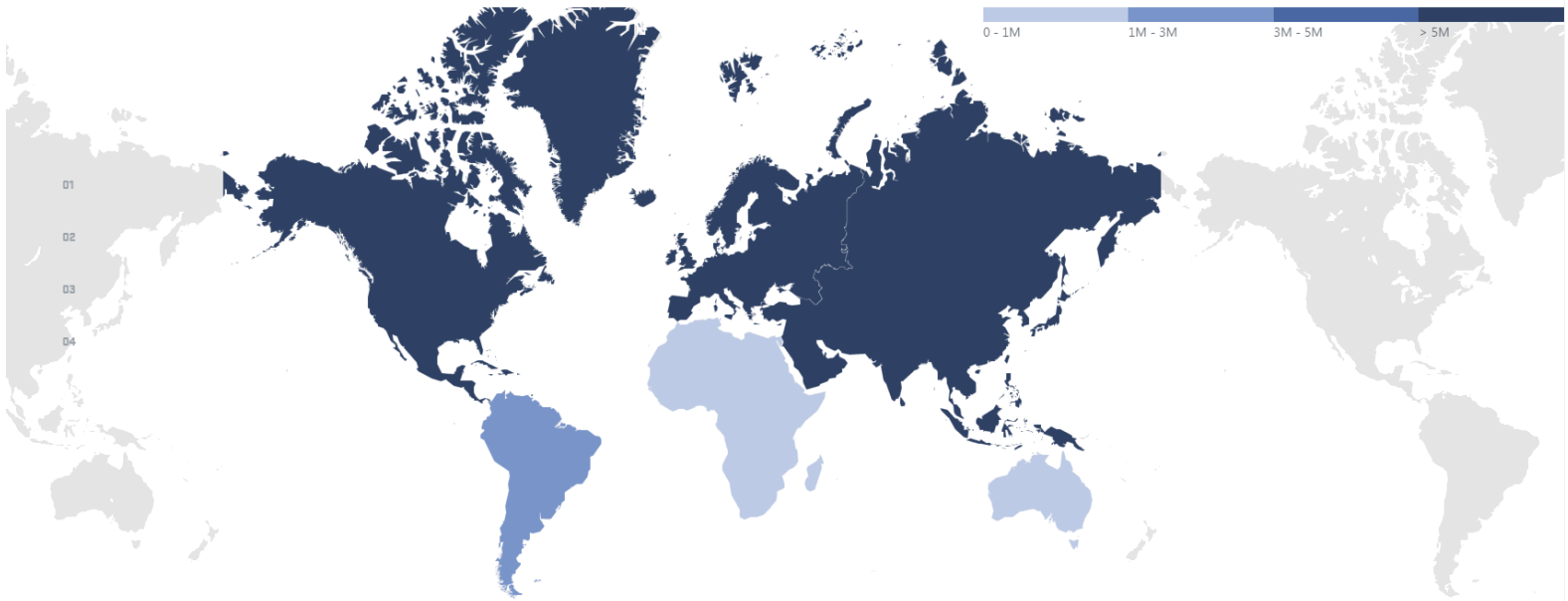
- some million users
- > 100.000 organizations

TeaHub

- under development

visibility

sources: https://octoverse.github.com and https://about.gitlab.com



GitHub community

source: https://octoverse.github.com/

open source

more FOSS (Free Open Source Software)

GitHub

- commercial

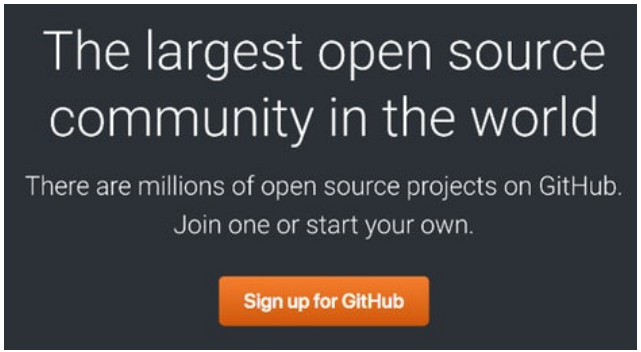
GitLab

- semi-commercial OSS

TeaHub

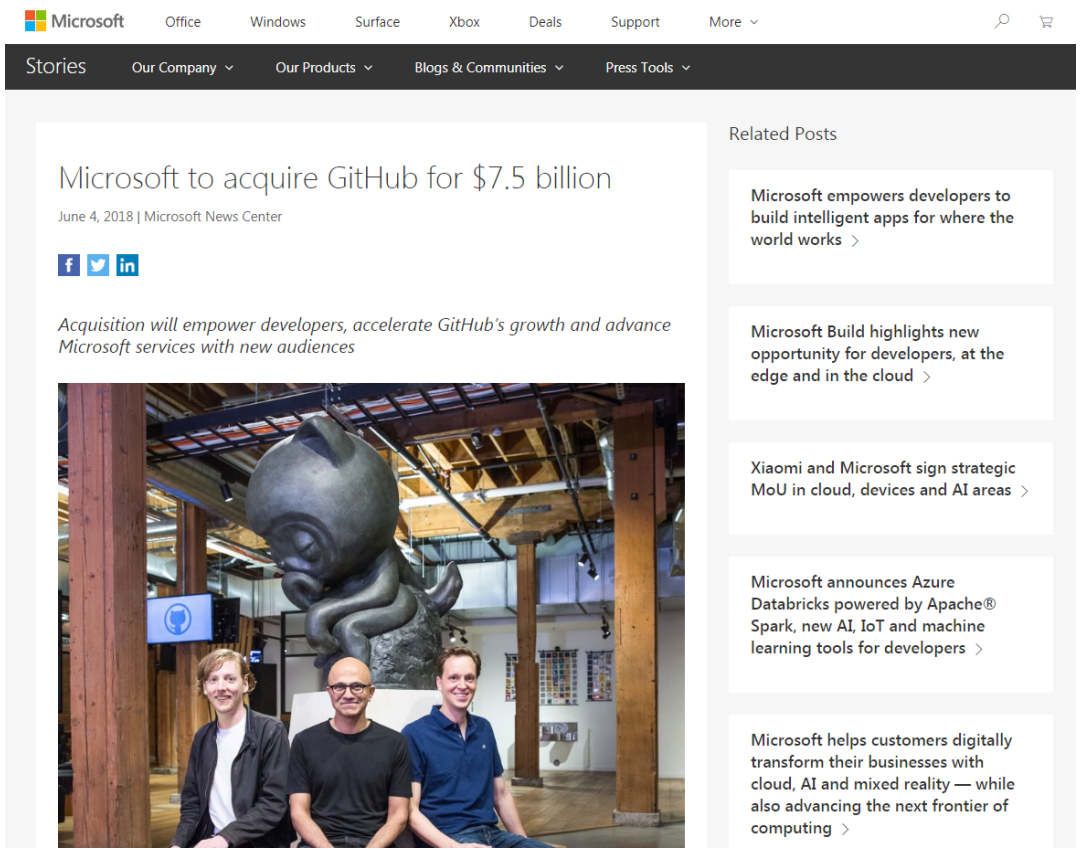
- community hold OSS

...but Gitea is also hosted on...



GitHub has the “largest open source community in the world” ...but is not open source itself...

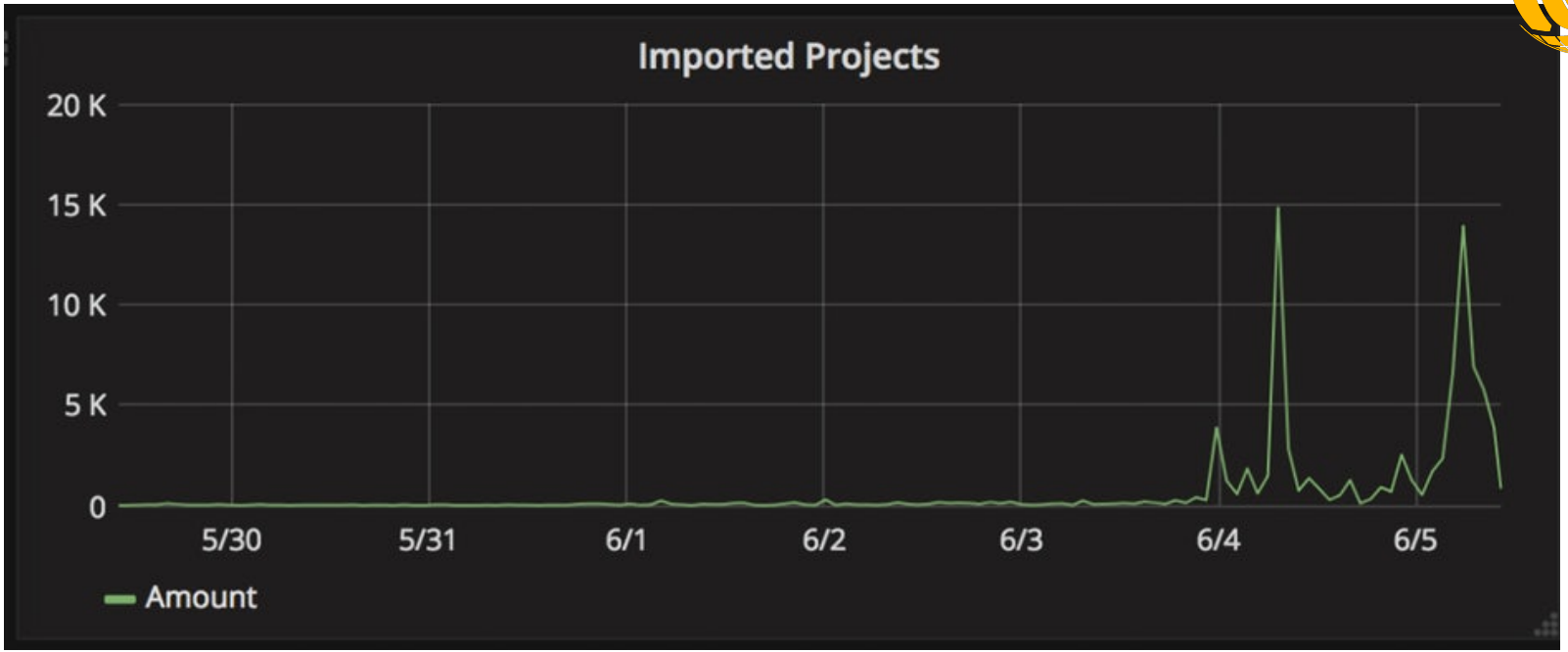
source: https://t3n.de/news/gitlab-das-neue-github-1084992/github_grosste_open_source_community/



4/6/2018

Microsoft to acquire GitHub for $7.5 billion

source: https://news.microsoft.com/2018/06/04/microsoft-to-acquire-github-for-7-5-billion/



developers left Github and import their repositories to Gitlab.

source: https://t3n.de/news/gitlab-das-neue-github-1084992/github_grosste_open_source_community/

many developers do not want to leave their data with major companies and are in favor of more decentralization.

source: https://t3n.de/news/gitlab-das-neue-github-1084992/github_grosste_open_source_community/

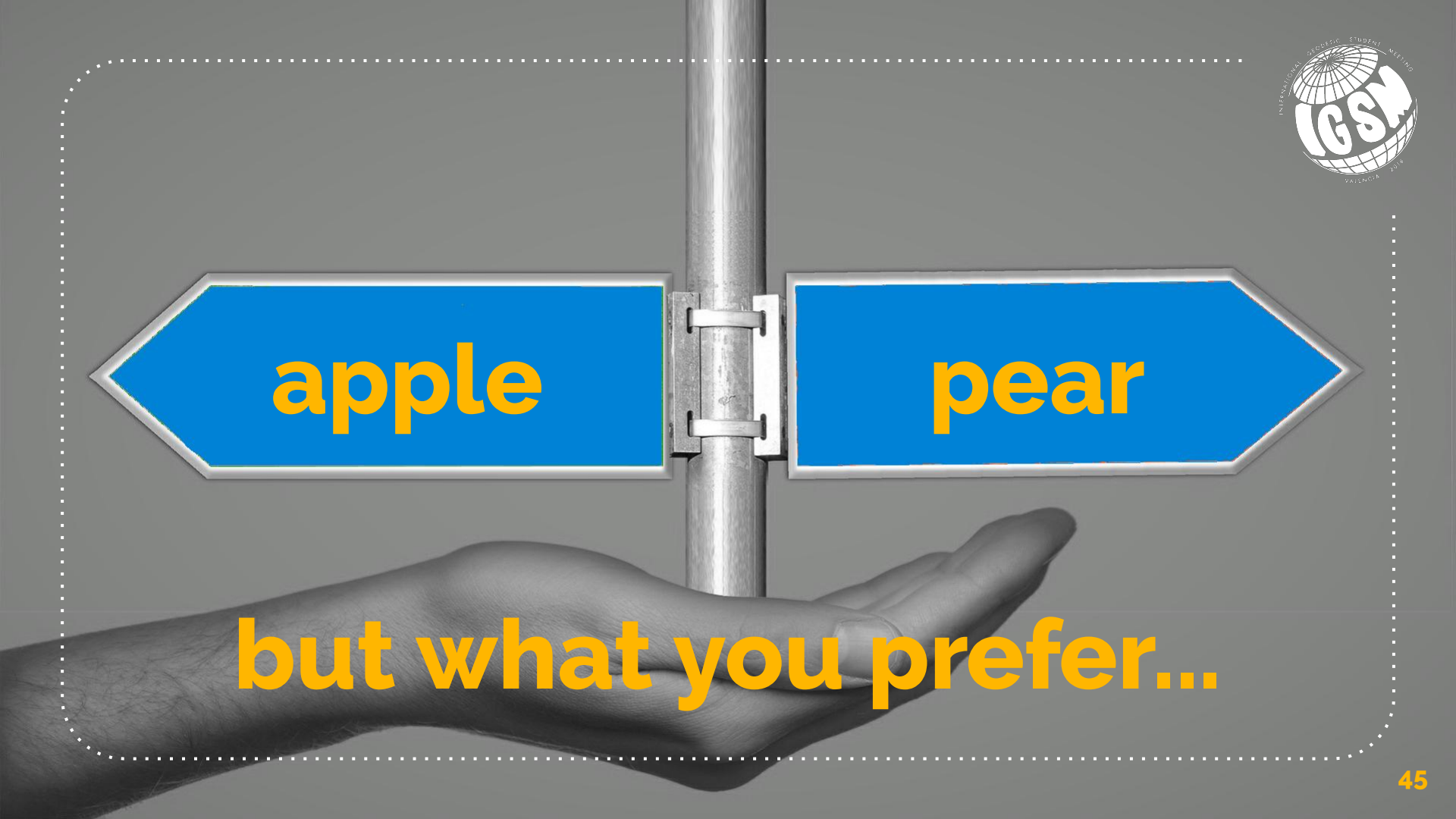
real open source: TeaHub?
community vs. companies - who wins?

source: https://teahub.io

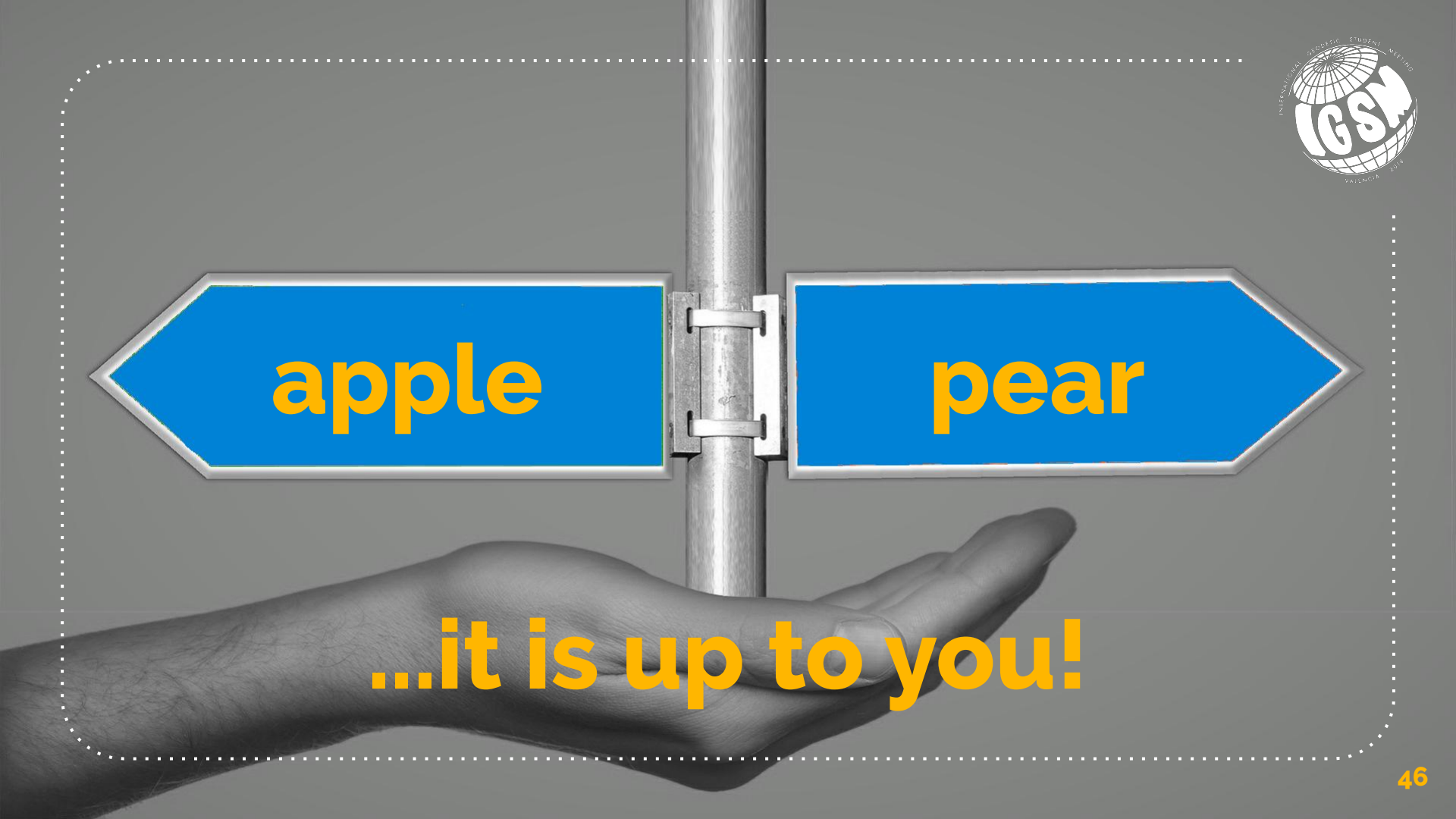
solution?

maybe
a decentral
git OSS-index

for research
and developers...



but what you prefer...


apple
pear
...it is up to you!

Thx!

Any questions?

You can find us on Twitter **@fthierygeo** and **@nevromeCS** .

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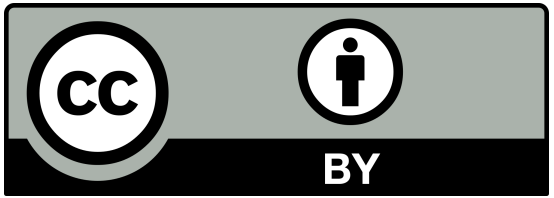

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