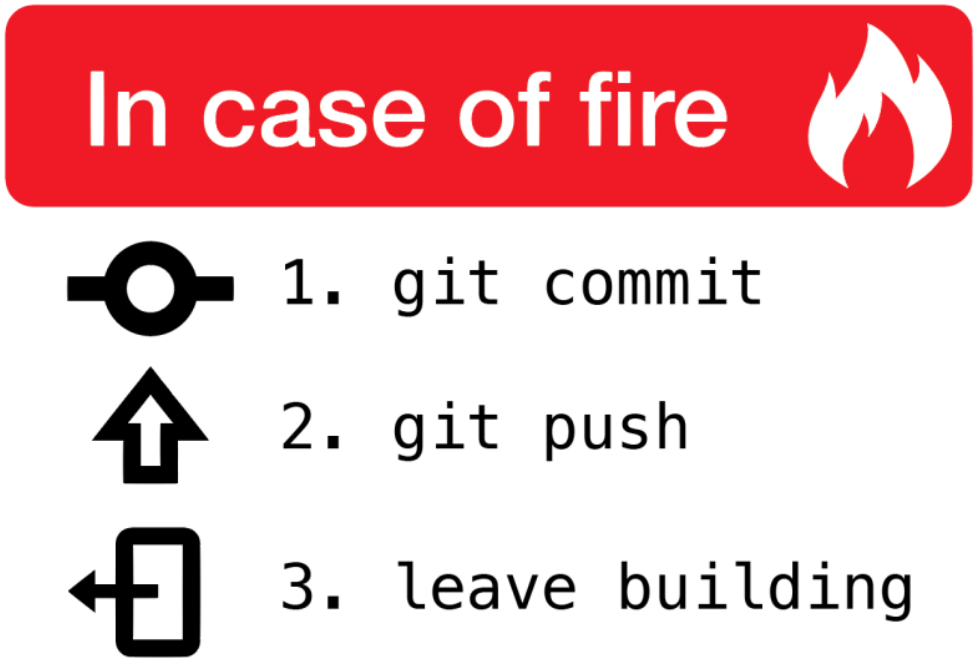
Version control

(aka Git and GitHub)

NASA ADS

(or what makes other areas of physics jealous)

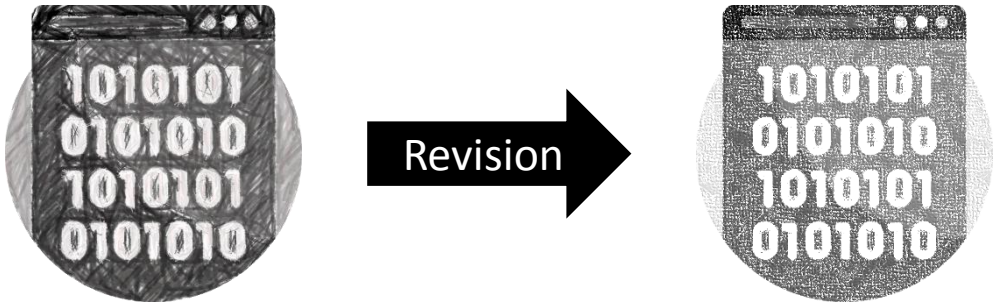

In case of fire
1. git commit
2. git push
3. leave building

PUSH REJECTED, REBASE OR MERGE
GIT PUSH --FORCE
memegenerator.net

Version control

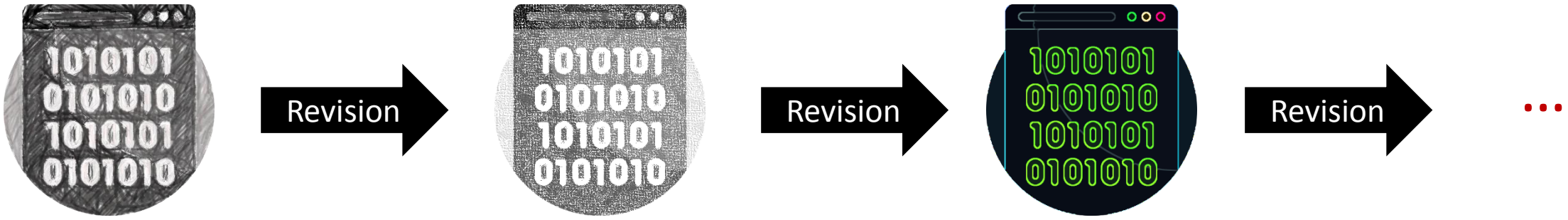
Version 1.0

Version control



Version 1.0 Version 1.5

Version control



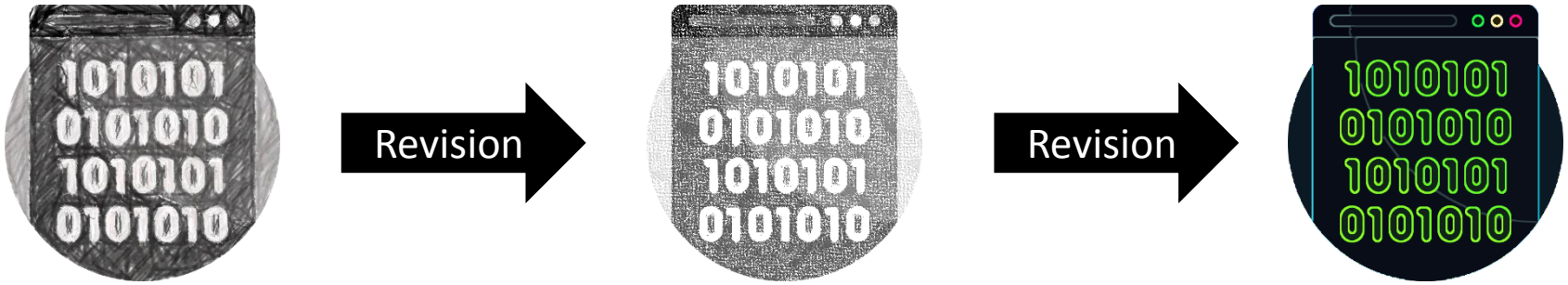
Version 1.0 Version 1.5 Version 2.0

Version control

Version 1.0 Version 1.5 LATEST

Version control

Version repository
(repo)



Version 1.0 Version 1.5 LATEST

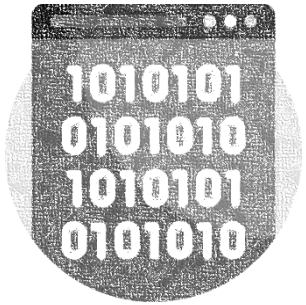
Git

Version control

Version repository
(repo)

Version 1.0

Revision



Version 1.5

Revision

LATEST

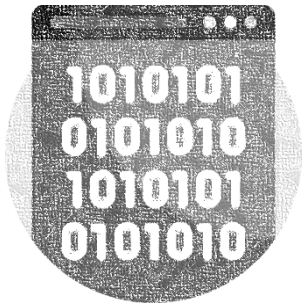
Version control

Version repository
(repo)

Git

Version 1.0

Revision

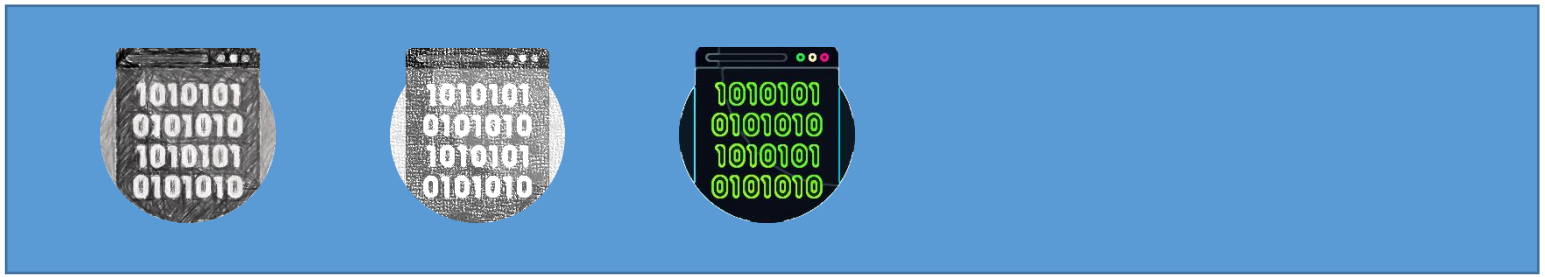


Version 1.5

Revision

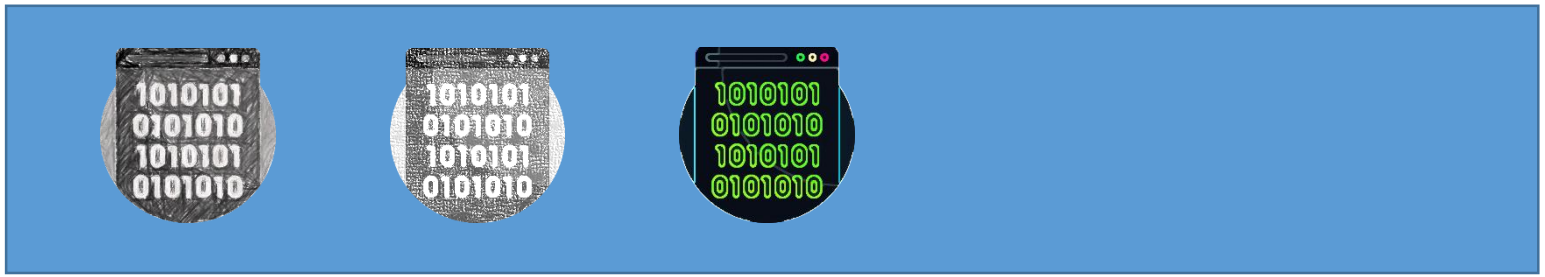
LATEST

Version control



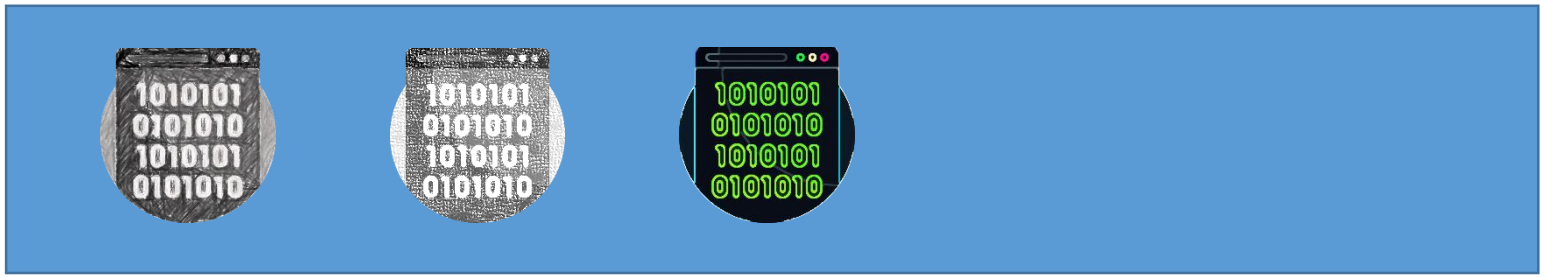
Git

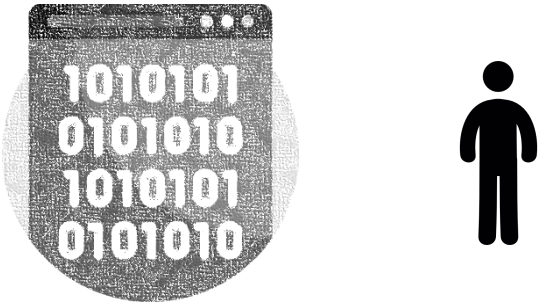
Version control



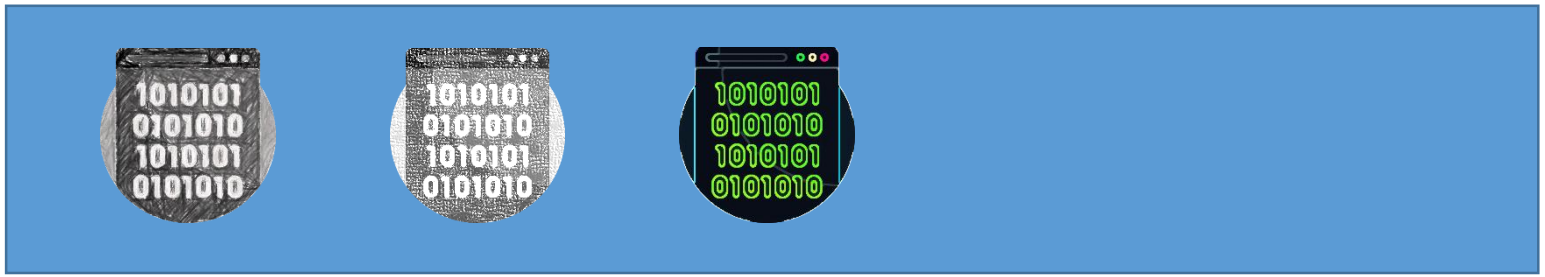
Git

Version control

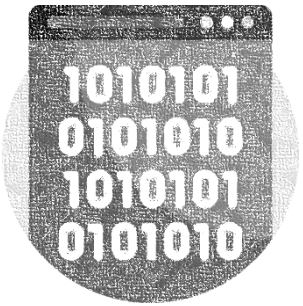




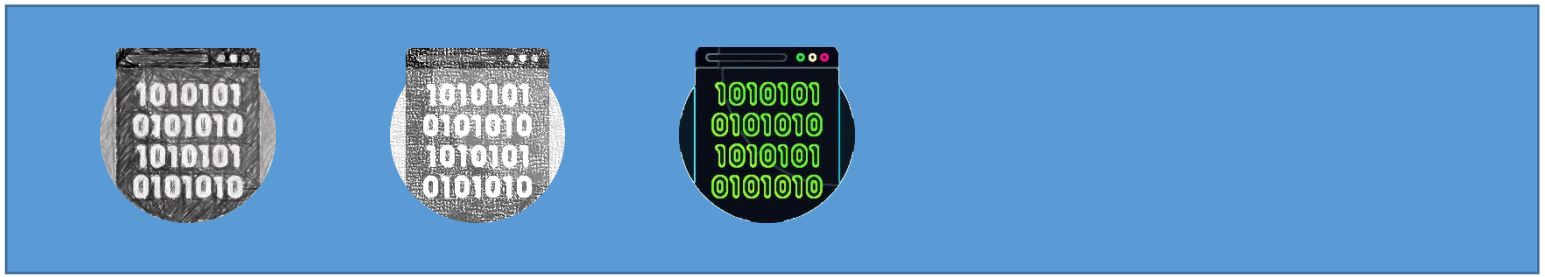
Version control



Git



Version control



Version control

Why???

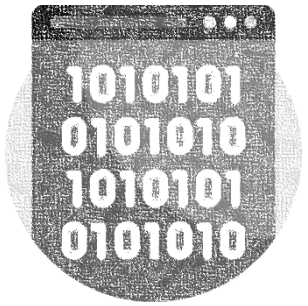
Version control

Inferior

Version 1.0

Revision

Inferior



Version 1.5

Revision

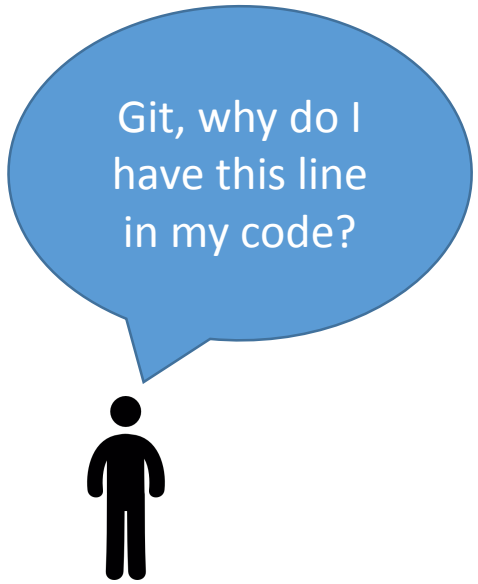
Best!!!

Version 2.0

Version control

5 Easy documentation

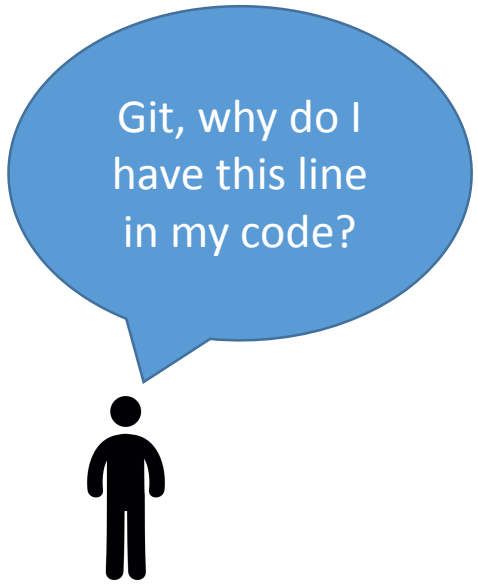
Version control




```
1  x = np.linspace(0, 1, 1000)
2  y = np.sin(x) ** 2.0
3  cats = 'Cats'
4  plt.plot(x, y)
```

5 Easy documentation

Version control



5 Easy documentation

Version control

4 Easy debugging

5 Easy documentation

Version control

4 Easy debugging

5 Easy documentation

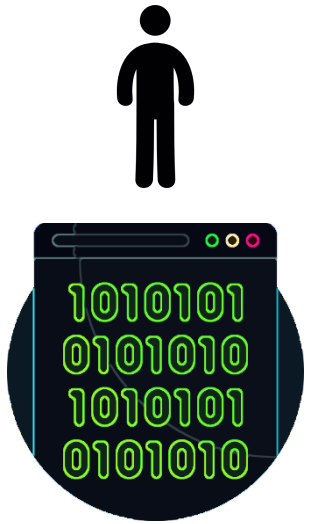
Version control

3 Easy distribution

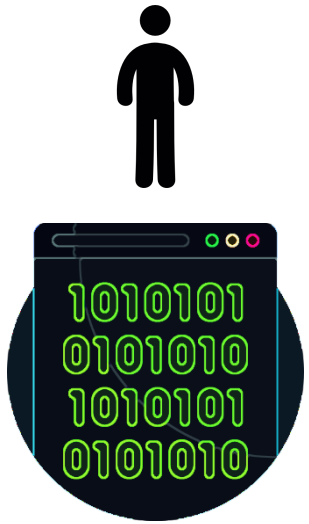
4 Easy debugging

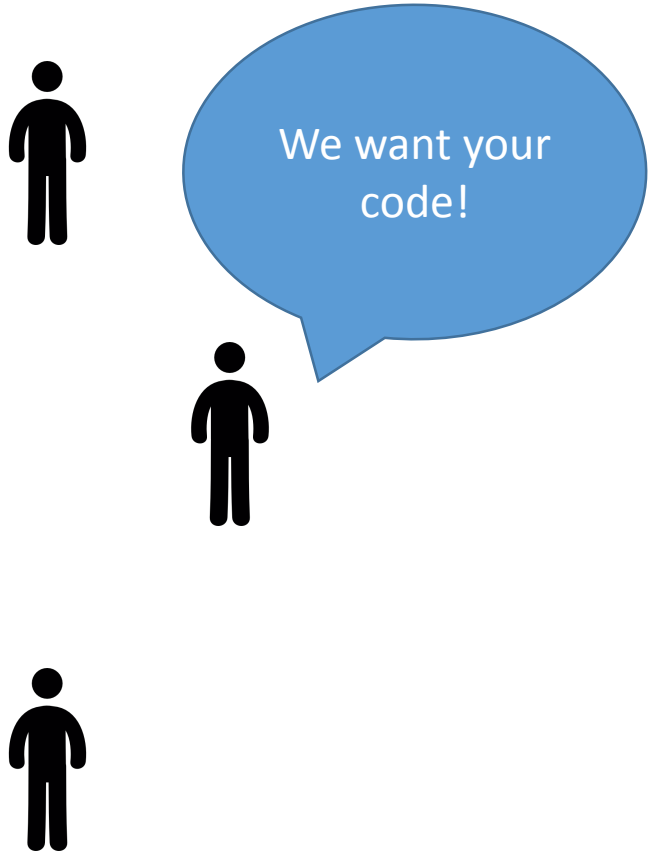
5 Easy documentation

Version control

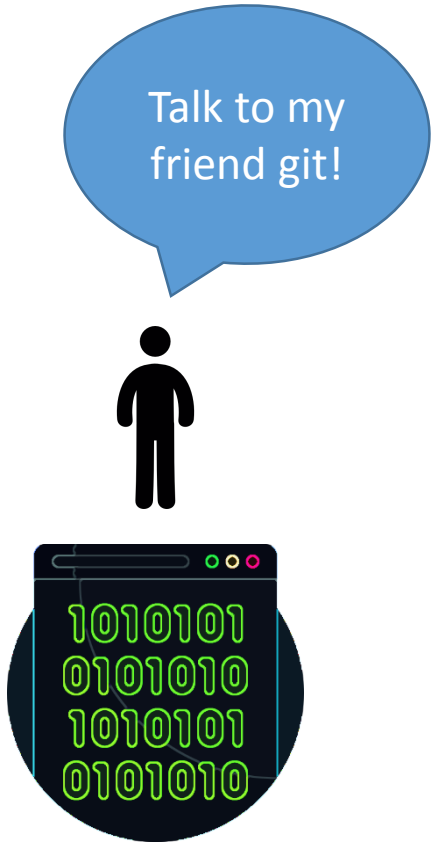


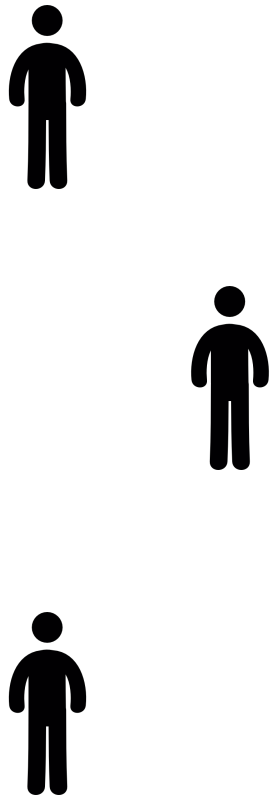
Version control





Version control





Version control

Repo

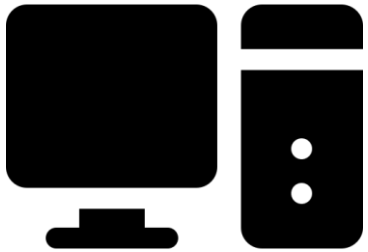
Version control

Repo

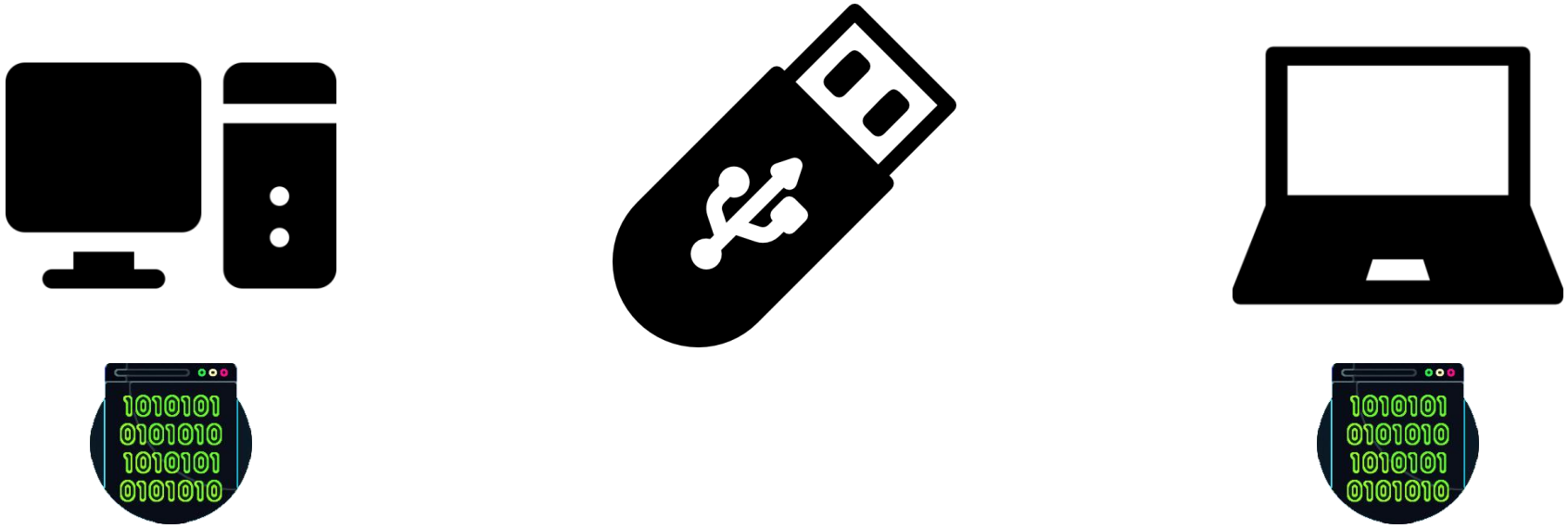
Version control

2 Easy synchronization

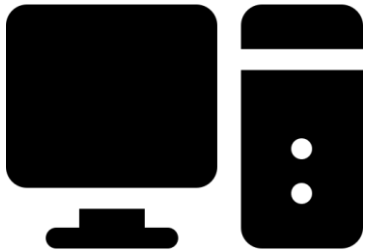
Version control



Version control

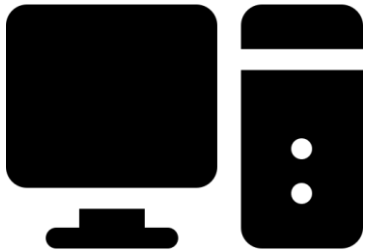


Version control

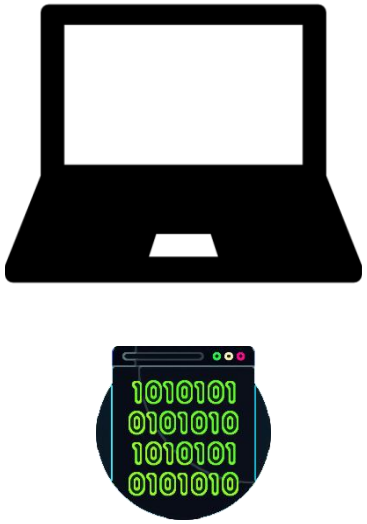


Git, give me latest

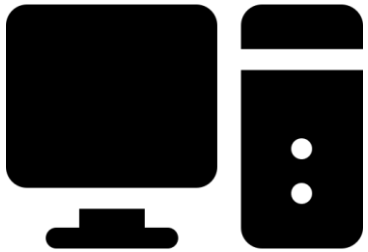
Version control



Version control



Version control

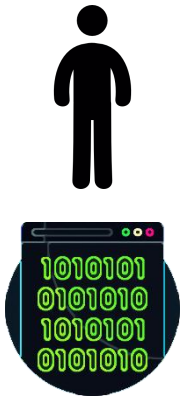


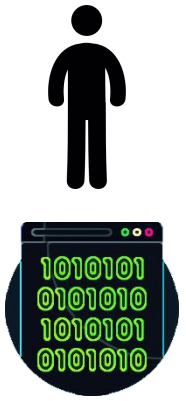
Also, supercomputers, telescope control hardware etc

Version control

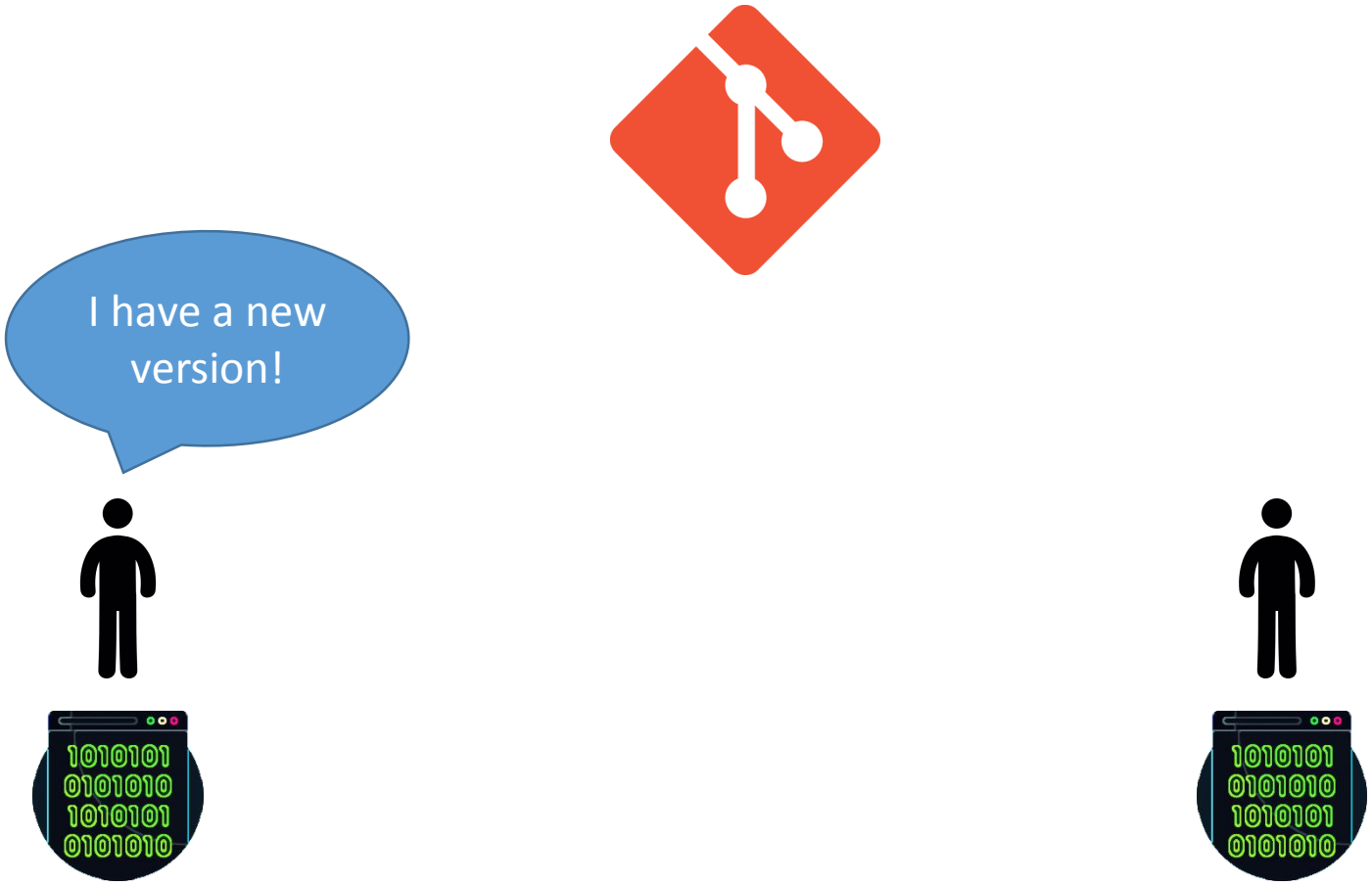
1. Collaboration

Version control

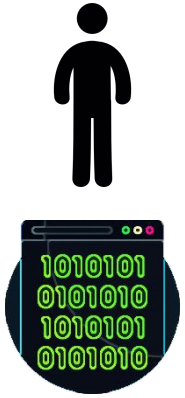


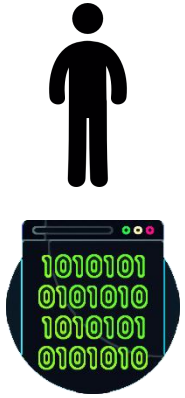


Version control



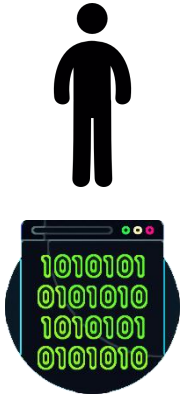
Version control

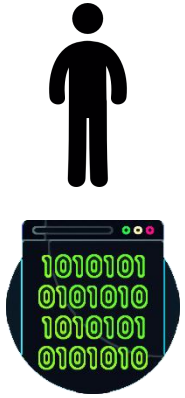




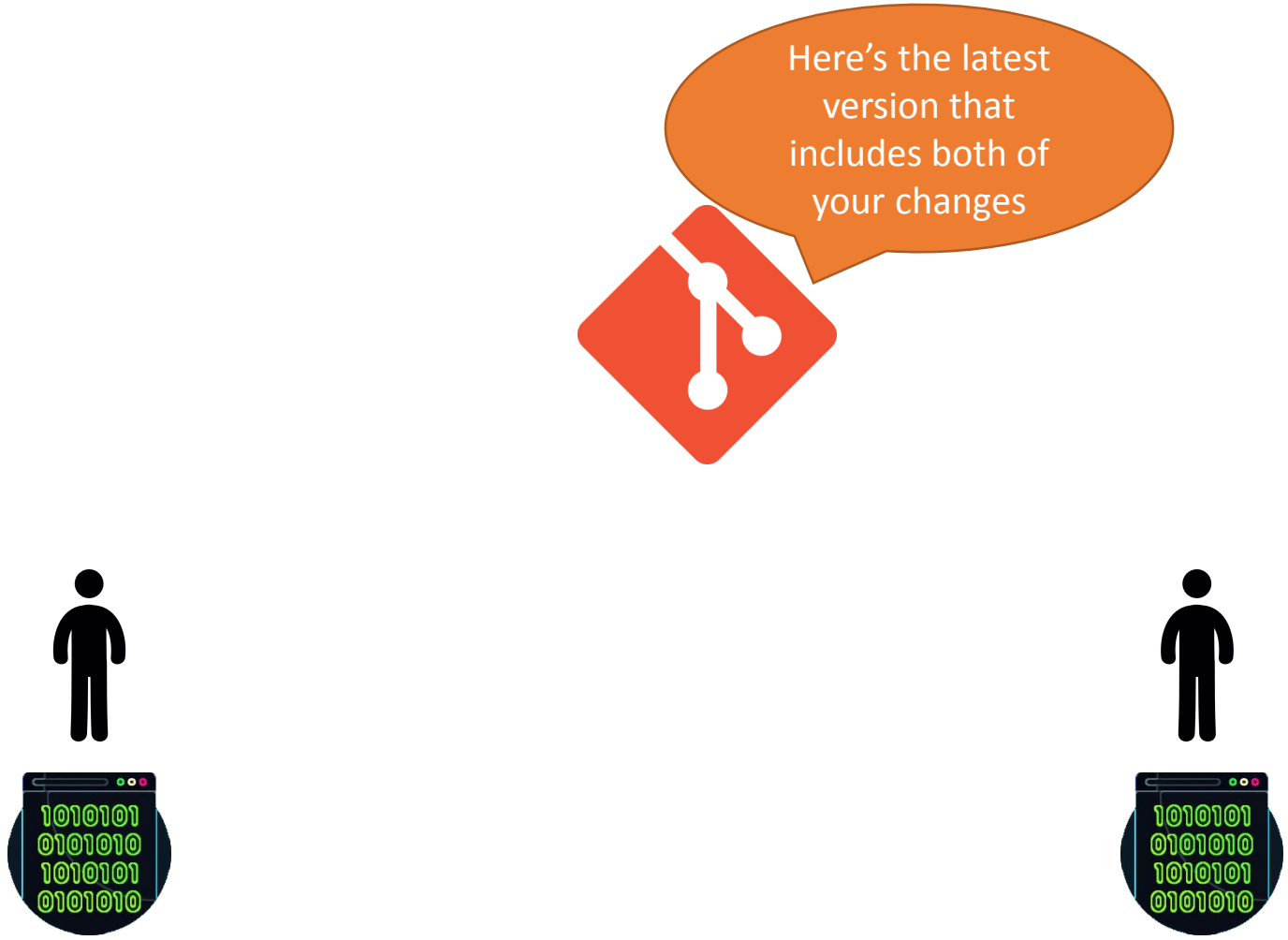
Version control

Version control

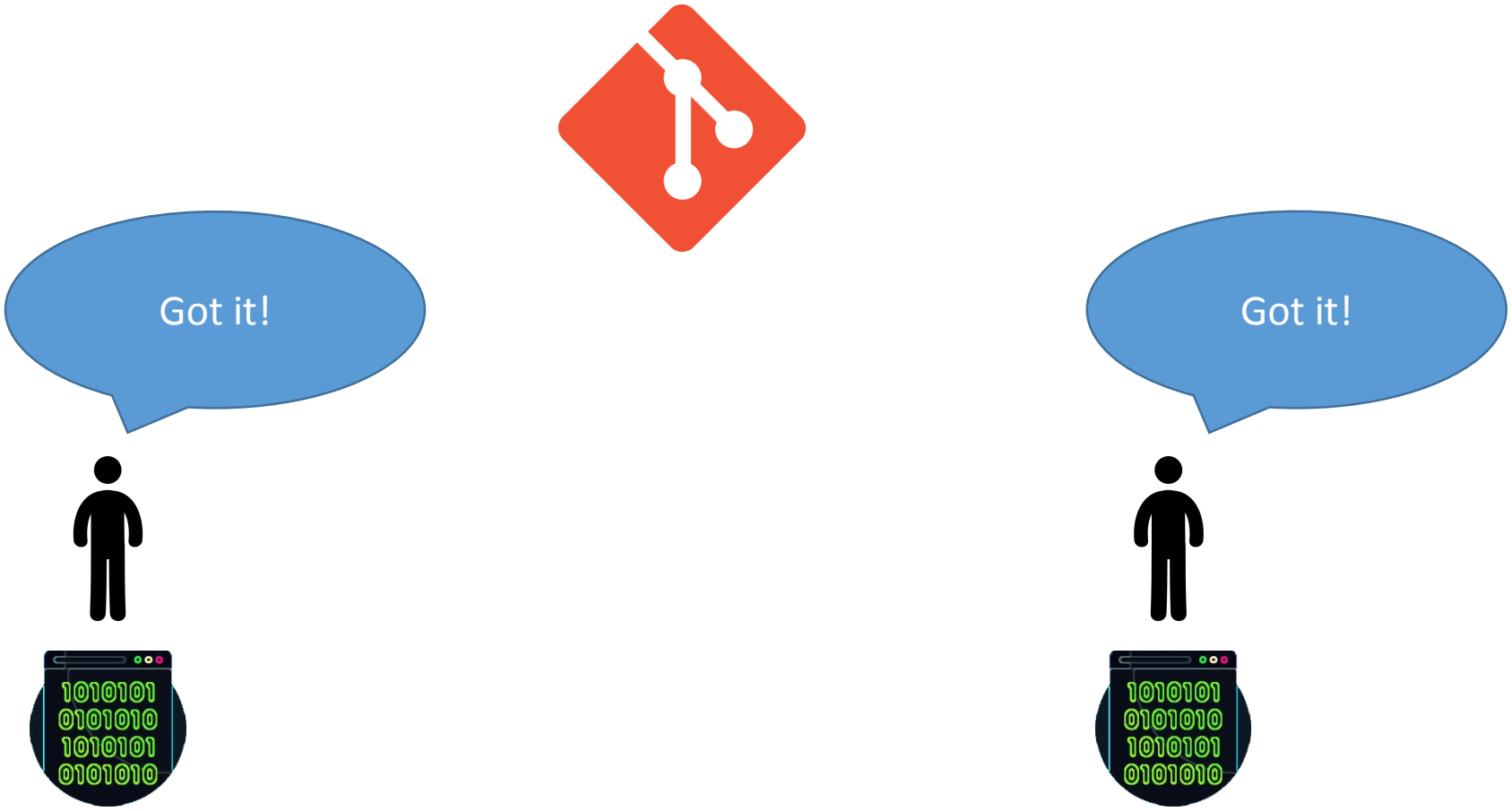




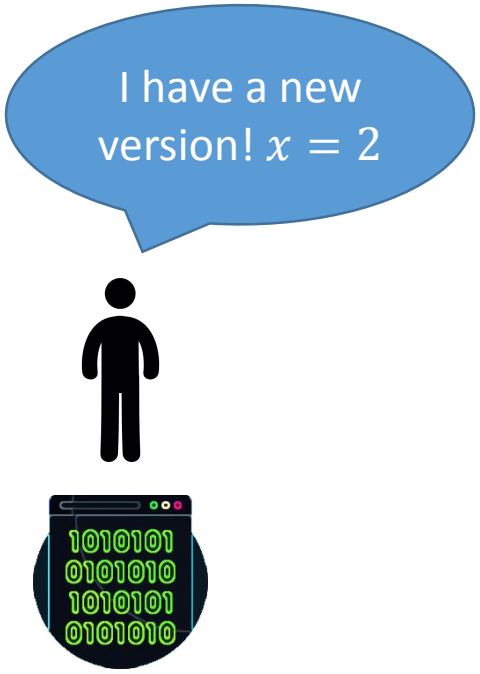
Version control

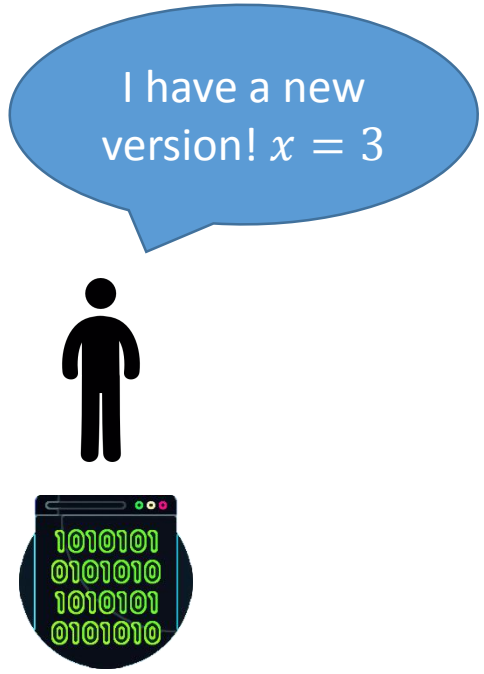


Version control

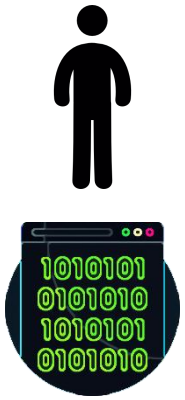


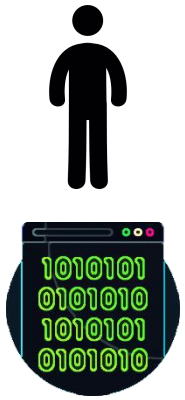
Version control



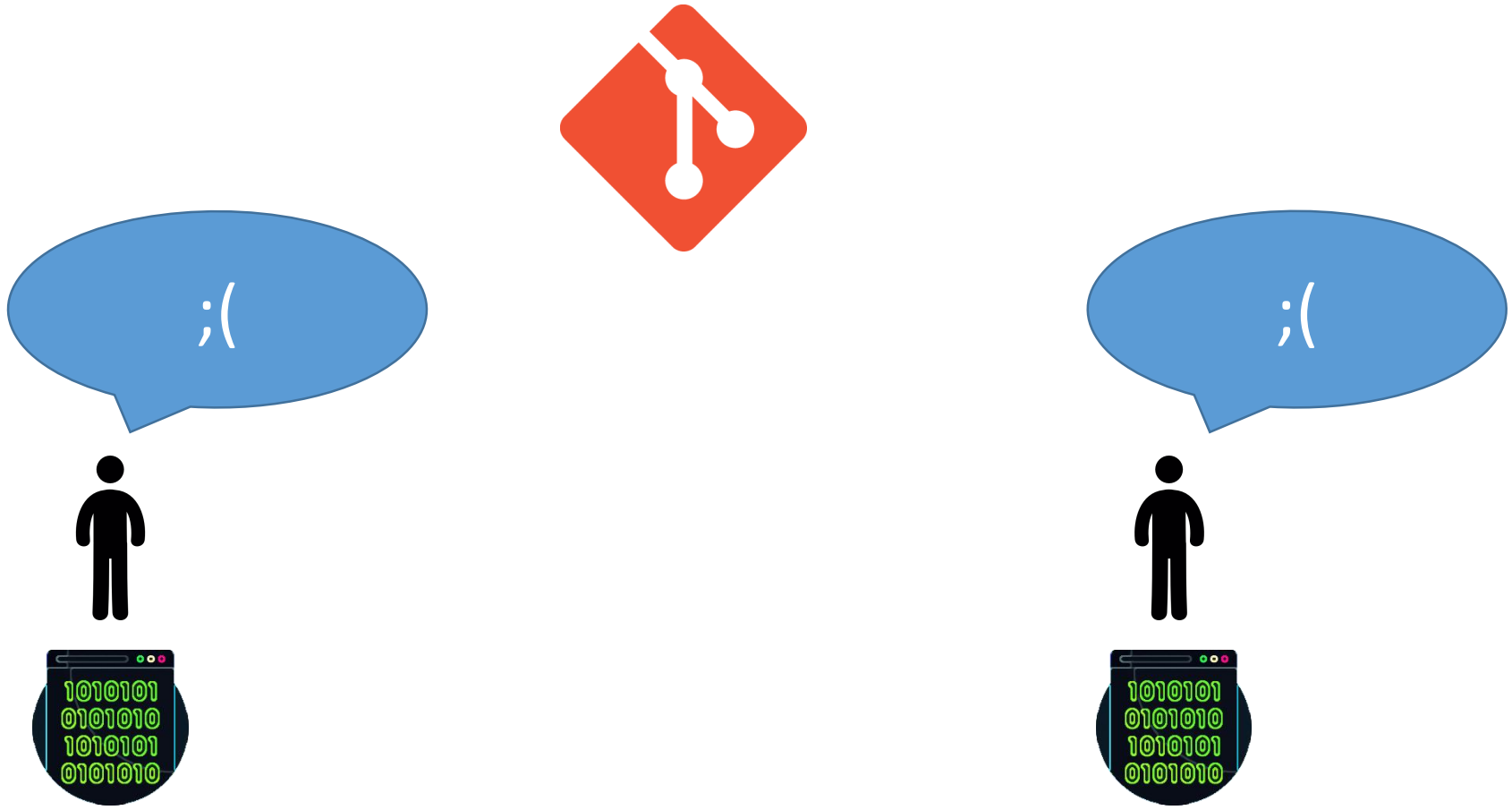


Version control

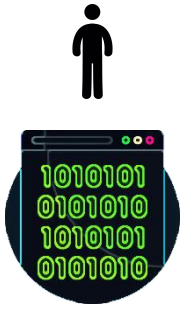


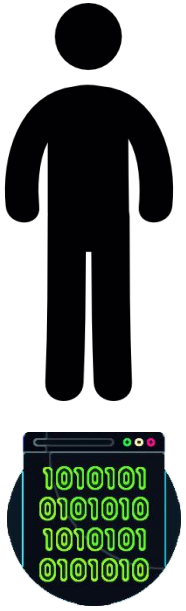


Version control

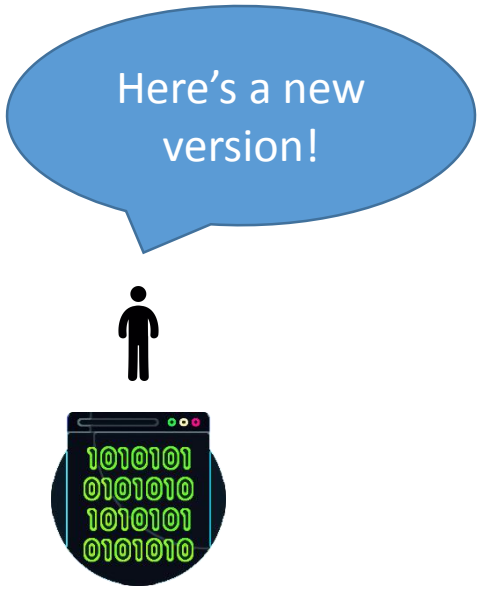


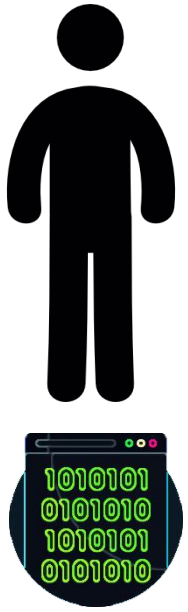
Version control





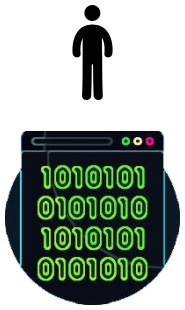
Version control

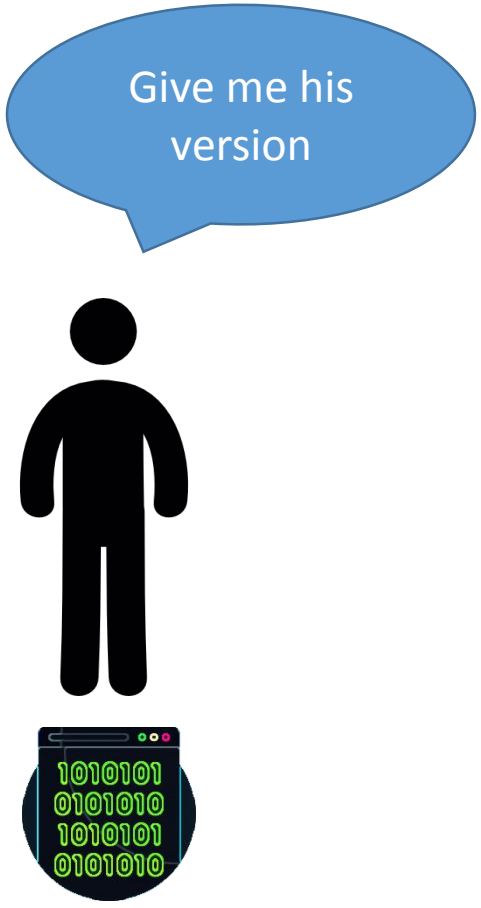




Version control

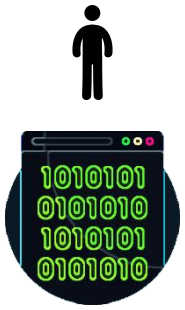
Version control

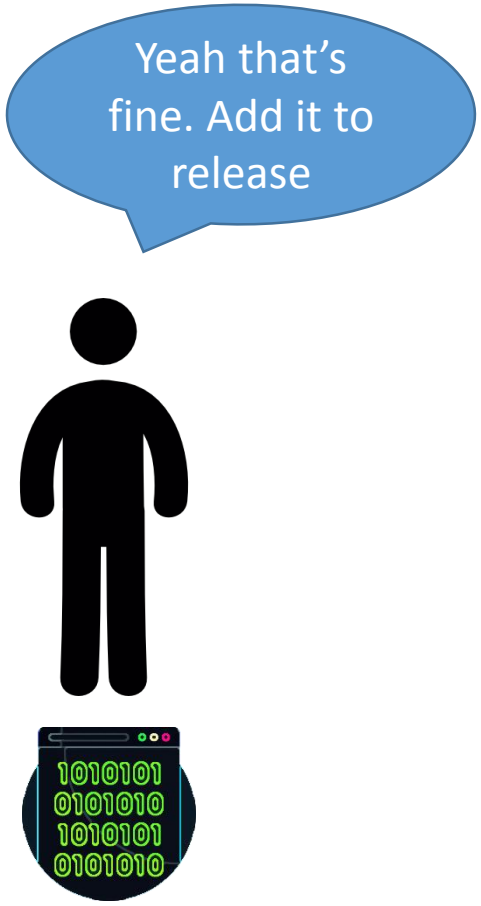




Version control

Version control

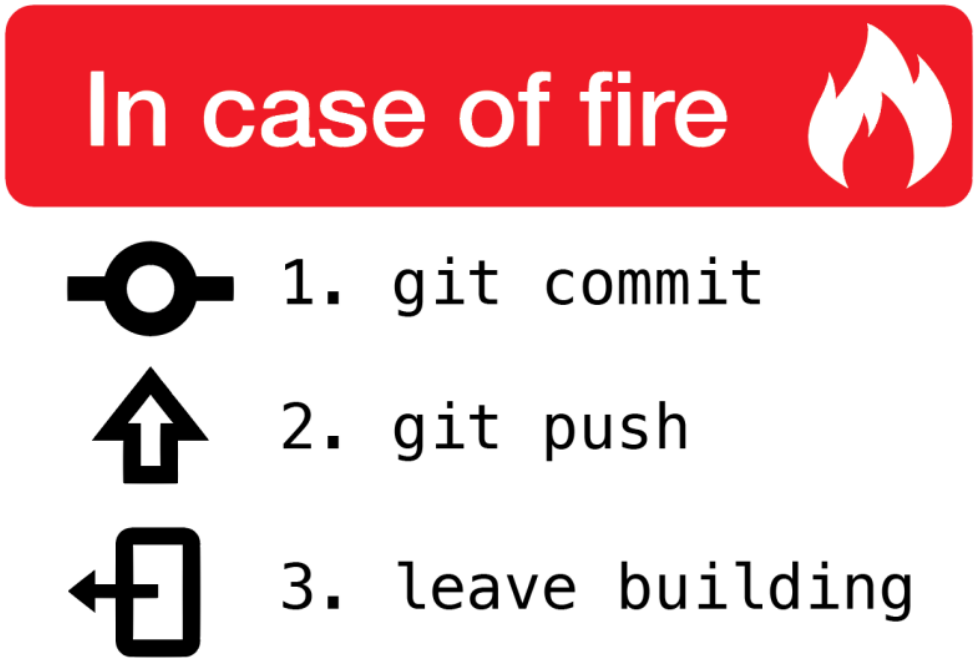




Version control

Version control

1. You will need it in this programme
2. Looks good on your CV


In case of fire
1. git commit
2. git push
3. leave building

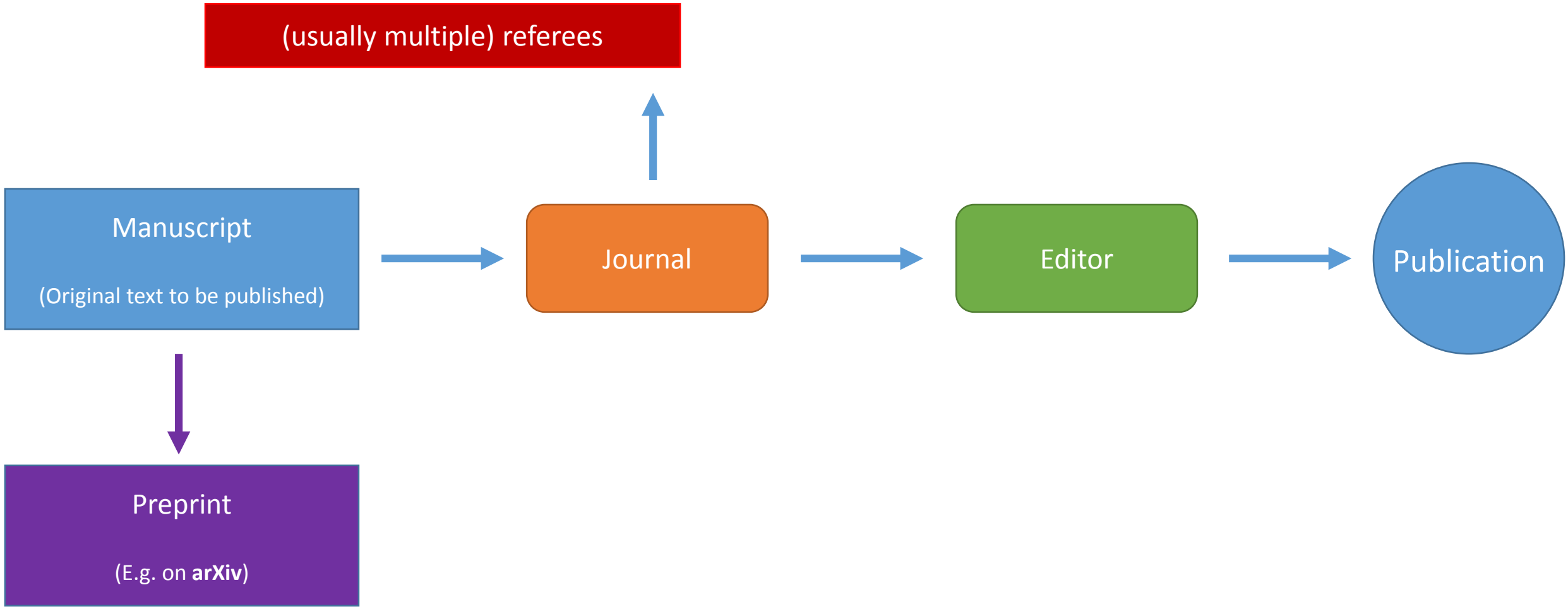
PUSH REJECTED, REBASE OR MERGE
GIT PUSH --FORCE
memegenerator.net

NASA ADS

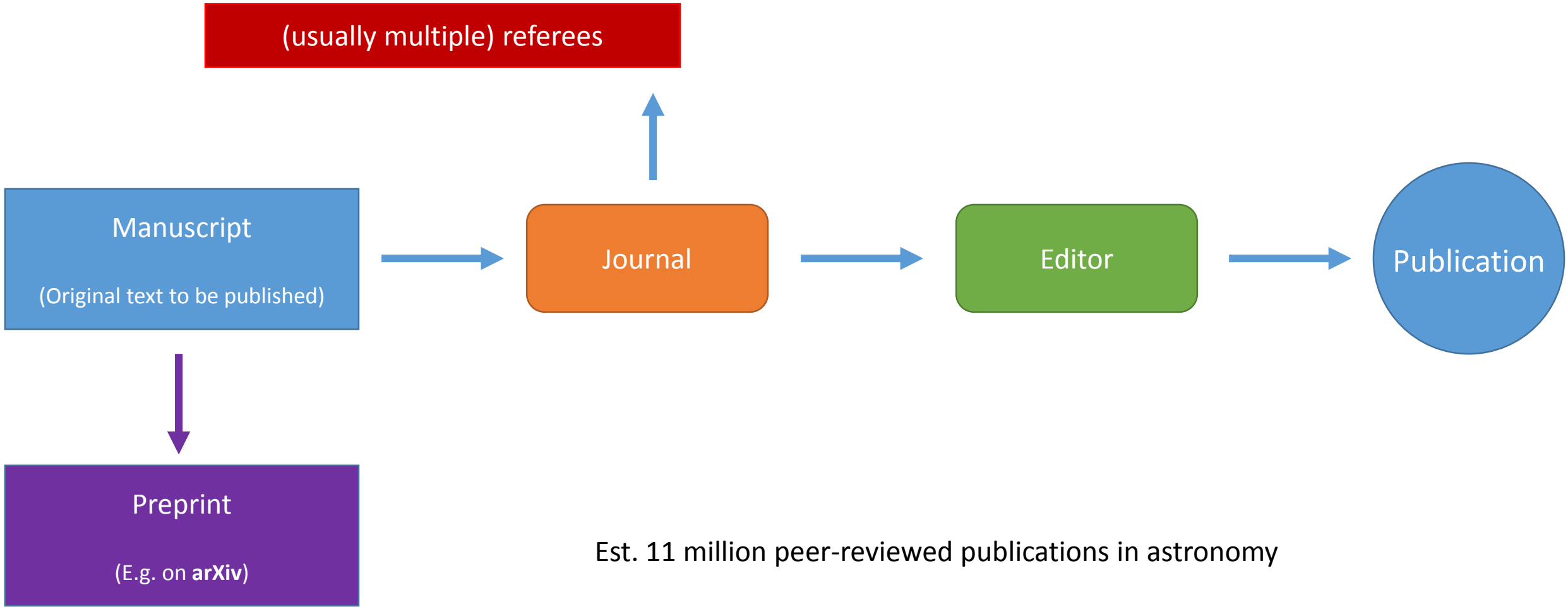
https://ui.adsabs.harvard.edu/

Astrophysics Data System

Academic publishing roadmap

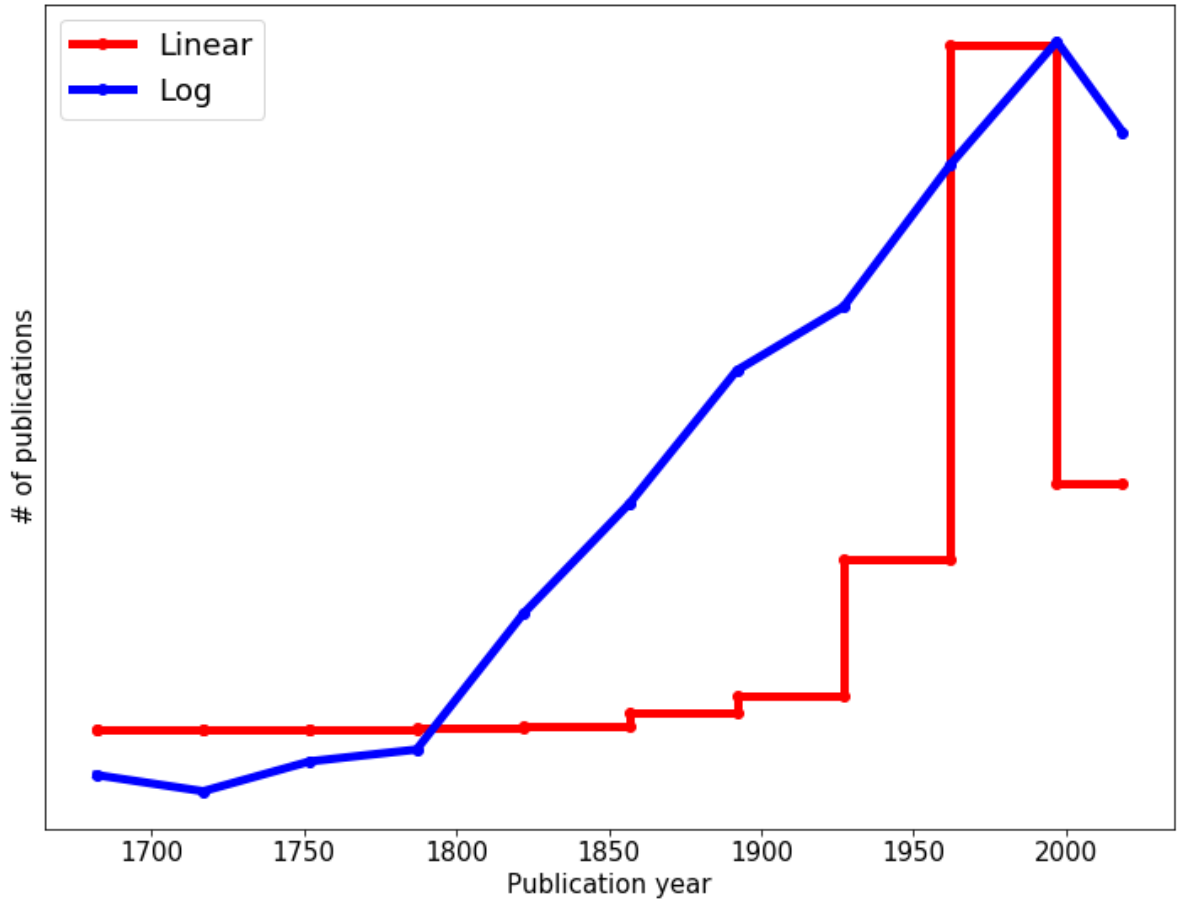


Academic publishing roadmap



Est. 11 million peer-reviewed publications in astronomy

Publication statistics



NASA ADS

https://ui.adsabs.harvard.edu/

Astrophysics Data System

NASA ADS

https://ui.adsabs.harvard.edu/

A few search tips:

To search by topic, simply type your query (like Google!)

```
Brown Dwarf
```

To only see peer-reviewed publications, add `property:refereed`

```
Brown Dwarf property:refereed
```

Need particular author? Add it to the query as `author:"..."`

```
Brown Dwarf property:refereed author:"Burgasser"
```

Add "^" to find first authorship only

```
Brown Dwarf property:refereed author:"^Burgasser"
```

Looking for papers published this year? Use `year:...`

```
Brown Dwarf property:refereed author:"^Burgasser" year:2020
```

You can also specify a range of years!

```
Brown Dwarf property:refereed author:"^Burgasser" year:2016-2020
```

Looking for a particular journal? Use `bibstem:...`

```
Brown Dwarf property:refereed author:"^Burgasser" year:2016-2020
bibstem:ApJ
```

See available bibstems at http://adsabs.harvard.edu/abs_doc/journal_abbr.html

NASA ADS

Authors may choose to make their manuscript available before it is accepted for publication on a preprint server (such as **arXiv**)

Pros	Cons
Early access to new work	Not peer-reviewed
Free of charge	May be low quality
Permanent storage	May be completely wrong
	May differ from the final version
	May have poor formatting

Finding the peer-reviewed version of the publication is strongly recommended! Only use **arXiv** version is absolutely need to. Rejected publication will be on **arXiv** too!

Let’s go hunting!

1

Find the following paper:

Konopacky, Q. M., Ghez, A. M., Barman, T. S., et al. 2010, ApJ, 711, 1087

Let's go hunting!

2

Find the following paper:

Burgasser 2007

In addition, given that a significant fraction (15% – 30%) of very low mass (VLM; $M < 0.1\ M_s$) stars and brown dwarfs are found in < 20 AU binary systems (e.g., Allen 2007; Burgasser 2007)

Let’s go hunting!

3

Find an estimate for the hydrogen-burning limit at the stellar/substellar transition

Let’s go hunting!

4

Find the discovery paper of the following celestial object:

TIC 405484335