

# Introduction to GitHub

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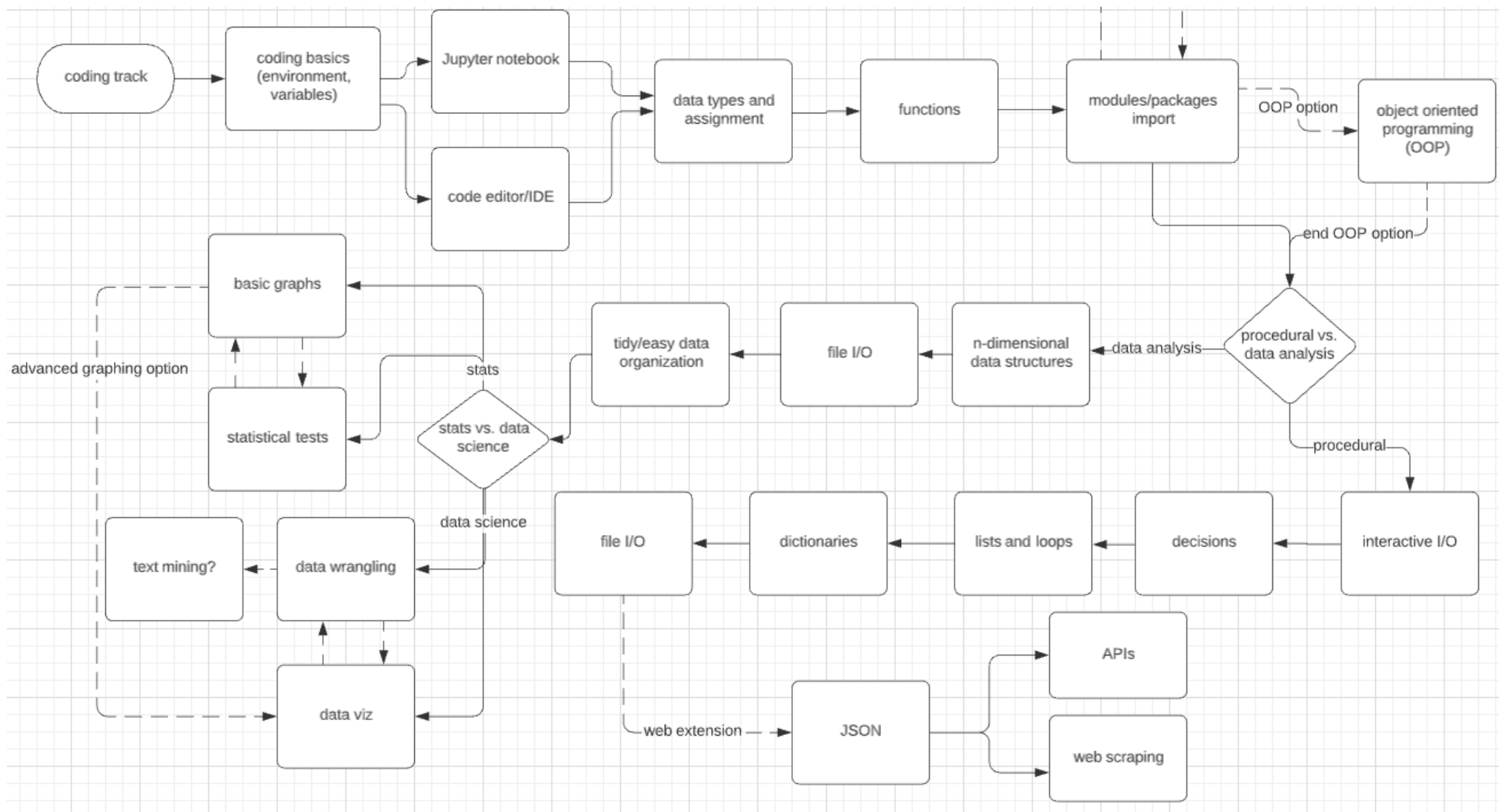


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# Digital Scholarship and Communications Office (DiSC)

- Unit of the Vanderbilt Libraries
- Support for data best practices (DMP tool, repositories), GIS, copyright, Linked Data (including Wikidata), tools (GitHub, ORCID, Open Science Framework, etc.), and Open Access publishing.
- Offers on-demand educational programming, consultations, web resources
- Typically offering lessons on Python, R, and GIS
- More online at: [vanderbi.it/disc](https://vanderbi.it/disc)
- Email: [disc@vanderbilt.edu](mailto:disc@vanderbilt.edu)

# What is CodeGraf?

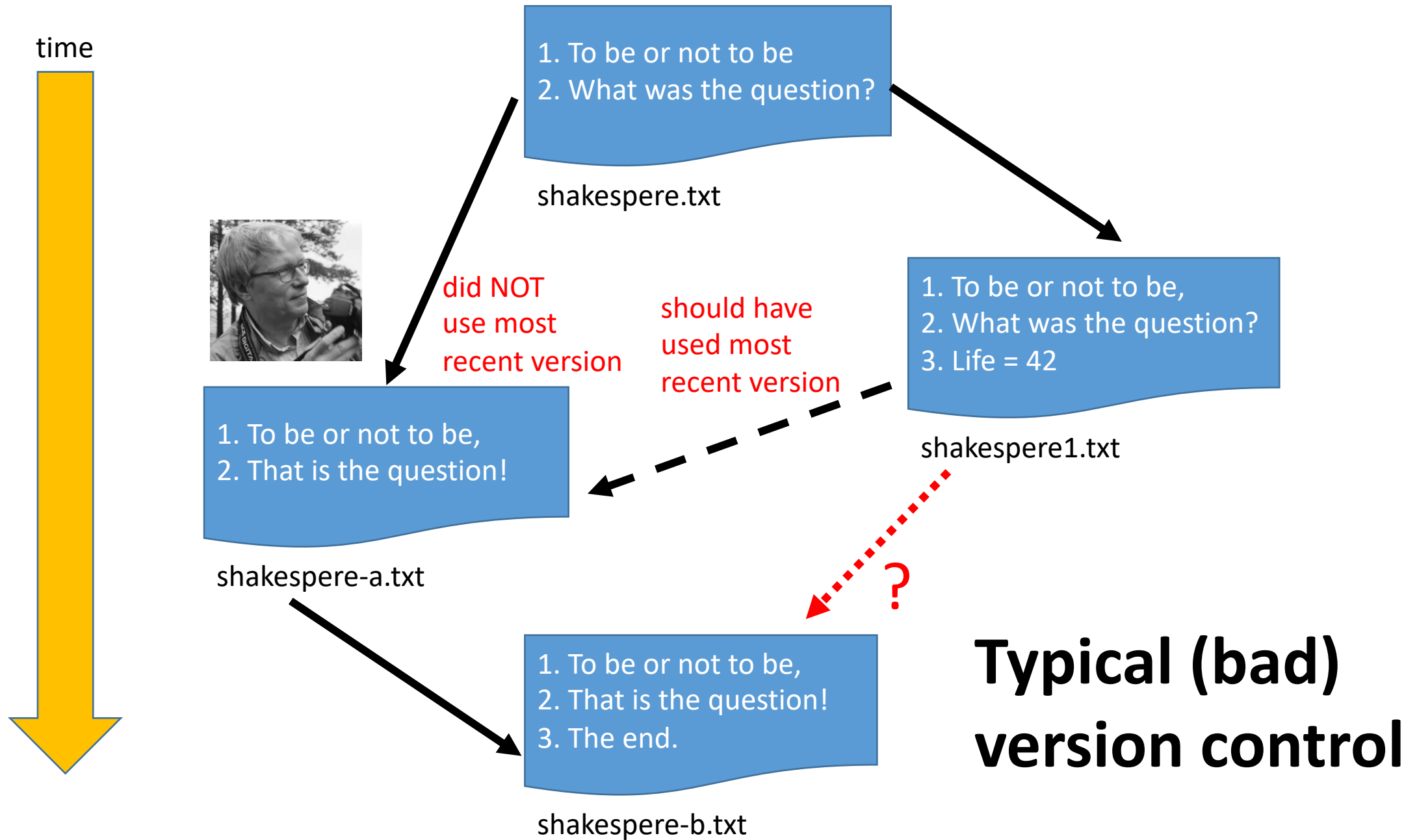


# What is version control?

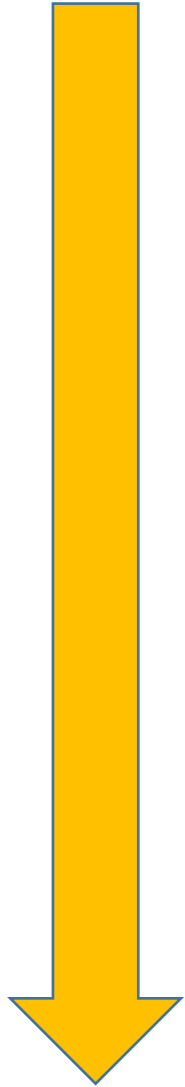
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# Version control

- a.k.a. source control
- A system to record changes to files over time.
- Allows you to track changes
- Allows you to revert to earlier versions if a disaster happens.
- Prevents version conflicts when collaborating.



time



1. To be or not to be
2. that is the question

shakespeare-2019-01-25.txt

1. To be or not to be,
2. That is the question!

shakespeare-2019-02-08.txt

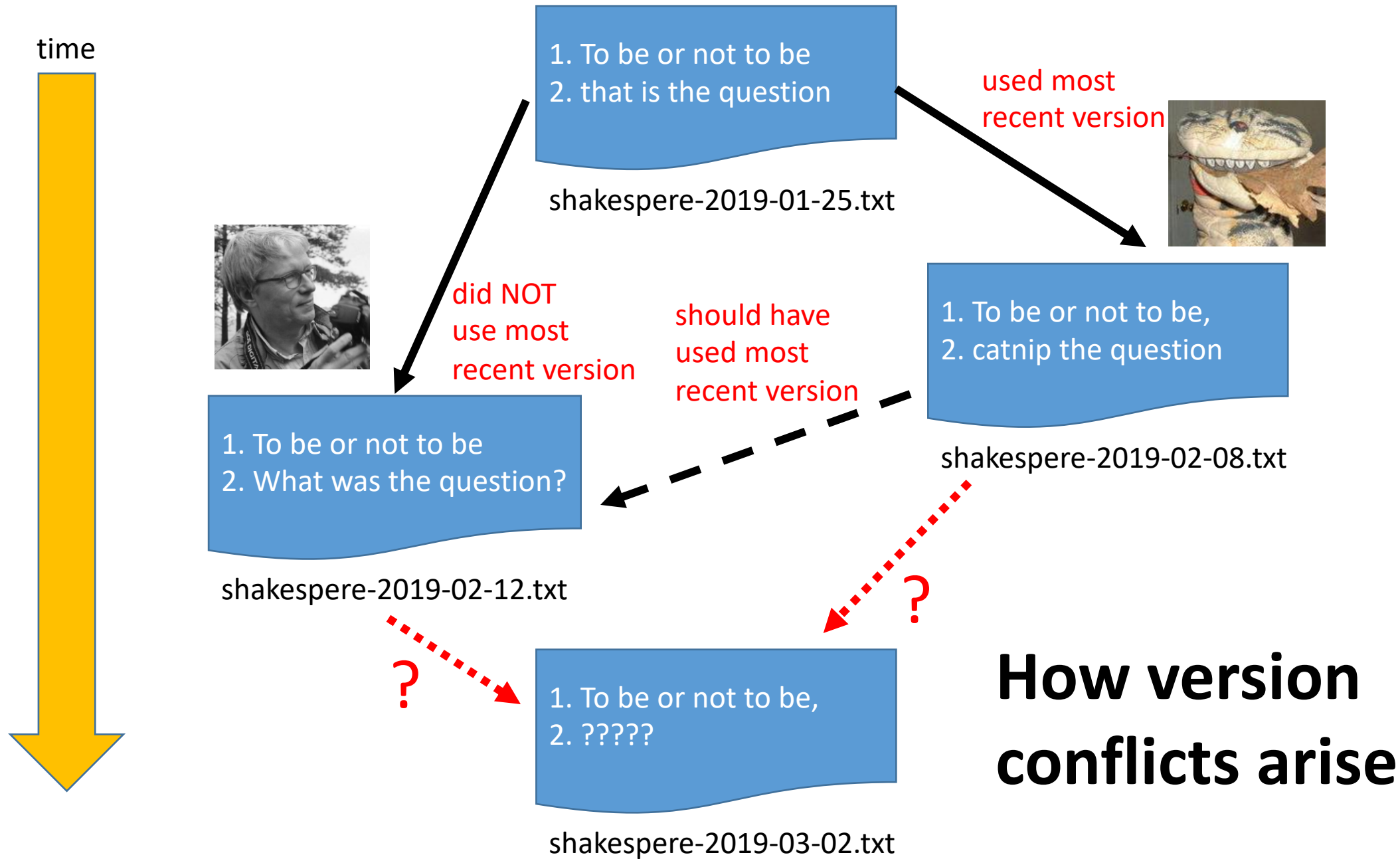
1. To be or not to be
2. That is the question!
3. Life = 42

shakespeare-2019-02-12.txt

1. To be or not to be
2. That is the question!
3. Life = 42
4. The end.

shakespeare-2019-03-02.txt

# Simple version control system





# Git vs. GitHub

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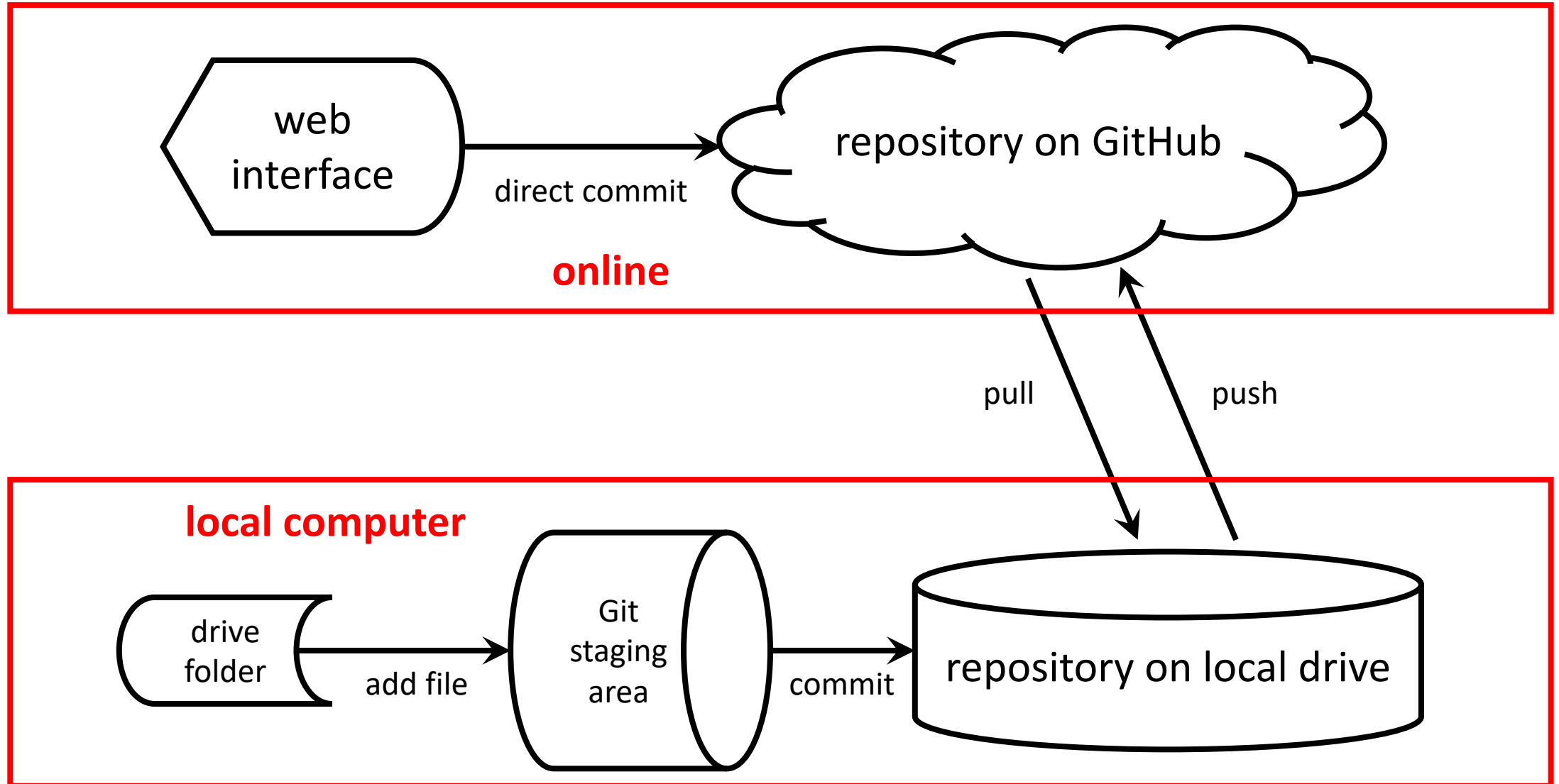
# What is Git?

- Git is a free, open source tool for version control.
- It is often used in a command line interface (terminal)
- It can be used only on your local computer or with a remote system
- Other alternatives to Git:
  - Subversion -> supported by Jira
  - Mercurial

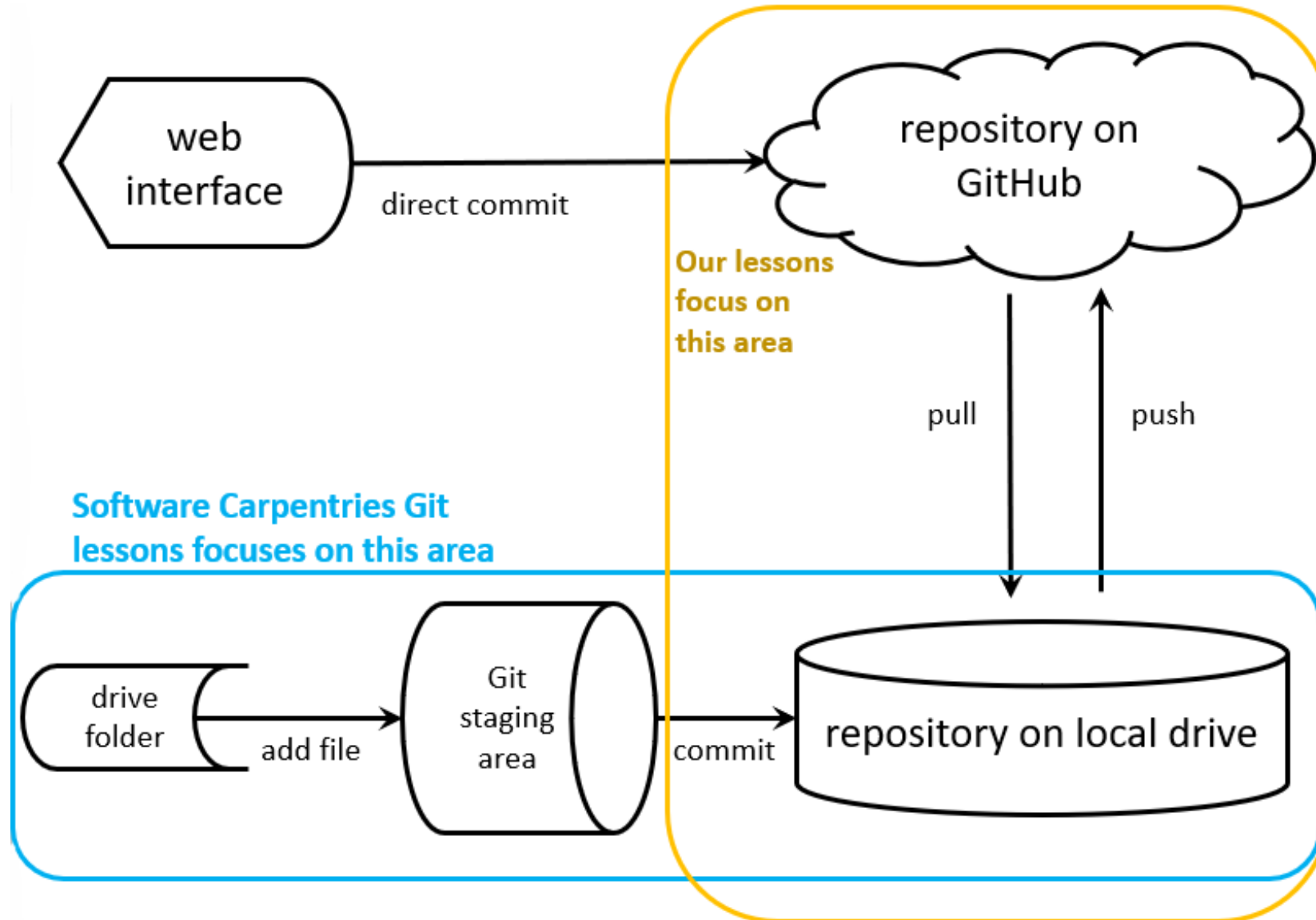
# What is GitHub?

- GitHub is a commercial website (now owned by Microsoft)
- Hosts projects by individuals and organizations.
- Free tier offers many services.
- Paid tier offers additional capabilities.
- GitHub uses Git to manage projects in the cloud.

# The World of Git and GitHub



# Learning command line Git via Software Carpentries



# Goals

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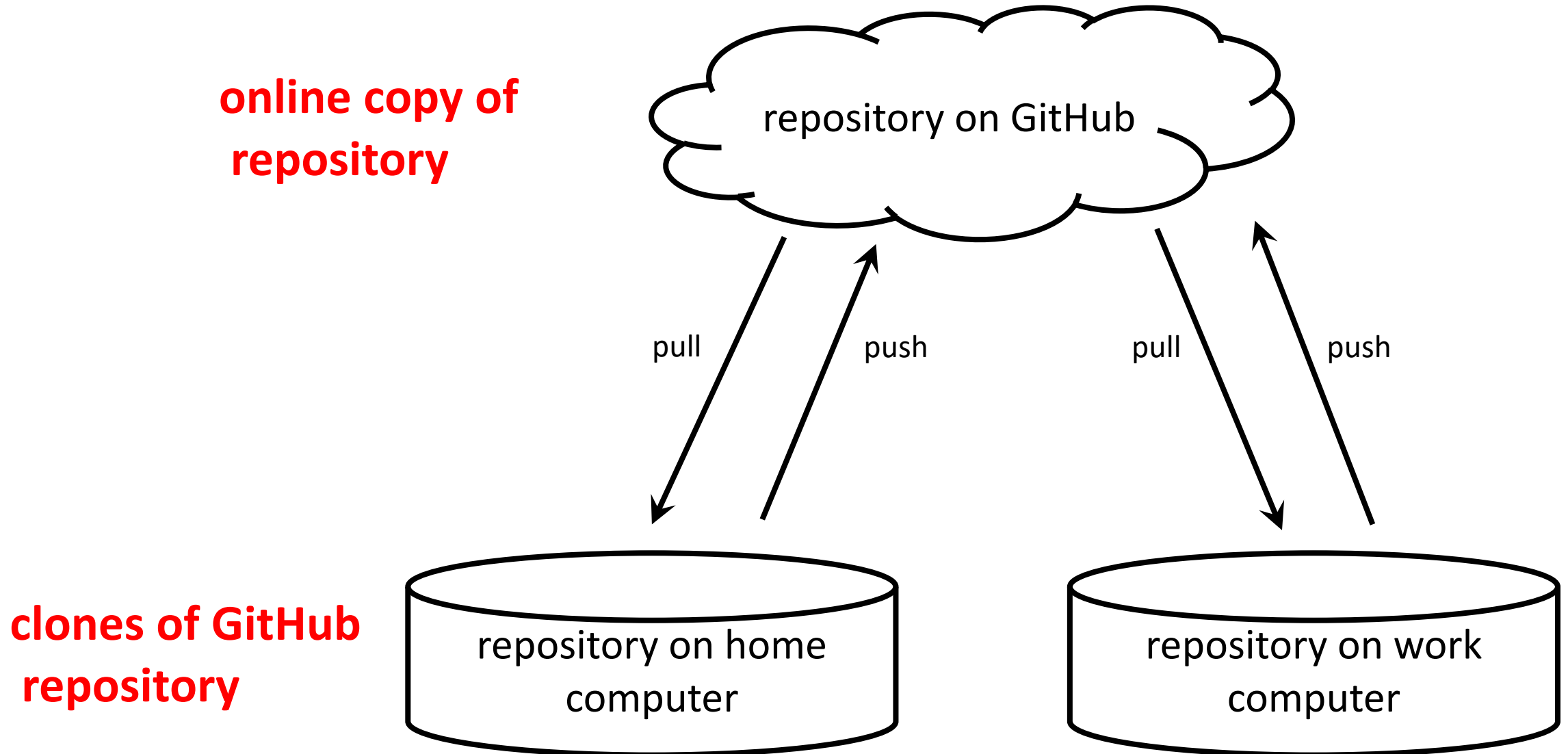


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# Problems to solve in this module

- Where are my files?
- Aaak! I just deleted my project!
- Gulp! I just deleted most of the document and clicked save.
- The stuff I wrote last week is better than the revisions I made yesterday.
- EEEEEK! My computer is missing/stolen/smashed/burned up/drive crash...

# Disaster prevention: personal version control





# Problems to be solved in later modules

- Dividing a large project among several collaborators
- Contributing to open source projects
- Tracking issues and collaboration management
- Building a website using GitHub Pages

# Remote Support for Teaching and Research Needs

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