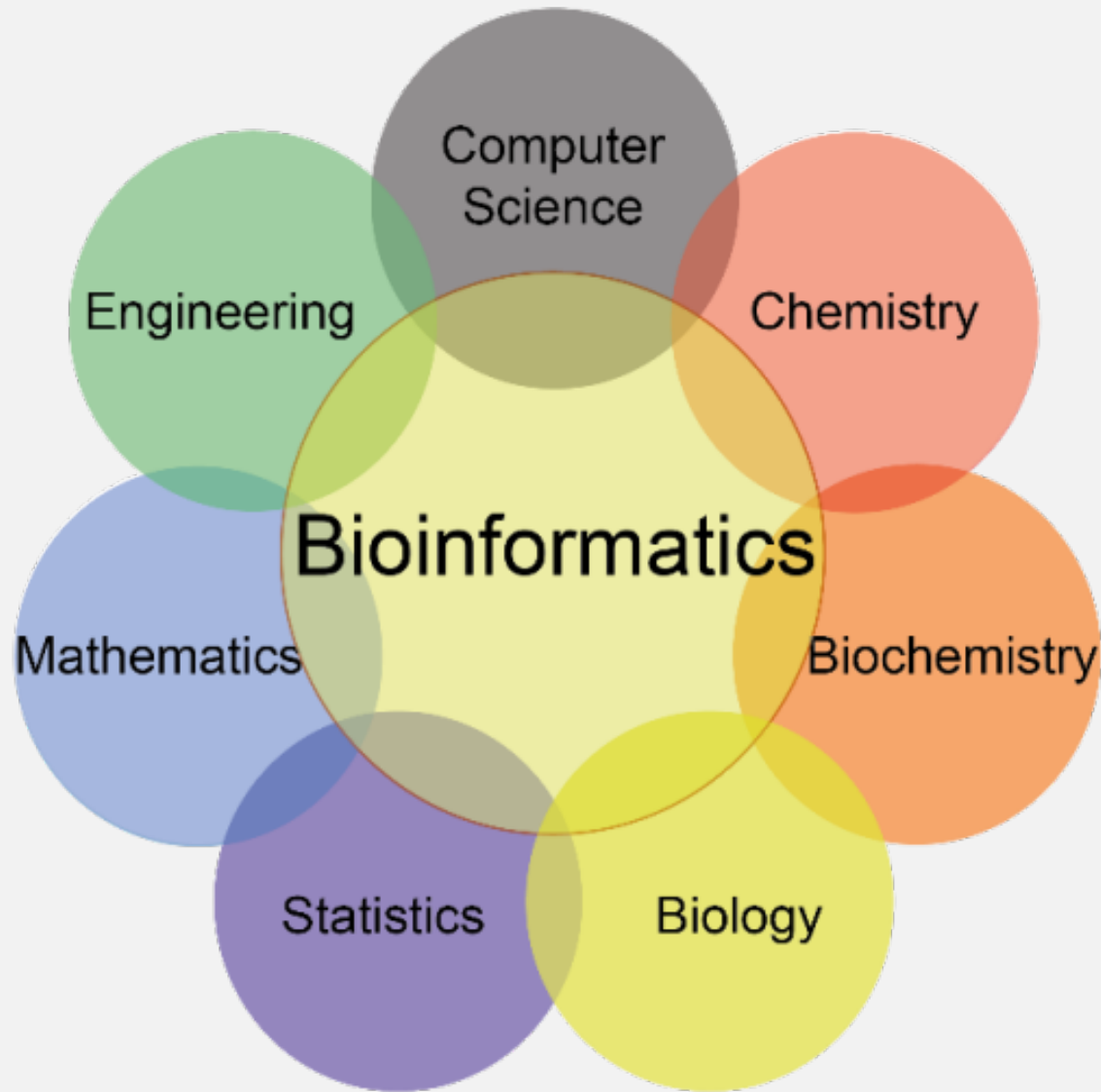


# BIOINFORMATICS INTERNSHIP

Class one



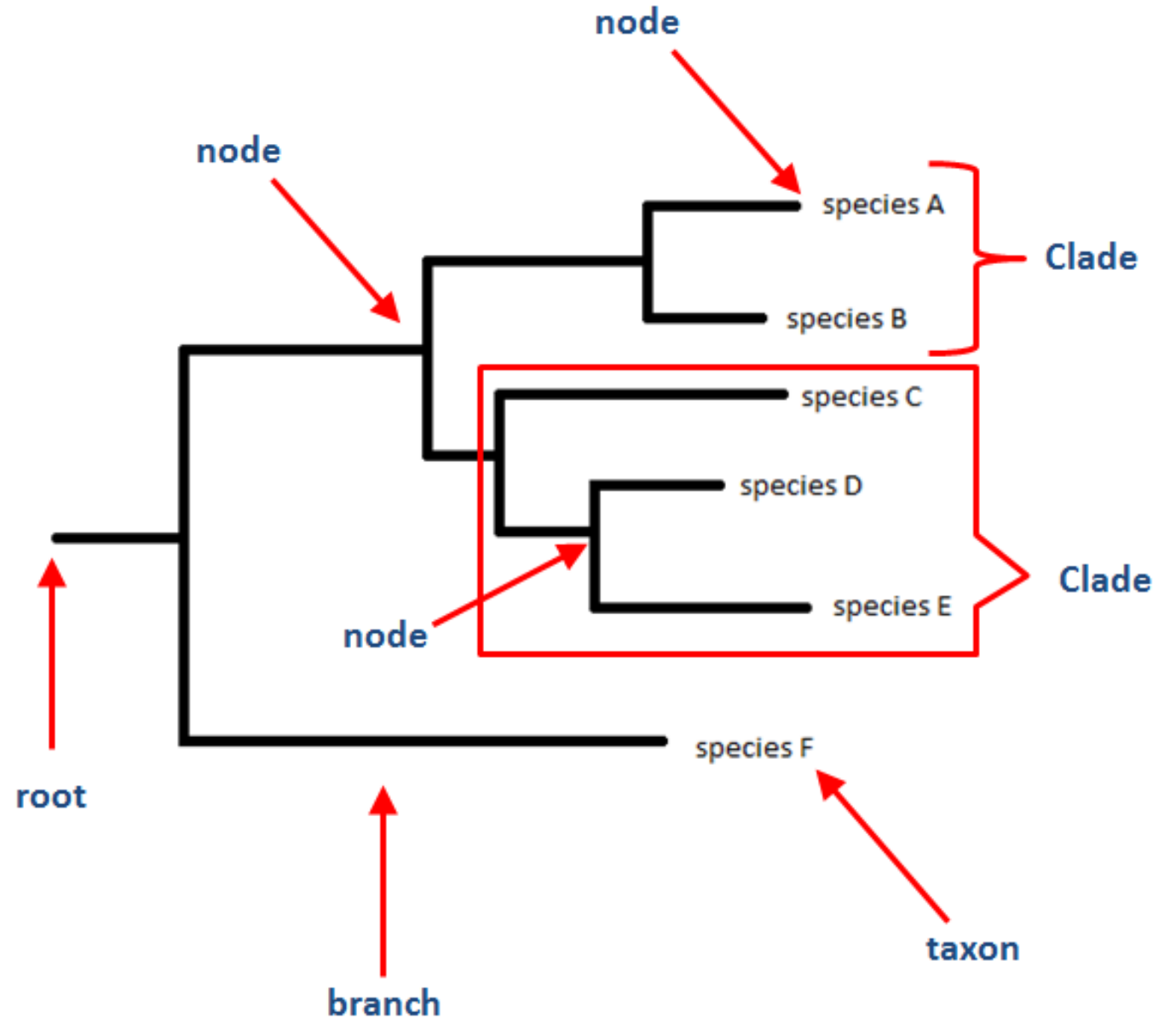
## WHAT IS BIOINFORMATICS

- The application of computer programming to analyze complex biological data and answer biological questions efficiently
- Create algorithms and implement code
- Work typically in research labs in industry jobs and academia

# WHAT IS PHYLOGENETICS

- Study of evolutionary relationships between \_\_\_\_\_

## Parts of a phylogenetic tree



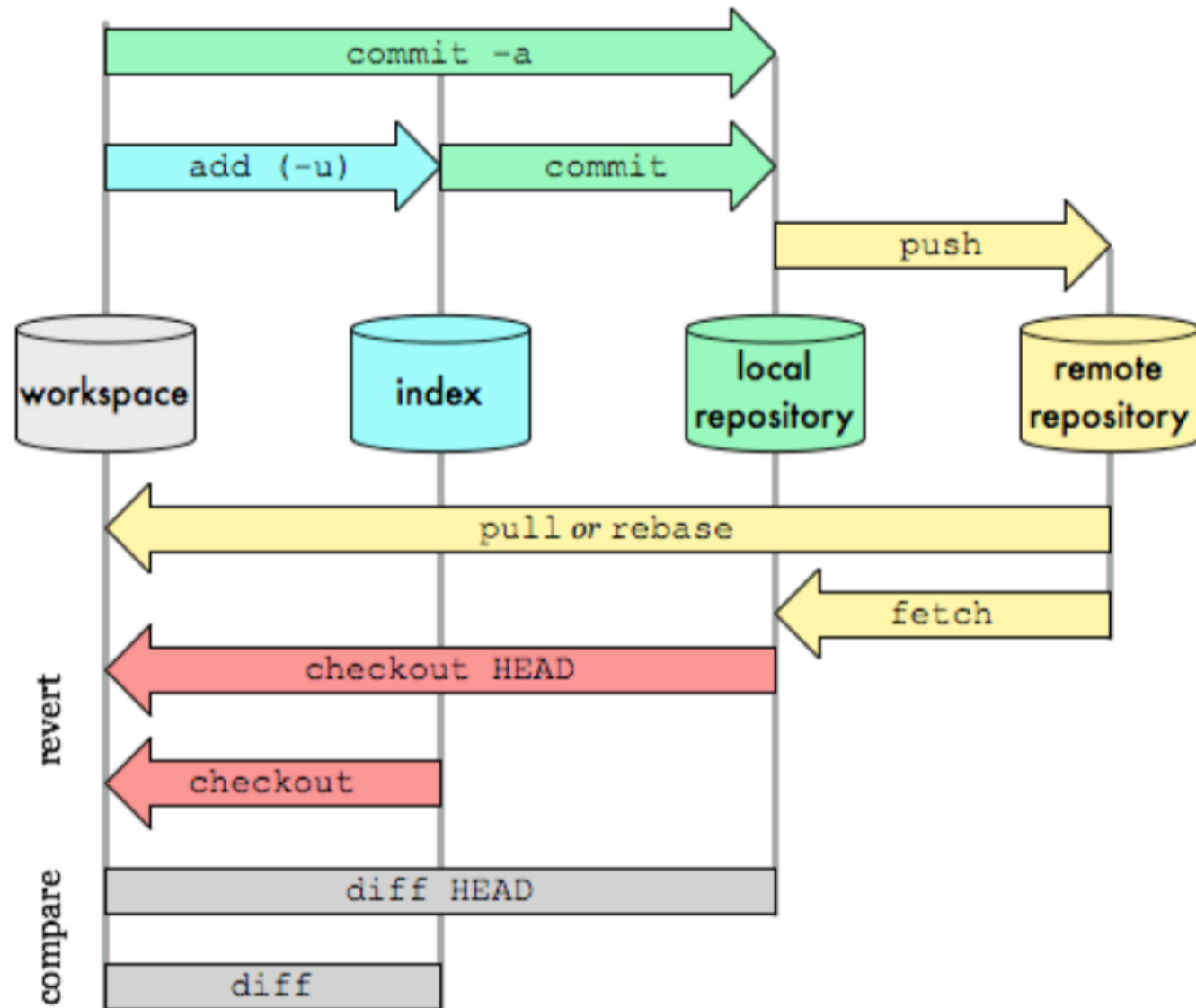
# GENERAL SESSION LAYOUT

1. Python fun fact
2. Rosalind challenges
3. New topic / review of previous
4. Map out code in notebooks (work flow charts)
5. Code / share code
6. Exit interviews

# ASSESSMENT

# Git Data Transport Commands

<http://osteele.com>



# GITHUB

- Create a new remote repository (this can be on the same machine):
  - “git init <PATH> --bare” where PATH is a directory name
- Initially copy a remote repo to a local repo:
  - “git clone <URL> <PATH>” where URL is the URL of the remote repository, and path is the local path to use for the workspace. The local path can be omitted.
- Commit all files in the index to the local repo:
  - “git add”
  - “git commit”
- Pushing the local repo to the remote repo:
  - “git push”

# WHY A COMPUTER CLUSTER

- Setting cosmo up