

## Integrated Development Environments

- A rich context for software development
  - Examples: Eclipse, IntelliJ, VisualStudio, XCode
- Syntax highlighting, continuous compilation, testing, debugging, packaging
- Powerful refactoring capabilities
- Code analysis

#### **Revision Control**

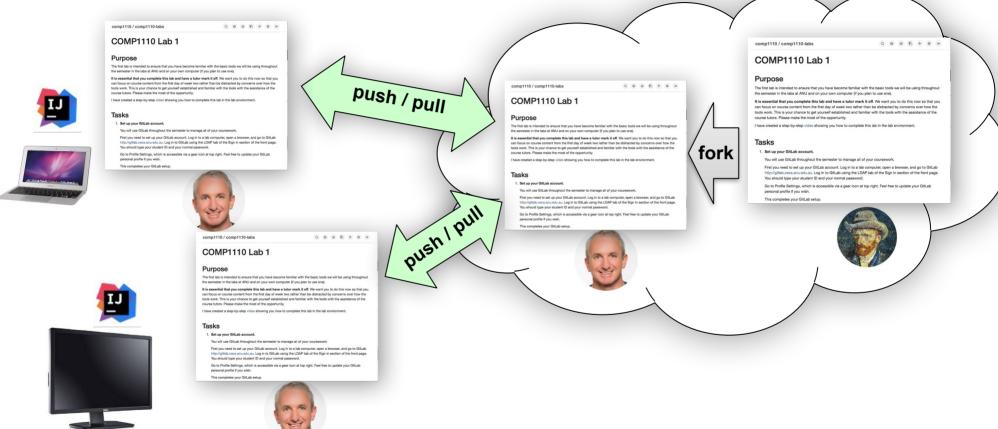
- Indispensible software engineering tool
- Solitary work
  - Personal audit trail and time machine
  - Establish when bug was introduced
  - Fearlessly explore new ideas (roll back if no good)
- Teamwork
  - Concurrently develop
  - Share work coherently

#### Git

- Distributed version control system
  - hg, git, others (conceptually very similar)
- Contrast with centralized version control
  - cvs, svn, others

We will focus on distributed version control systems and not discuss centralized version control any further.

### Git & GitLab



# IntelliJ Git Integration

- Clone an existing repository:
  - "Get from VCS" on splash screen
- Other operations:
  - Git menu
  - right mouse click > Git