Version control in Rstudio together with Github

Qiang Shen

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Start from a real scenario: daily tasks

- Create things
- Save things
- Edit things
- Save the thing again

Start from a real scenario

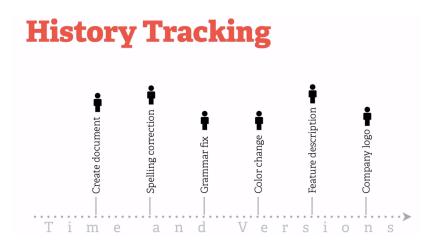


Figure 1: History tracking

Start from a real scenario

Collaborative History Tracking

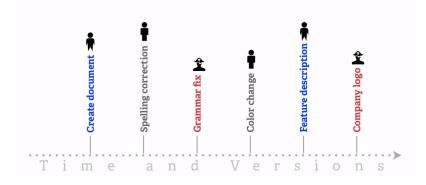


Figure 2: collaborative history tracking

Version control is important!

Basic Diffs

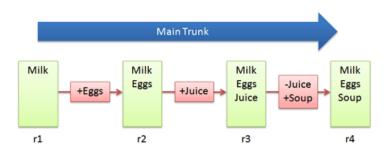


Figure 3: version control

Clound storage

- ▶ Dropbox
- Nutstore

Github



Figure 4: Octocat

Prerequsites:

- Basic knowledge of R
- Working knowledge of RStudio
- ▶ Basic knowledge of command shell
- Curiosity to explore new stuff!

Software:

- ▶ R (stable version 3.2.5) http://cran.r-project.org/
- ► RStudio http://www.rstudio.com/products/rstudio/download/
- ► Git http://git-scm.com/downloads
- ► GitHub Acount https://github.com/
- a good internet connection!

Step 1:Github

- GitHub Account:https://github.com/
- Create Repository Steps for creating a repository:
- 1. Repository name
- 2. Description (Optional)
- 3. README
- 4. Private/Public (Suggested)

Step 2: SSH key

- ► Git/SVN: copy public key
- ► Github: key dialogue

Step 3: Git installment

- https://git-scm.com/
- ► Git direcotry: C:\program and files\git\bin\git.exe

configuration in terminal

- git config –global user.email "your email address"
- ▶ git config –global user.name "your user name"
- ▶ git config –list
- git push -u origin master'

create project

- create project
- choose version control
- add repository link

do version control

- commit
- ▶ pull and push