Advantages of Version Control Systems useful also for non-hardcore programmers

stephan.gabler@gmail.com

December 6, 2010

- Where do I get the latest (and running) version of a program
- 2 How can we work together on some code, without always sending files, ect..
- 3 I don't understand this code, who wrote it
- 4 S***, I made some *improvements* and now it does not work anymore

- Where do I get the latest (and running) version of a program
- 2 How can we work together on some code, without always sending files, ect..
- 3 I don't understand this code, who wrote it
- 4 S***, I made some *improvements* and now it does not work anymore

- Where do I get the latest (and running) version of a program
- 2 How can we work together on some code, without always sending files, ect..
- 3 I don't understand this code, who wrote it
- 4 S***, I made some *improvements* and now it does not work anymore

- Where do I get the latest (and running) version of a program
- 2 How can we work together on some code, without always sending files, ect..
- 3 I don't understand this code, who wrote it
- 4 S***, I made some *improvements* and now it does not work anymore

So, what is it?

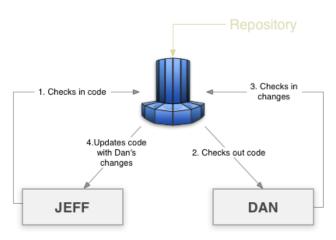
Git

A central place for code, and its history!

You can work on the same files together, without merging on the next day, you can track you changes, changes of others and can go back to whatever previous version you want. And you have a central place for keeping all your code blackboard diagram

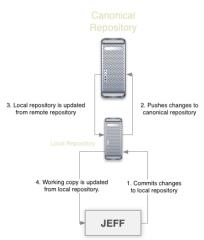
Version Control Workflow

Basic



Version Control Workflow

Distributed





■ Where do I get the latest (and running) version of a program

- 2 How can we work together on some code, without always sending files, ect..
- 3 I don't understand this code, who wrote that line
- 4 S***, I made some *improvements* and now it does not work anymore

- Where do I get the latest (and running) version of a program
- 2 How can we work together on some code, without always sending files, ect..
- I don't understand this code, who wrote that line
- 4 S***, I made some *improvements* and now it does not work anymore

- Where do I get the latest (and running) version of a program
- 2 How can we work together on some code, without always sending files, ect..
- 3 I don't understand this code, who wrote that line
- 4 S***, I made some *improvements* and now it does not work anymore

- Where do I get the latest (and running) version of a program
- 2 How can we work together on some code, without always sending files, ect..
- 3 I don't understand this code, who wrote that line
- 4 S***, I made some *improvements* and now it does not work anymore

that make it easier for everybody

commit often

- pull often
- only running code
- code vs. results
- comments
- commit messages
- gitignore

- commit often
- pull often
- only running code
- code vs. results
- comments
- commit messages
- gitignore

- commit often
- pull often
- only running code
- code vs. results
- comments
- commit messages
- gitignore

- commit often
- pull often
- only running code
- code vs. results
- comments
- commit messages
- gitignore

- commit often
- pull often
- only running code
- code vs. results
- comments
- commit messages
- gitignore

- commit often
- pull often
- only running code
- code vs. results
- comments
- commit messages
- gitignore

- commit often
- pull often
- only running code
- code vs. results
- comments
- commit messages
- gitignore

- can be used also with binary data (images, poster, data)
- also local repositories are really useful
- the homework will help you to get some experience
- play with it, it can really help you and the whole lab a lot
- ask me whenever you have questions

- can be used also with binary data (images, poster, data)
- also local repositories are really useful
- the homework will help you to get some experience
- play with it, it can really help you and the whole lab a lot
- ask me whenever you have questions

- can be used also with binary data (images, poster, data)
- also local repositories are really useful
- the homework will help you to get some experience
- play with it, it can really help you and the whole lab a lot
- ask me whenever you have questions

- can be used also with binary data (images, poster, data)
- also local repositories are really useful
- the homework will help you to get some experience
- play with it, it can really help you and the whole lab a lot
- ask me whenever you have questions

- can be used also with binary data (images, poster, data)
- also local repositories are really useful
- the homework will help you to get some experience
- play with it, it can really help you and the whole lab a lot
- ask me whenever you have questions