VERSION CONTROL SYSTEMS

MATF, Beograd, 10-10-2019

AGENDA

01 Version Control Systems

02 GIT

03 GIT Concepts

04 GIT commands

05 github.com

06 Links

07 Practice

01

VERSION CONTROL SYSTEMS

VERSION CONTROL SYSTEM

- A system that keeps records of your changes
- Ability to have unlimited number of developers working on the same code base
- Easily revert back your files to previous versions

VERSION CONTROL SYSTEMS

Distributed

- GIT
- Mercurial SCM
- Bazaar

Centralized

- CVS
- Apache SVN
- Perforce
- TFVC TFS

02

GIT

GIT

- GIT is free and open source distributed system
- You can save your work locally
- Industrial standard
- Easy to use
- Easy branching and code merging
- Almost impossible to lose your code

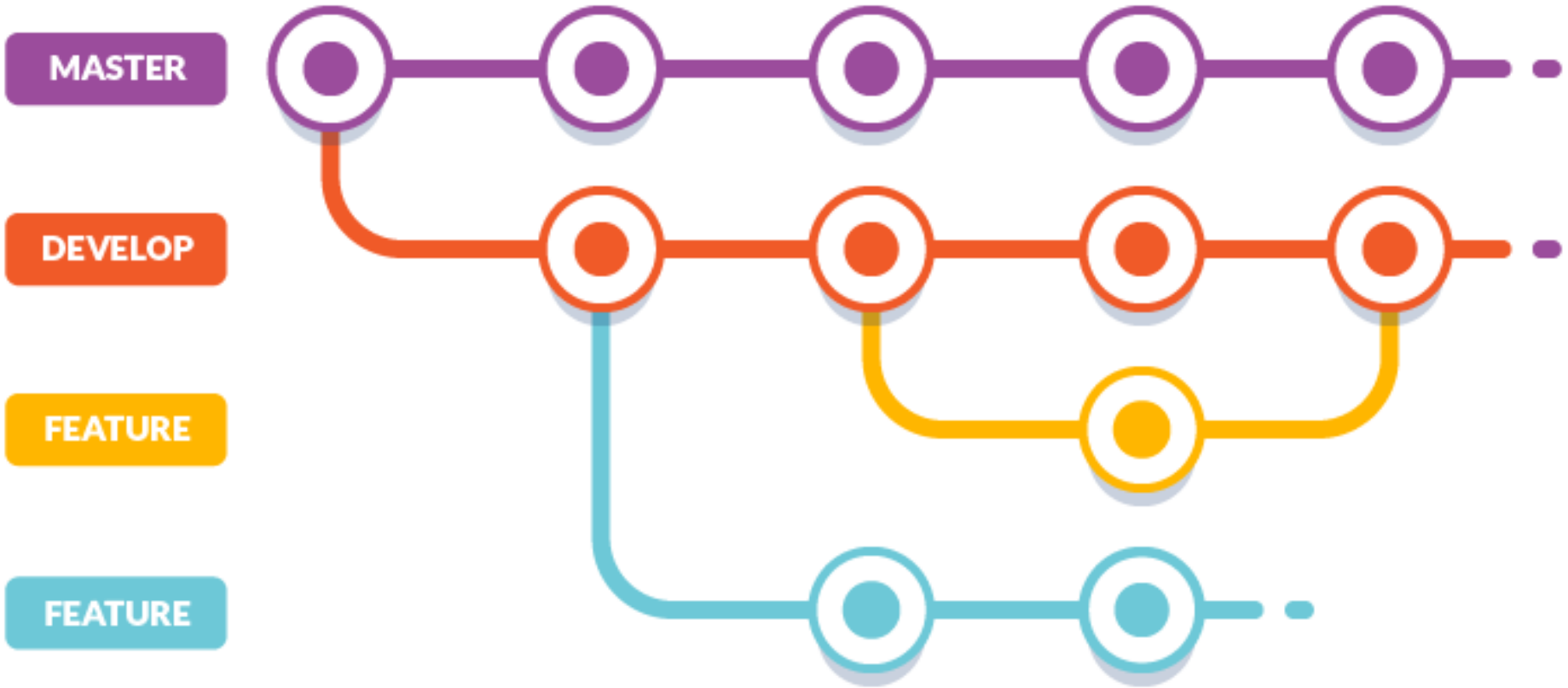
03

GIT CONCEPTS

GIT CONCEPTS

- Snapshots
- Commit
- Repository
- Branches
- Merging
- Fork

GIT FLOW



04

GIT COMMANDS

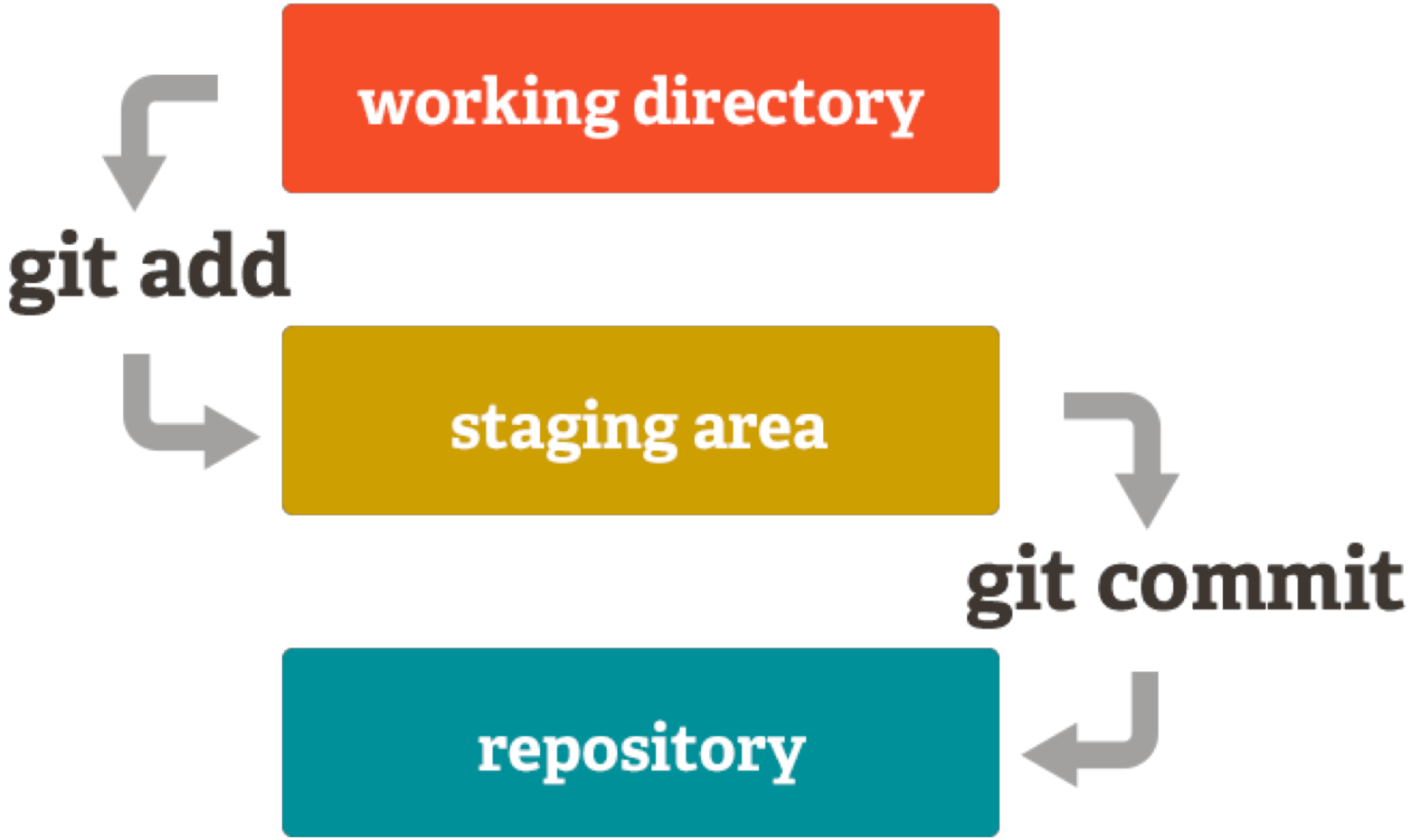
GIT COMMANDS

- git init
- git clone [url]
- git status
- git add [file_name]
- git checkout
- git commit –m”message”

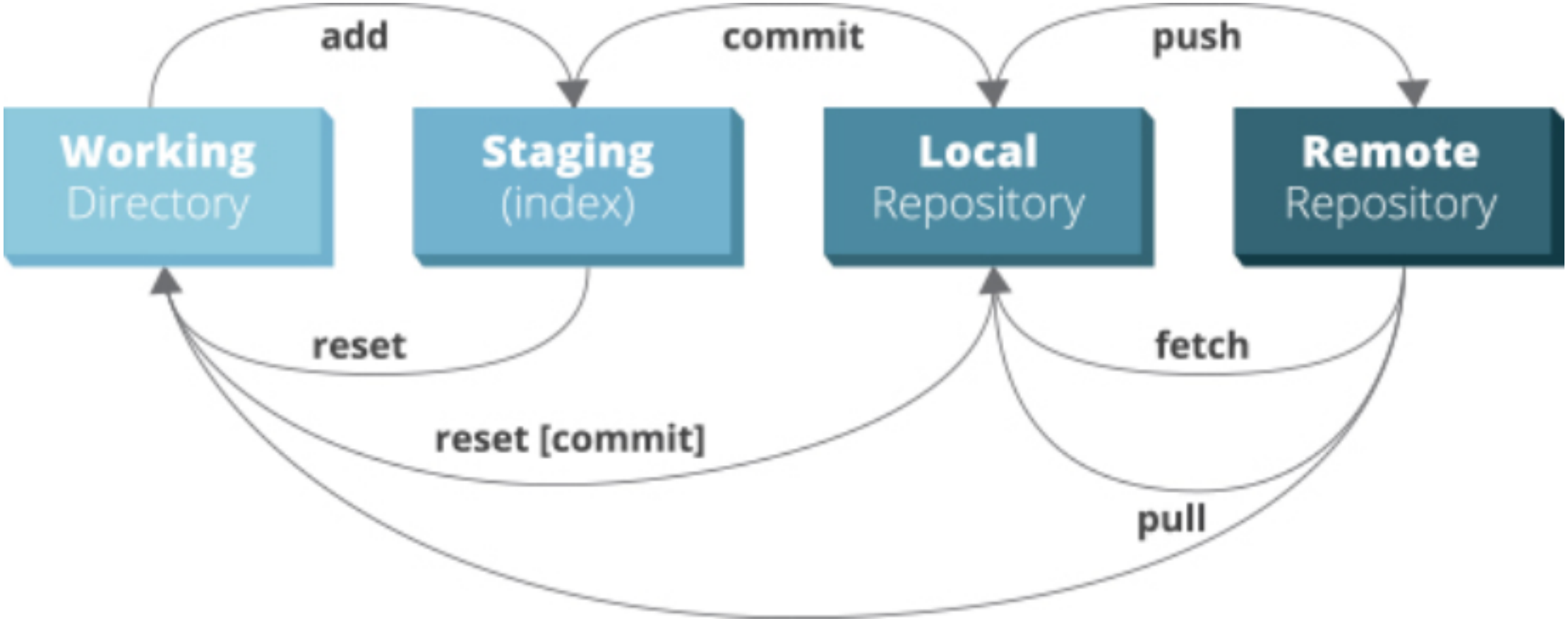
GIT COMMANDS

- git fetch “remote name”
- git push “remote name”
- git pull “remote name”

GIT COMMANDS



GIT COMMANDS



05

GITHUB

GITHUB.COM

- Largest web based git repository hosting service
- Have some additional functionality on top of git like PR approve, review, web hooks …
- House for almost all open source projects

06

LINKS

GITHUB.COM

- Official git site
  - https://git-scm.com/
- Github guides
  - https://guides.github.com/
- Tomo Krajina: Uvod u GIT
  - https://github.com/tkrajina/uvod-u-git

07

PRACTICE

PRACTICE

1. Initial commit practice
    1. Create a github account
    2. Create repo with name matf-kurs
    3. Clone repo locally
    4. At root directory add file README.md and write some text in it
    5. Commit added file and push it so changes can be visible on github
2. Branching practice
    1. From master branch create branch with name first-feature
    2. Add some changes to README.md file and commit it
    3. Push your branch to github and create pull request from that branch to master branch

QUESTIONS

levi nine
Technology Services

THANK YOU

SERBIA / BELGRADE

levi nine
Technology Services