





#### Agenda

- React Course Structure
- Git & GitHub
- Visual Studio Code
- Shortcuts and useful extensions
- Chrome Developer Tools
- > npm







#### Course structure



#### Course structure

- Tools. Javascript Refresher.
- First React Project. React Components
- Props. State. Events
- Styling React Components
- Debugging React Components
- Fragments & Refs
- Create backend using Node JS, Express and MongoDB
- React Router
- Redux basics
- Final Exam. Final Project.



# git + GitHub



#### What is GIT?

- Distributed VCS(Version Control System)
- Coordinates work in teams(multiple developers)
- Tracking history(who made what changes and when)
- Possibility to go to any version from history anytime
- Local & Remote repositories(GitHub, Bitbucket)







of its own features

### GitHub

1. It is a software	1. It is a service	
2. It is installed locally on the system	2. It is hosted on Web	
3. It is a command line tool	3. It provides a graphical interface	
4. It is a tool to manage different versions of edits, made to files in a git repository	4. It is a space to upload a copy of the <b>Git</b> repository	
5. It provides functionalities like Version Control System Source Code Management	5. It provides functionalities of Git like VCS, Source Code Management as well as adding few	



#### **GIT/GitHub initial setup**

- git-scm.com
- Download Git for Windows/Mac
- Install with almost default options
- Open gitbash on Windows or terminal on MAC
- Type git --version
- Type git help to check the basic commands
- git help <command> to see a specific command details
- Install gitextensions → <a href="http://gitextensions.github.io/">http://gitextensions.github.io/</a>



#### **Git Initial Configuration**



#### Open gitbash:

- 1. git config --global user.name "Andrei Popescu"
- 2. git config --global user.email "andrei.popescu@gmail.com"
- 3. git config --global --list



#### Basic git bash(linux) commands

cd	move up one level in the directory tree structure
cd	change directory to \$HOME
cd /chosen/directory	change to specified directory
touch [file_name]	create a new file
Is	list files in directory
ls -a	list all files, including hidden
pwd	show the directory currently working in
mkdir [directory]	create a new directory

rm [file_name]	remove a file	
rm -r [directory_name]	remove a directory recursively	
rm -rf [directory_name]	remove a directory recursively without requiring confirmation	
cp [file_name1] [file_name2]	copy the contents of the first file to the second file	
cp -r [directory_name1] [directory_name2]	recursively copy the contents of the first directory into the second directory	
mv [file_name1] [file_name2]	rename file_name1 to file_name2	

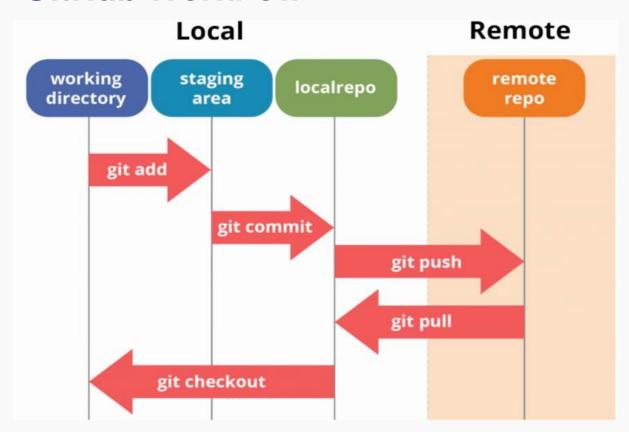


#### GitHub Workflow(Setup the account)

- Create github account
- Create new repository
- Use git clone your\_repo.git
- Create a new folder Demo and inside a new file first\_file.txt
- Commit and push ©



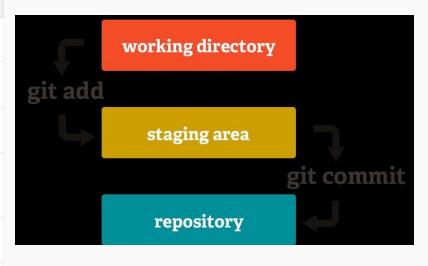
#### **GitHub Workflow**





#### **Useful git commands**

Git task	Notes	Git commands
Status	List the files you've changed and those you still need to add or commit:	git status
Add files	Add one or more files to staging (index):	<pre>git add <filename> git add .</filename></pre>
Commit	Commit changes to head (but not yet to the remote repository):	git commit -m "Commit message"
	Commit any files you've added with git add, and also commit any files you've changed since then:	git commit -a
Push	Send changes to the master branch of your remote repository:	git push origin master
Update from the remote repository	Fetch and merge changes on the remote server to your working directory:	git pull
Branches	Create a new branch and switch to it:	<pre>git checkout -b   branchname&gt;</pre>







Workshop

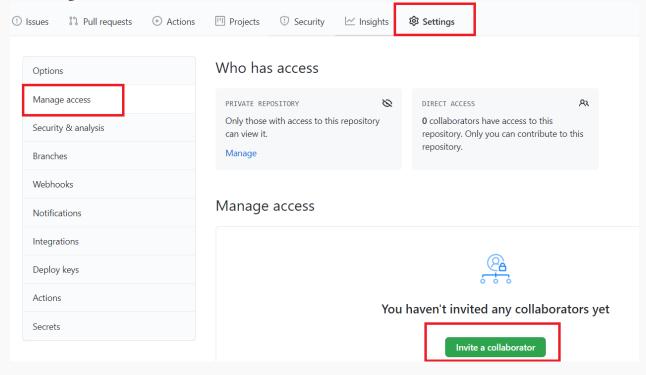


#### Workshop 1 – Be organized!

- Create a new repository on GitHub for managing all the resources from this entire course: name it ReactDev\_YourName
- Clone this new repository on your personal PC/Laptop
- In the main folder create the following 3 folders: In each folder create a new txt file – random/dummy content
- Commit this file with a specific message and push it on GitHub



Workshop 1 – Add the mentor as a reviewer to your Repository







## **Visual Studio Code**



#### Visual Studio Code Instalation

- code.visualstudio.com
- Open your Git project folder(check for .git folder)
- Ctrl + , settings → features → terminal → edit in settings.json
- Add the following line:
  - "terminal.integrated.shell.windows": "yourPah\\Git\\bin\\bash.exe",
- Use Ctrl + `to open/close terminal in VS Code



#### **Visual Studio Code Shortcuts**

- Bookmark the following link on your browser:
- https://code.visualstudio.com/shortcuts/keyboardshortcuts-windows.pdf
- To be productive: use the mouse only when the keyboard cannot be used
- Learn 2 shortcuts every week, share with the colleagues when you find a very useful shortcut



#### **Visual Studio Code Extensions**

- Live Server
- Prettier
- JavaScript ES6 Code Snippets
- Turbo Console Log
- Bracket Pair Colorizer
- Git Lens
- ES7 React/Redux/GraphQL/React-Native snippets



#### NPM – Node Package Manager







- Node Package Manager
- Node js must be installed first
- https://nodejs.org/en/download/
- NPM registry where it contains all the different JS libraries(JQuery, Bootstrap)

```
npm --v
npm install --g create-react-app
npx create-react-app test
```

https://medium.com/swlh/npm-in-less-than-10-minutes-6b321d566271



#### Resources

- https://developers.google.com/web/tools/chromedevtools
- https://guides.github.com/introduction/git-handbook/
- https://gitimmersion.com/
- https://code.visualstudio.com/shortcuts/keyb oard- shortcuts-windows.pdf
- https://support.microsoft.com/enus/help/12445/windows- keyboard-shortcuts

