Just Git It

by Alex Renner

6/10/22
Outline

• Disclaimer
• Version Control Systems (VCS)
• Repositories
• Benefits
• States
• Commands
• Demo

• Git vs. Github
• Create Github account and Install GUI
• Practice: existing example repo
• Practice: create repo and collaborate
Disclaimer

• if (this!=tutorial){_vracEmployee || _hciStudent};

• else {GoogleIt || YouTubeIt};

• git help all


• Interactive tutorial: https://www.w3schools.com/git/default.asp?remote=github
Version Control Systems (VCS)

- Local
- Centralized
- Distributed
DCVS Benefits

- Collaboration
- Fast even if big project
- Backups
- Skillset & Content Agnostic
- 2002 Linux Kernel
Repositories “repo”

- “Folder”
- Server (not always)
- “Traffic Cop”
Git across the street

• More than a folder
• Better than version history
• Manages “traffic”
• More than differences checker
3 States

- Modified
- Staged
- Committed
## Git Commands

<table>
<thead>
<tr>
<th>git _____</th>
<th>Options</th>
<th>Text (no spaces)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Checkout</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Branch</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fetch</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Status</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Merge</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pull</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Commit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Push</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Add</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Demo
Git vs. Github

• Git is a command/tool/magician

• Github is a website

• Github is a server

• Github typically has repos
Create Github Account and Install GUI

- https://github.com
- https://www.sourcetreeapp.com
Practice: existing example repo

- https://github.com/alexraymondrenner/vracreu2022
Practice: create repo and collaborate

• https://www.w3schools.com/git/git_remote_getstarted.asp?remote=github