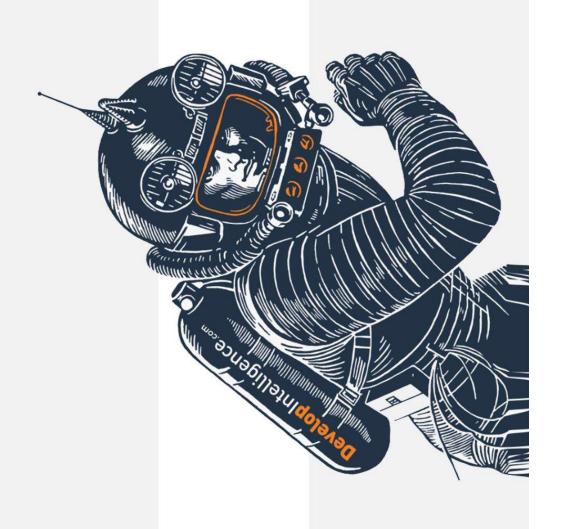
Repositories







Goals



2. Explain how to grab a public repo off github

3. Explain how to create a new repository locally

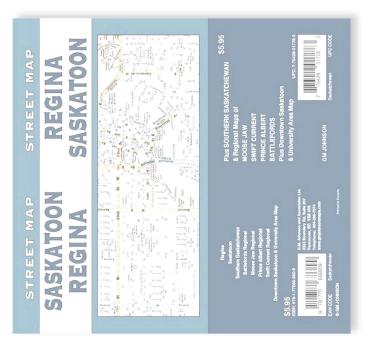




Roadmap

Develop Intelligence

- 1. Background
- 2. Cloning
- 3. Local Repositories

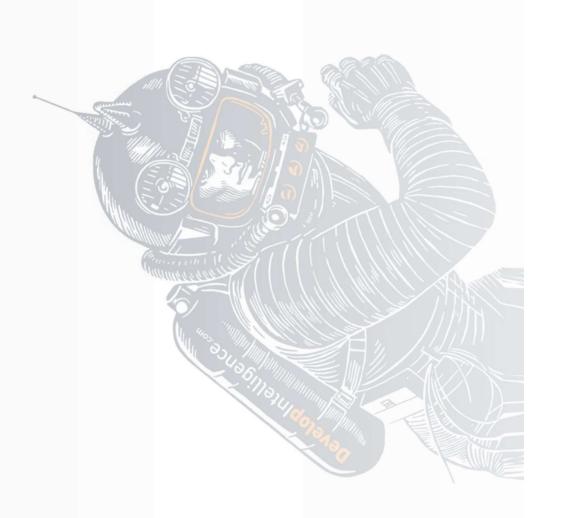




Develop Intelligence

Background







2 Repository



A Git repository is a virtual storage of your project. It allows you to save versions of your code, which you can access when needed.



2 Repository



the repository, a set of commit objects, and a set of references A repository is a data structure that stores metadata for a set repository contains includes a historical record of changes in of files or directory structure... Some of the metadata that a to commit objects, called heads.



Metadata



Branches (alternative versions)

Tags



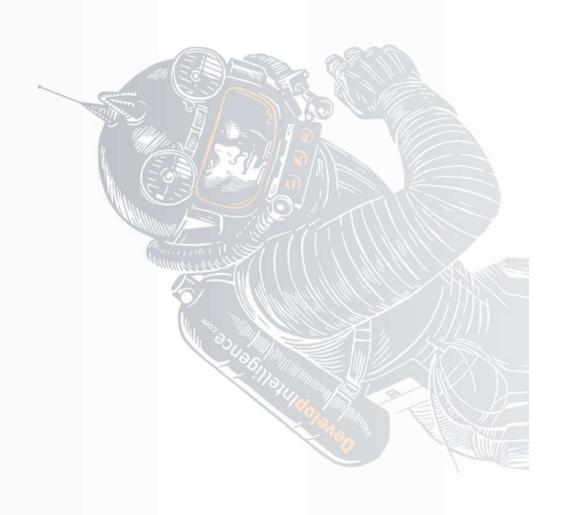
Develop Intelligence



Develop Intelligence

Cloning







Overview



- The easiest way to get started is to grab someone else's repository
- Decide on a place in your file system to keep repositories
- Something like--
- oc:/repos
- ∘ ~/workspace





another location. The original repository can be located on the local filesystem or on remote machine accessible supported protocols. The git clone command copies an existing Git git clone is primarily used to point to an existing repo and make a clone or copy of that repo at in a new directory, at repository.



Examples



- git clone https://github.com/bathcat/right-mug
- git clone https://github.com/bathcat/gymnast
- git clone https://github.com/dictcp/awesome-git my-awesome-git



Things to Notice

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You can see the status



Key Commands



• Bring latest changes from the server into your working Branches

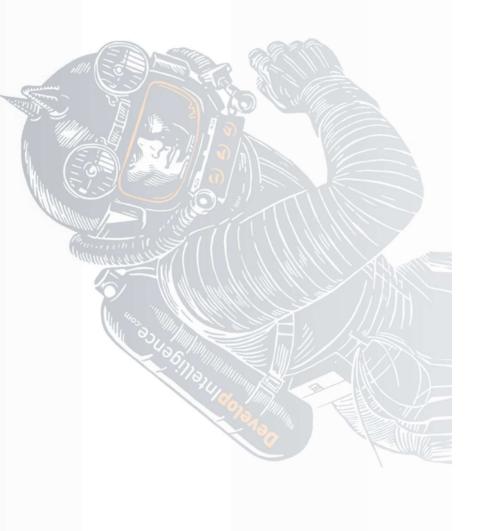
1 git pull



Develop Intelligence

Local Repositories







Workspaces



- Decide on a spot where you'll keep source code
- Examples:
- o c:/workspace
- ∘ ~/workspace
- o ~/Documents/Repos
- Consider a specific location for 3rd-party repositories you're looking at, not working on:
- e.g. ~/workspace/throwaways



Git Setup



At some point, git asks you to do this:

```
2 git config --global user.email "your_email@whatever.com"
                                                                                                                          git config --global core.editor notepad++.exe
git config --global user.name "Your Name"
```

Note: You may need the whole path of notepad++



More Setup



• If you're working with non-windows developers, this may be important:

```
1 git config --global core.autocrlf true
                                                  git config --global core.safecrlf warn
```



New Project



• Make a new directory and put something in it:

```
3 '<h1>Hello World</h1>' >> index.html
1 mkdir mom-n-pop
                               2 cd mom-n-pop
```



Initialization

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1 git init

Check the status:

1 git status



Add to Staging



To add your changes to the staging area:

1 git add index.html

Check the status:

1 git status



Commit Changes



• To move your staged changes to the local repository:

```
1 git commit -m'Initial commit.'
```

Check the status:

```
1 git status
```



Make an Update

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Then:

```
git commit -m'Make HTML legal.'
1 git status
                  2 git add .
```



History



For all changes on your current branch:

1 git log

• Or:

1 git log --pretty=oneline



Things to Play With

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Aliases

Fancy History

Next up: Branching and merging



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Review



- 1. Define the term repository
- 2. Explain how to grab a public repo off github
 - 3. Explain how to create a new repository local