

CPLN692-MUSA611

Week 2

Week 1 Review

Github

Why Github?

- Version control
- Team collaboration
- Remote storage

Github Terms

- Repository (Repo)
- Commit
- Diff
- Fork
- Owner
- Organization
- Local
- Remote

REMOTE

LOCAL

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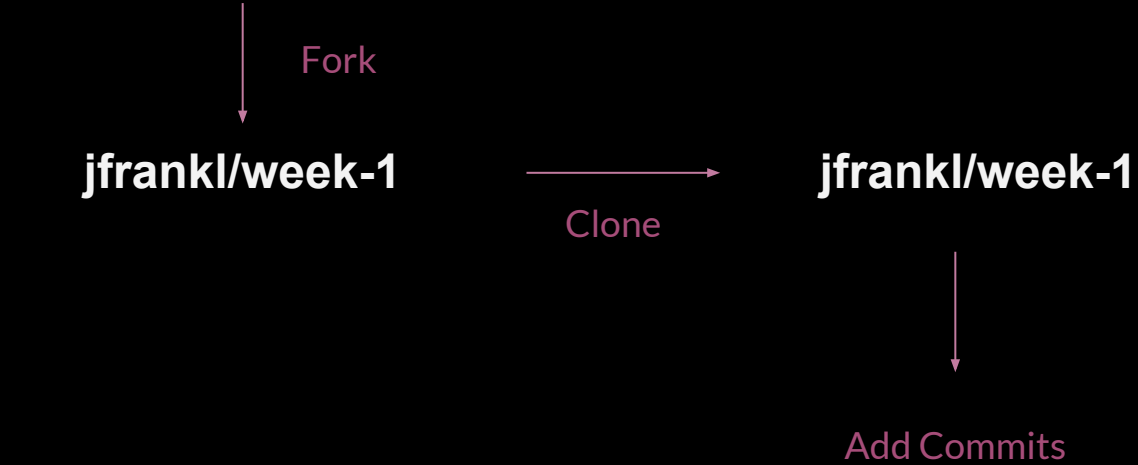
Fork

jfrankl/week-1

Clone

jfrankl/week-1

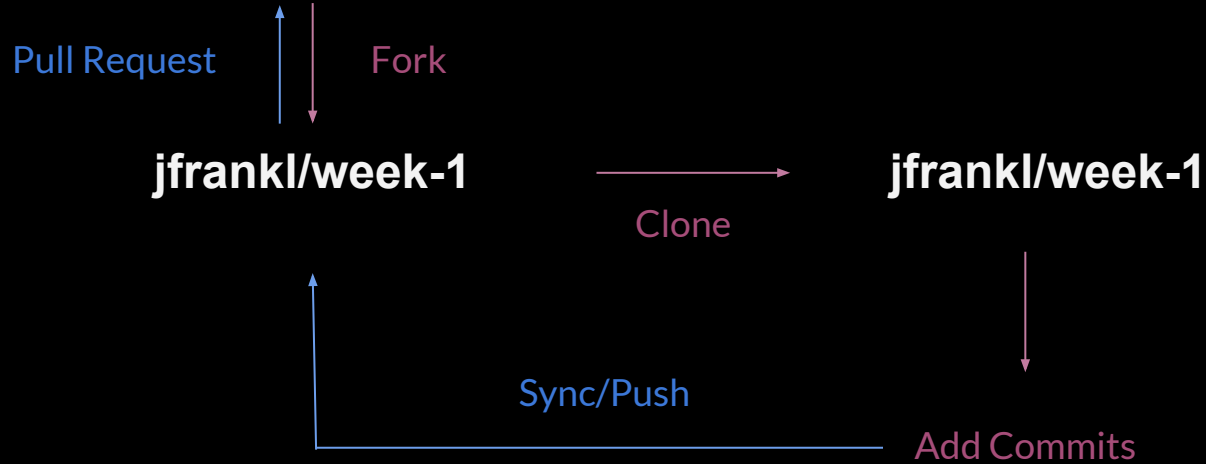
Add Commits



REMOTE

LOCAL

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Demo

Turn in Assignment

Javascript Fundamentals

Console Log

- `console.log('text', 242, variableName);`
- Tool for testing Javascript code in browser
- Firefox: Tools > Web Developer > Console
- Chrome: View > Developer > Javascript Console

Syntax

- Indentation
 - Tabs or Spaces (two spaces is nice)
- End lines with semicolon

Data Types

- string – “abc”, ‘123’
- number – 42, 3.15, Infinity, NaN
- boolean – true, false
- array – [1, “a”, []]

Special cases: null, undefined

Variables

- Used to hold information
- Declared like:
 - `var clickCount;`
 - `var firstThing, secondThing, thirdThing;`
 - `var time = new Date();`
- Conventionally in 'camelCase'
 - `var basketballPlayerList = ["megan", "charlie", ...]`

Conditions

- Decision making
- If there are fewer than 10 books, order more
- ```
if (numBooks < 10) {
 orderBooks();
}
```
- if, if else, else

# For Loop

- Repeat tasks
- `for (i = 0; i < 10; i++) { ... }`
- Use `.length` to determine iteration on array



# Arrays

- A list, basically
- Holds multiple items
- [2, 'great', true]
- Useful in conjunction with loops
- **New:** Push, Pop, Unshift, Shift

# Lab 1

# Functions

- Reusability
- Readability/Abstraction

# Lab 2

# Objects

- Organize information that belongs together
- `var notIdealArray = [40, -75, "Honest Tom's"]`
- `var wayBetterObject = {  
 "Lat": 40,  
 "Lng": -75,  
 "Name": "Honest Tom's"  
}`

Homework