



DEV ACADEMY
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Pair Programming, Git, and GitHub

Week 1, Day 1





Agenda for Today

- Dev environment setup
- Pair programming
- VS Code and LiveShare
- git-iam
- git and GitHub
 - ``git clone``, ``git branch``, ``git checkout``
 - ``git add``, ``git commit``, ``git push``
 - ``git fetch``, ``git pull``, ``git merge``
- Introduction to this morning's challenge



Dev environment setup

```
$ npx --yes @devacademy/checklist
```

```
Shell environment:
```

```
[ ✓ ] wsl  
[ ✓ ] $SHELL = /usr/bin/zsh  
[ ✓ ] ZSH version = zsh 5.8.1 (x86_64-ubuntu-linux-gnu)
```

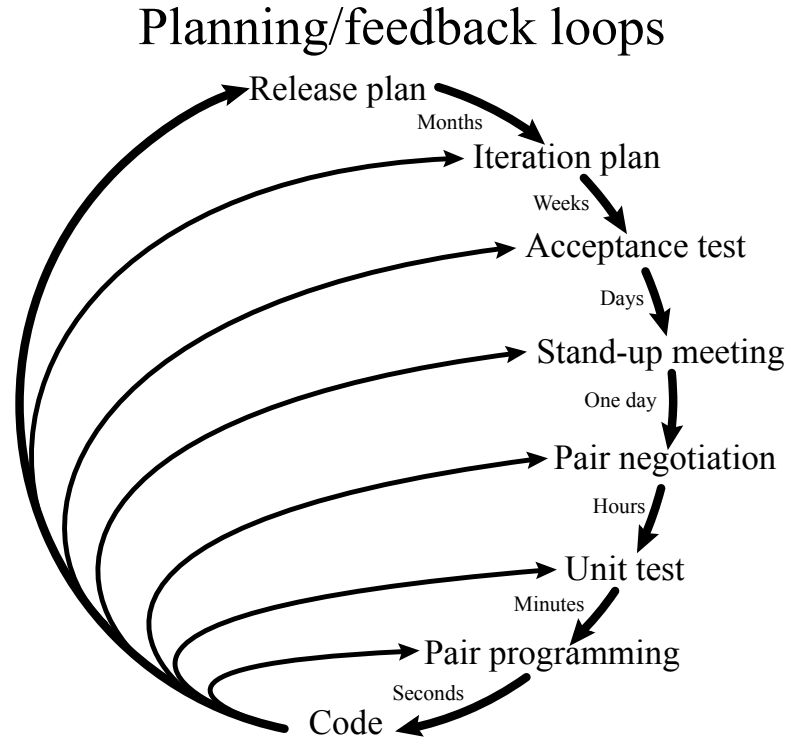
```
# ... other things
```

```
Build requirements (for node-gyp):
```

```
[ ✓ ] Git version = git version 2.34.1  
[ ✓ ] Found cc = /usr/bin/cc  
[ ✓ ] Found make = /usr/bin/make  
[ ✓ ] Found python version: Python 3.10.12 at /usr/bin/python3
```

```
RESULT: 17 checks passed
```

Pair programming



Source: https://en.wikipedia.org/wiki/Extreme_programming

Pair programming

Observations	Advantages	Disadvantages





Pair programming

Tips

- Driver/navigator
- Switch often
- Keep communicating
 - Teaching *and* learning
 - Practice human skills
- Check in
 - How are you feeling?
 - Understand what space your partner is in
 - Learn what works/doesn't work well for them
- Check out
 - How did it go?
- Give feedback during the pairing session too!
- Think of Bootcamp like a workplace

VSCode and LiveShare

Demo





git and GitHub

Revision

- Version control system
- Track changes over time
- git (local)
- GitHub (online service/cloud)



git-iam

Demo

INSTALLATION (UNLIKELY YOU'LL NEED THIS)

```
npm install @devacademy/git-iam --global  
git-iam --init https://gist.githubusercontent.com/toolseda/
```

USAGE

```
git iam kermit  
  
# ... make commits as kermit  
  
git iam rowlf  
  
# ... make commits as rowlf
```



Git Commands Cheatsheet

Creating a new branch

```
$ git branch [branch-name]
$ git checkout [branch-name]
# or
$ git checkout -b [branch-name]

# zsh alias
$ gcb [branch-name]
```

Moving Branches

```
$ git checkout [branch-name]

# zsh alias
$ gco [branch-name]
```

Staging files

```
$ git add [file-path]
# or
$ git add .
# or
$ git add -A

# zsh alias
$ ga [file-path]
```

Committing files

```
$ git commit -m "commit message"

# zsh alias
$ gc -m "commit message"
```

Pushing to GitHub

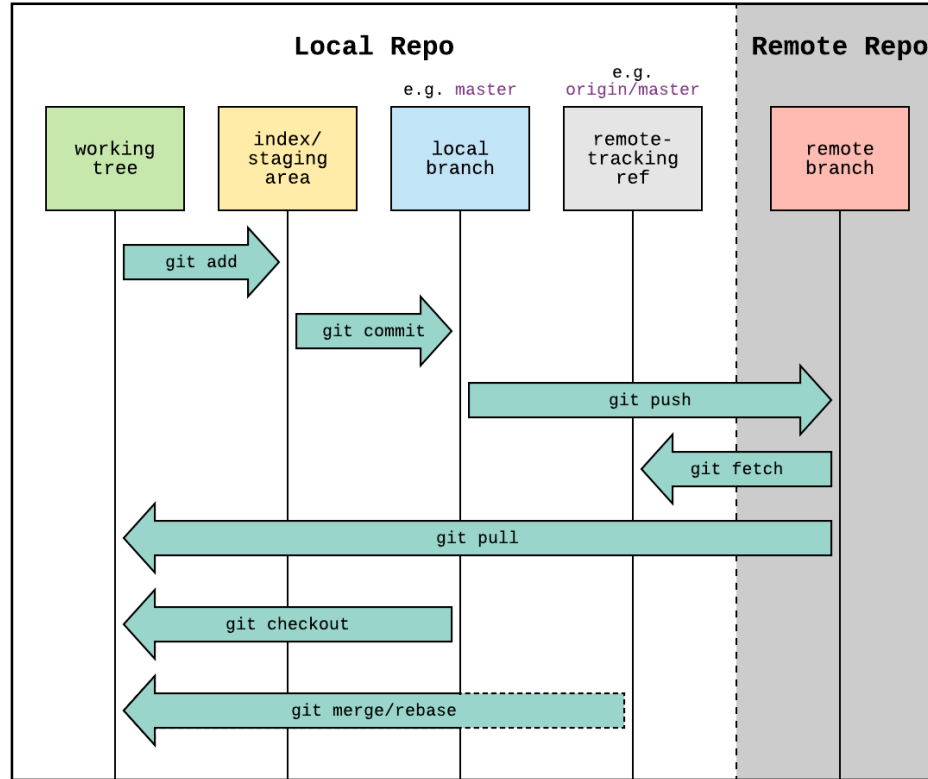
```
# to specify branch
$ git push origin [branch-name]
# for the first push to a new branch
$ git push -u origin [branch-name]
# other times
$ git push

# zsh alias
$ gp [branch-name]
```

Read more about:

- [git commands](#)
- [zsh aliases](#)

Git and GitHub



Two truths and a lie

Challenge

