Web Programming with Python and JavaScript
Git
first commit changes more changes
first commit changes more changes start new feature
first commit
changes
more changes
start new feature
keep working on new feature
Branching
first commit
first commit changes more changes
first commit  changes  more changes  start new feature  keep working on new feature
first commit
changes
more changes
fix bug

start new feature
keep working on new feature
first commit
changes
more changes
fix bug

start new feature
keep working on new feature

← feature
← master
start new feature

keep working on new feature

first commit

changes

more changes

fix bug

← master

← HEAD

← feature
first commit → changes → more changes → fix bug

start new feature
keep working on new feature

← feature ← HEAD

← master
first commit
changes
more changes
fix bug

start new feature
keep working on new feature
Branching

- `git branch`
- `git checkout`
- `git merge`
Remotes
Remotes

```
git fetch
```

```
master
```
Remotes

```
$ git fetch origin/master
```

Diagram:
- Repository
- Laptop
- `git fetch` command
- `origin/master` branch
- `master` branch
- Remote repository

Diagram highlights:
- Connection between the laptop and the repository
- `git fetch` command
- Branches `master` and `origin/master`
Remotes

```
git fetch

git merge
  origin/master
```

master

origin/master

```
```
Remotes

```
git fetch
git merge origin/master
```

Diagram:
- Server
- Laptop
- Branches:
  - master
  - origin/master

Fetch from origin:
- git fetch
- origin/master
- Merge:
- git merge origin/master

Diagram:
- Server
- Laptop
- Branches:
  - master
  - origin/master
Remotes

git pull

origin/master

master

origin/master

master
Forks
Pull Requests
Links

- link to local page
- link to external page
- link to same page
HTML4 Organization

- `<div class="header">
- `<div class="nav">
- `<div class="section">
- `<div class="footer">
- ...

HTML5 Organization

- <header>
- <nav>
- <section>
- <footer>
- ...
- ...
New HTML5 Elements

- `<audio>`
- `<video>`
- `<datalist>`
- ...
CSS Selectors
# CSS Selectors

<table>
<thead>
<tr>
<th>Selector</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>a, b</td>
<td>Multiple Element Selector</td>
</tr>
<tr>
<td>a b</td>
<td>Descendant Selector</td>
</tr>
<tr>
<td>a &gt; b</td>
<td>Child Selector</td>
</tr>
<tr>
<td>a + b</td>
<td>Adjacent Sibling Selector</td>
</tr>
<tr>
<td>[a=b]</td>
<td>Attribute Selector</td>
</tr>
<tr>
<td>a:b</td>
<td>Pseudoclass Selector</td>
</tr>
<tr>
<td>a::b</td>
<td>Pseudoelement Selector</td>
</tr>
</tbody>
</table>
Responsive Design
Responsive Design

- viewport
- Media Queries
- Flexbox
- Grids
Bootstrap
Sass
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