PT()

LAB IV/VII

SCHEDULE

Lab II

- ❖ Command line
- ❖ Local machine
- ❖ Branding
- ❖ Job Stories

Lab IV (today)

I. Feedback
II. Coding Standards
III. Linters
IV. Extensions
V. Requirements list
VI. Homework

Assignments

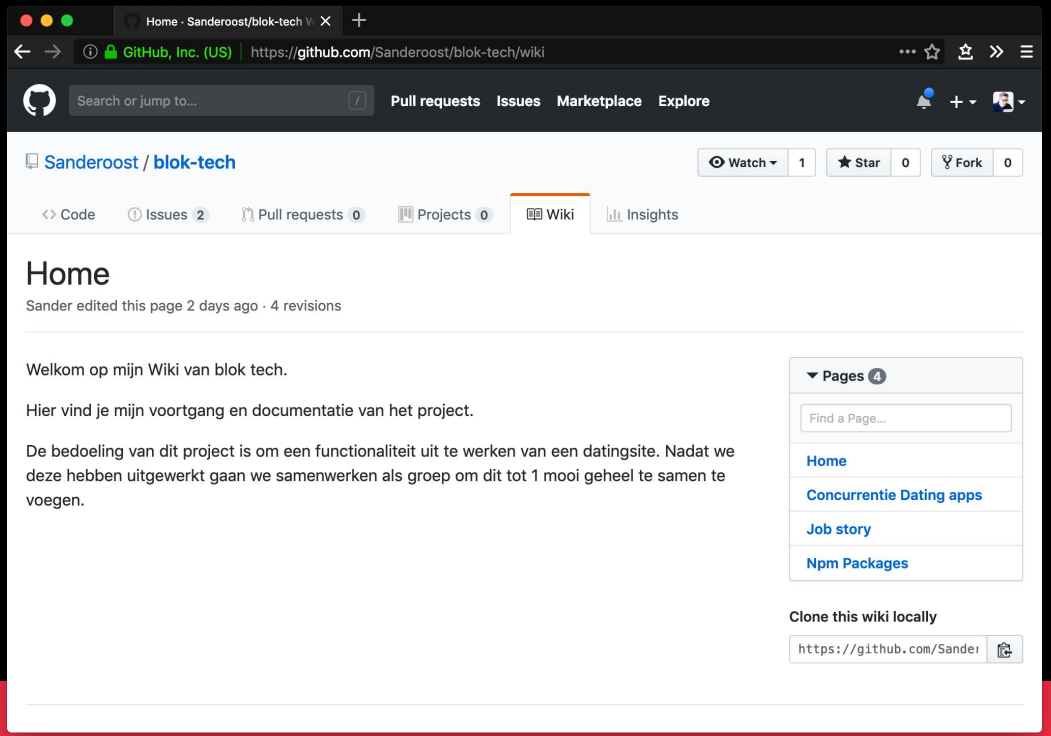
- ❖ Linting
- ❖ Extensions
- ❖ Research

FEEDBACK

I/VI

RESEARCH

WIKI



People are behind, pick up the pace.

RESEARCH

WIKI

- Job Stories are too generic
- Not many started working on the static HTML. You can combine that with the templating for this week.
- No branding research
- Many people focus on the **account page**
- Draw conclusions from your research

CODING STANDARDS

II/VI

II CODING STANDARDS

Code quality: how do we define “bad” code?

- The code looks overly complex, unlogical and messy. It is not consistent and worse of all: it doesn't work (worst case).
- The code looks clean and well organised, but doesn't work.
- The code looks overly complex, unlogical and messy, but everything (seems to) work fine.
- The code looks clean, logical and consistent. It is well organised and appropriately documented (ideal case).

II CODING STANDARDS

In conclusion: "bad" code can mean multiple things (simultaneously). Code can look horrible (to a developer), but still do what it is supposed to do. Is this bad code?

II CODING STANDARDS

Why is maintaining a good coding style important?

- To avoid hard to catch / deeply nested errors and bugs as much as possible.
- So that other developers can easily understand what your code does (and doesn't do).
- To save time and avoid stress (bug solving, refactoring).
- Well organised, clean written code ***is*** your documentation!

LINTERS

III/VI

III LINTERS

?

Lint, or a linter, is a tool that **analyzes source code** to **flag programming errors**, bugs, stylistic errors, and suspicious constructs.

wikipedia.org

III LINTERS

?

[...] the tools can also be used as simple **debuggers for common errors** (e.g. syntactic discrepancies) as well as hard-to-find errors

wikipedia.org

III LINTERS

?

Linting is the process of checking the source code for **programmatic** as well as **stylistic errors**. Furthermore, a linter can help with maintaining a **consistent** coding style throughout your project and reduces your chances of making logical errors.

III LINTERS

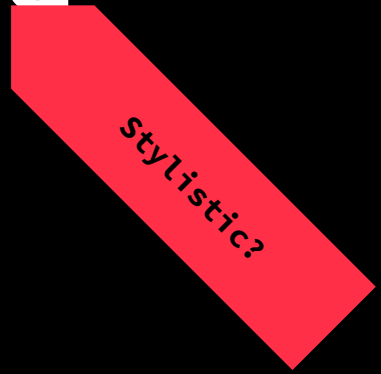
TYPES

```
var foo = 'string';
var foo = 'string'
```

III LINTERS

TYPES

```
var foo = 'string';
var foo = 'string'
```



III LINTERS

There are basically two types of setup:

- As an extension in your editor
- As an **npm** script in your package.json

You can also do both (recommended).

III LINTERS

CONFIGURE

[...]designed to be completely **configurable,** meaning you can turn off every rule and run only with basic syntax validation.

`.eslintrc` file for example

III LINTERS

CONFIGS

static	setup server, rename 'src' to 'static', let server serve static files	2 days ago
view	Renamed 'view/modules' and 'view/pages'	5 hours ago
.editorconfig	Changed .editorconfig, installed Express and EJS, renamed main.js to ...	3 days ago
.gitignore	Rewrite .gitignore, update readme	7 days ago
LICENSE.md	Add license	7 days ago
README.md	Used EJS to dynamically render pages, put pages in 'pages' directory ...	2 days ago
index.js	Renamed 'view/modules' and 'view/pages'	5 hours ago
package-lock.json	Changed .editorconfig, installed Express and EJS, renamed main.js to ...	3 days ago
package.json	Changed .editorconfig, installed Express and EJS, renamed main.js to ...	3 days ago

`.editorconfig` file for example. Usually referred to as dotfiles.

Assignments

Linting (research)

- **Research**
- **Time**: 0:45h
- **Goals**: subgoal 5

Take about 0:45h to investigate wh ry to look for examples.

- Linting is commonly used to e that?
- What are common tools for 'li
- How can you implement these
- What are the difference betwe

Homework

Linting (implementation)

- **Homework**
- **Time**: 3h
- **Goals**: subgoal 5

Based on the research you conducted setup a (or multiple) linters in your own project. Ask yourself which tools are useful for your own project. If you're not sure which one to pick, the ones below are solid choices:

- `eslint` - pluggable linting utility for JavaScript
- `stylelint` - modern linter that helps you avoid errors and enforce conventions in your styles

LINTERS

TAKE ABOUT 45M TO INVESTIGATE WHAT 'LINTING' IS

DEMO

LINTERS & CONFIGS

EXTENSIONS

IV/VI

IV EXTENSIONS

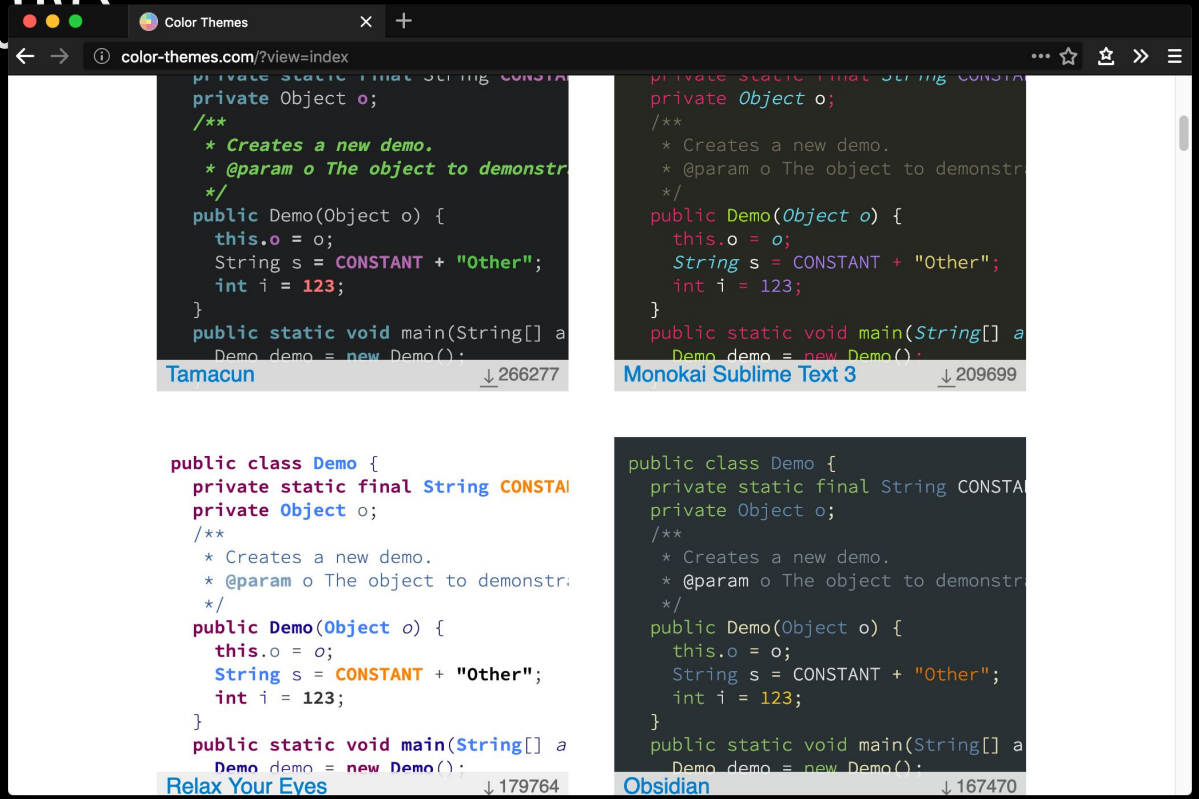
?

The features that Visual Studio Code or Atom includes **out-of-the-box** are just the start. VS Code extensions and Atom packages let you add languages, debuggers, and tools to your **installation to support your development workflow.**

https://code.visualstudio.com/docs/editor/extension-gallery

EXTENSIONS

COLOR THEMES



RESEARCH

V/VI

IV REQUIREMENTS LIST

Narrow down your Job Story in specific **small functionalities** and make a list of requirements your feature should have. You can then apply the **MoSCoW method** on your list to see which functionalities are **must-haves and which ones are enhancements.**

HOMEWORK

VI/VI

Assignments

Linting (research)

- **Research**
- **Time**: 0:45h
- **Goals**: subgoal 5

Take about 0:45h to investigate wh ry to look for examples.

- Linting is commonly used to e that?
- What are common tools for 'li
- How can you implement these
- What are the difference betwe

LINTERS

Homework

Linting (implementation)

- **Homework**
- **Time**: 3h
- **Goals**: subgoal 5

Based on the research you conducted setup a (or multiple) linters in your own project. Ask yourself which tools are useful for your own project. If you're not sure which one to pick, the ones below are solid choices:

- `eslint` - pluggable linting utility for JavaScript
- `stylelint` - modern linter that helps you avoid errors and enforce conventions in your styles

WORK ON THE LINTING ASSIGNMENT

> If you've configured a linter and want to use it in your editor, make sure you also install the corresponding extension.

Extensions

- **Homework**
- **Time**: 2h
- **Goals**: subgoal 5

Previously you've customized the look and feel of your command line. We are going to do the same thing with your code editor. Since you s ill using Brackets, this might be a go `Atom` or `VS Code`.

- Try a different rough lots of other commu
  - In VS Coc
  - Here is a
- Install some e
  - VS Code marketplace and Atom Packages are the corresponding pages for extensions for both editors.
- Get the most out of your edidtor by tweaking your settings and getting to know the shorcuts. Take some time to tweak some settings and learn some keyboard shortcuts. You can read the Flight Manual for Atom or read the docs for VS Code

> Wes and Scott (you might have taken one of their courses) have a good podcast called Syntax where they detail their setups. You can listen to these episodes or look in the show notes for inspiration.

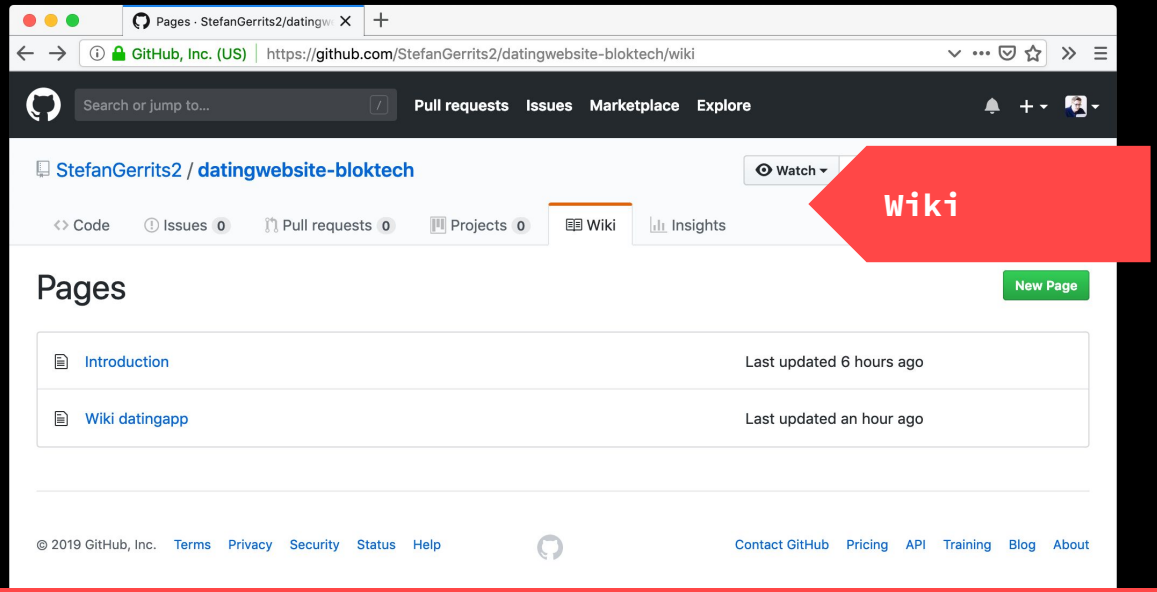
Usability Test

- **Homework**
- **Time**: 1h

WORK ON THE EXTENSIONS ASSIGNMENT

HAND-IN

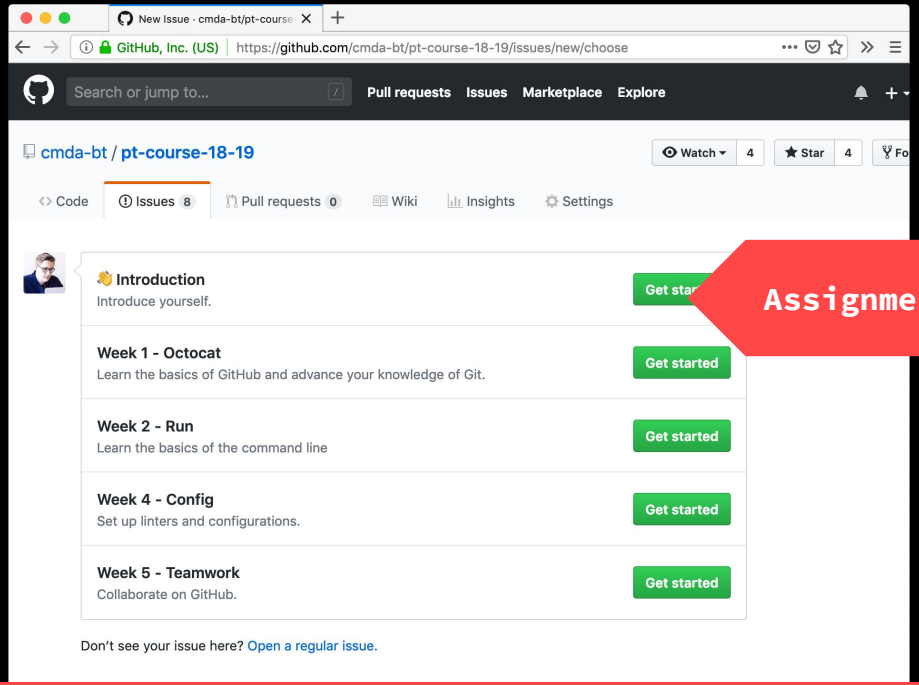
GITHUB



Update wiki!

HAND-IN

GITHUB



Assignments

Saturday - leet o'clock!

EXIT;

SEE YOU IN LAB V/VII!