project-tech

Env && Linting && Build

lab 3/8

Show what you did Stand-up!

issues

feedback

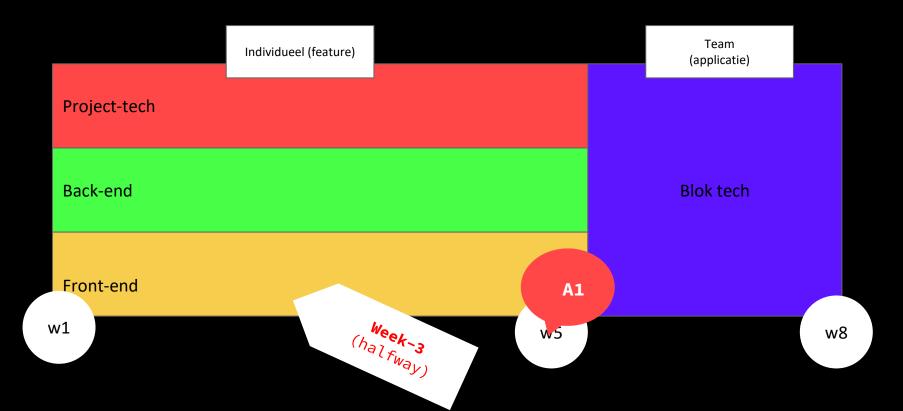
- Ik heb nog niet van iedereen een issue (+repo link)
- Begin klein met je feature (je kan altijd uitbouwen)
- ❖ Je schrijft de README en wiki voor bezoekers van je repo, niet voor je docenten (dus bv geen debrief van de opdracht)
- Organiseer de wiki niet per week, maar per onderwerp
- ❖ Maak een overzichtelijke wiki homepage
- ❖ Het handigste is de wiki in een aparte repo
- Veel repo's hebben nog geen research over b.v. Git, Command Line, Markdown, etc.

issues feedback

- Begin klein met je feature (je kan altijd uitbouwen)
- ❖ Er is geen criteria over responsive
- ❖ Er is een template voor de wiki
- Sommige repo's op GitHub missen nog 'community files'

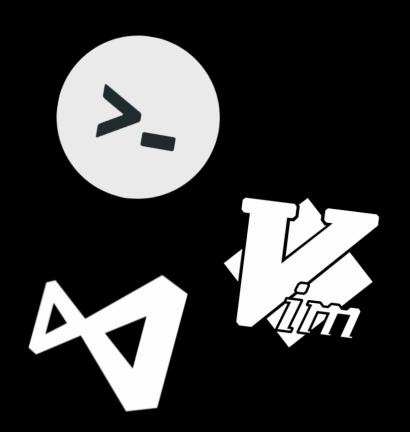
Note: Begin ook echt met bouwen van je front-end (interface).

Want dat is altijd meer werk dan je denkt.



today

- I. Standup
- II. Local Dev environment
- III. Linters & Formatters
- IV. Build Tools



Dev Environment

Y + 1(1) PR0.1039 FORTRAN STATEMENT - STICATION BILLIEBSBY **NUMBER** MW 859/57







1. Code Editors



2. Linters/Formatters



3. Build Tools



4. Non-code tools

```
. . .
                                 iles.js - Edited~
                                                                                                     ◎ ◎ ◎ Ø migration-tool
                                                                                                                                                          [] 17 days left. Buy Nova now.
async function getCount(context) {
                                                                                                                                            files.js
 const count = await apiV8.get("/files", {
                                                                                                     17 async function getCount(context) {
   params: {
                                                                                                     18
                                                                                                          const count = await apiV8.get("/files", {
     limit: 1,
     meta: "total_count",
                                                                                                     19
                                                                                                             params: {
                                                                                                     20
                                                                                                              limit: 1,
 });
                                                                                                     21
                                                                                                               meta: "total_count",
                                                                                                     22
 context.fileCount = count.data.meta.total_count;
 context.fileMap = {};
                                                                                                     23
                                                                                                           });
                                                                                                     24
                                                                                                     25
                                                                                                           context.fileCount = count.data.meta.total_count;
async function uploadFiles(context) {
                                                                                                     26
                                                                                                           context.fileMap = {};
 const pages = Math.ceil(context.fileCount / 100);
                                                                                                     27 }
 const tasks = [];
                                                                                                     29
                                                                                                         async function uploadFiles(context) {
  for (let i = 0: i < pages: i++) {
                                                                                                     30
                                                                                                           const pages = Math.ceil(context.fileCount / 100);
   tasks.push({
                                                                                                     31
     title: 'Uploading files \{i * 100 + 1\}-\{(i + 1) * 100\}',
                                                                                                     32
     task: uploadBatch(i).
                                                                                                           const tasks = [];
   });
                                                                                                     33
                                                                                                     34
                                                                                                           for (let i = 0; i < pages; i++) {
                                                                                                      35
                                                                                                             tasks.push({
 return new Listr(tasks);
                                                                                                      36
                                                                                                               title: 'Uploading files \{i * 100 + 1\} - \{(i + 1) * 100\}',
                                                                                                      37
                                                                                                               task: uploadBatch(i),
function uploadBatch(page) {
                                                                                                      38
                                                                                                             });
 return async (context, task) => {
                                                                                                     39
   const records = await apiV8.get("/files", {
                                                                                                      40
     params: {
       offset: page * 100,
                                                                                                      41
                                                                                                           return new Listr(tasks);
        limit: 100,
                                                                                                     42 }
                                                                                                     43
   });
                                                                                                     44
                                                                                                         function uploadBatch(page) {
                                                                                                     45
                                                                                                           return async (context, task) => {
    for (const fileRecord of records.data.data) {
     task.output = fileRecord.filename_download;
                                                                                                     46
                                                                                                             const records = await apiV8.get("/files", {
                                                                                                     47
     const savedFile = await apiV9.post("/files/import", {
                                                                                                     48
                                                                                                                 offset: page * 100,
       url: fileRecord.data.full url,
                                                                                                     49
                                                                                                                 limit: 100,
       data: {
                                                                                                     50
         filename download: fileRecord.filename download.
         title: fileRecord.title.
                                                                                                     51
                                                                                                             });
         description: fileRecord.description,
                                                                                                     52
                                                                                                     53
                                                                                                             for (const fileRecord of records.data.data) {
     });
                                                                                                     54
                                                                                                               task.output = fileRecord.filename_download;
     context.fileMap[fileRecord.id] = savedFile.data.data.id;
                                                                                                     55
                                                                                                     56
                                                                                                               const savedFile = await apiV9.post("/files/import", {
};
                                                                                                                 url: fileRecord.data.full url.
                                                                                                                 data: {
                                                                                                                                             =uploadFiles Ln 29, Col 38 +0, -0 JavaScript ≎ 2 Spaces ∨
```

code editors

- & Code is "just" text
- Computers don't care what your code
- Make writing (reading) source code easier
- Don't work hard, work smart #tailopez
- Personal preference!







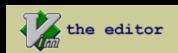






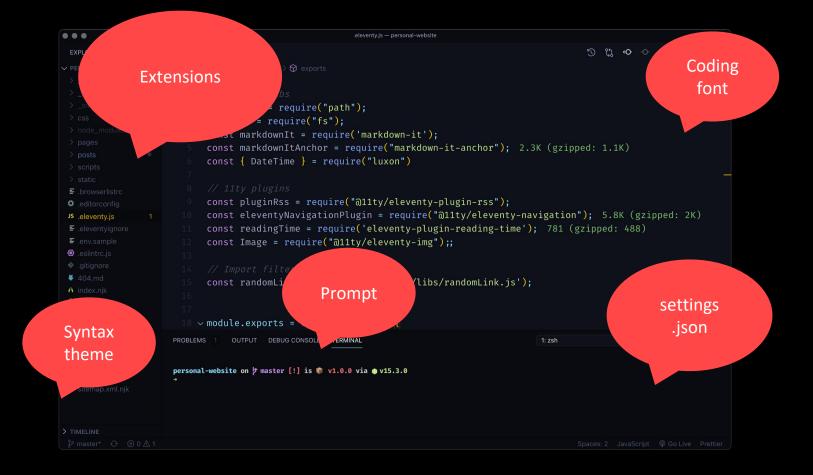


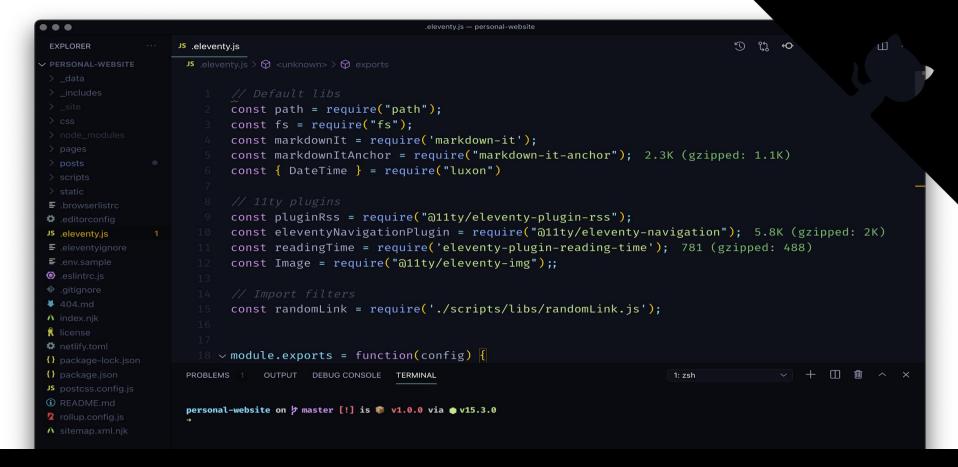




Visual Studio

Xcode 12





live demo dev environment

Linters & Formatters

A **linter** catches inconsistencies throughout your project and reduces your *chances of making logical errors*.

Syntax: Linters check the source code for programmatic mistakes (bugs, errors)

formatter

?

A **formatter** can help maintain a *consistent* coding style. It's basically a 'style guide' for how you write code.

Stylistic: beautifies (and formats) your code to make it more readable.

Linters & formatters

why

Ensuring a good coding style has a couple upsides:

- It helps you avoid bugs
- Help other developers read through your code
- Save time and avoid stress
- Well organized, cleanly written code can be its own documentation!
- Improves team collaboration

linter example

- Checks for a wide range of syntax- and stylistic errors
- Can help you write better code by enforcing best practices
- Makes sure everybody codes in the same "dialect"

https://eslint.org

ESlint

```
enforce a maximum depth that blocks can be
  nested (max-depth)
  Many developers consider code difficult to read if blocks are nested beyond a certain depth.
  This rule enforces a maximum depth that blocks can be nested to reduce code complexity.
Examples of incorrect code for this rule with the default { "max": 4 } option:
    /*eslint max-depth: ["error", 4]*/
    /*eslint-env es6*/
    function foo() {
        for (;;) { // Nested 1 deep
            while (true) { // Nested 2 deep
                if (true) { // Nested 3 deep
                    if (true) { // Nested 4 deep
                        if (true) { // Nested 5 deep

    Examples of correct code for this rule with the default { "max": 4 } option:

    /*eslint max-depth: ["error", 41*/
    /*eslint-env es6*/
    function foo() {
        for (::) { // Nested 1 deep
            while (true) { // Nested 2 deep
                if (true) { // Nested 3 deep
                    if (true) { // Nested 4 deep
```

formatter example

editorconfig

- Makes sure everybody's editor settings are the same
- Ensures you never end up with mixed tabs/spaces

https://editorconfig.org

```
# EditorConfig is awesome:
https://EditorConfig.org
# top-most EditorConfig file
root = true
# Unix-style newlines with a newline ending
every file
[*]
end of line = lf
insert_final_newline = true
# Matches multiple files with brace expansion
notation
# Set default charset
[*.{js,py}]
charset = utf-8
# 4 space indentation
[*.py]
indent_style = space
indent_size = 4
# Tab indentation (no size specified)
[Makefile]
indent_style = tab
# Indentation override for all JS under lib
directory
[lib/**.js]
indent style = space
indent_size = 2
```

Linters & formatters need configuration files to tell them what rules to enforce.

(.rc = runtime configuration)

- .editorconfig
- .eslintrc
- .stylelint







≡ .eleventyignore

≡ .env.sample

.eslintrc.js

.gitignore

linters

how to use

- In an extension in your text editor
- Using commands in the CLI
- Run scripts in package.json

```
.eslintrc.js > ...
     Danny de Vries, 2 years ago | 1 author (Danny de Vries)
   1 ~ module.exports = {
   > - - - "env": {
  3 "browser": true,
   4 ····"commonjs": true,
   5 "es6": true
   6 \cdots \}.
   8 ----"rules": {
  9 '- 'no-console': 1.
  10 | • • } .
  11 };
```

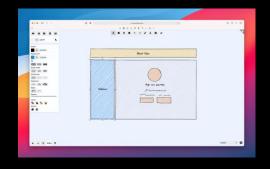
.eslintrc.js

2

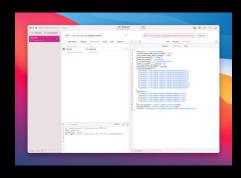
live demo linters & formatters

non-code tools

applications







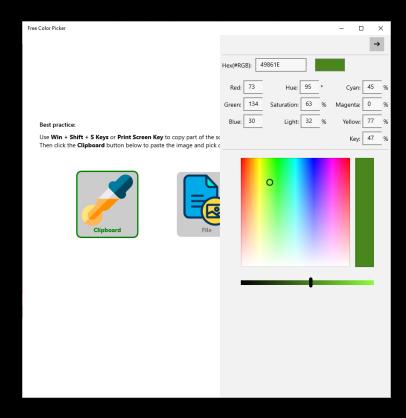
Excalidraw

Whimsical

Postman

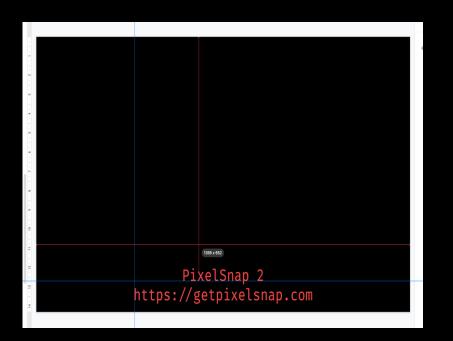
And many many more...

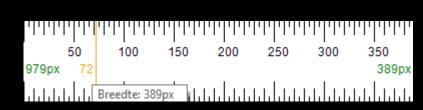




ColorSnapper 2
https://colorsnapper.com

Free color picker Windows Store

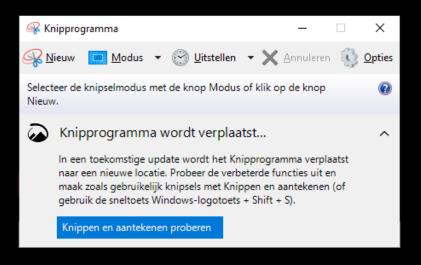




PixelSnap 2 https://getpixelsnap.com

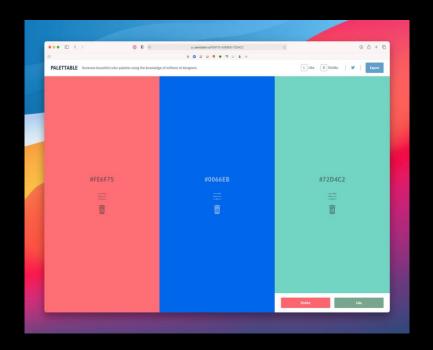
ScreenRuler https://sourceforge.net/projects /screenruler/

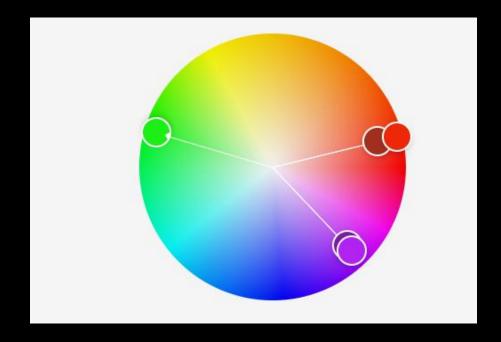




CleanShot X
https://cleanshot.com

Knipprogramma Standaard bij Windows





https://palettable.io

https://color.adobe.com

non-code tools

healthy

- #stayhydrated
- ❖ Get enough sleep
- ❖ Reduce your brightness
- Make your workspace comfortable
- ❖ Take enough breaks



Build Tools

Build tools are additional tooling you can use in your project and are mostly used for automating tasks or transforming code.

preprocessors, bundlers, postprocessor, compiling #buzzword #buzzword, ai, machine learning

build tools

?

Build tools are additional tooling you can use in your project and are mostly used for automating tasks or transforming code.

preprocessors, bundlers, postprocessor,

Note: If you don't know what you are doing and build tools feel too much. Then don't ;-)

But zwarte piste go ahead.

sass

example

.scss gets processed (compiled) to .css

```
CSS
    SCSS
     section {
                                             section {
         height: 100px;
                                                  height: 100px;
                                         3 4 5
         width: 100px;
                                                  width: 100px;
         .class-one {
             height: 50px;
                                             section .class-one {
             width: 50px;
                                                  height: 50px;
                                         89
 8
                                                  width: 50px;
             .button {
10
                                        10
                 color: #074e68;
                                             section .class-one .button {
11
                                        11
12
                                        12
                                                  color: #074e68;
13
                                        13
```

example

build

```
// Input // Build // Output

css/
L typography.scss
L layout.scss
colors.scss
```

Building

building



Start building out the interface (html & css) of your matching-app feature.

Synopsis

• Time: 6:00h

• Due: before week 3

Assignment

Based on the concept, job story, requirement list and wireframe from the previous week start building out the front-end of the feature you are going to make for the matching-application. You can build the interface with the **templating engine** as you learned in back-end as opposed to 'plain' HTML & CSS.

• Turn your wireframe into HTML pages. Do a HTML breakdown of your wireframe and use semantic HTML as learned in previous courses.

work on local, linting, build



see you in lab-4!