tt()

Welcome!

tl;dr: 6 weken full-time **vette sh!t** bouwen

Schedule

- Welcome
- What is the Tech Track?
- Goals & assessment
- Previous work
- Let’s get started
- Setting up

Schedule

- **Welcome**
- What is the Tech Track?
- Goals & assessment
- Previous work
- Let’s get started
- Setting up

Welcome

During the Tech Track you'll be developing your skills in order to create **meaningful**, **beautiful** and **interactive** data visualizations.

Teachers

Vincent

Danny

Laura

Information

https://github.com/cmda-tt/course-23-24

Schedule

- Welcome
- **What is the Tech Track?**
- Goals & assessment
- Previous work
- Let’s get started
- Setting up

Expectations (you)

- Learn a lot of new (nerdy!) skills
- Create **interactive** visualisations
- Concepting, sketching, reviewing, iterating…
- Feedback sessions + coaching
- Amazing guest lectures on cool subjects
- Shout at your laptop.

Expectations (us)

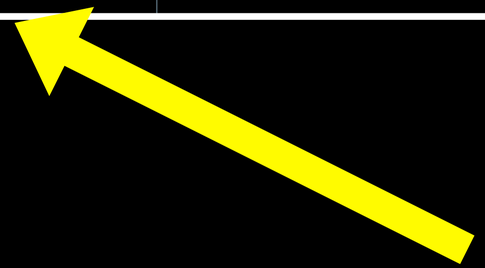
- Be motivated, put in real effort.
- Be ethical, work together, help each other.
- Be critical, let us know if we need to improve
- Communicate. Talk to each other, to us, stay in touch
- Be present at all lectures.
- We’ll communicate via teams, keep a close eye on it.

What?

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Introduction	Architecture	Visualisations	Storytelling	Advanced	Assessment

What?

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Introduction	Architecture	Visualisations	Storytelling	Advanced	Assessment



Introduction, playing with data, getting back into shape w/ HTML, CSS and *JavaScript*

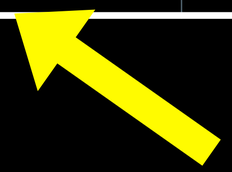
What?

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Introduction	**Architecture**	Visualisations	Storytelling	Advanced	Assessment

Setting up our stack, researching subjects and datasets, sketching our ideas & start with the assessment

What?

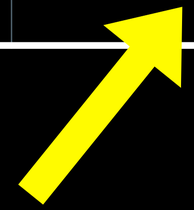
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Introduction	Architecture	**Visualisations**	Storytelling	Advanced	Assessment



Introduction to D3 (libraries) and visualizing on the web using interactive SVG’s and JavaScript

What?

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Introduction	Architecture	Visualisations	**Storytelling**	Advanced	Assessment



Animation, keyframes, scroll-snap, transitions: get ready to transform your default visuals into beautiful stories.

What?

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Introduction	Architecture	Visualisations	Storytelling	**Advanced**	Assessment

Temporal and geospatial visualisation, complex structuring, advanced patterns. Deep diving! (Or continue working on your current prototype)

What?

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Introduction	Architecture	Visualisations	Storytelling	Advanced	**Assessment**

Refactoring, documentation, deploying, and overall working on your product. Friday = assessments.

A typical week

Feedback

Monday	Tuesday	Wednesday	Thursday	Friday
Lecture	Self-study	Guest lecture	Self-study	Lecture

Feedback

Week 1

Date	Day	Subject	Teachers
16th of October	Monday	Welcome; working with Objects	Laura & Vincent
18th of October	Wednesday	Functional usage of JavaScript	Laura
20th of October	Friday	Interactive data visualizations for the web	Vincent

Week 2

Date	Day	Subject	Teachers
30st of October	Monday	Setting up your project	Danny
1st of November	Wednesday	Researching datasets, Formats for data transfer	Laura
3rd of November	Friday	Sketching ideas	Vincent

Week 3

Date	Day	Subject	Teachers
6th of November	Monday	Introduction to D3	Laura & Vincent

Schedule (GitHub)

Schedule

- Welcome
- What is the Tech Track?
- **Goals & assessment**
- Previous work
- Let’s get started
- Setting up

Assignment

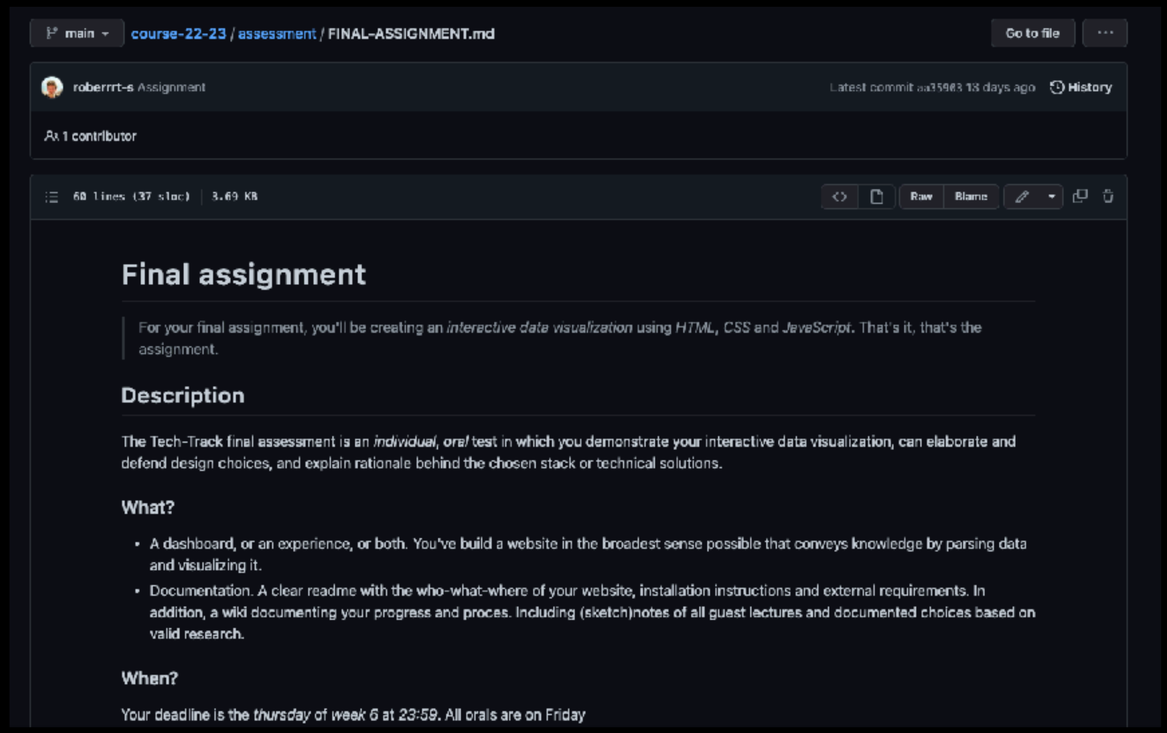
For your final assignment, you'll be creating an interactive data visualization using HTML, CSS and JavaScript. That's it, that's the assignment.

Goals

- Clean, transform data with functional programming patterns
- Create interactive visualizations from (external) data
- Use D3 or other frameworks to create interactive visualization(s)
- Work with front-end framework and think in components
- Apply meaningful animation and / or storytelling in your visualization.
- Refactor, debug and read complex programs (code)

Requirements

- General
- Architecture
- Visualisation
- Storytelling
- Wiki

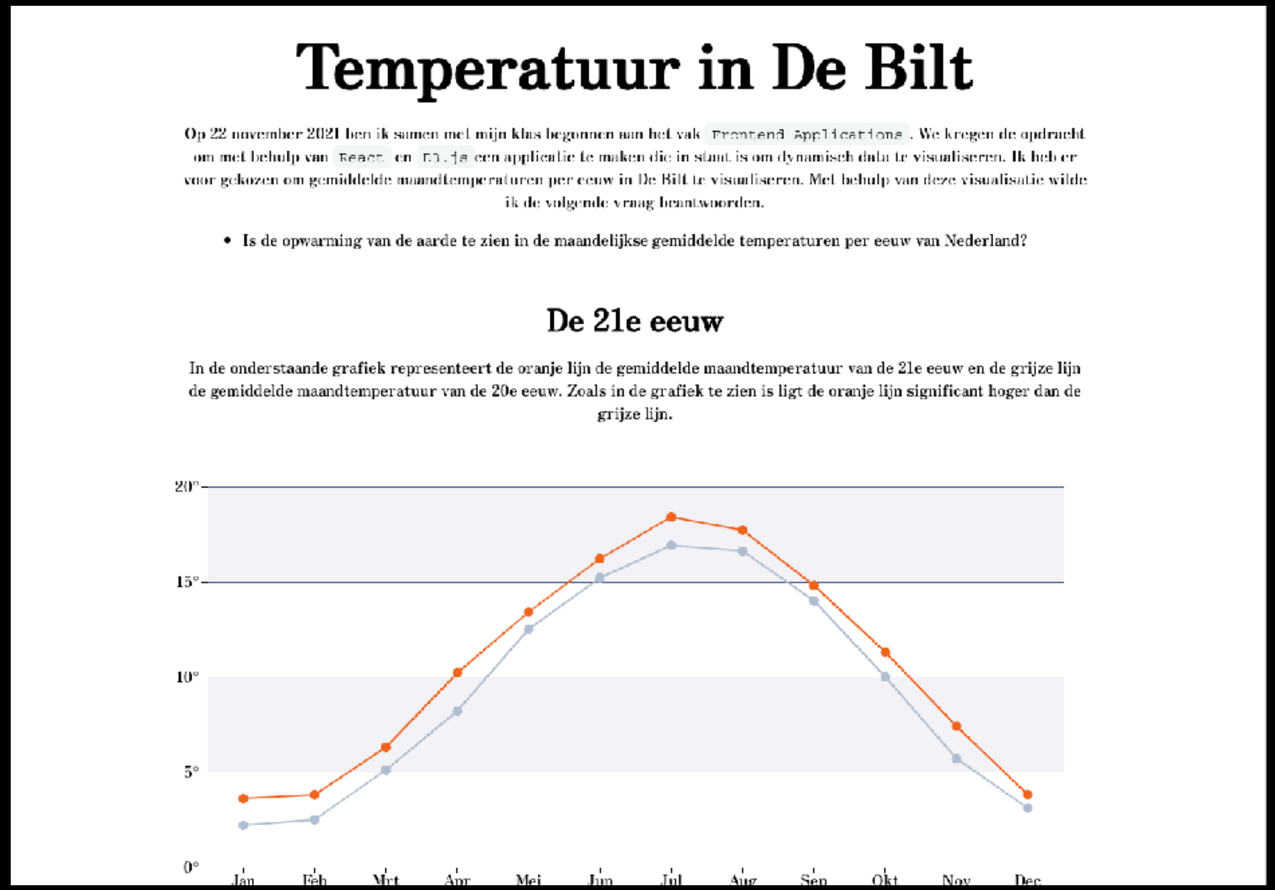


https://github.com/cmda-tt/course-23-24/blob/main/assessment/FINAL-ASSIGNMENT.md

Schedule

- Welcome
- What is the Tech Track?
- Goals & assessment
- **Previous work**
- Let’s get started
- Setting up

Previous work



Temperatuur in De Bilt

Op 22 november 2021 ben ik samen met mijn klas begonnen aan het vak `Frontend Applications`. We kregen de opdracht om met behulp van `React` en `D3.js` een applicatie te maken die in staat is om dynamisch data te visualiseren. Ik heb er voor gekozen om gemiddelde maandtemperaturen per eeuw in De Bilt te visualiseren. Met behulp van deze visualisatie wilde ik de volgende vraag beantwoorden.

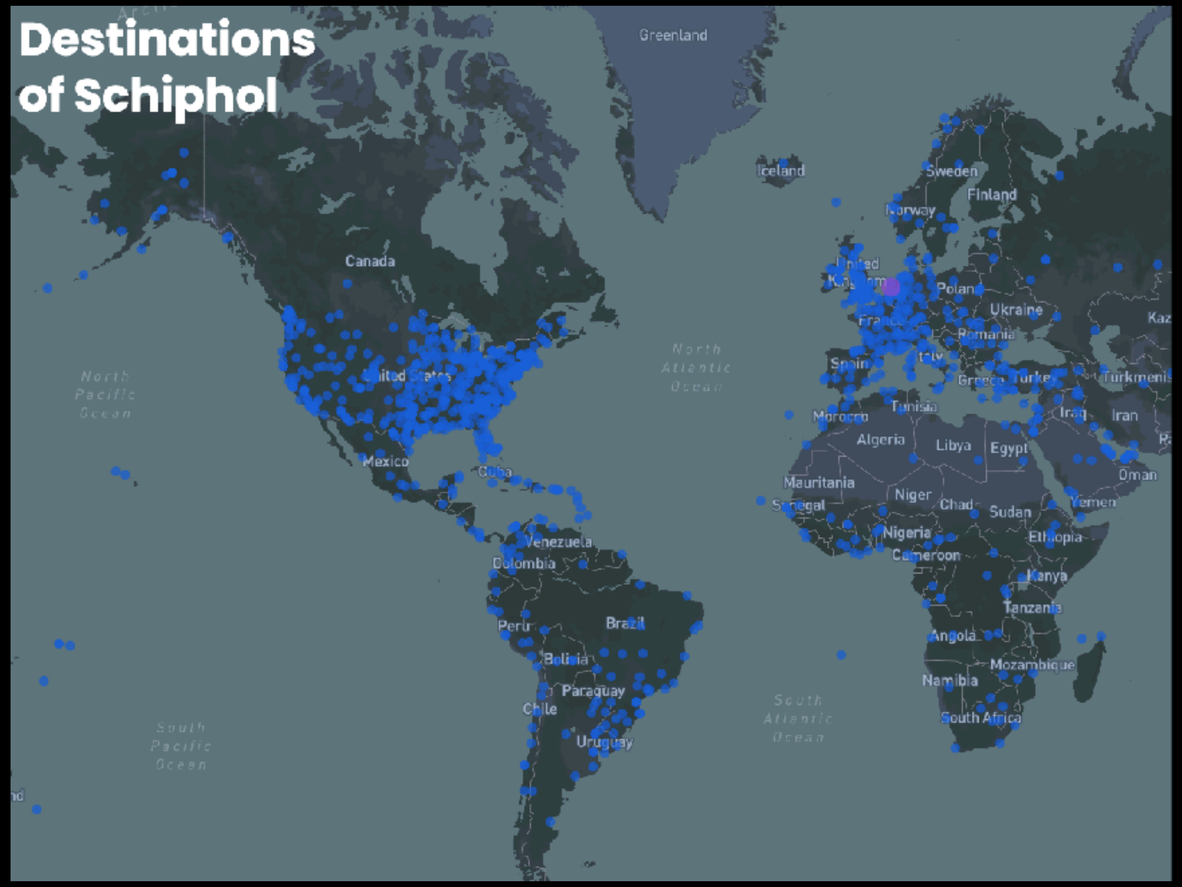
- Is de opwarming van de aarde te zien in de maandelijkse gemiddelde temperaturen per eeuw van Nederland?

De 21e eeuw

In de onderstaande grafiek representeert de oranje lijn de gemiddelde maandtemperatuur van de 21e eeuw en de grijze lijn de gemiddelde maandtemperatuur van de 20e eeuw. Zoals in de grafiek te zien is ligt de oranje lijn significant hoger dan de grijze lijn.

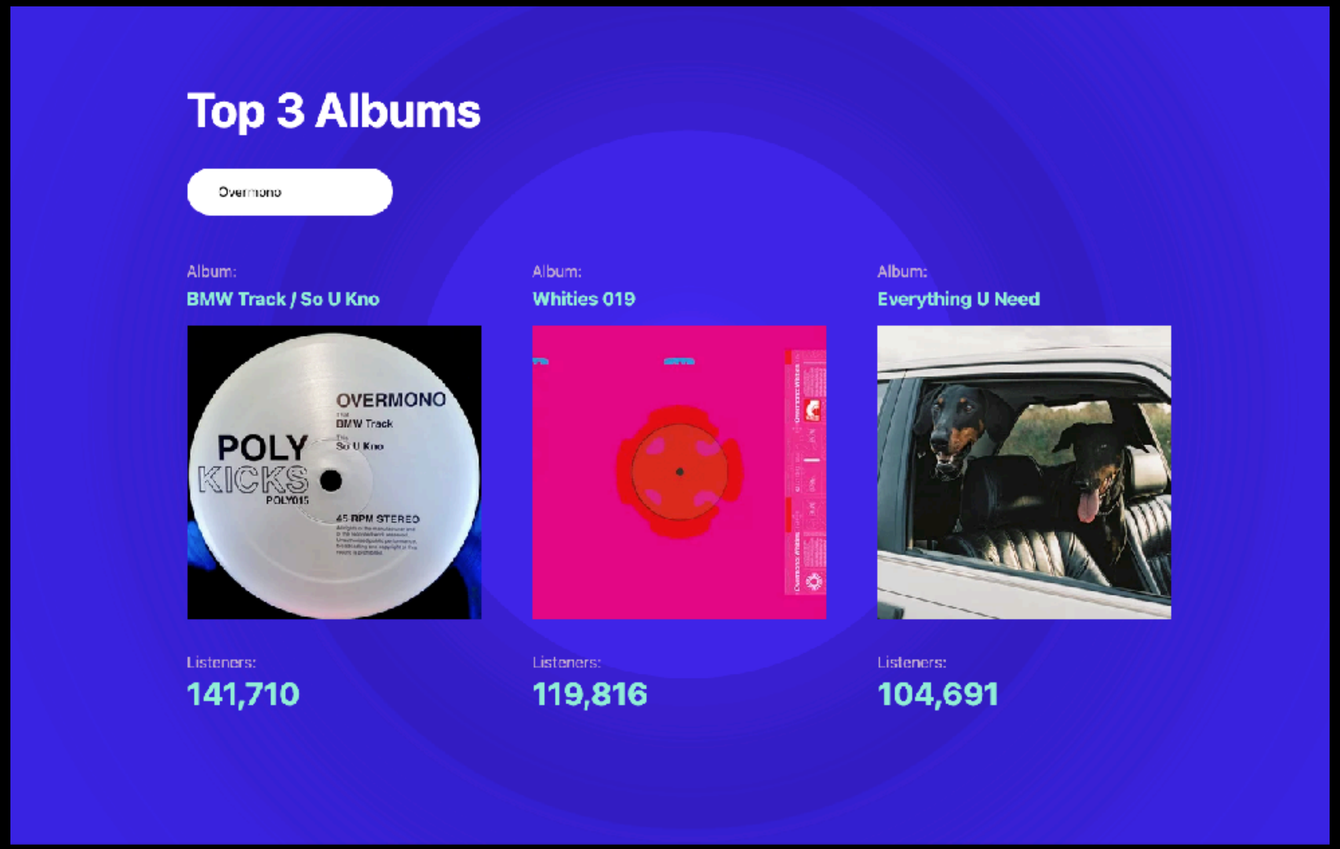
Stein, 21-22

Previous work



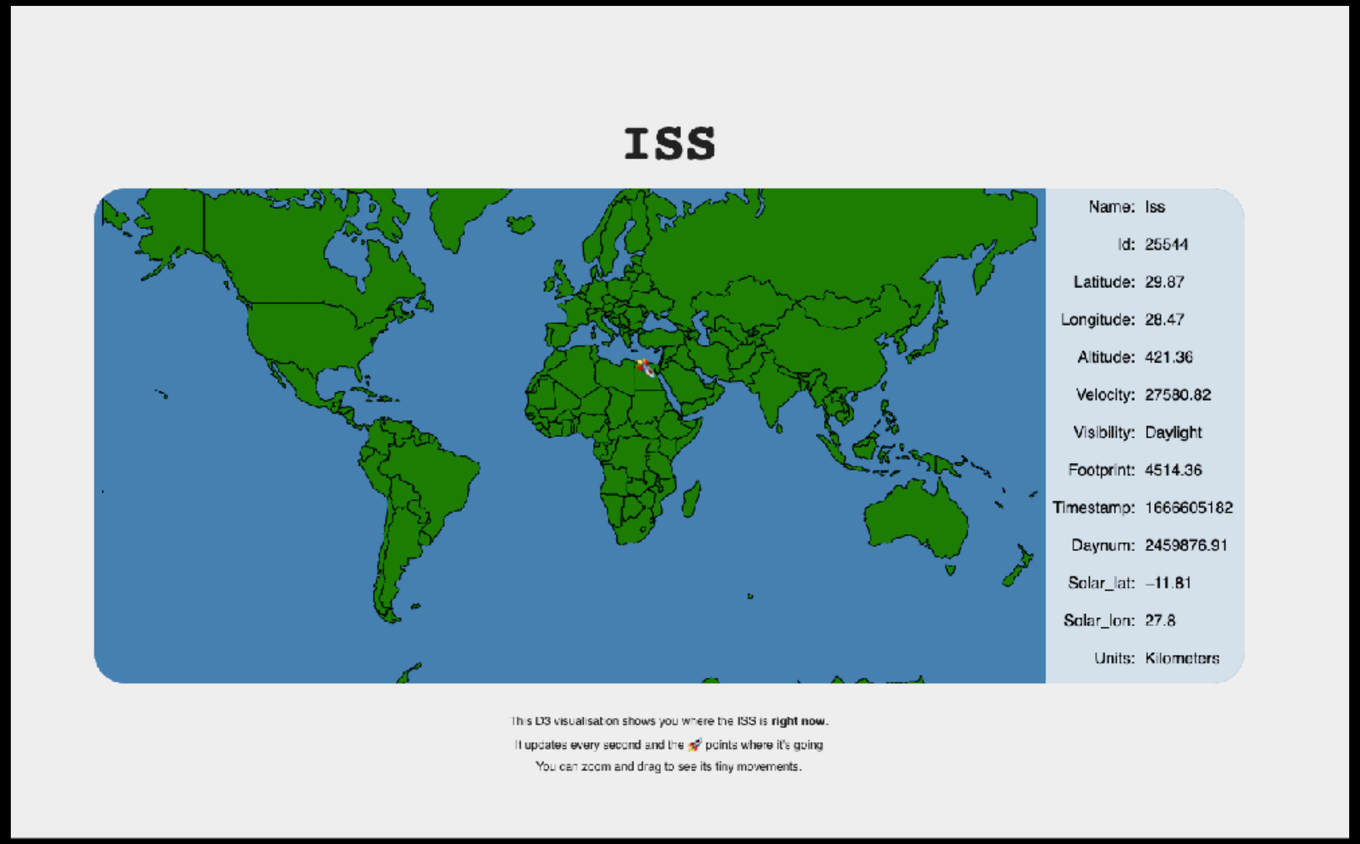
Juul, 21-22

Previous work



Daan, 21-22

Previous work



Daniel, 21-22

Schedule

- Welcome
- What is the Tech Track?
- Goals & assessment
- Previous work
- **Let’s get started**
- Setting up

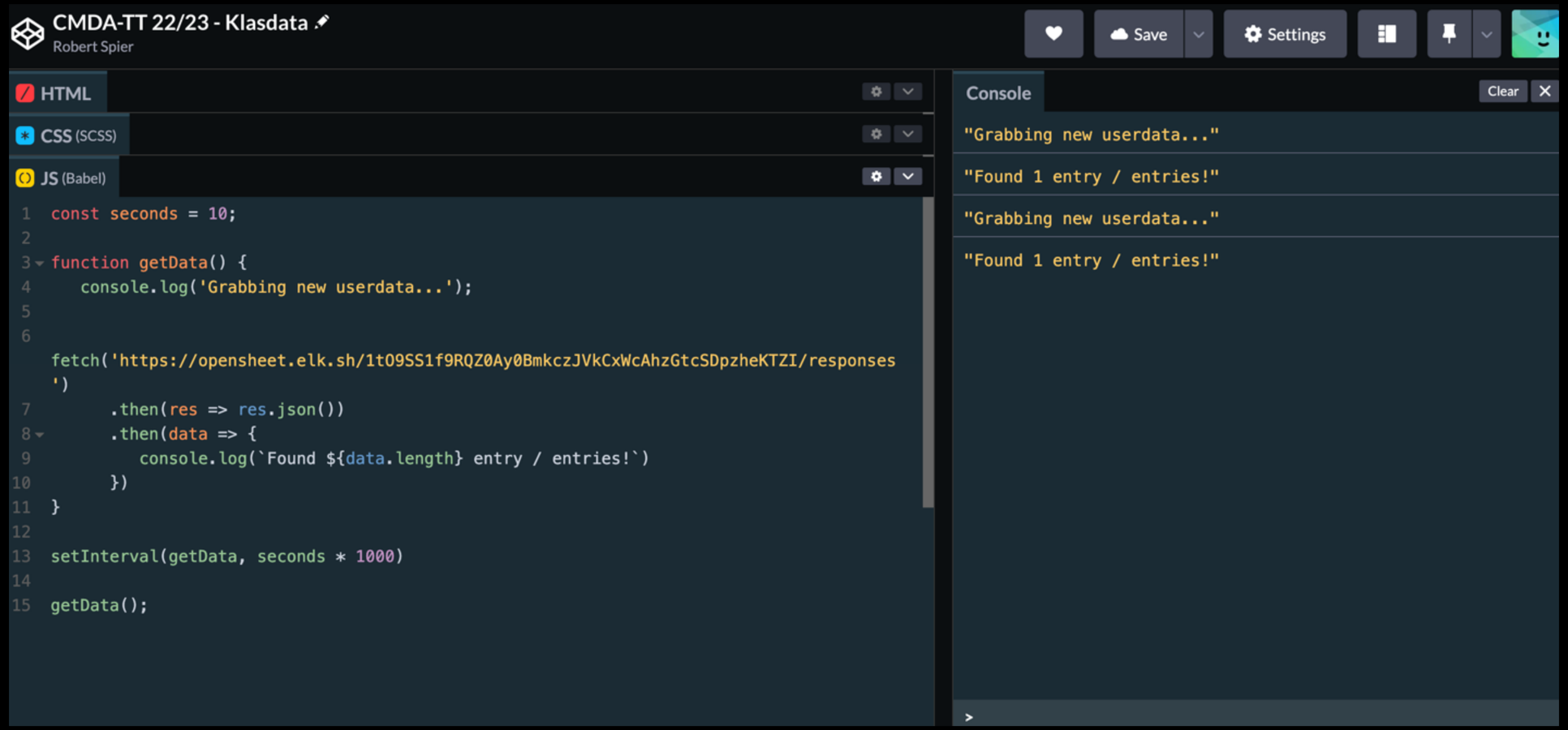
Starting..

Of ik deel zo even de URL op teams..

Starting..

Omg data????

Starting..


CMDA-TT 22/23 - Klasdata
Robert Spier
Save
Settings
HTML
CSS (SCSS)
JS (Babel)
const seconds = 10;
function getData() {
console.log('Grabbing new userdata...');
fetch('https://opensheet.elk.sh/1tO9SS1f9RQZ0Ay0BmkczJVkCxWcAhzGtcSDpzheKTZI/responses')
.then(res => res.json())
.then(data => {
console.log(`Found ${data.length} entry / entries!`)
})
}
setInterval(getData, seconds * 1000)
getData();
Console
Clear
"Grabbing new userdata..."
"Found 1 entry / entries!"
"Grabbing new userdata..."
"Found 1 entry / entries!"
>

Schedule

- Welcome
- What is the Tech Track?
- Goals & assessment
- Previous work
- Let’s get started
- **Setting up**

Setting up

1. Create a GitHub repository with the name tech-track-23-24

2. Add your information to the sheet in the #tech-track channel

3. Fork the codepen to your own account (*optional, if you'd like to work with more challenging data for the assignments*)

You're all set for tomorrow!

Vorr alle werkgroepen in je rooster:

9:20 –> 9:30

Uncaught SyntaxError
Unexpected end of input