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
- Set up your repository
- Set up your product bio

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- **Welcome**
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Teachers

Danny

Laura

Information

https://github.com/cmda-tt/course-25-26

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Expectations (you)

- Learn a lot of new (nerdy!) skills
- Create **interactive** visualisations
- Concepting, sketching, reviewing, iterating…
- Working in a framework
- 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.

What?

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

What?

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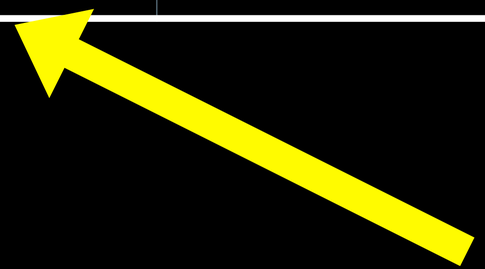
Introduction	Architecture	Visualisations	Storytelling	Deployment	Assessment



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	Deployment	Assessment

Setting up your stack, researching subjects and datasets. Working with API’s and libraries. Sketching ideas

What?

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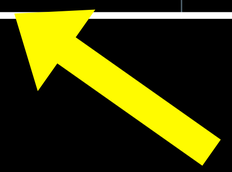

Introduction to D3 (libraries) and visualizing on the web using interactive SVG’s and JavaScript

What?

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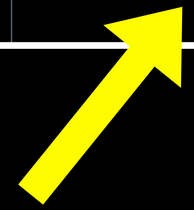

Geospatial and temporal visualisation, asynchronous programming. Documenting tech research.

What?

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

Peer feedback and deployment

What?

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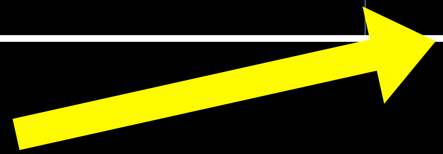
Introduction	Architecture	Visualisations	Storytelling	Deployment	**Assessment**



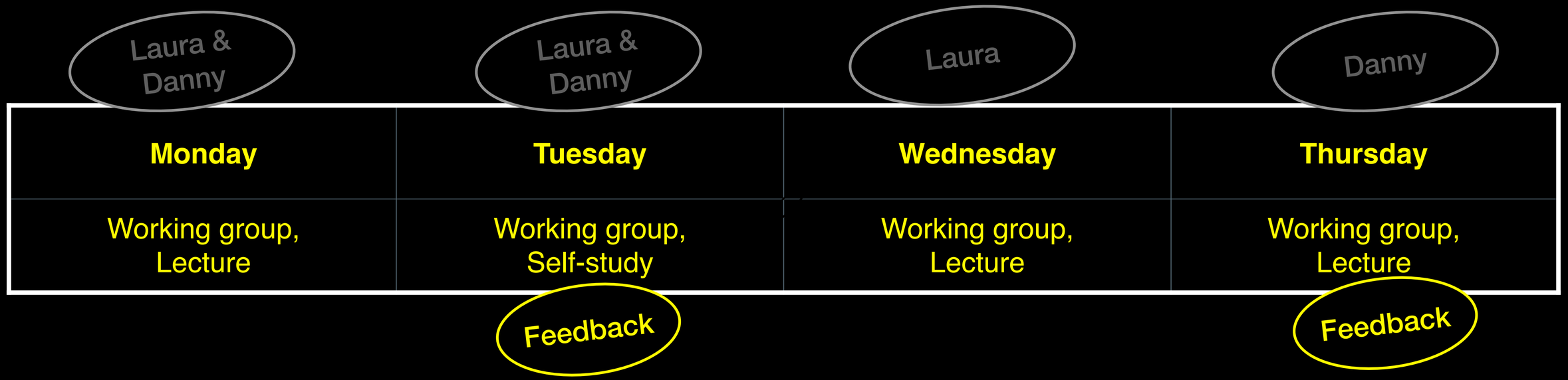
Refactoring, optimization and documentation + assessments.

What?

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

Brainstorm ideas / concept

A typical week



Functional Programming

Date	Day	Subject	Teachers
27st of October	Monday	Pitch your ideas...Guest? Fetch	Laura & Danny
28nd of October	Tuesday	filter, map, reduce	Laura & Danny
29th of October	Wednesday	Q&A - 12:00 - Submit your ideas	Laura
30nd of October	Thursday	Setting up your project with Svelte, introduction to D3	Danny

Week 3

Visualisation with D3

Date	Day	Subject	Teachers
3th of November	Monday	Guest? Working with D3	Laura & Danny
4th of November	Tuesday	Working with Scales in D3	Laura
5th of November	Wednesday		Laura
6th of November	Thursday	Advanced & Interactive D3	Danny

Schedule (GitHub)

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Assignment

For your final assignment, you'll be creating an *interactive custom data visualization* using *real-time external data*. You will use D3 (library) and Svelte (framework).

Assignment

update, filters, sorting etc.

no default standard chart types

For your final assignment, you'll be creating an *interactive custom data visualization* using *real-time external data*. You will use D3 (library) and Svelte (framework).

API, no static dataset

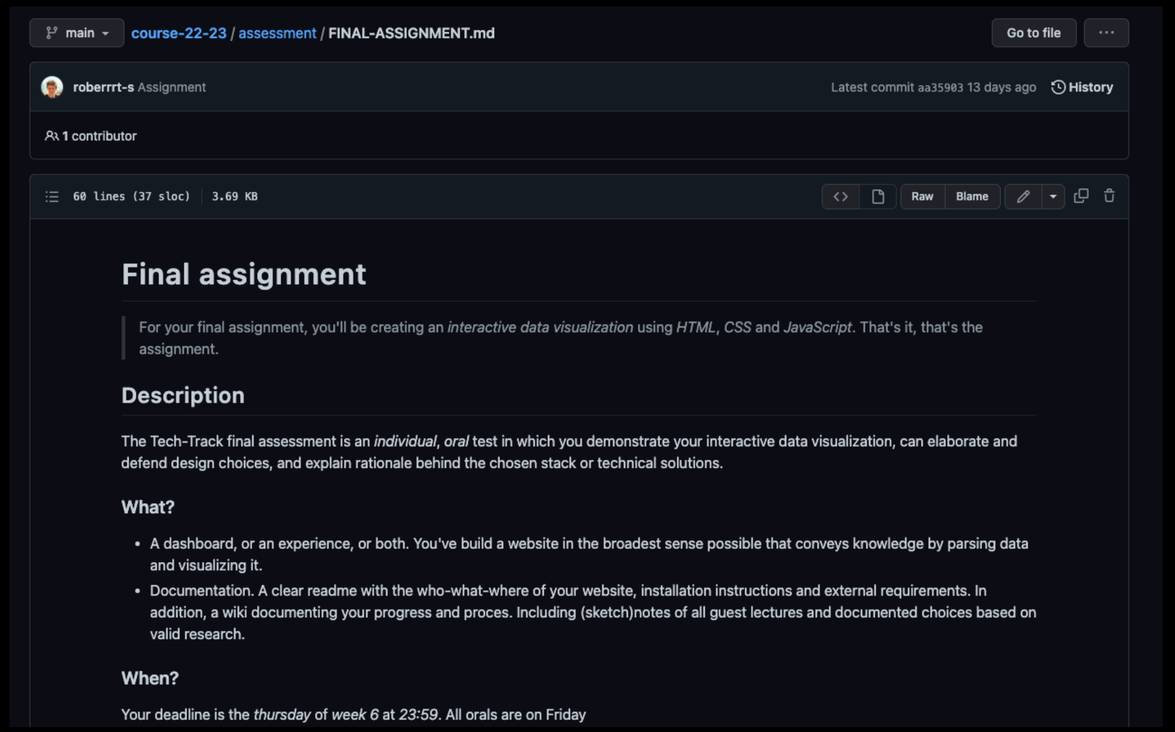
Goals

- Clean and transform data with functional programming
- Create interactive visualizations from (external) data
- Use D3 to create interactive visualization(s)
- Work with a front-end framework and think in components
- Process data asynchronous
- Document tech research
- Refactor, debug and read complex programs (code)

Goals

AI 

Requirements



- General
- Coding, data handling
- Visualisation
- Storytelling
- Wiki (Product Bio)
- Design Rationale for one tech choice, based on your research

De beschrijving van de eindopdracht vind je op de Tech Track pagina op DLO

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Previous work

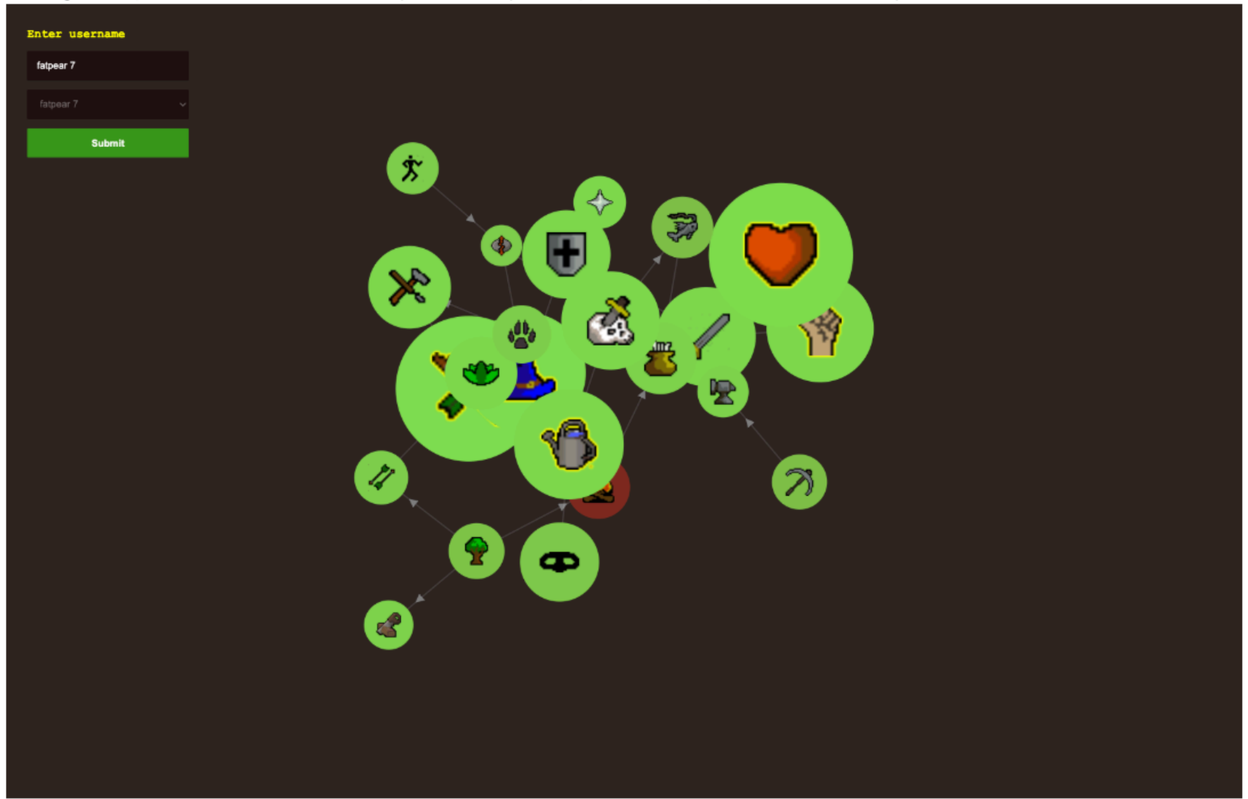
Studentenwerk

Hier een aantal voorbeelden van studentenwerk van afgelopen jaren:

@briannededeugd - *"Female Representation in Cinema", an interactive data visualisation telling the story of women in film during the past 100 years.* Vooral goed omdat de structuur van de componenten in Svelte goed in elkaar zit.

@SF-Duijkersloot - *"A month of asteroids", In the past month, Earth has had several close encounters with asteroids. This visualization shows their paths, sizes, and speeds, helping us understand how close some of them came and what risks they might bring.* Een fraaie visualisatie vorm met mooie on-scroll highlights van de data.

@Stephan Sierra Perdomo - *Old School RuneScape account visualization. You can type any account and you will see every single skill in the game represented as a node.* Vooral goed vanwege het speelse ontwerp en de data handling.



Questions?

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Let’s get started..

With coding

SimpleObjects, ComplexObjects (practise with simple datasets)

Countries (practise with medium-sized dataset)

https://api-ninjas.com/ (practise with sth else…)

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Set up your repository

1. Create a GitHub repository (with the name tech-track-25-26)
2. Hand-in your link to the GitHub link assignment
3. Code at least 1 of the Objects-assignment and 1 other

For tomorrow…..

1. Set up your GitHub repository and wiki
2. Code at least 1 of the assignments
3. Set up your Product Bio

Start thinking about your assignment. Look for inspiration. Topics? Data?Interesting viz types?

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