

Project 2 GitHub Hackaton

Four days of creative exploration using the GitHub GraphQL API as the outset.

Agenda

GitHub Hackaton?! Talk json to me...

WTF is GraphQL?

Github Access Token

Forming Calls with GraphQL

The Explorer

Starter script
Firestarters
Team up and let's go!



GitHub Hackaton

What does it mean?





Phishing, M. Lansomware, Spoofing, Encry, Adware J. Threats, Brute Force Attack, Botnes Der J. Jice, Firewalls, Payload, Black hat, 1rojans, SPAM, Worms, Cloaking

GitHub Hackaton

HACK n.

- 1. Originally a quick job that produces what is needed, but not well.
- 2. The result of that job.
- 3. NEAT HACK: A clever technique.
- 4. REAL HACK: A crock (occasionally affectionate). v.
- 5. HACK TOGETHER: to throw something together so it will work.
- 6. To bear emotionally or physically. "I can't hack this heat!"
- 7. To work on something (typically a program). In specific sense: "What are you doing?" "I'm hacking [GitHub]." In general sense: "What do you do around here?" "We hack [GitHub]."
- 8. To pull a prank on. See definition 3 and HACKER (def #6).
- 9. To waste time (as opposed to TOOL). "Watcha up to?" "Oh, just hacking."
- 10. HACK UP (ON): To hack, but generally implies that the result is meanings 1-2.
- 11. HACK VALUE: Term used as the reason or motivation for expending effort toward useless goal, the point being that the accomplished goal is a hack. For example, code to read and print roman numerals, which was installed purely for hack 12.00.
- 12. HAPPY HACKING: A farewell.
- 13. HOW'S HACKING?: A friendly greeting among hackers.
- 14. HACK HACK: A somewhat pointless but friendly comment, often used



rewell.

GitHub Hackaton

"Hacking is creative problem solving." – Joshua Tauberer, hackaton.guide

Four days of creative exploration using the GitHub GraphQL API as the outset. Remember: this is not a contest.. this is a challenge to see what you can achieve in four days!

Goals:

Learn to use GraphQL; Implement your knowledge of the web; Build awesome things in teams.







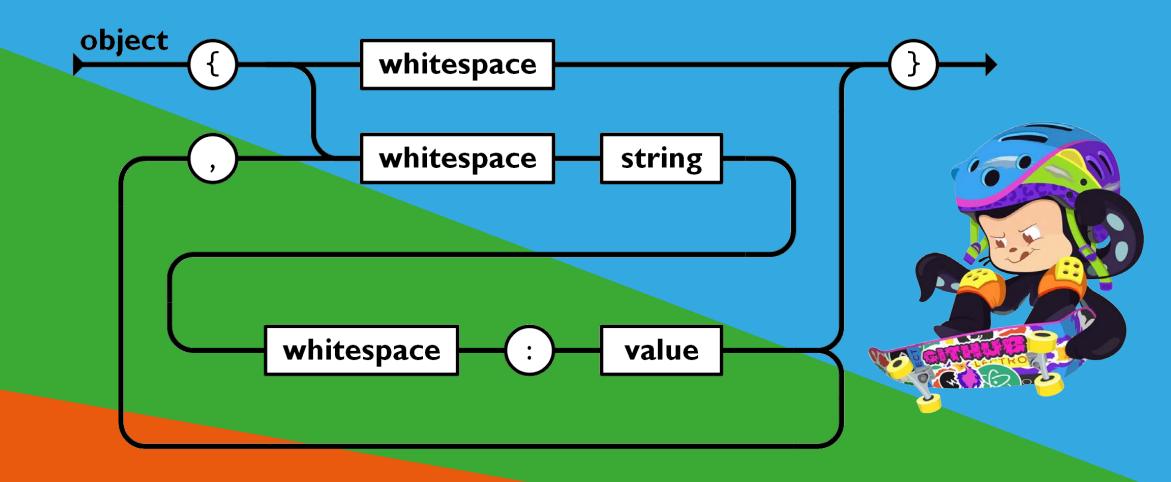


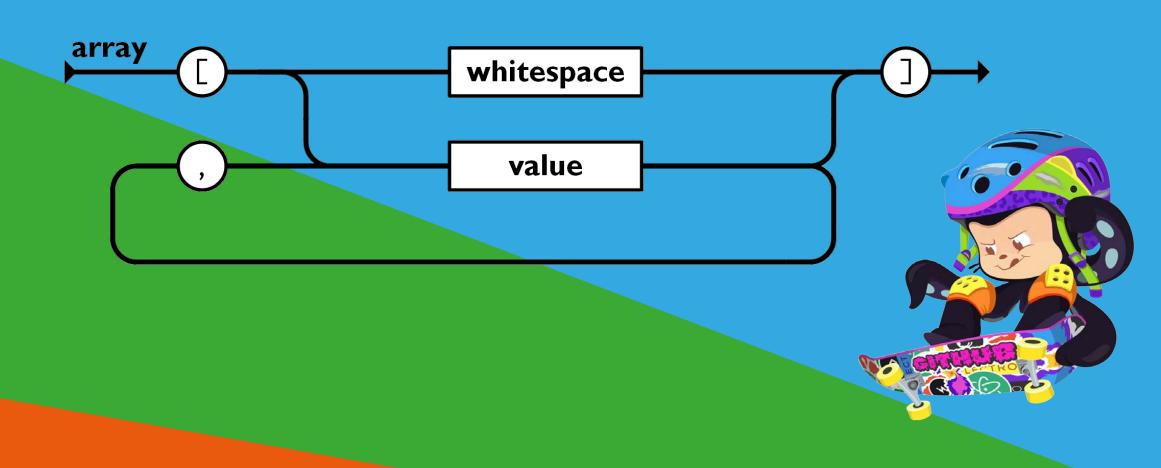
JSON (JavaScript Object Notation)

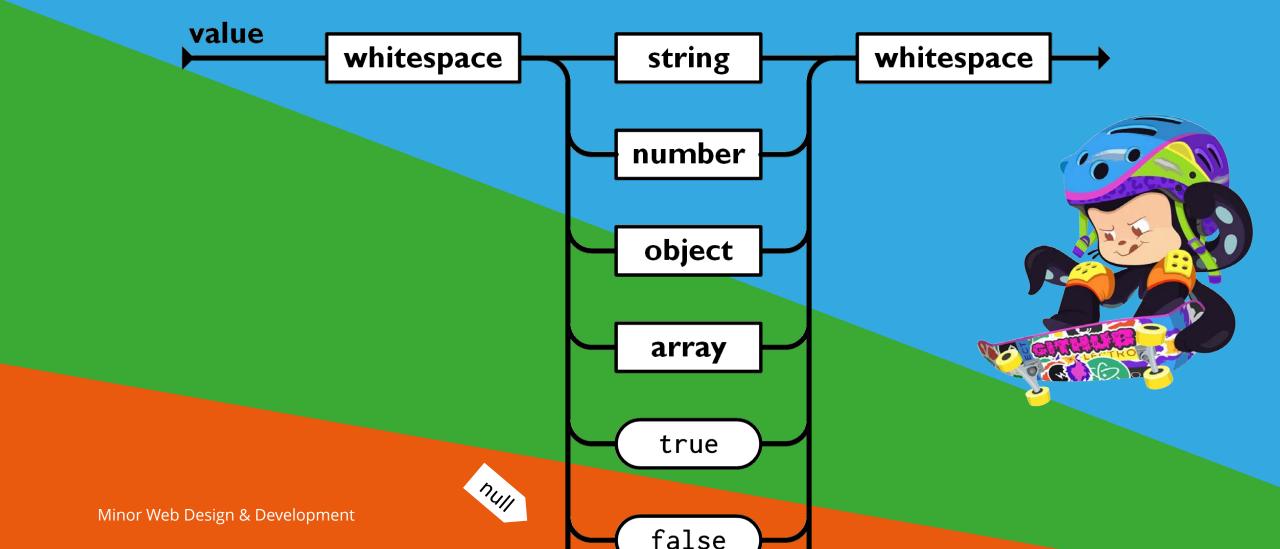
Het is de notatiewijze voor objecten in de taal waar je al een tijdje (iig tijdens de minor) in programmeert...

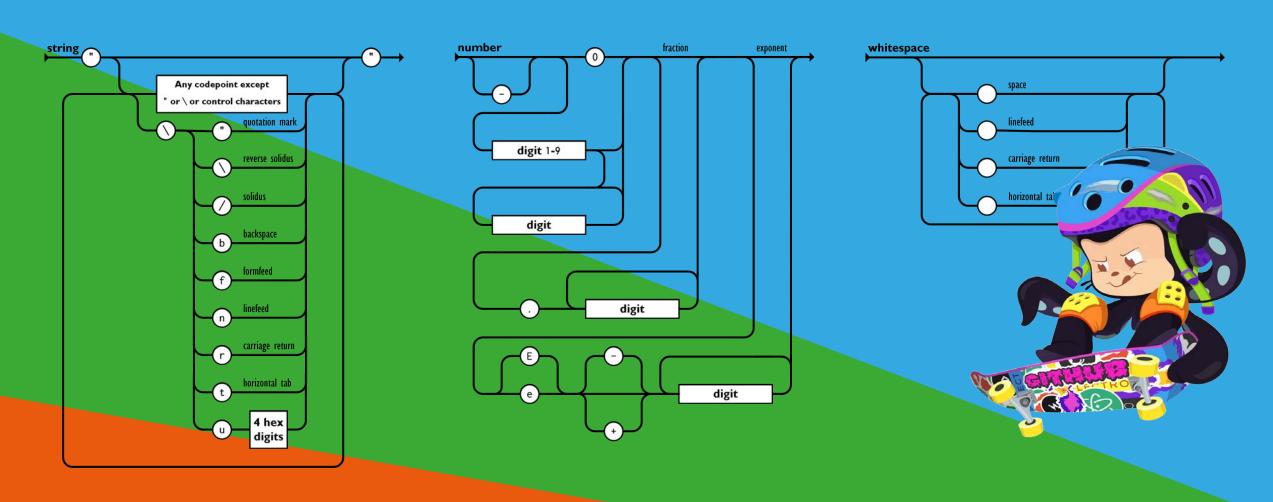
JSON is gebouwd op twee structuren:

- Een verzameling naam/waarde paren (Object)
- Een geordende lijst met waarden (Array)









GitHub

What is it?

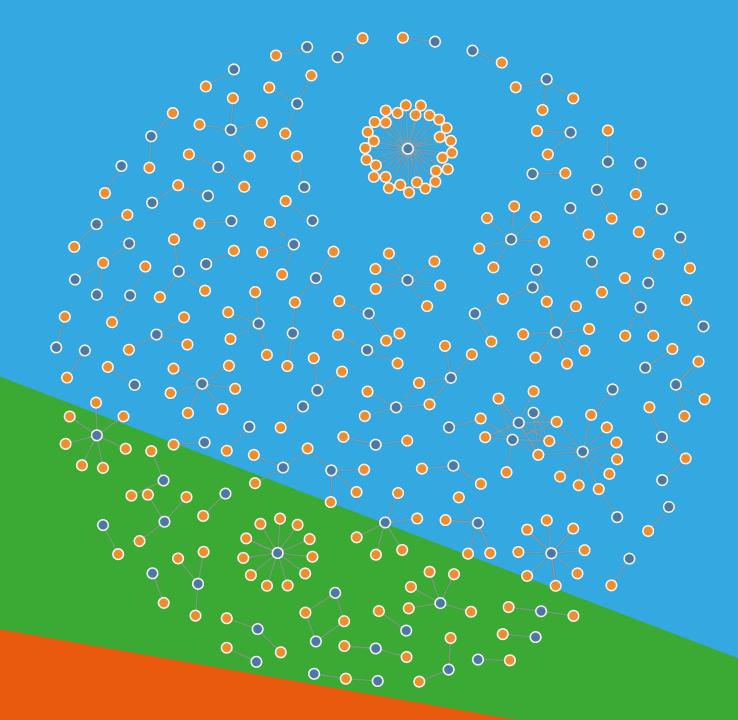


Minor Web Design & Development

GitHub is a huge dataset

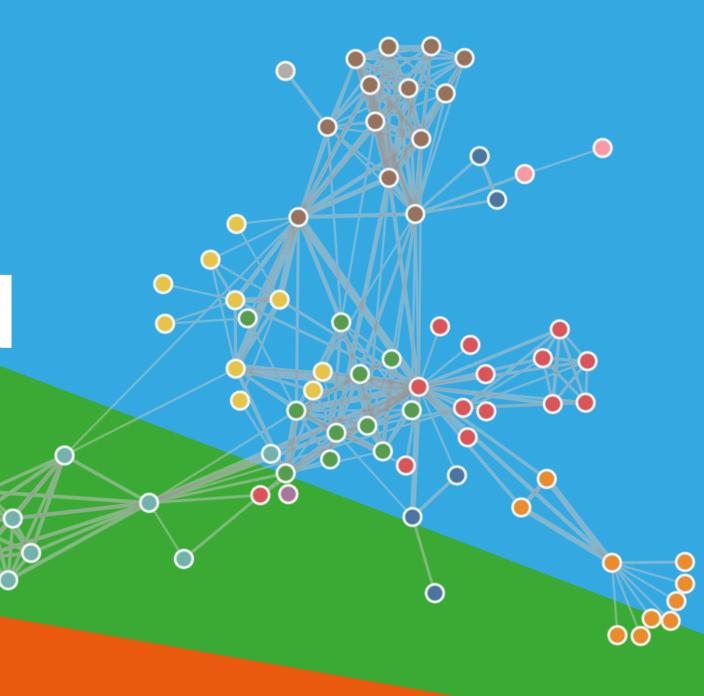
(not only that...)





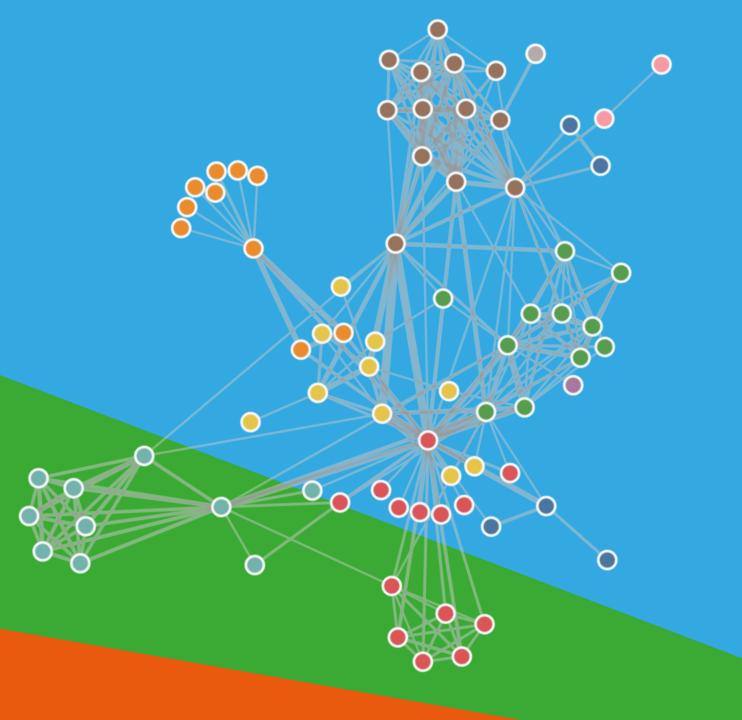
GitHub is a huge connected dataset

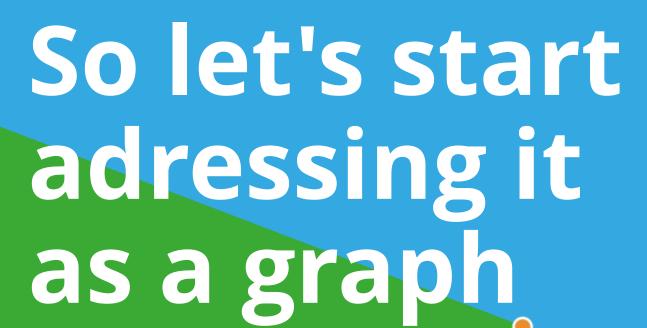




GitHub is graphs all the way down









Enter GraphQL

REST is just a gateway drug, wait until you've tried GraphQL



WTF is GraphQL?

"GraphQL is a query language for your API, and a server-side runtime for executing queries using a type system you define for your data." - graphql.org/learn/

You put JSON in... you get JSON out...



WTF is GraphQL?

Een GraphQL Query die we straks gaan gebruiken...

```
user(login: "ju5tu5") {
   repositories(first: 100, orderBy: {field: UPDATED_AT, direction: DESC}, privacy: PUBLIC, isFork: false) {
         edges {
              node {
                  name
                  url
                  description
                  updatedAt
                  homepageUrl
```

Minor Web Design & Development

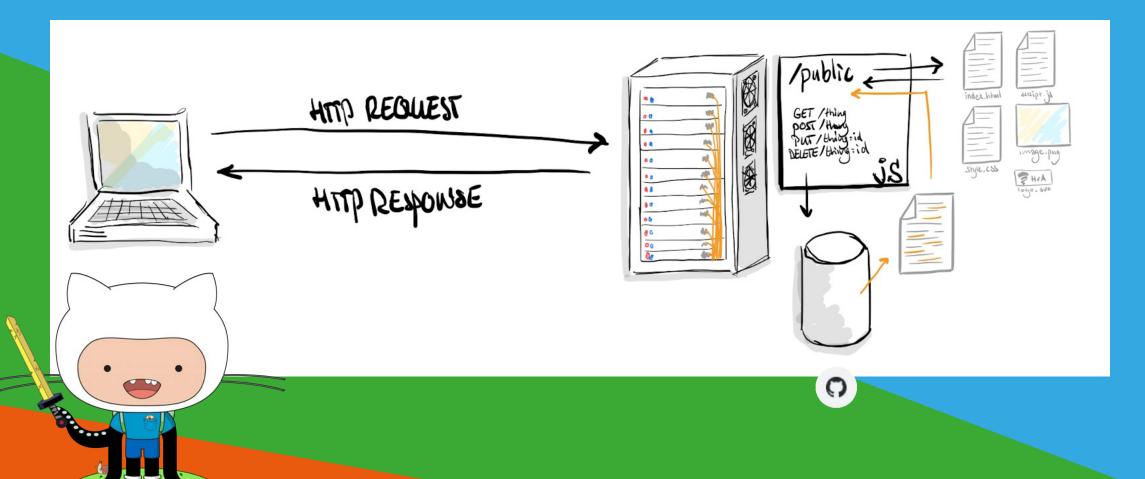


WTF is GraphQL?

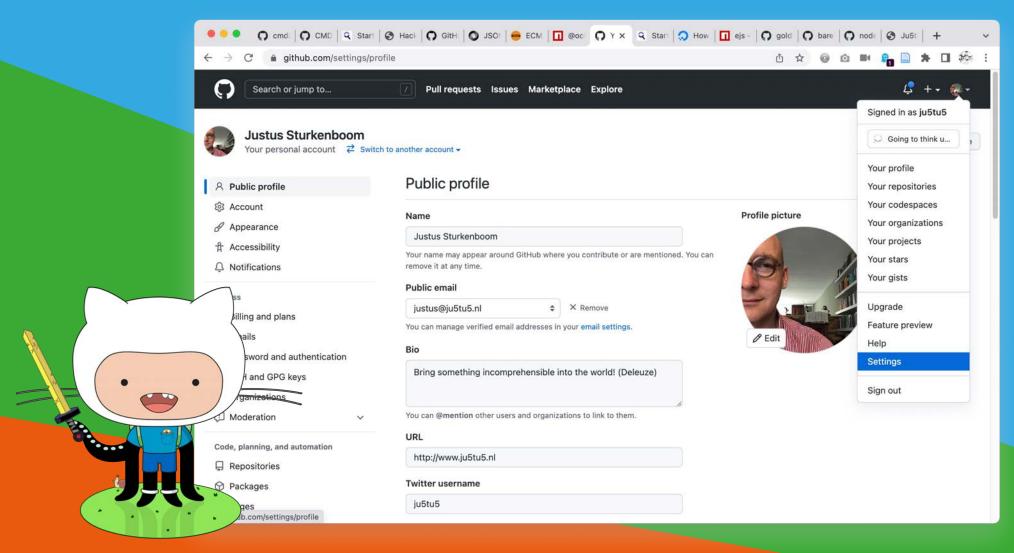
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Minor Web Design & Development
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Forming calls with GraphQL

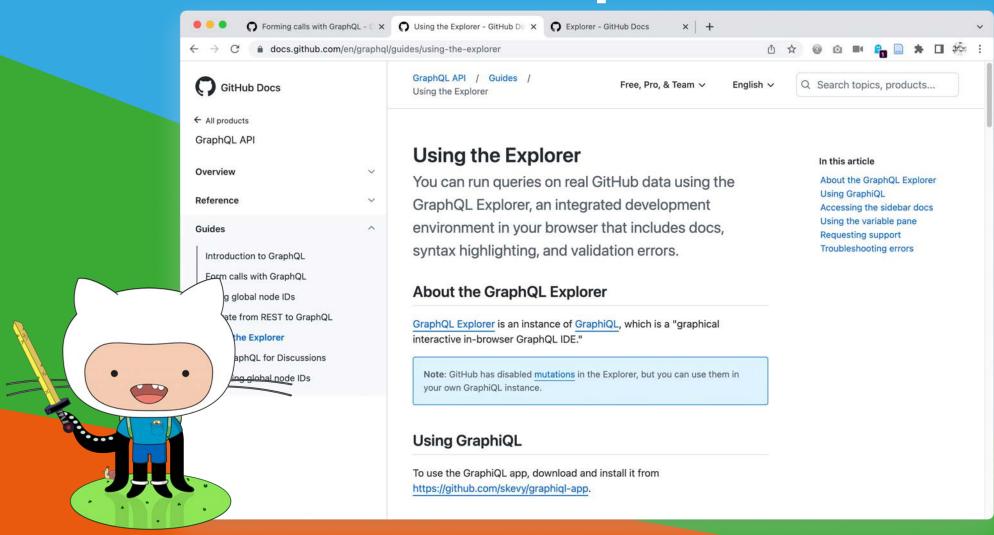


Github Access Token



click me

The Explorer



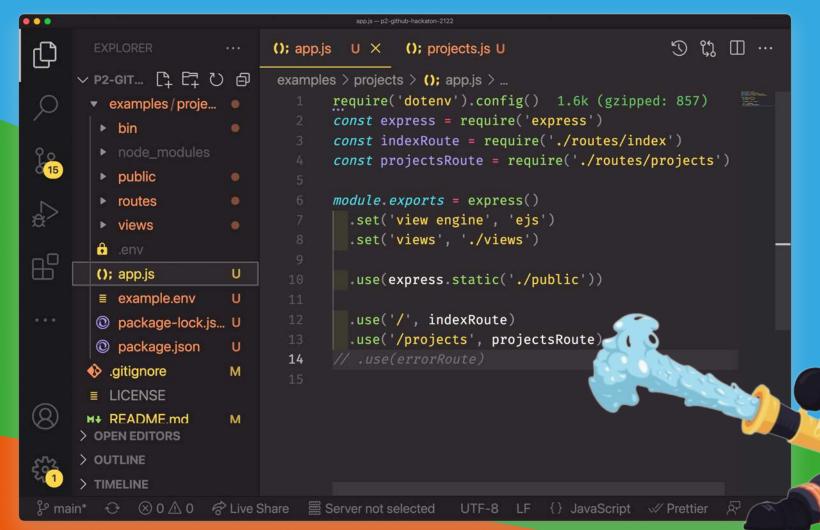
click me

Firestarters •

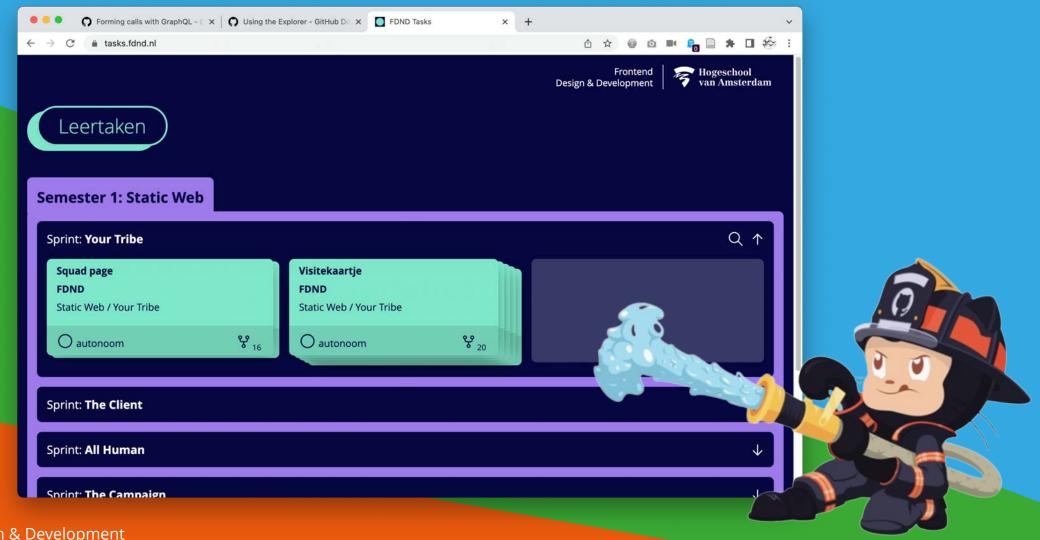
Here are some examples to get you fired up



Starter Script



tasks.fdnd.nl



Other ideas?

- Een automagisch gegenereerde portfoliopagina gebaseerd op jouw GitHub repo's, met gegevens uit de Readme als introductietekst en afbeelding.
- Een overzicht van alle deelnemers aan de minor, met een overzicht (en links) naar al hun repositories.
- Een datavisualisatie van de dagelijks geproduceerde gegevens van alle deelnemers aan de minor, met onderscheid in talen, type bestanden etc.
- Een live-feed van alle commit messages in de minor waarbij automatisch beoordeeld wordt op taalgebruik en kwaliteit van de berichten, met een leaderboard voor de studenten met de beste messages.
- Een discord bot die berichten stuurt als iemand een commit doet.
- Een discord bot waaraan je kunt vragen welke taken er (voor jou) in het project open staan.
- ... iets anders? Pols je idee bij een docent op haalbaarheid.

Team up and let's go!

Team up with two to five minor members

Discuss personal capabilities and (learning)goals

Decide what awesome stuff you'll create (20s pitch in 30m)

