



Ruby on Rails

and modern JavaScript

Who are we?





KISKO

Matias Korhonen

- Developer
 - Mostly backend work
- About 8 years at Kisko
- @matiaskorhonen on Twitter





KISKO

Joonas Kykkänen

- Developer (frontend + backend)
- 6 months at Kisko, 4 years coding Ruby
- @jonassskay on Twitter



Kisko Labs

- Founded in **2007**
- 17 people (10 developers, 5 designers and 2 people in support/marketing roles)
- We've done the most Ruby on Rails projects in Finland
- From software development to service design and creation
- Always looking for new people to join: kiskolabs.com/careers

Our work





Domo

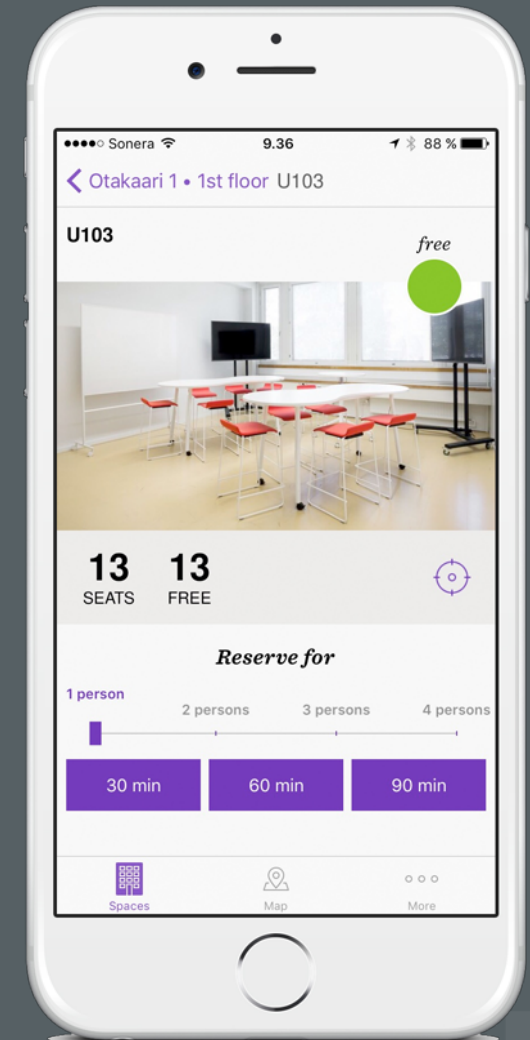
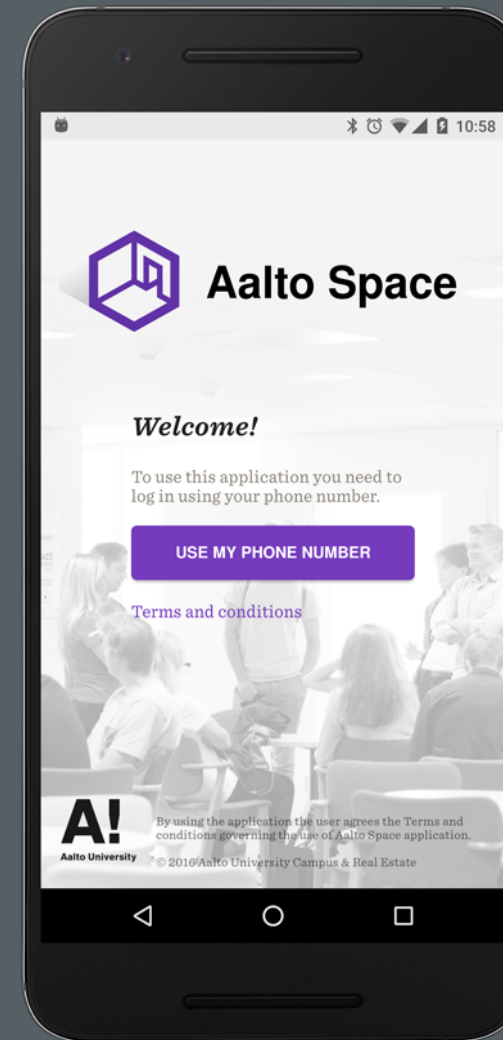
domo.ayy.fi

The screenshot shows a web browser window with the URL <https://domo.ayy.fi/applications/new#/applications/new>. The page has a green header with the 'domo' logo, navigation links for 'Etusivu' and 'Uusi hakemus', and language options for 'Suomi', 'English', and 'Svenska'. There are buttons for 'Luo Domo-tili' and 'Kirjaudu sisään'. Below the header is a search bar with the text 'Selaa ja hae asuntoa'. A progress bar shows four steps: 'Hakemuksen tyyppi' (highlighted in green), 'Asunnot', 'Hakijatiedot', and 'Lisätiedot'. The main content area is titled 'Hakemustyyppi' and contains two numbered sections. Section 1 has three options: 'Haen yksin' (radio button), 'Haen kaverin kanssa' (radio button), and 'Haen perheasuntoa' (radio button, selected). Section 2 has two options: 'Lapsia' (radio button, selected) and 'Ei lapsia' (radio button). Below these options, it says 'Hakemustyyppillä valittavissa 1523 asuntoa'. On the right side, there is a 'Hakemustyyppi' section with instructions: 'Valitse oletko hakemassa asuntoa yksin, perheenä vai kaverin kanssa. Kerro lisäksi jos sinulla on lapsia, jotka muuttavat kanssasi asuntoon.' and 'Jos mukanas asuntoon on muuttamassa aikuisia tai lapsia, syötät heidän tietonsa kohdassa Hakijatiedot'. Below that, it says 'Valinnat vaikuttavat siihen, mihin asuntoihin voit hakea.' At the bottom, there is a 'Hakuehdot' section with the text 'Voit rajata hakemiasi asuntoja asunnon...'. The browser's address bar shows the user's name 'Antti'.



Aalto Space

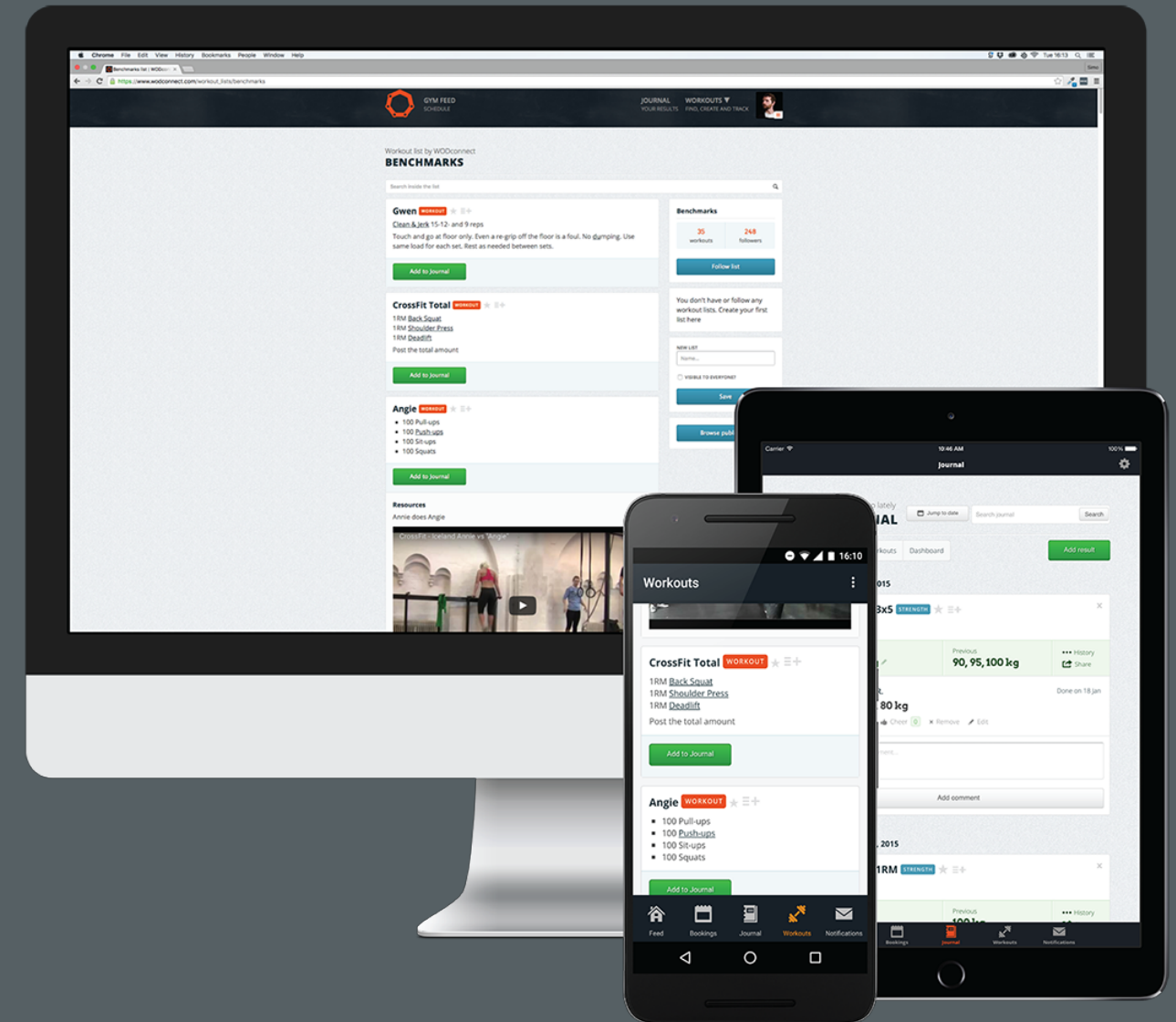
aaltocre.fi/aaltospace





WODconnect

wodconnect.com





Ruby on Rails



Ruby on Rails

Ruby on Rails, or simply Rails, is an open source web application framework written in Ruby.

It's a model–view–controller (MVC) framework, providing default structures for a database, a web service, and web pages.



Why Ruby on Rails?



Get more done, faster



Awesome ecosystem



Main reason: Developer happiness

Optimizing for happiness is perhaps the most formative key to Ruby on Rails. It shall remain such going forward.

– rubyonrails.org/doctrine

Who is using Rails?

- Basecamp
- GitHub
- Shopify
- Airbnb
- Twitch
- SoundCloud
- Square
- and more...

The screenshot shows a Basecamp workspace for 'The Distance Podcast'. At the top, there's a navigation bar with 'Latest activity', 'Basecamps', 'Pings', 'Hey!', 'Campfires', 'Reports', and a search bar. A yellow banner at the top center says '↓ ↓ This is a sample Basecamp. Play and explore below! ↓ ↓' with buttons for 'See another sample...' and 'Make your own Basecamp'. The main title is 'The Distance Podcast' with the subtitle 'Telling the stories of businesses that have endured for at least 25 years!'. Below the title is a row of profile icons. The workspace is divided into several sections: 'Campfire' with a message from Annie B. and replies; 'Message Board' with a list of messages; 'To-dos' with a progress indicator '12/20' and a checklist for 'Newsletter updates'; 'Schedule' with a calendar view showing 'Interview with Dan' on Apr 21 and 'Feature Artwork due to iTunes' on Apr 20; 'Automatic Check-ins' with a poll 'Do you have any ideas for a future show?'; and 'Docs & Files' with a Google Drive icon and a file 'cover3.jpg'. At the bottom, there's a green mountain logo, a welcome message 'Welcome to the Basecamp for The Distance Podcast!' by Simo Virtanen, and a description of Basecamp as a shared workspace.



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Learning Rails



Learning Rails

- Ruby in Twenty Minutes
 - ruby-lang.org/en/documentation/quickstart
- Ruby on Rails Tutorial: railstutorial.org
- Go Rails screencasts: gorails.com
- Books and tutorials for learning and mastering Ruby language
 - medium.com/@Iren.Korkishko/33cde7a61f02

Ruby on Rails in Finland





Who's using it?

- Us, of course!



Who's using it?

- Others
 - OP
 - Smartly
 - Kaiku Health
 - Digital Goodie (foodie.fi)
 - Eficode
 - Futurice
 - Reaktor



Who's using it?

- And a bunch of startups



Helsinki Ruby Brigade

- Founded in 2007
- Meetings ~~every month~~ sometimes
- Almost every company there is hiring every time
- meetup.com/rubybrigade
- rubybrigade.fi



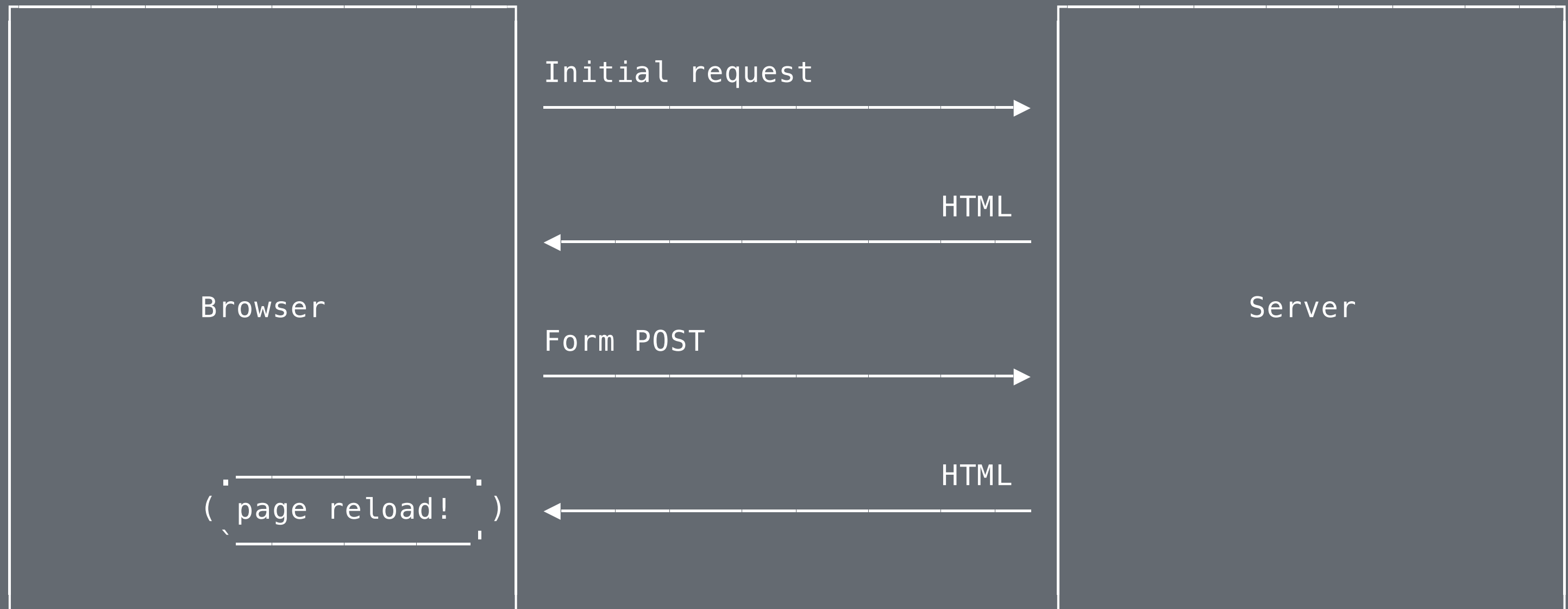
Rails Girls

- Teach women with no programming background to program
- One to two days
- Everyone creates their own application
- railsgirls.com

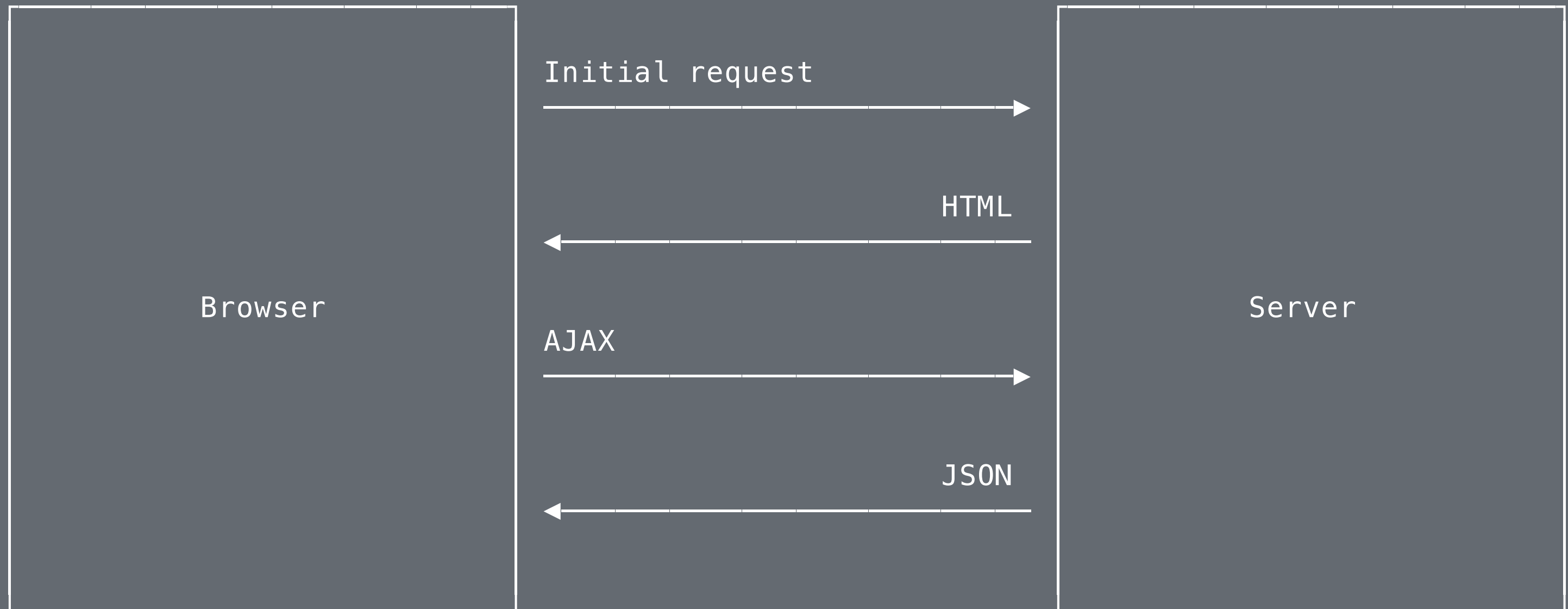
SPA vs “traditional” web application



“Traditional” web applications



Single page applications



Single page applications

- Pros:
 - Can feel “snappier”
 - Easier to implement richer experiences
 - The same backend could be used for a mobile application
- Cons:
 - More work
 - More choices need to be made

Rails and modern JS





HTML, CSS, JavaScript

Modern JS

- Asynchronous JavaScript and XML (AJAX)
- Frameworks: React, Angular, Vue

JavaScript is eating the world

- Build content and manage CSS with JS
- Run server-side code with JS
- Build mobile apps with JS

Rails is going with the JS herd

- Rails 5.1:
 - Start a new project with Webpack
- Rails 6:
 - Webpack is the default JS compiler

Degrees of JS and Rails

1. Smoothen out UI with JS
2. Build widgets with JS
3. Build your front-end with JS



Chat app



github.com/jonaskay/tuas-chat



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Questions?