

DEBUGGING JS

A dark, moody photograph of a turbulent sea under a heavy, cloudy sky. The water is dark and filled with white-capped waves, suggesting a stormy or choppy environment. The horizon is visible in the distance, where the dark sea meets a sky filled with various shades of gray and black clouds.

ROADMAP FOR TODAY

- » Debugging JS
- » Firebase Database
- » MMP Setup

CONSOLE.LOG DEBUGGING

- » Add console.log statements
- » Click through the app
- » See the log statements in chrome dev tools
 - » easy to get started
 - » some problems might be tough to track down



USING BREAKPOINTS

- » Chrome/Firefox devtools allow breakpoints
- » Breakpoints are a way to pause a program
- » variables can be inspected
- » custom code can be executed

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HOW TO ADD BREAKPOINTS

- » Via EventListeners
 - » DevTools > Sources > EventListener Breakpoints
- » Via DOM events
 - » eg. element is removed/added to dom
- » In DevTools
 - » Sources > find line of code > click on line number
- » Via Code -> add debugger statement

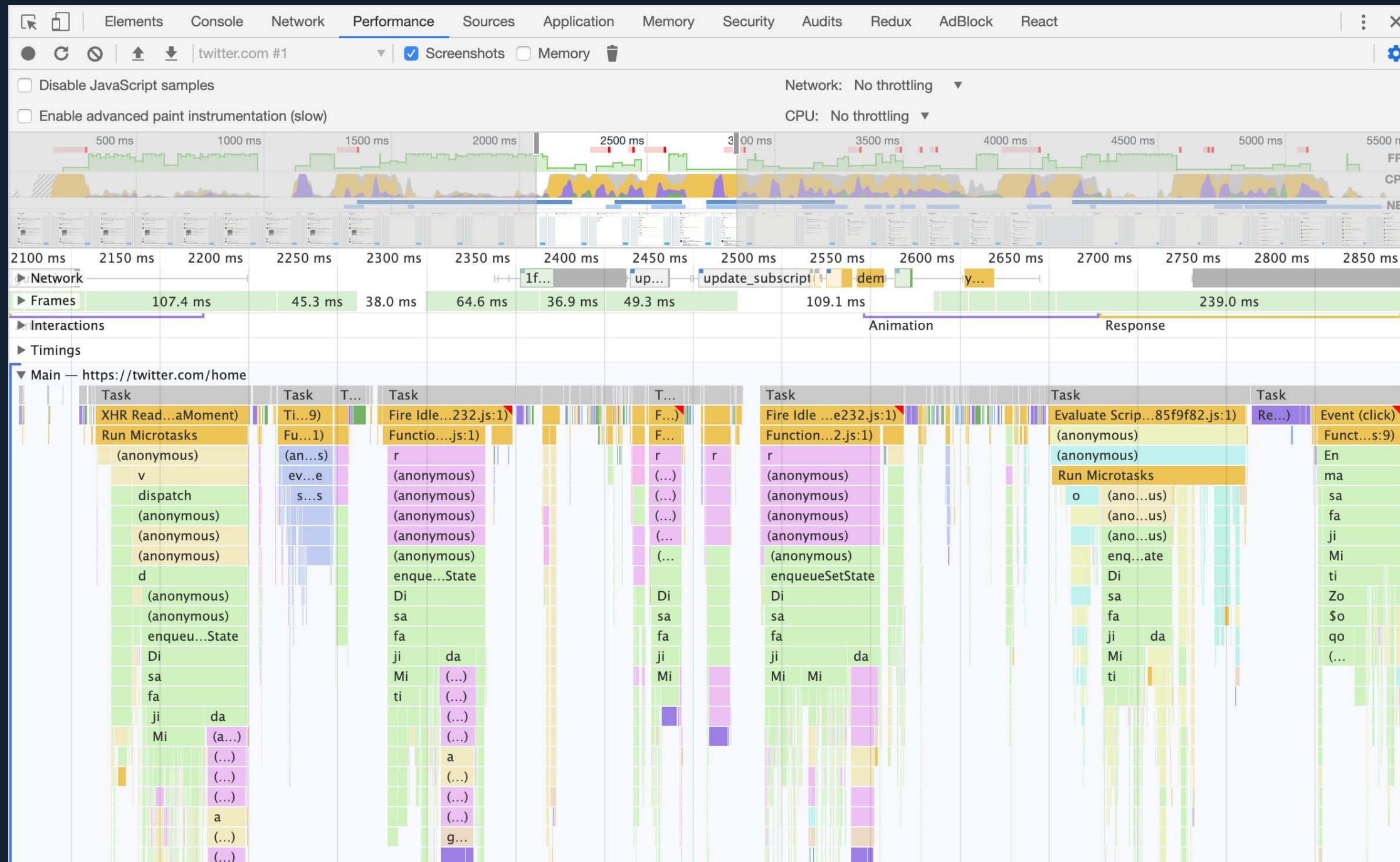
DEBUGGING NODEJS

» https://dev.to/john_papa/debug-your-nodejs-app-in-60-seconds-5cni

DEBUGGING PERFORMANCE ISSUES



CHROME PERFORMANCE TAB

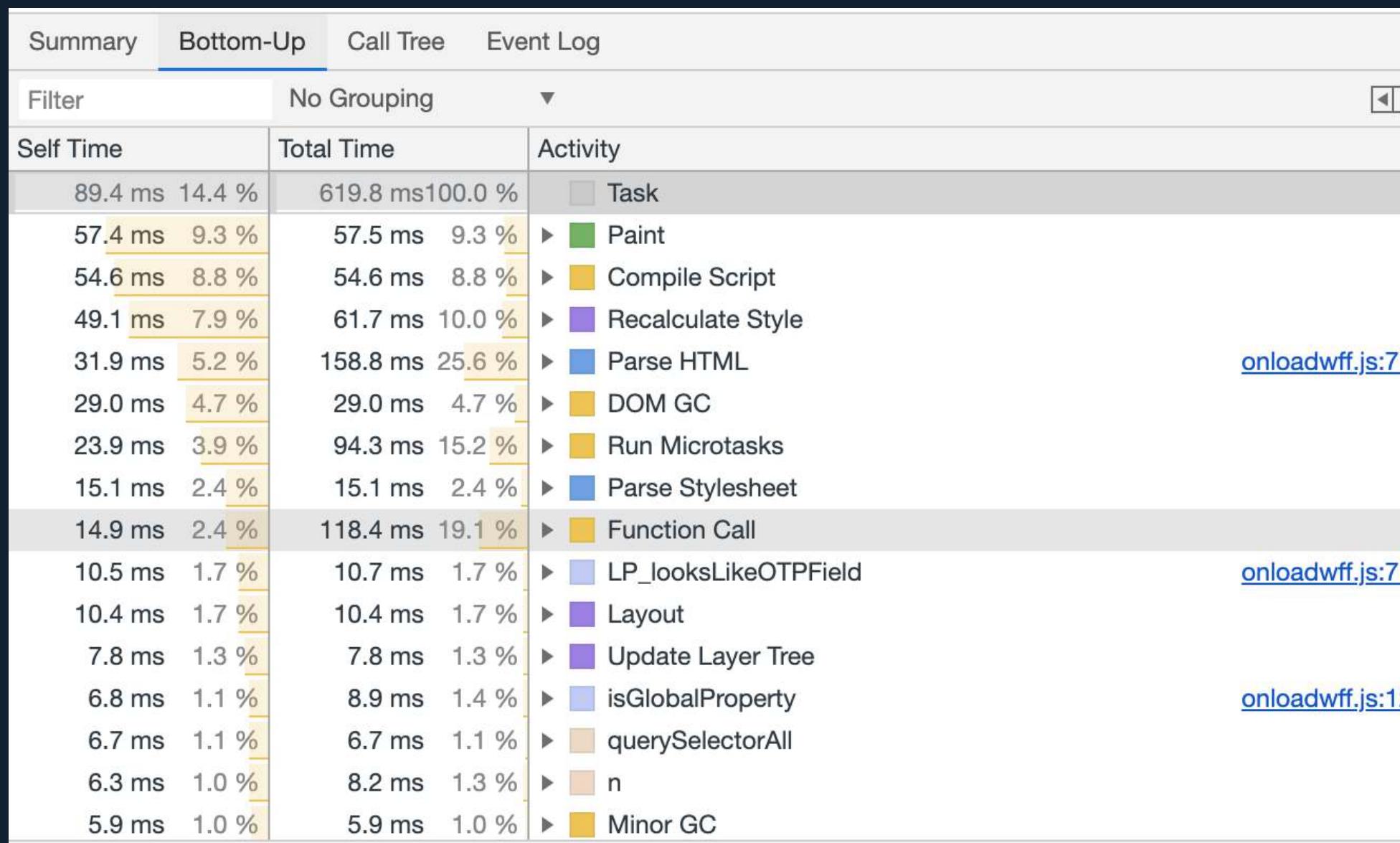


CHROME PERFORMANCE TAB

- » Determine why CPU is busy
- » Flame graph Visualisation of
 - » call stack
 - » duration of fn call

BOTTOM UP

» Which functions had took the longest to run



CPU PERFORMANCE

- » Open dev tools
- » Go to Performance > Record
- » Click stop

TASK 1

- » clone: <https://github.com/webpapaya/compup>
- » npm i && npm run start:development
- » Users complain that some button clicks take very long
- » Don't look on commit history =)

FEEDBACK

- » Questions: `tmayrhofer.lba@fh-salzburg.ac.at`
- » <https://de.surveymonkey.com/r/8TW92LL>