# DEBUGGING NODE.JS

*Ash Belmokadem*

# WHO AM I?

- ➤ Ash Belmokadem

- ➤ Freelance programmer (Node.js)

- ➤ Writing Node.js libraries at Aegon

- ➤ Computer Science background

- ➤ ~ 4 years of frontend development

- ➤ ~ 1 year of Node.js development

# BEFORE WE START

➤ Sadly, I do not build Node.js applications

➤ Attending a presentation is fun

➤ Preparing a presentation … takes time

➤ Also I am not the most structured person

➤ So bare with me

node --inspect server.js

node --inspect-brk server.js

# OUT OF THE BOX

➤ Complete breakpoint debugging

➤ Source maps for transpiled code

➤ JavaScript hot-swap evaluation with V8

➤ Console evaluation with ES6 feature

➤ Sampling JavaScript profiler with flamechart

➤ Heap snapshot inspection, heap allocation timeline, allocation profiling

➤ Asynchronous stacks for native promises

# READABLE STACK TRACES

npm install --save stickup

node -r stackup program.js

# TRACING APPS IN PRODUCTION

https://github.com/jstrace/jstrace

# NODE_DEBUG & DEBUG

https://www.npmjs.com/package/debug

# PERFORMANCE

0x -P 'autocannon localhost:$PORT' server.js

# CORE DUMP

node --abort-on-uncaught-exception core-dump-example.js