### DEBUGGER!

#### WHAT IS IT GOOD FOR?

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#### **DEBUGGER**

- inpect code execution
- show call stack
- read variables
- REPL

#### **POLL: HOW DO YOU DEBUG?**

- 1. temporary console.log()
- 2. write more tests
- 3. staring at code and thinking really hard
- 4. use debugger

#### 1. TEMPORARY console.log

```
169
                                                                                     console.log({ aLen: aLines.length, bLen: bLines.length });
                                                                          → 170+
const diffResult = diff(aLines, bLines);
                                                                                     const diffResult = diff(aLines, bLines);
                                                                          \rightarrow 173+
                                                                                     console.log({ diffResult: diffResult.length });
                                                                                     const chunks = diffToChunks(diffResult);
const chunks = diffToChunks(diffResult);
                                                                                     console.log({ chunks: chunks.length });
                                                                          \rightarrow 176+
const chunksWithMods = mergeModifications(chunks);
                                                                                     const chunksWithMods = mergeModifications(chunks);
                                                                                     console.log('mergeModifications');
                                                                          \rightarrow 179+
                                                                                     const chunksWithWeights = mergeAndAddWeights(chunksWithMods);
const chunksWithWeights = mergeAndAddWeights(chunksWithMods);
                                                                         \rightarrow 182+
                                                                                     console.log('chunksWithWeights');
const chunksWithEffort = addEffort(chunksWithWeights);
                                                                                     const chunksWithEffort = addEffort(chunksWithWeights);
                                                                                     console.log('chunksWithEffort');
                                                                          \rightarrow 185+
```

I will just add few console.logs...

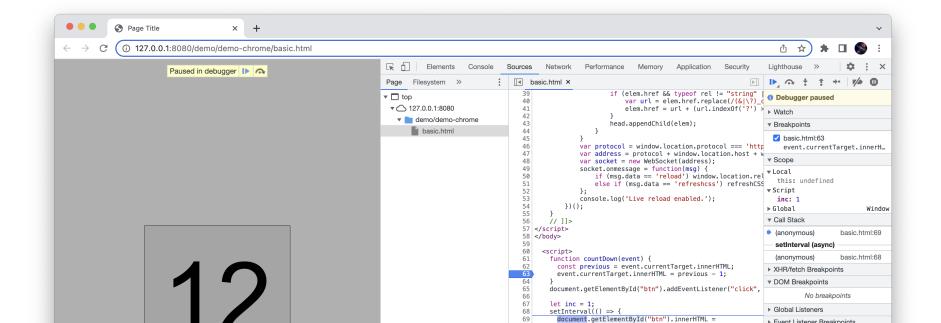
#### **LOGPOINTS**

```
const diffResult = diff(aLines, bLines);
170
171
            const chunks = diffToChunks(diffResult);
 172
173
            const chunksWithMods = mergeModifications(chunks);
 174
175
 176
            const chunksWithWeights = mergeAndAddWeights(chunksWithMods);
177
 178
            const chunksWithEffort = addEffort(chunksWithWeights);
 179
 Log Message ∨
                 chunksWithEffort
```

## SO HOW DO I USE THIS DEBUGGER THING?

- 1. Open DevTools Sources tab
- 2. ???
- 3. Profit!!!

Demo in browser



#### 2. WRITE MORE TESTS

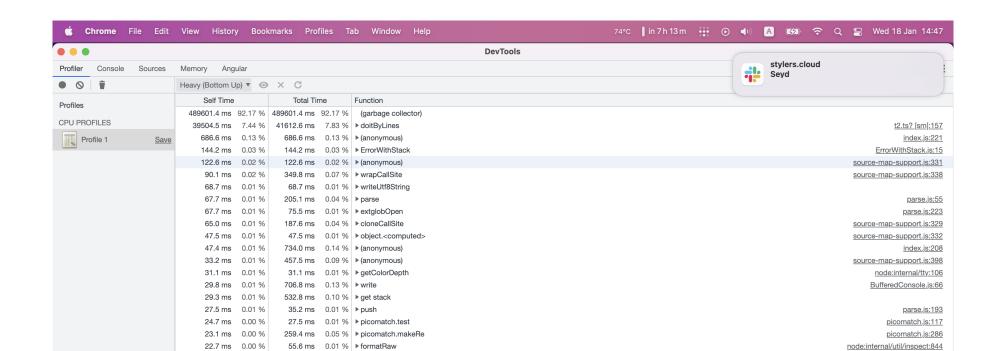
#### **VSCODE DEBUG**

demo-jest

- config launch.json
- run debug

# 3. STARING AT CODE AND THINKING REALLY HARD

#### **PROFILER**



#### **HOW IT WORKS?**

- runtime
- debugger "server"
- debugger "client"

#### **DEBUGGING MOBILE**

- on mobile
  - allow USB debugging
  - open chrome
- on computer
  - chrome://inspect

#### **KEY POINTS**

- Debuggers are easy to set up
- Logpoints are temporary console.logs
- Breakpoints help you poke around running app
- debugger; works when sourcemaps fail
- Debugger has REPL
- Profilers exist

#### **END**

