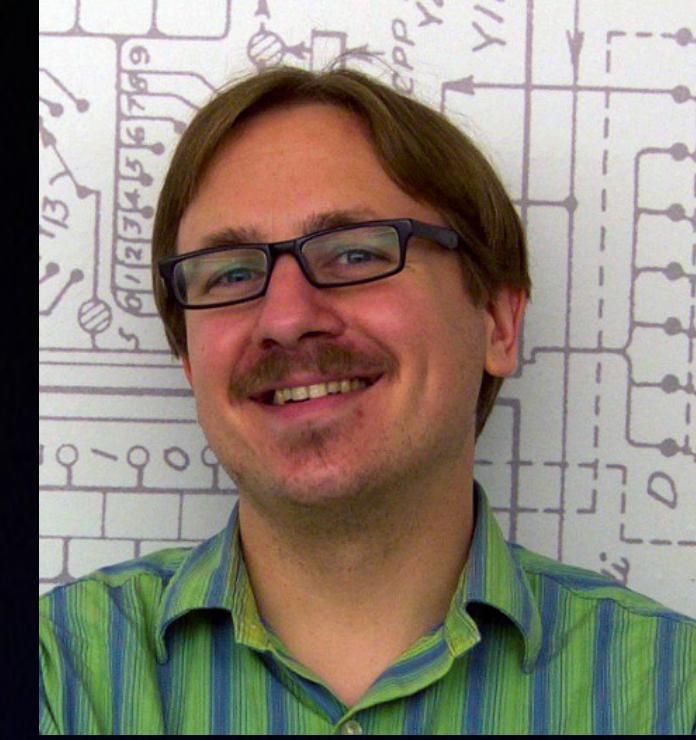
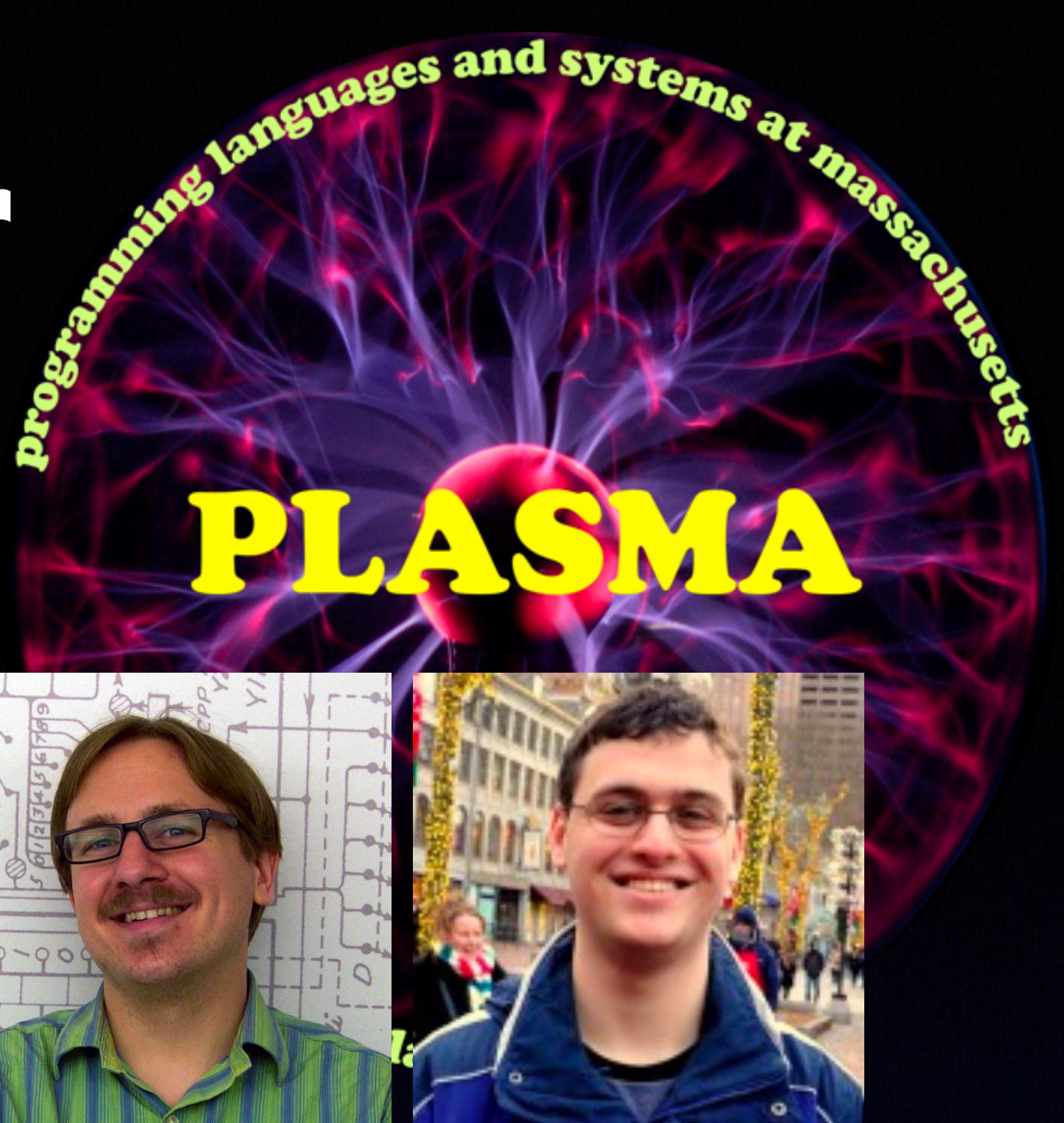




# emery berger

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Breanna

Bobby

Jared

John

Sam

## BROWSIX

### UNIX IN YOUR BROWSER TAB

making the web sane  
for ordinary programmers! [PLDI, ASPLOS]

This split-panel editor uses Browsix to run programs from the TeX Live suite in the browser. When you hit the "Build PDF" button in the upper right, Browsix runs `latex main.tex; bibtex main.aux; latex main.tex; latex main.tex` in sequence, with each command executed as a process in its own Web Worker, to generate (or regenerate) the PDF shown below on the right. The first run takes between 15 and 30 seconds, as every class file and font needs to be downloaded (hundreds of individual files). After the files have been cached, subsequent runs complete in 6 - 15 seconds.

`\documentclass[11pt]{article}`  
`\usepackage[T1]{fontenc}`  
`\usepackage{Browsix}`  
`\begin{document}`  
`title{Browsix: Bringing Unix to the Browser}`  
`author{Bobby Powers and John Vilik and Emery Berger}`  
`date{\today}`  
`\begin{abstract}`  
`Brings the standard operating system like unix.mak to the browser.`  
`It makes it relatively simple to build complex applications, web browsers lack the features that make this possible. In this paper, we present Browsix, a Javascript-only framework that brings the essence of unix to the`

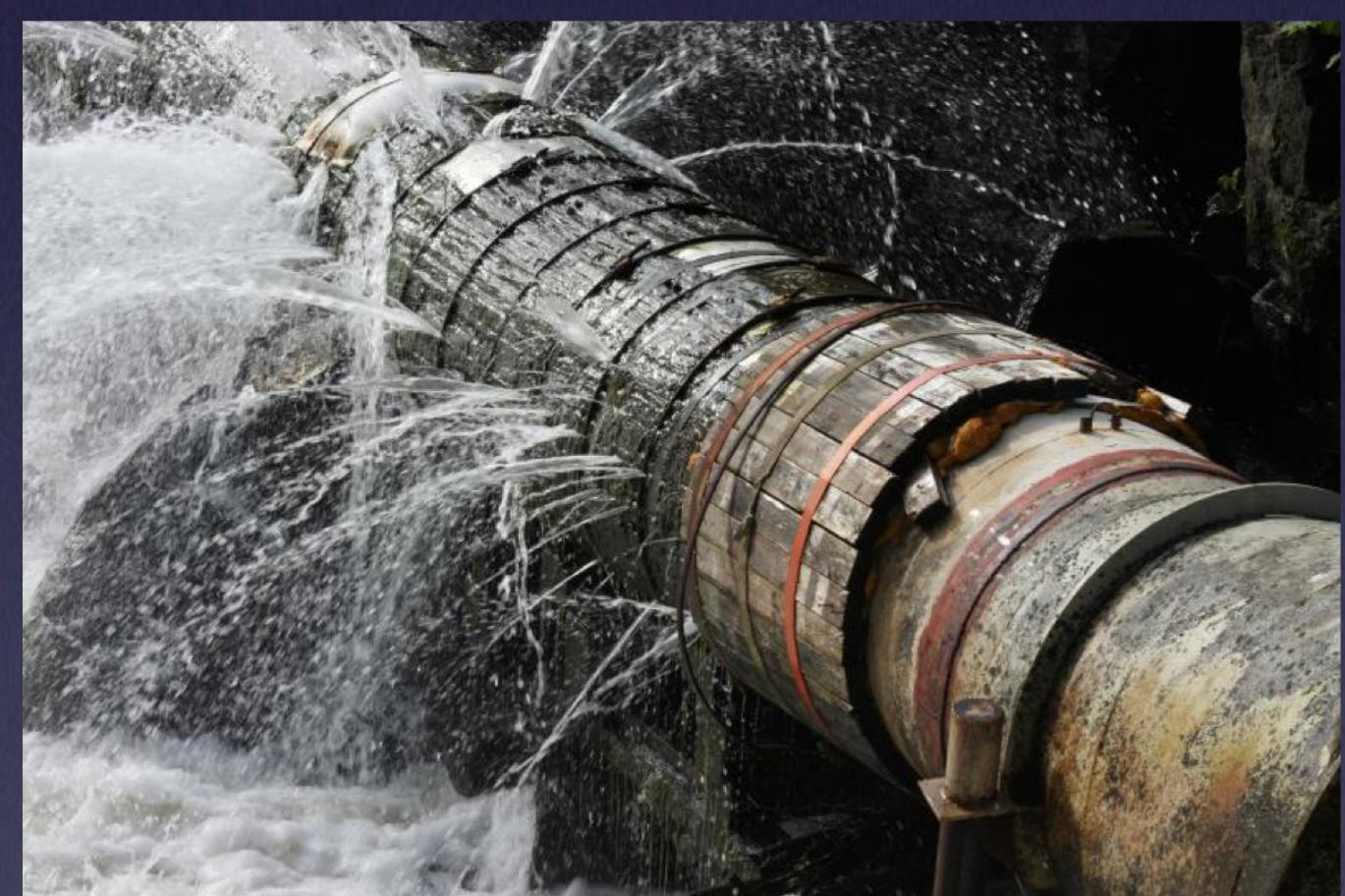
**Browsix: Bringing Unix to the Browser**  
Bobby Powers John Vilik Emery Berger  
February 28, 2018

**Abstract**  
While modern personal computers have made it relatively simple to build complex applications, web browsers lack the features that

## BLEAK

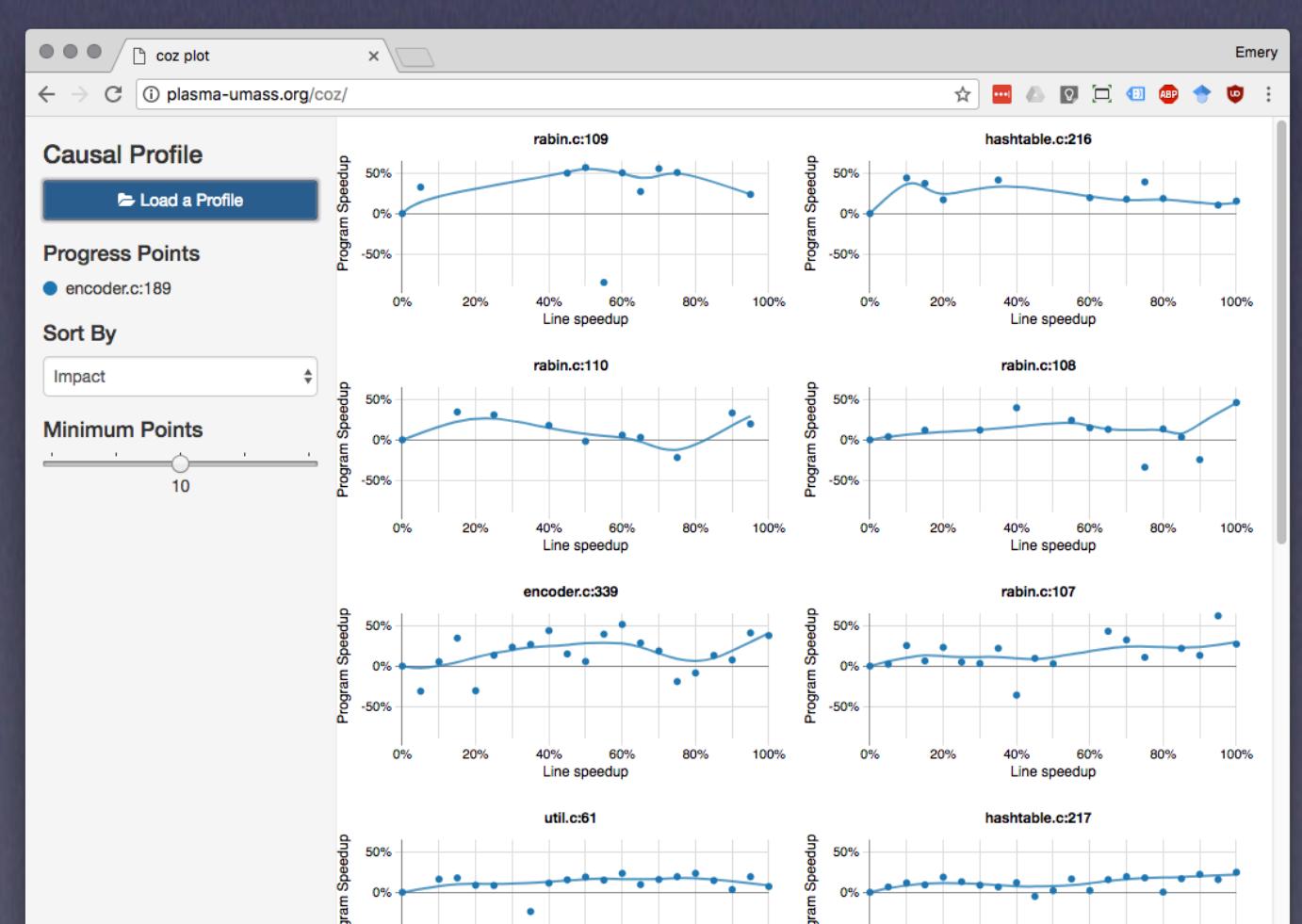
automatically find & fix  
leaks in web apps! [PLDI]

The screenshot shows the BLEAK Results Viewer interface. It includes a chart titled "Live Heap Size" showing a linear increase over time, and a table titled "Leak Roots and Stack Traces" listing various stack traces with their scores and vendor information.



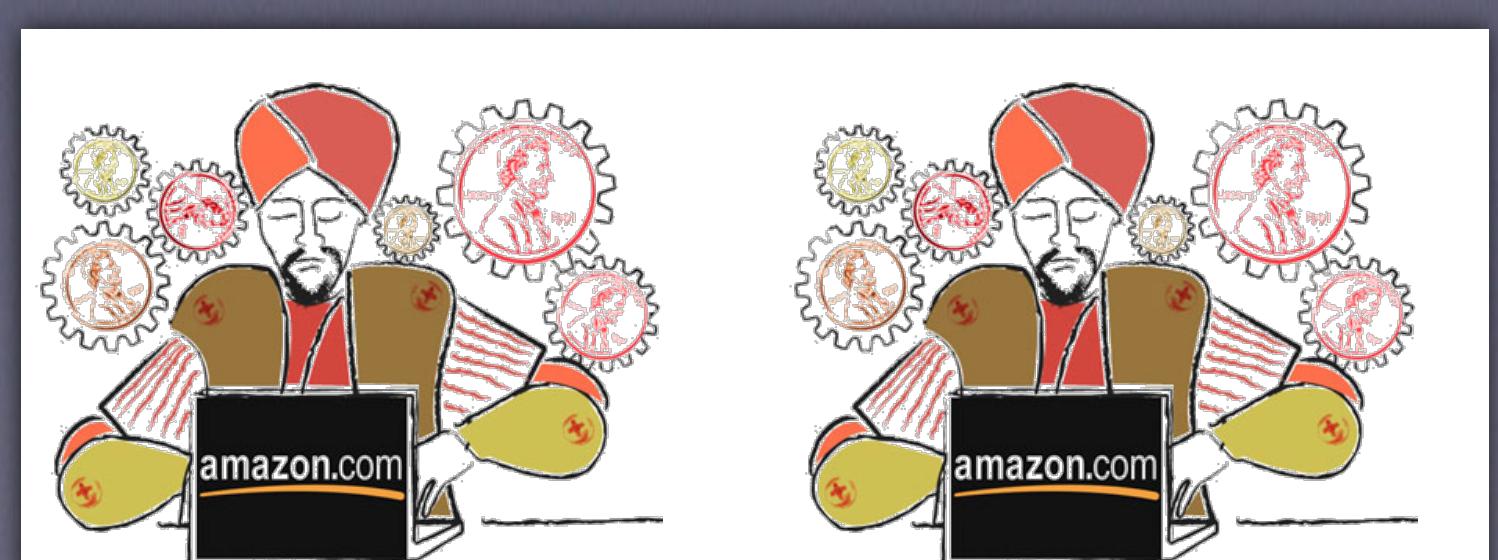
## COZ: Causal Profiling

find code that counts!  
[SOSP Best Paper, CACM Research Highlight]



## VoxPL

programming with people! [OOPSLA, CACM Research Highlight, CHI]



and more! ask about CloudFusion, ExceLint, Mesh, Frost...