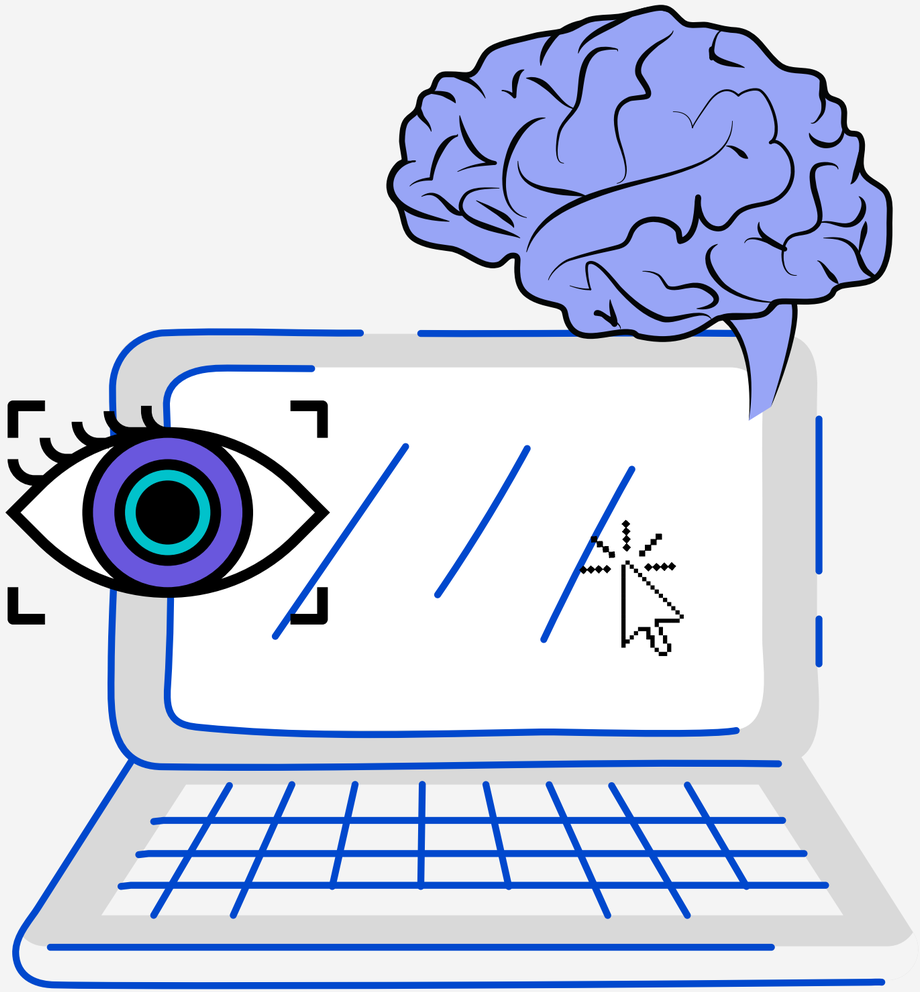
The 42nd International Conference on Software Engineering

ICSE 2020

Demonstrations Track

VITALSE

A Visualization Tool for Biometric Data in Software Engineering



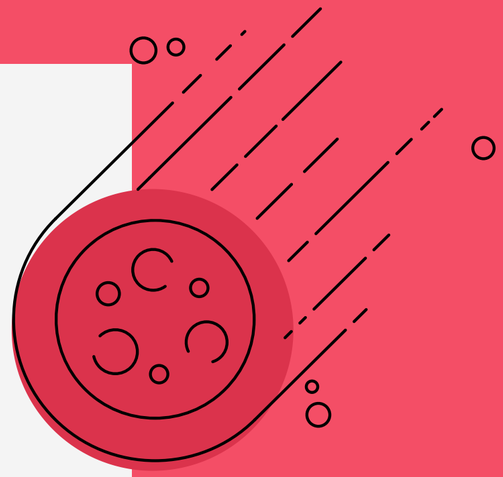
Devjeet Roy + Sarah Fakhoury + Venera Arnaoudova @ Washington State University

VITALSE ICSE '20 DEMONSTRATIONS

1 Research at the **intersection** of **neurocognitve** science and software engineering is new and growing quickly.

2 Researchers are using **medical imaging technology** to model the cognitive process of developers as they interact with software artifacts.

3 <u>No tool support exists</u> to help researchers analyze and visualize multimodal biometric data over source code elements

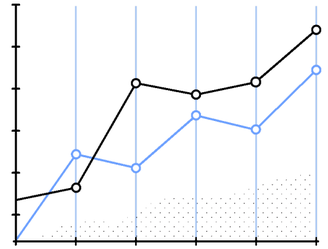


Software Engineering Enters the NEUROAGE

VITALSE

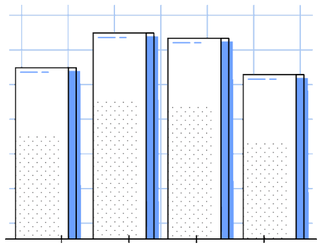
- Interactive and customizable heatmaps
- Temporal brushing support, for time specific analysis
- Custom metric visualization
- Annotate points of interest in your experiment data over software artifacts
- Fully customizable for research needs

Synchronized biometric data



Annotations & Metrics

Interactive Visualization



vitalse.app