Do users resolve type errors faster with ChameleonIDE than with GHC?

How do users use the interactive features of ChameleonIDE to fix type errors?

ChameleonIDE 1

ChameleonIDE 2 Basic Mode

ChameleonIDE 2 Balanced Mode

ChameleonIDE 2 Advanced Mode

Research Questions

Research Findings

Under 1 year

1 - 2 years

3 - 4 years

Over 5 years

USER STUDY 1A

USER STUDY 1B

USER STUDY 2

Number of Participants

22

12

32

Settings

ChameleonIDE 1   GHC

ChameleonIDE 1   GHC

Basic   Balanced   Advanced

Haskell Experience

Programmers using ChameleonIDE solve type errors faster than GHC.
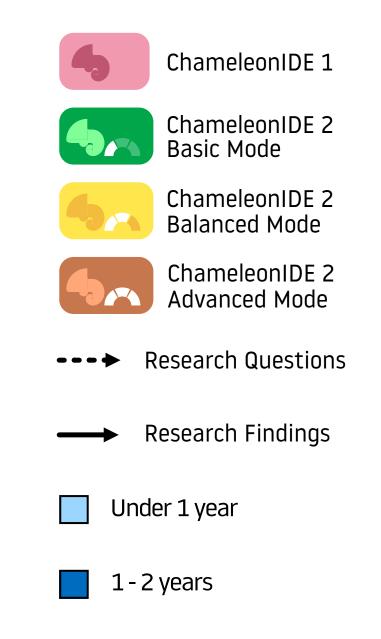
Programmers who actively use interactive features performed better overall.