## Implementing the Solo Calculus

A REPL environment for evaluation of Solo Calculus expressions

Lassiter, Adam T.

Department of Computer Science University of Bath

February 13, 2018

#### Rationale

- Parallelism in the modern world
- Exhibiting useful properties for multiple processes, such as equality

### State of the Art

Solo Calculus

- ightharpoonup Based on Fusion Calculus, based on  $\pi$ -calculus, inspired by  $\lambda$ -calculus
- Calculus of communicating mobile processes

# State of the Art Solo Diagrams

- Canonical representation of calculus expressions
- ► There exists an obvious analog to visualisations
- ▶ Research led to easier calculation of replicated terms

### Methods and Results

- ► Implementation problems
- Demonstration

## Plans Moving Forward

- Diagrams
- Visualisation

## Questions?