Typed Racket:
Types for Untyped Languages
Gradual Typing

Allowing static and dynamic types to work together!

Widely adopted in industry

TypeScript (Microsoft)
Flow (Facebook)
Dart (Google)
Racket

A programmable programming language

For building big and little languages

Testbed for programming language research
Racket

*A programmable programming language*

For building big and little languages

Testbed for programming language research

Shipping code!
Typed Racket
A gradually-typed dialect of Racket

Accomodates existing Racket programs
[ICFP 2010, OOPSLA 2012, ESOP 2013, ECOOP 2015]

Can use existing Racket libraries

Uses types to optimize your program
Pycket

Do JIT compilers speed up gradual typing?

Using RPython to find out

With Jeremy Siek and students
Joint with Kings College and HPI Potsdam
Do JIT compilers speed up gradual typing?