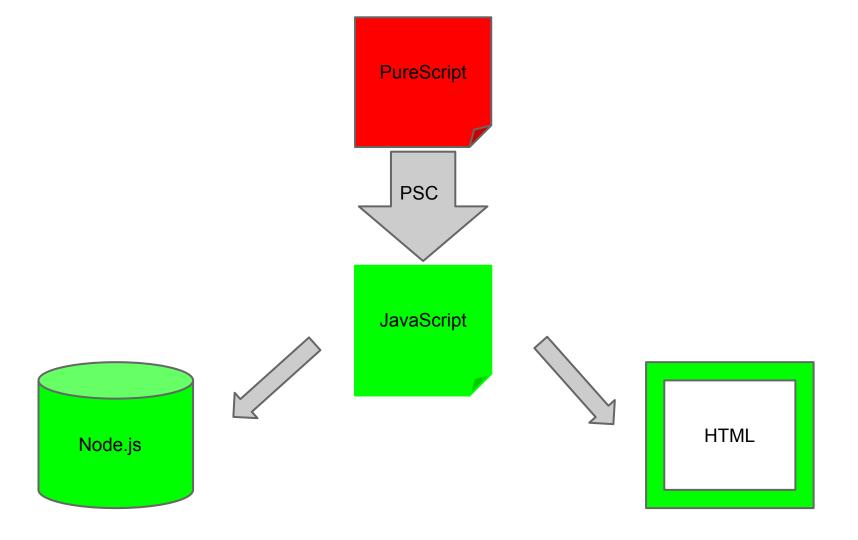


PureScript (2013?)

PureScript is a small strongly typed programming language that compiles to JavaScript.







Features

- Algebraic data types
- Pattern matching
- Type inference
- Type classes
- Higher kinded types
- Rank-N types

- Extensible records
- Extensible effects
- Modules
- Simple FFI
- No runtime system
- Human-readable output

PureScript vs. Haskell (I)

- npm/bower/pulp instead of cabal
- strict evaluation
- explicit forall
- Numbers, Boolean, (extensible) Records
- Unit, not ()
- no special support for lists or tuples
- Eff (...) instead of IO

PureScript vs. Haskell (II)

- type classes
 - o arrow direction,
 - named instances
 - no default members
- no array comprehensions
- no extensions
- export lists, operator definitions, (\$),...

Some Interesting Packages

slamdata's <u>purescript-halogen</u>

a declarative, type-safe UI library for PureScript

bodil's <u>purescript-signal</u>

a lightweight library heavily inspired by the Elm Signal implementation

mpietrzak's <u>yesod-purescript</u>

integration of PureScript into Yesod