BRYN MAWR
COLLEGE

A Dependent Haskell Triptych

Richard A. Eisenberg
Bryn Mawr College
rae@cs.brynmawr.edu

```
git clone --recursive
  git://github.com/goldfirere/triptych
```

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Haskell Implementors' Workshop
Nara, Japan

IT'S HERE
IT'S FINALLY HERE
memegenerator.net

NO
NOT REALLY
DIYLOL.COM

Conjecture:

If you can write it in

{Coq|Agda|Idris},

you can write it in

a bug-free GHC 8,

with singletons.

Today:

- Database access with an inferred schema
- Extensible datatype with a higher-rank kind
- Idris's algebraic effects library

Disclaimers:

- Lots of singletons behind the scenes
- One small bugfix over GHC 8.0.1 (#12442)

~~Vec :: Type → Nat → Type~~

Off to emacs!

Dependent Types Status

- Theory ✔

github.com/goldfirere/thesis

- Implementation

≥ 2 years

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