

Yesod

GNU Generation

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Yesod is a cool **type-safe**
functional monadic¹ **free-as-in-free-software** *upfront-debugging*
fast **applicative** DRY next-gen full of DSL EXPERIMENTAL
complete great strong-typed **Web framework**

¹ productive

Yesod is a Haskell web-framework with type-safety and productivity in mind

Why it's cool?

- Why a new framework? Great ideas, DRY
- Why Haskell? Type-safety and type inference
- Why type-safety?

Haskell

- Functional language
- Type system on steroids: Applicative, Functor, Monad
- Side effects are part of the type (Monad)
- Abstract polymorphic types (+extensions)
- Compiles down to ASM (self-contained)

Haskell is very hard at some times!

Yesod strong points:

- Type-safety
- Security
- RESTful
- fast (warp)
- TDD (not tested)

How?

- DSL: TH, Quasi Quoting (usable separately)
- DB: Persistent (usable separately)
- DRY: Handlers, Widgets, Forms, Subsite
- Included: Sessions, Auth, I18N
- Migration (database abstraction)

DSL

- Shakespeare
- Routes (TH)
- Model (TH)
- Esqueleto (EDSL)

Deployment

- Warp (standalone)
- FastCGI/SCGI (modular)
- CGI (old)
- Webkit (local)
- Dev server

Community

- on GitHub, reactive and open
- IRC #yesod, not that great
- IRC #haskell, great
- Book "Yesod book", great
- Moving, more ideas coming

Experimental

- AngularJS
- Typescript/Coffescript/Roy
- EventSource/Real time

What's next? Better Javascript integration

- Fay/Elm
- Still not perfect but usable in production

More

- [Yesod wikipedia](#)
- [Github: github.com/yesodweb](https://github.com/yesodweb)
- [Yesod book + blog: yesodweb.com](#)
- [scattered articles on the web](#)