WELCOME TO HASKELL

Presented at STL Polyglots

Useful Links

- Scotty Documentation

- Pandoc Documentation

- Github Repo

- Haskell Wiki

- Stack

Setup an Environment

https://github.com/rebeccaskinner/polyglots-haskell-workshop

VM

- Find a USB thumb drive and copy the VirtualBox image

- Start the VM

- Username: polyglot

- Password: polyglot

Stack (recommended)

- `curl -sSL` https://get.haskellstack.org/ `| sh`

Stack (homebrew)

- `brew install stack`

Build The App

- Compile the application with: **stack build**

- Run the application with: **stack exec example**

- Load the web interface by navigating to: http://localhost:8080/

Make the port configurable

■ We should be able to pass the port number in as a command line argument

■ Test this by running: **stack exec example -- <port number>**

■ Default to 8080 if you forget to pass in a port!

■ *Hint: Check app/Main.hs*

Add a Couple of Routes

- GET / should return the contents of *frontend/index.html*

- GET /**supportedformats** should return a list of the supported formats

- *Hint: check src/Viewer.hs*

Add LaTeX Support

- Update the application to support *?format=latex*

- *Hint: check app/Converter.hs*

- *Hint: Text.Pandoc.Readers.LaTeX*

Refactor Rendering Route

- Add a new route: */output-formats*
  - Return a content type of *application/json*
  - Return a list of supported output formats (HTML)
- Change */render* to be parameterized
  - *Hint: /:render*
  - *Hint: S.param "render"*
- Return an error if the render type is not supported

Add A New Rendering Engine

- Add support for a new output format

- See what happens if you convert Markdown to Markdown. Or HTML to HTML!

THANKS!