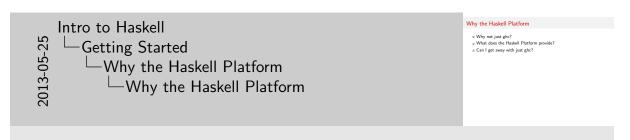
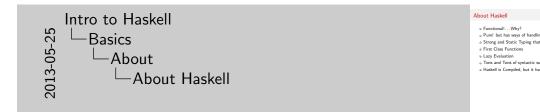


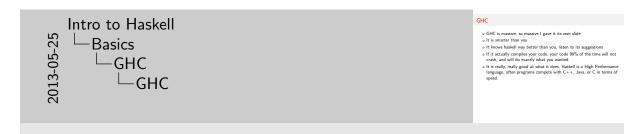
- 1. Arch users are entirely capable of breaking their system on their own, and should know how to use the AUR
- 2. People who know about macports and homebrew should be good enough to get this it working



- 1. The haskell platform provides a large set of libraries that work well together so you can get started quicker and easier. Think of it like Python's 'Batteries', but for haskell
- 2. Yes, but it will suck, just go to Alamode to find out how much it sucks to not have basic libraries



- 1. Its different, fun, and not always practical, but it can easily solve problems that imperative languages can't
- 2. No side-effects you don't have to worry about that Butterfly flipping a bit while you're here: reference: http://xkcd.com/378/
- 3. Purity also implies that everything will be immutable
- 4. Think C/C++ but without nice implicit type casting But you don't have to tell haskell you are using a String or Int or whatever if you don't want to, ghc will figure this out
- 5. A function is no different than a value, you are encouraged (and need) to make functions that take functions as parameters, and return functions themselves
- 6. You won't directly deal with this, but haskell doesn't actually compute anything until you ask for it.
- 7. Learn to love operators and symbols, you will use them a lot
- 8. GHCi is where everyone should start, learning haskell



- 1. Its like a 700MB executable
- 2. Don't argue with it, you will lose
- 3. It will actually give you suggestions on how to fix common problems or bad ideas
- 4. No Joke

```
Intro to Haskell

Coding Environment

Getting Started in GHCI

Run by typing glid in a terminal

Try some basic math

By default Probable is imported

O'l' can be used to reference the last returned value

Useful bullins

I (spal cannelling)

I (solid)

Getting Started in GHCI

Getting Started in GHCI

Figure (spanshing)

I (solid)

I (still)

I (sti
```

- 1. Prelude is the most basic default functions that you will probably want and need for any project, there are other Preludes also
- 2. Gives you the type definition of something
- 3. Loads a haskell file into ghci so you can run and test code
- 4. Reloads last loaded file
- 5. Opens the last loaded file in your editor
- 6. Sets you editor to be whatever you tell it
- 7. Sets your prompt, by law it should be a λ or some other haskell-ly thing
- 8. Runs the main function of the loaded file, with args, simulating running it from your shell like normal
- 9. Displays GHCi help, telling you all about these commands and more

- 1. Uppercase names are reserved for Type Constructors
- 2. Explain how the type signature works, we will get more into detail later



- 1. Explain how the type signature works, we will get more into detail later
- 2. Have them load their code into GHCi, and try out their functions

```
Intro to Haskell

The Basics

Control Structures

if then, dee

All if statements must have both a then clause AMD an else clause

The Control

Control

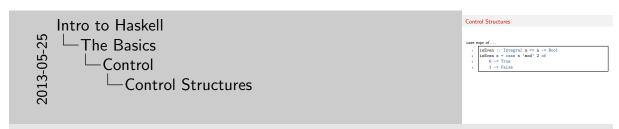
Control Structures

Control

Control Structures
```

Make sure they understand this is an expression not a statement

- 1. Welcome to Type Classes, broad overview here
- 2. Integral is a Type of Real and Enum, and contains Int and Integer
- 3. Relate if to the ternary operator



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- 1. Welcome to Type Classes, broad overview here
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- 3. Relate if to the ternary operator
- 4. In 2 frames I cover maps, folds, filters, and list comps
- 5. Next frame is lists

```
Intro to Haskell
Lists
Building
Ranges and Construction

Ranges are really just [Char]
```



well actually it is what is on the rightNow is a really good time to talk about lambda calculusLambda calculus' functions always take 1 value, but can return functionsMake them ask questions, make sure they understand

```
Intro to Haskell

The Type System

Type Signatures

Type Signatures
```

well actually it is what is on the rightNow is a really good time to talk about lambda calculusLambda calculus' functions always take 1 value, but can return functionsMake them ask questions, make sure they understand



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