

# **INTRODUCTIONS**

**(MEETING 0)**

**SAY HELLO.  
CHRIS**

# OVERVIEW

- > BRIEF HASKELL BACKGROUND
  - > **PLAN FOR THE MEETUP**
    - > **RESOURCES**

# HASKELL

- **A REFERENTIALLY-TRANSPARENT, NON-STRICT, STATICALLY TYPE-CHECKED LANGUAGE**
- **SOMETIMES DESCRIBED: 'A PURE, LAZY, & STRONGLY-TYPED LANGUAGE'**

# REFERENTIALLY-TRANSPARENT

THE '=' YOU LOVE FROM MATH WORKS!

let x = 5 ...

MEANS x IS IDENTICAL TO 5.

# NON-STRICT

IT'S OKAY TO DO THIS:

```
let numbers = [1..]  
take 5 numbers  
-- [1, 2, 3, 4, 5]
```

OR EVEN:

```
let explode = [1, error "ka-boom"]  
take 1 explode  
-- [1] (no exception is raised)
```

# STATICALLY TYPE-CHECKED

**EXPRESSIONS ARE CATEGORIZED BY THE SORTS OF VALUES THEY COMPUTE:**

```
if True
then 'x'
else "This is dead code"
-- Type error:
-- Char is not the same as a list of Char (a String)
-- ... even though it could never be executed
```

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**Haskell**  
Programming  
for First-Year Students  
Christopher Allen  
John Moronuki

**BOOK**

Pure functional programming

without fear or frustration

# THE PLAN

➤ **MEET EACH TUESDAY**

➤ **A 'FLIPPED' STUDY GROUP. PLEASE READ THE CHAPTER BEFORE THE MEETUP & AT LEAST START ON EXERCISES. WE'LL GO OVER THE CHAPTER & WORK ON EXERCISES AS A GROUP.**

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# RESOURCES

> THESE RESOURCES FROM THE GUIDE

> IRC: #HASKALLYWAGS ON FREENODE. WOULD PEOPLE PREFER SLACK?

> SLACK: #MADISON-HASKELL-STUDY ON FPCHAT. USE [HTTPS://FPCHAT-INVITE.HEROKUAPP.COM/](https://fpchat-invite.herokuapp.com/) IF YOU AREN'T A MEMBER ALREADY.