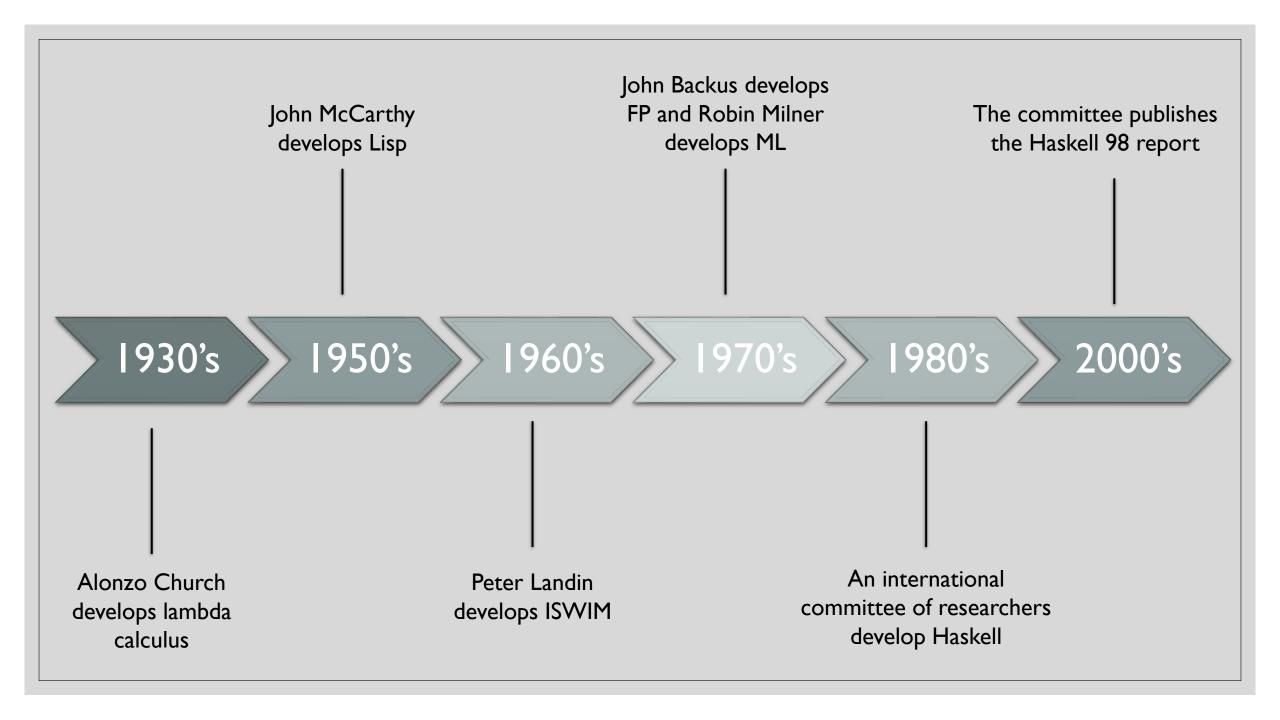


HISTORY



BACKGROUND & BASICS

Functional Programming

EXAMPLE:

JAVA

```
total = 0;

for (i = I; i ≤ I0; i++)

{

    total = total + i;

}
```

HASKELL

```
sum[1..10]
```

Laziness

EXAMPLE:

```
We have a list: xs = [1,2,3,4,5,6,7,8]
```

We have a function: doubleMe

We want : doubleMe(doubleMe(xs)))

Statically Typed

TYPE INFERENCE

EXAMPLE:



Haskell knows: a is a number

(you don't have to tell it)

Core Haskell

BASIC TYPES

Unit

Booleans

Integers

Strings

Reals

Tuples

Lists

Records

Patterns

Declarations

Functions

Polymorphism

Type declarations

Type Classes

Monads

Exceptions

WHY USE HASKELL?

Concise, high-level, High-Quality Libraries practical and fast An advanced system, which provides a lot of extra safety and flexibility. Strong, healthy and Good tooling and package supportive communities management

DEMO

