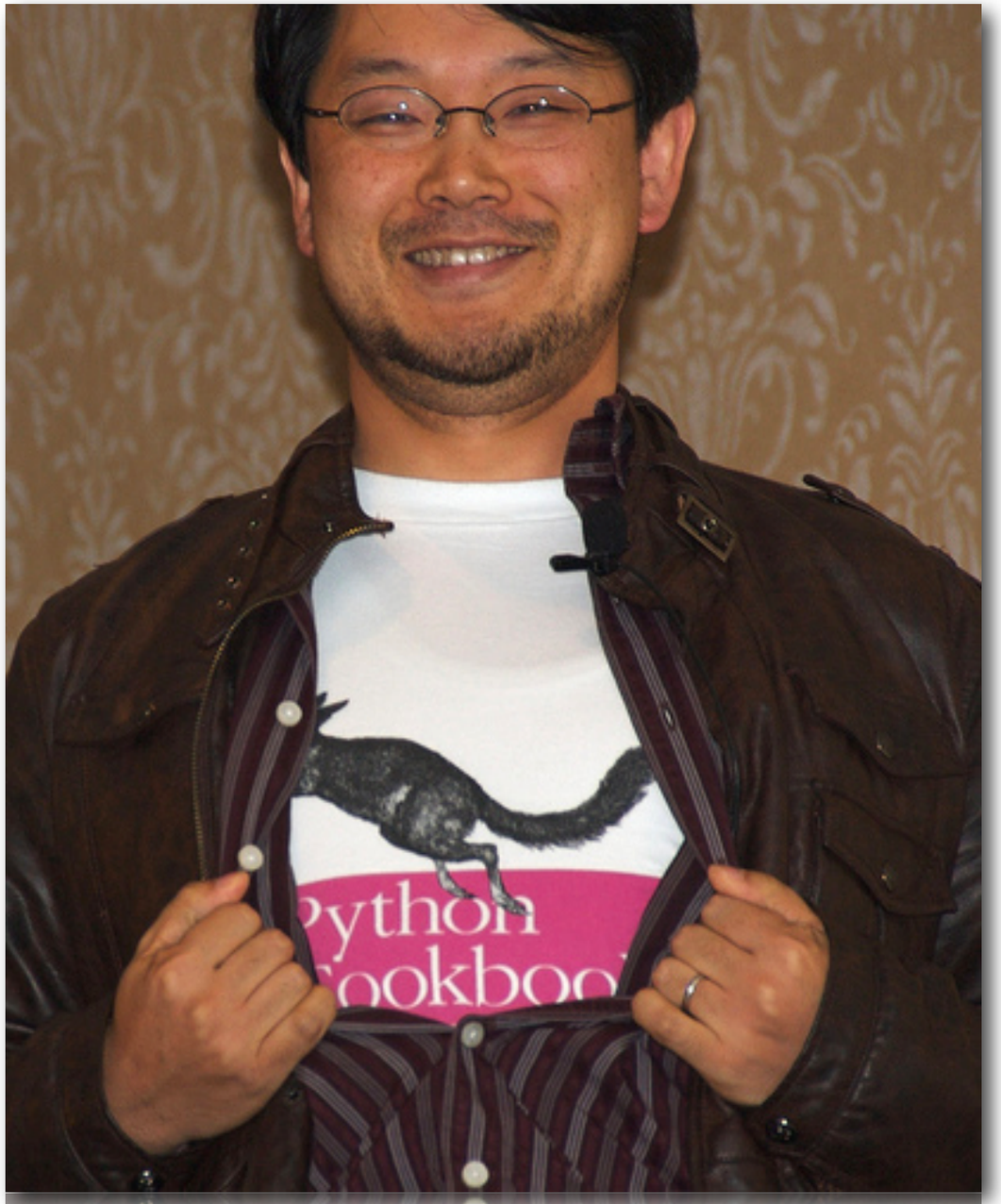
Ruby VMs

Jason Seifer, RailsEnvy.com

Microsoft
IronRuby



MRI

UGLY'S
A COMEDY SALOON
KING OF THE HILL
KING OF THE HILL
THE COMPLETE FOURTH SEASON
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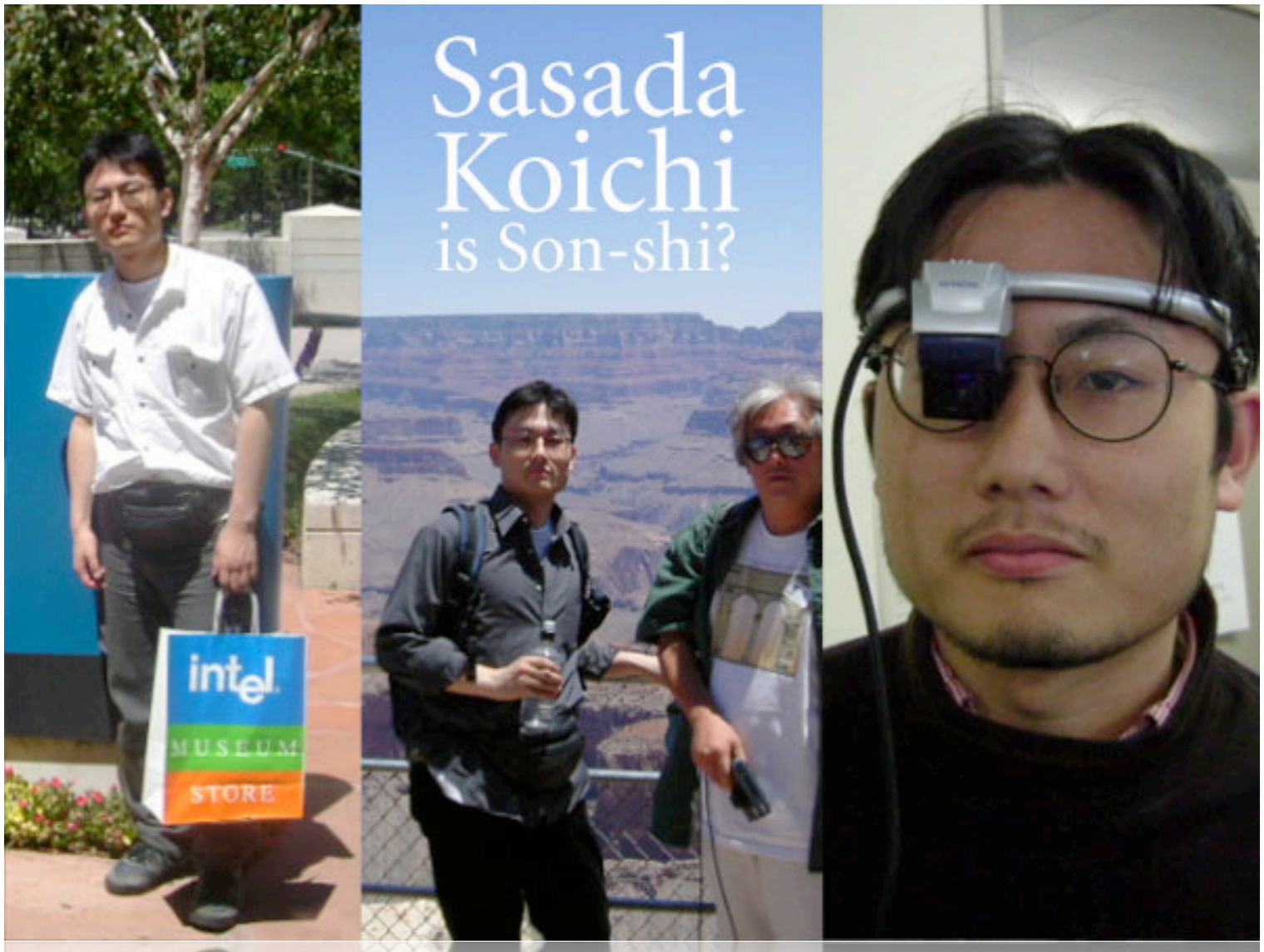
20th Century Fox
HOME ENTERTAINMENT

“DeFacto” Standard

Production Ready?

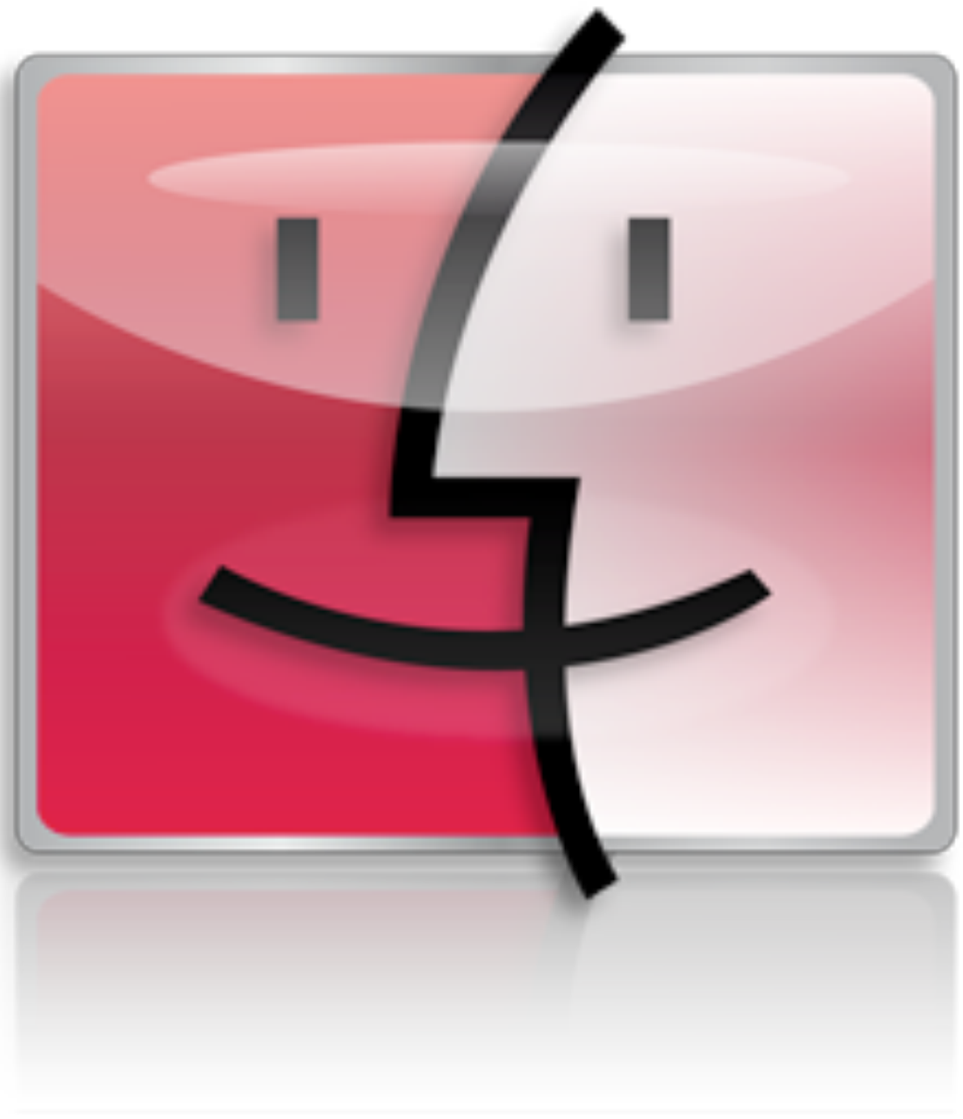
YES



YARV

Production Ready?

No.



MacRuby

Production Ready?

No.

XRuby

Production Ready?

No.

Ruby that scales™

"The GemStone/S object server provides an advanced platform for developing, deploying and managing scalable, mission-critical applications. It provides the robust, scalable, secure and flexible environment required for mission-critical applications, and supports the high-availability online environment demanded by 24X7 operations."

Production Ready?

No.

Rubinius

Rubinius VM

- "Ruby in Ruby"
- Used to be C and Ruby
- New VM written in C++
- Better Organized
- Better Tested
- More Potential

LLVM

"The Low Level Virtual Machine, generally known as LLVM, is a compiler infrastructure, written in C++, which is designed for compile-time, link-time, run-time, and "idle-time" optimization of programs written in arbitrary imperative programming languages."

Wikipedia

WTF does that mean?

Production Ready?

No.

IronRuby

Iron Ruby

- Ruby on .Net
- Released under MPL
- Committed to making IronRuby a first-class Ruby implementation.
- Major milestone: 1.0

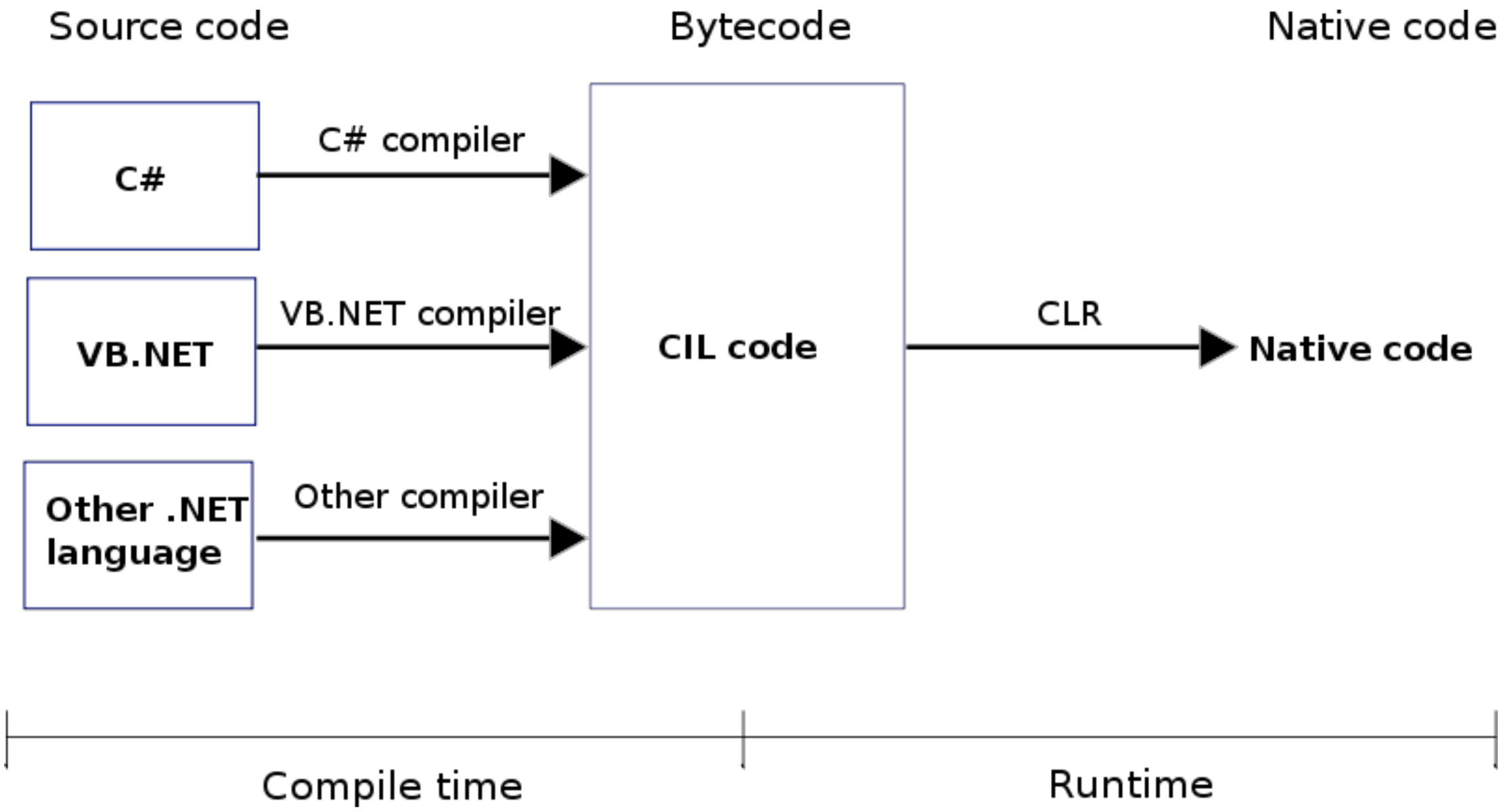
IronRuby runs on the DLR

DLR Supported Languages

- IronPython
- IronRuby
- Javascript
- Dynamic VB

OISTEN

DLR runs on top of the CLR


Source code
Bytecode
Native code
C#
C# compiler
VB.NET
VB.NET compiler
Other .NET language
Other compiler
CIL code
CLR
Native code
Compile time
Runtime

Production Ready?

No.

JRuby

348000
SUB-ZERO
JRuby Wins

Fatality

Production Ready?

YES

JRuby Benefits

- Corporate backing.
- Use existing Java code.
- Existing Java infrastructure.
- Most performant Ruby implementation.
- Multi-threaded.

Right now, using JRuby is the only way to have true multi-threaded Ruby programs.

```
$ cd <application>
$ glassfish
```

Use JRuby for your enterprise Ruby applications.

Thank you.