

Bridges and Beyond

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heroes?

Brad Cox

- Objective-C
- *Planning the Software Industrial Revolution*, November 1990.

Requirements for Revolution

I. Assembly Technology

forging
casting

screwing
bolting
welding
soldering
pinning
riveting
mortising

static binding

dynamic binding

Requirements for Revolution

1. Assembly Technology
2. Specification Technology

Objective-C needs a
glue language

What makes a good glue language?

What makes a good glue language?

Reflection

What makes a good glue language?

Reflection

Interactivity

What makes a good glue language?

Reflection

Interactivity

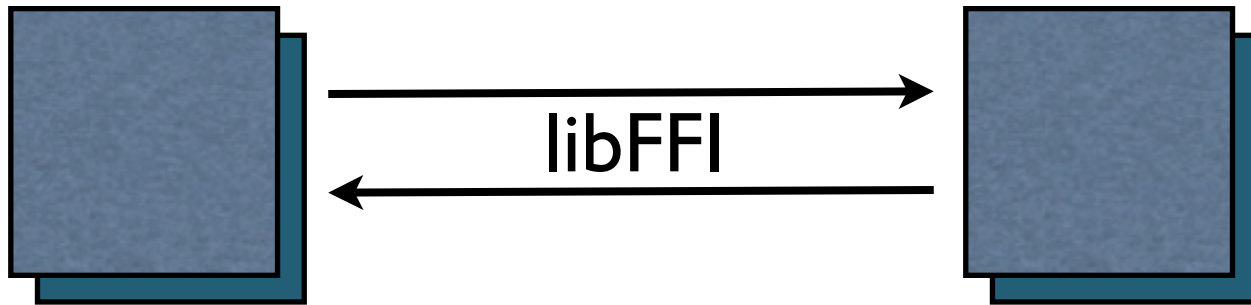
Expressiveness

Why Ruby?

Building a Bridge

Ruby Method Tables

ObjC Method Tables



Why RubyObjC?

Seven Challenges for Ruby/ObjC Bridges

Seven Challenges for Ruby/ObjC Bridges

Message Syntax

Seven Challenges for Ruby/ObjC Bridges

Message Syntax

Data Elements

Seven Challenges for Ruby/ObjC Bridges

Message Syntax

Data Elements

Libraries

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Object Storage

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Memory Management

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Name Conflicts

RubyObjC Demo

In the beginning...

Nu

“What’s Nu?”

“C over lambda”

What's Nu?

- An interpreted dialect of Lisp
- Object-oriented: everything is an object
- Written on, with, and for Objective-C

Nu Demo