

@plainprogrammer

#OSCON



- 10,000+ commits since September 2012
- First public appearance in 2014
- 11,000+ stars on Github
- 290+ contributors
- **Latest Release:** 0.25.1 (June 2018)

Language Goals

- Similar Syntax to Ruby
- Statically Type-Checked
- Bindable to C
- Compile-time Code Generation (Macros)
- Compile to Efficient Native Code



```
require "spec"

describe Array do
    describe "#size" do
        it "reports the right number of elements in the array" do
            [1, 2, 3].size.should eq 3
        end
    end
end
```

```
def greet(name, age)
 "I'm #{name}, and I'm #{age} years old."
end
greet "OSCON", 20
# I'm OSCON, and I'm 20 years old.
def add(x : Number, y : Number)
 X + Y
end
add 1, 2
# 3
add true, false
# Error: no overload matches 'add' with types Bool, Bool
```

```
require "http/server"
server = HTTP::Server.new do |context|
  context.response.content_type = "text/plain"
  context.response.print "Hello world!"
end
address = server.bind_tcp 8080
puts "Listening on http://#{address}"
server.listen
```

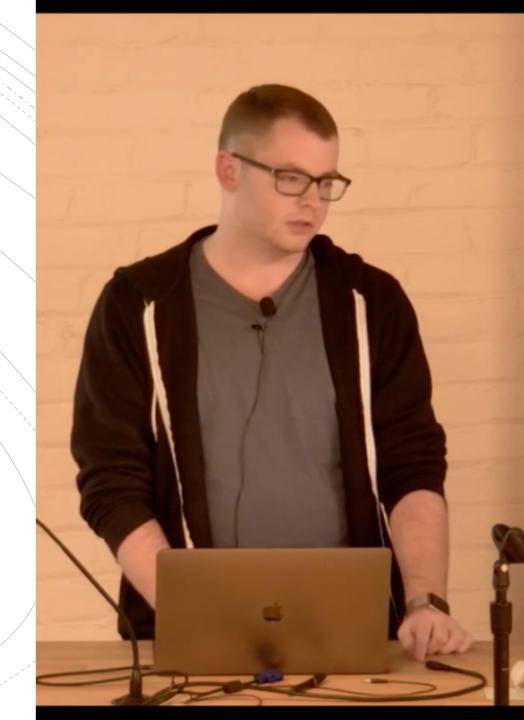
```
METHODS = %w(foo bar baz)
{% for name, index in METHODS %}
  def {{name.id}}
   {{index}}
  end
{% end %}
methods.each_with_index do |name, index|
  define_method(name.to_sym) do
    index
  end
end
```

```
channel = Channel(Nil).new
spawn do
  puts "Before send"
  channel.send(nil)
  puts "After send"
end
puts "Before receive"
channel receive
puts "After receive"
# Before receive
# Before send
# After receive
```

Learn More

https://bit.ly/2NXqEaO (YouTube)

Jon Egeland
"An Introduction to Crystal"







- Fast
- Friendly
- Testable
- Documented



- Language Maturity
- Smaller Community
- Libraries
 - Stuff besides REST
 - Integrations

Readiness

USE IT TODAY

- Stuff That Is Easy to Rewrite
- Command-Line Tools
- Some REST Microservices

WAIT AND SEE

- Almost Everything Else
- Monolithic Applications
- Large Codebases



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