



Introduction to Go

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Summary

Go is a brand-spanking-new systems language that Google released in November, 2009. Every wonder how awesome C would be if it was garbage-collected, concurrent, and didn't take a few weeks to compile? Wake up; it's here! We'll take a look at this new language that steals some of the dynamic flexibility of Python and Ruby, the performance of C, and a compile time that you'll miss if you blink.

Why Go?

- It's a systems language
- It's fun - REWORD

We Already Have a Systems Language!

Like C

```

void      (int m, int t, int
c) {
    ((t / m) <= 1) ?
primes(m,t+1,c) : !(t % m) ?
primes(m,t+1, t % m) :
    ((t % m)==(t / m) && !c) ?
    (printf("%d\t", (t / m)),
primes(m,t+1,c)) :
    ((t % m)> 1 && (t % m) < (t /
m)) ? primes(m,t+1,c + !((t /
m) % (t % m))) :
    (t < m * m) ? primes(m,t+1,c)
: 0;
}

```

code/c.c

We Already Have Fun Languages

```

module
  def      (      *      )
    args.      ? cmd.      :
    "#{cmd} #{args.      (" ")}"
  end
end

puts this is terrible code

```

code/ruby.rb

Specifications

- Compiled
- Imperative, structured
- Concurrent
- Strongly typed (explicit or inferred)