



Ruby

1995

A dynamic interpreted high-level
programming language with focus on
simplicity and productivity.

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CMPT 383
Summer 2022
SFU Surrey

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What was going on in 1995?
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1995: First Appearance

amazon



ebay

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1995: Most Popular Console Video Game



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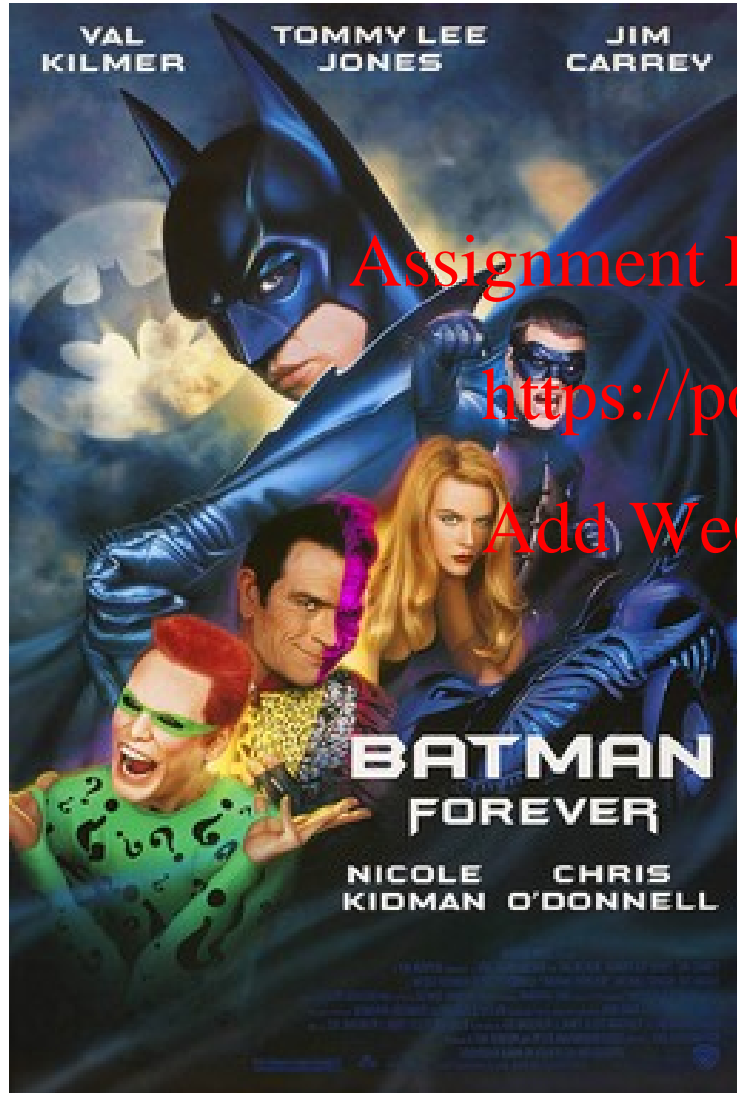
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DragonQuest VI

Nintendo Super Famicom

1995: Highest-Grossing Movie



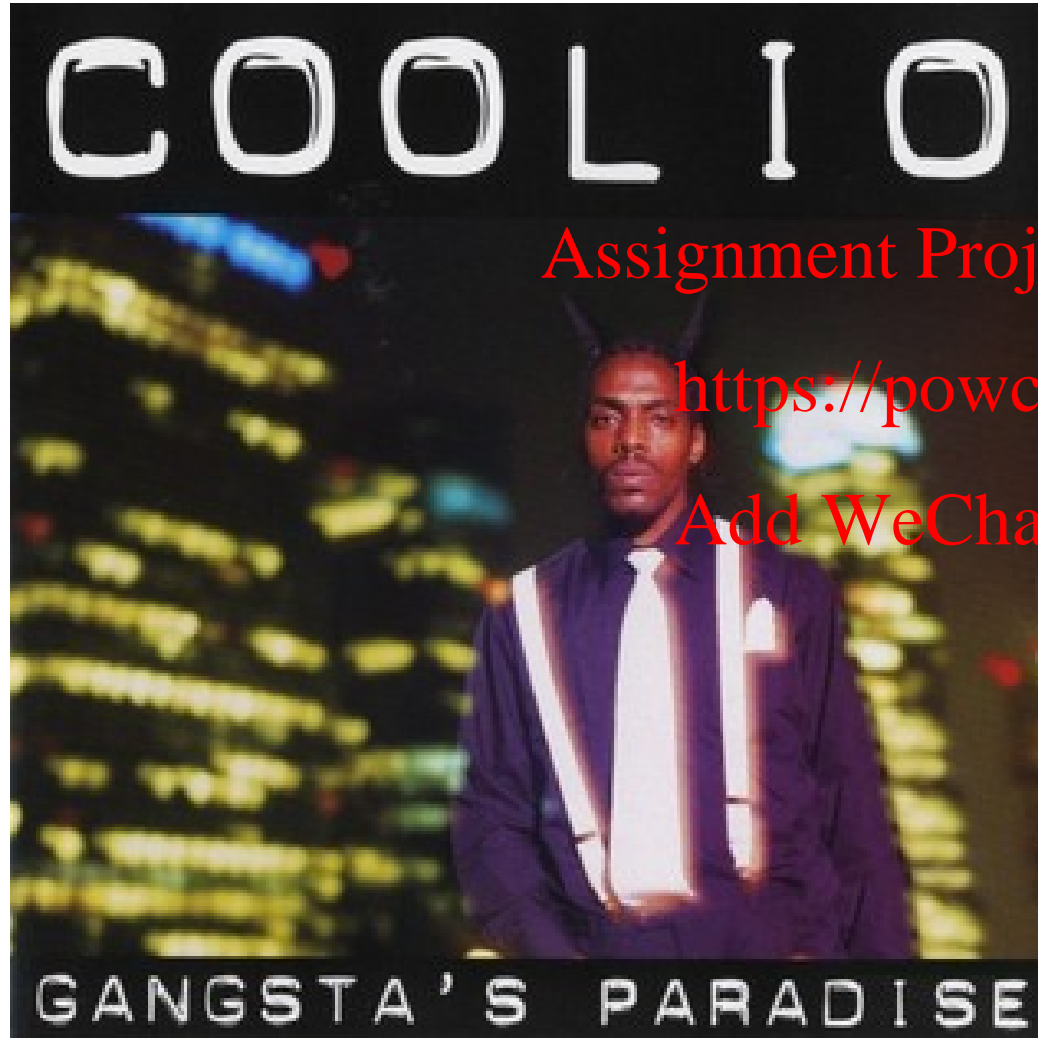
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Batman Forever

1995: Most Popular Song



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Gangsta's Paradise,
Coolio

1995 Facts



Jean Chretien: Canadian PM



Bill Clinton: American President

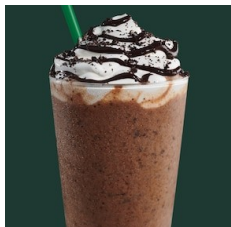
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Dua Lipa and Post Malone born

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DVDs were invented



Starbucks introduced the Frappuccino



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First release was version 0.95 in a Japanese newsgroup in December 1995.

Ruby's Original Designer



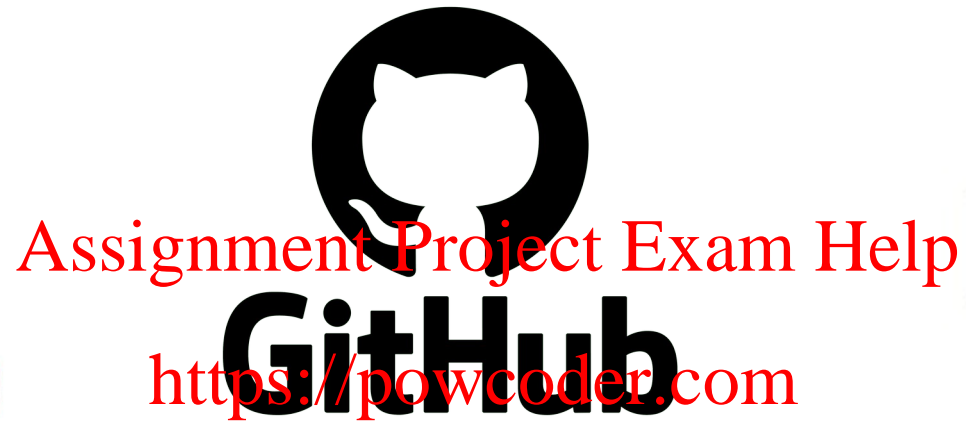
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Yukihiro Matsumoto

Ruby Can Get You a Job!



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KICKSTARTER



shopify

What's Ruby **Good** For?



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Ruby on Rails is the “killer app” for Ruby.

It lets you quickly create websites.

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Ruby is also a good a good choice for
things that you might use Python for, such
as scripting or text processing.

What's Ruby **Not** so Good For?

- Ruby is generally **not** as efficient as C, C++, Rust, so it is **not** the best choice when performance is the primary concern.
- Ruby does **not** provide many compiler-time checks, so it is easy to release code with errors that aren't discovered until run-time.
- Ruby has many powerful features that can lead to clever code that can cause readability problems.

Measuring the performance of different programming languages is surprisingly difficult to do fairly. Check out [the Computer Language Benchmarks Game](#)

Ruby was designed to improve the programmers experience, even at the cost of lower run-time performance and correctness.

Major Features of Ruby

Everything is an object

Much more object-oriented than languages like C++ or Java or Python

Interpreted

Easy to evaluate individual expressions

Memory-safe and garbage-collected

No dangling pointers, no manual memory deletion

Flexible: Easy to Alter

Can add to and change many existing features

Errors

Exception handling system

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Monkey patching is when you change the way a program works at run-time. This is a possible technique in Ruby, with pros and cons.

Major Features of Ruby

Types

Dynamically typed, i.e. types checked at run-time

New types can be created with classes

Existing types can be extended

Symbols

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Blocks

A practical way to deal with higher-order functions

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Text Processing

Built-in regular expressions

Extensive Standard Library

Many useful functions ready to use

Ruby is a feature-rich language, often with more than one way to do simple things.

Major Features **Not** in Ruby

Features **not** part of Ruby

No type declarations

No pointers

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Hello, World!

```
# hello_world.rb
```

```
puts 'Hello, world!'
```

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```
$ ruby hello_world.rb  
Hello, world!
```

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Hello, World!

To launch Ruby interpreter:
\$ irb

```
irb(main):001:0> puts "Hello, world!"  
Hello, world!  
=> nil
```

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```
>> puts "Hello, world!"  
Hello, world!  
=> nil
```

We'll usually use a simplified prompt.