

## THE LORD OF THE RINGS ANALOGY TO PROGRAMMING LANGUAGES

Frequently underestimated (powerful)

Well-known for the slow, gentle life of

"Java and Javascript are similar like

Car and Carpet are similar" - Greg

Most popular clients-side web

A must learn for front-end web

developer (HTML and CSS as well)

One of the hottest programming

language now, due to its increasing

popularity as server-side language

the Shire (web browsers)

scripting language

POPULARITY

JavaScript

Hobbit



Python





Help little Hobbits (beginners) to understand programming concepts

Help Wizards (computer scientists) to conduct researches

Widely regarded as the best programming language for beginners

Easiest to learn

Widely used in scientific, technical & academic field, i.e. Artificial

You can build website using Django, a popular Python web framework



YouTube, Instagram,

USED TO BUILD

AVG. SALARY \$107,000





Java DIFFICULTY \*\*\*\* Gandalf



Wants peace & works with everyone

Very popular on all platforms, OS, and devices due to its portability

One of the most in demand & highest paying programming languages

Slogan: write once, work everywhere



USED TO BUILD

Gmail, Minecraft, Most Android Apps, Enterprise applica-

AVG. SALARY

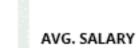












One Ring

The power of C is known to them all

Everyone wants to get its Power

Lingua franca of programming

used language in the world

hardware programming

POPULARITY

One of the oldest and most widely

Popular language for system and

A subset of C++ except the little



USED TO BUILD

and hardware

Operating systems





DIFFICULTY

\*\*\*

C++ DIFFICULTY \*\*\*\*



Everyone thinks that he is the good guy

But once you get to know him, you will realize he wants the power, not good

Complex version of C with a lot more

Widely used for developing games, industrial and performance-critical applications

Learning C++ is like learning how to manufacture, assemble, and drive a

Recommended only if you have a mentor to guide you

POPULARITY \*\*\*\*

USED TO BUILD

Operating systems, hardware, and browsers

AVG. SALARY











USED TO BUILD

majority websites

Paypal, front-end of







POPULARITY





USED TO BUILD

Windows applica-

Enterprise and





Man (Middle Earth)

Very emotional creature

They (some Ruby developers) feel they

are superior & need to rule the Middle

Focuses on getting things done

Designed for fun and productive

Best for fun and personal projects,

startups, and rapid development

DIFFICULTY



C#

DIFFICULTY

Beautiful creature (language), used to stay in their land, Rivendell (Microsoft Platform), but recently started to open up to their neighbours (open source)

A popular choice for enterprise to create websites and Windows application using .NET framework

Can be used to build website with ASP.NET. a web framework from Microsoft

Similar to Java in basic syntax and



some features

POPULARITY

USED TO BUILD Hulu, Groupon,

AVG. SALARY



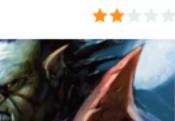


DIFFICULTY

PHP

Orc

DIFFICULTY



Ugly guy (language) and doesn't respect the rules (inconsistent and unpredictable)

Big headache to those (developers) to manage them (codes)

Yet still dominates the Middle-earth (most popular web scripting language)

Suitable for building small and simple sites within a short time frame

Supported by almost every web hosting services with lower price

USED TO BUILD

dia, Flickr

Wordpress, Wikipe-

POPULARITY

AVG. SALARY



Objective-C



DIFFICULTY

Lonely and loves gold

Primary language used by Apple for Mac OS X & iOS

Choose this if you want to focus on developing iOS or OS X apps only

Consider to learn Swift (newly introduced by Apple in 2014) as your next language

POPULARITY

USED TO BUILD Most iOS Apps and

AVG. SALARY

\$107,000



part of Mac OS X



## ACTUALLY... IT DOESN'T REALLY MATTER HOW YOU START.

You need to know at least few languages to understand the underlying concepts. Just get your feet wet!

TO GET STARTED, CHECK OUT THE FULL LIST OF BEST TUTORIALS AND TOOLS FOR EACH PROGRAMMING LANGUAGE AT:

CARLCHEO.COM/STARTCODING