How to be proficient in a programming language

Cuducos they/them

cuducos.me
@cuducos.me
@cuducos@tech.lgbt

Proficiency

Read and understand

To ponder on solutions

To write (or ease the learning curve into it)

Professionally
Python (and Ruby)

Open-source
Go (and Rust)

Prototypes

Rust, Lua, TypeScript and Go

In the past

Elm, ActionScript, PHP and JavaScript

Different paradigms and styles

Imperative and declarative

Functional and object-oriented

Strong and weak typing

Dynamic and static typing

Compiled and interpreted

How?

The idea is to share my learning hacks:)

- 1. Break the ice
- 2. Automate something boring
- 3. Guided tour to complexity
- 4. Get hands-on with it

1. Break the ice

- Syntax
- Style
- Paradigms
- Environment
- Background

Big book or long course

...but don't worry about!

2. Automate something boring

- Try it
- Get things wrong
- Understand where you are

Download or scrape something, social media bot, re-write a part of a project...

Be original, allow you to feel it!

3. Guided tour to complexity

- Hands-on tutorials
- Mix short tutorials (talks, blog posts)
- Explore in-depth series (video courses, blog series)

It is time to think about a pet-project!

Understand the environment, the blank spaces, and **ask** questions: deployment, integrations, tests, etc...

4. Get hands-on with it

- Trial and error
- Create solutions beyond supporting materials
- Patchwork

It is time to build a pet-project!

You have autonomy to know what you don't know... and to your own research!

Examples

Python

- 1. Coursera
- 2. Audio cutter
- 3. The Flask-Mega tutorial
- 4. Whiskyton

Examples

Go

- 1. The Go Programming Language
- 2. Twitter automation
- 3. Learn Go With Tests
- 4. Minha Receita

Examples

Rust

- 1. Programação Funcional e Concorrente em Rust
- 2. Egg Mode tutorial
- 3. Telegram bots
 - Shopping list (database)
 - Anti-spam (data science)
- 4. .. to be defined;)

Thank you:)

Happy hacking!

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github.com/cuducos