The Ruby Masterclass

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SECTION 1: Getting Started

- 1. Introduction to Ruby.
- About Dynamically Typed Nature.
- About Interpreted Nature.
- Pure Object Oriented Nature.
- Comparison with C.
- A bit about Ruby vs. Perl vs. Python vs. C++ and their similarities.
- Philosophy.
- introducing ruby-lang.org.
- 2. Installation of the latest version of Ruby on GNU/Linux, Windows and Android:
- Arch / Arch Based systems, Fedora / CentOS / OpenSUSE systems, Debian / Debian based systems.
- Installation of Ruby on Windows based systems with Devkit.
- Running Ruby on Android with Termux.

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- 1. Printing A simple 'Hello World' to the standard output with `puts` method.
- 2. Introducing the `p` method.
- 3. Introducing the `print` and `printf` and `sprintf` method in short.
- 4. Introduction to basic loops: times and while loop.

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- 1. Customizing the editor.
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- 2. Intro to variables:
 - Intro to = and || = assignment operators.
 - local variables
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- 3. Intro to constants.
- 4. Intro to object methods:
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 - the `class` method.
 - Intro to method chaining.
 - Intro to syntactical sugar / syntactic shorthand.
- 5. Intro to comments:
 - Intro to single line comments.
 - Intro to multi-line comments.
- 6. A brief intro to String objects.

- 7. Intro to the gets method.
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- 2. +, -, *, /, %, ** and other methods of Integer class.
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- 5. Integer / Float to String, String to Integer / Float conversion.
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- 3. Escape Characters.
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- 5. Using the ==, ===, eql? Methods
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- 11. Extract character(s) from string using Bracket Syntax [].
- 12. Intro to mutation of string objects.
- 13. The clear and replace methods.
- 14. The slice method with various arguments.
- 15. Introduction to bang methods on string.
- 16. Intro to chomp, chop, strip, Istrip, rstrip and their complementary bang methods.
- 17. Intro to index, rindex methods.
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- 7. min_by, max_by, minmax_by methods.
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- 13. shift and unshift Methods.
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- 5. The flat map method.

- 6. The clear method.
- 7. The permutation and combination methods.
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- 10. Quiz: Make our custom select method.
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- 15. The cycle method.
- 16. The each_with_object method
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- 7. {} vs. do end block.
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