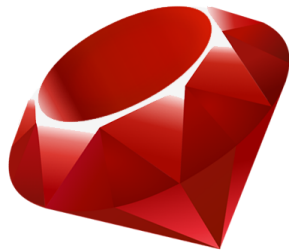

Introducing Ruby



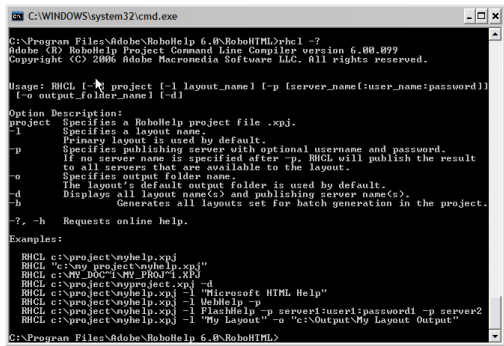
First Session

Agenda

- Command line
- Numbers
- Strings
- Exercises



Command Line



```
C:\WINDOWS\system32\cmd.exe

C:\Program Files\Adobe\RoboHelp 6.0\RoboHTML>rhcl -?
Adobe (R) RoboHelp Project Command Line Compiler version 6.00.099
Copyright (C) 2006 Adobe Macromedia Software LLC. All rights reserved.

Usage: RHCL [-s project] [-l layout_name] [-p [server_name[:user_name:password]]]
           [-o output_folder_name] [-d]

Option Description:
-s project      Specifies a RoboHelp project file .xpj.
-l layout_name  Specifies a layout name.
                Primary layout is used by default.
-p             Specifies publishing server with optional username and password.
                If no server name is specified after -p, RHCL will publish the result
                to all servers that are available to the layout.
-o             Specifies output folder name.
                The layout's default output folder is used by default.
-d             Displays all layout name(s) and publishing server name(s).
-b             Generates all layouts set for batch generation in the project.
-y, -h        Requests online help.

Examples:
RHCL c:\project\myhelp.xpj
RHCL "c:\my project\myhelp.xpj"
RHCL c:\my doc\myproj1.xpj -l "Microsoft HTML Help"
RHCL c:\project\myproj.xpj -d
RHCL c:\project\myhelp.xpj -l WebHelp -p
RHCL c:\project\myhelp.xpj -l FileHelp -p server1:user1:password -p server2
RHCL c:\project\myhelp.xpj -l "My Layout" -o "c:\Output\My Layout Output"

C:\Program Files\Adobe\RoboHelp 6.0\RoboHTML>
```

Introduction

What is the command line?

- Textual interaction with the computer
 - Also called “Terminal”, “Shell”, “bash”, “console”, “PowerShell”
 - Can look differently depending on operating system or user settings
-

How does it work?

1. Computer “asks” for command
 2. You input a command, followed by the return key
 3. Computer executes the command
 4. Computer prints the output of the command
-

Command line

- Always in a working directory
 - You can do most things you can do in a graphical interface
 - You can do a lot of things quicker than with a graphical interface (once you've practiced a bit)
 - Command followed by arguments (separated by spaces)
 - Cryptic commands might seem scary at first
-

Directories

- Where am I?
 - pwd
 - “Print working directory”
 - How do I go somewhere else?
 - cd
 - “Change directory”
 - Examples
 - cd testdirectory
 - cd ..
 - cd ~
-

Directories

- How do I create directories?
 - mkdir
 - “make directory”
 - e.g. mkdir rubymonstas
 - How do I delete directories?
 - rmdir
 - “remove directory”
 - e.g. rmdir rubymonstas
-

Directories and files

- How do I see what's inside a directory?
 - ls
 - “list”
 - Examples
 - ls
 - ls rubymonstas
 - ls ..
 - ls ~
-

Ruby-specific commands

- How do I run a Ruby script?
 - ruby
 - e.g. `ruby myscript.rb`
 - How do I try something or play around with Ruby?
 - irb
 - “interactive ruby shell”
 - Command line for Ruby
-

Numbers



Introduction

Numbers

- Integers: whole numbers
→ 1, 2, 3...
- Floats: decimal numbers
→ 1.5, 3.09, 4.12...



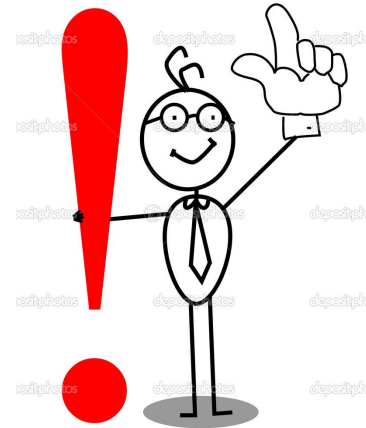
Calculations

- Addition $\rightarrow +$
- Subtraction $\rightarrow -$
- Multiplication $\rightarrow *$
- Division $\rightarrow /$
- Modulo $\rightarrow \%$



Division - Attention!

- Division of Integers
- Division of Floats
- $6 / 4 = ?$
- $6 / 4.0 = ?$



Modulo

- Gives the remainder of a division
 - $13 \% 6 = 1$
 - $21 \% 8 = 5$
- Why the hell...?



Strings



Introduction

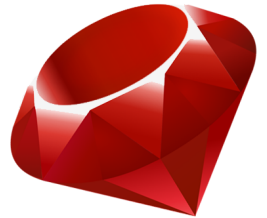
String Definition

- Words or phrases
- Single quotes ‘...’
- Double quotes “...”



Methods

- “Talk to” an object
- Manipulate an object
- Objects and methods are separated by a .



String Methods

- `.length`

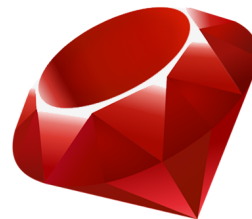
```
irb(main):005:0> "I love Ruby".length  
=> 11
```

→ includes white spaces



-
- `.reverse`

```
irb(main):006:0> "I love Ruby".reverse  
=> "ybuR evol I"
```



- .includes?

```
irb(main):011:0> "I love Ruby".include?("Ruby")  
=> true
```

```
irb(main):012:0> "I love Ruby".include?("Rails")  
=> false
```



-
- `.upcase`

```
irb(main):016:0> "Ruby".upcase  
=> "RUBY"
```



-
- `.downcase`

```
irb(main):017:0> "Ruby".downcase  
=> "ruby"
```

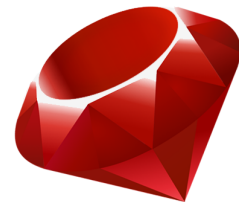


-
- `.capitalize`

```
irb(main):018:0> "ruby".capitalize  
=> "Ruby"
```



Ruby Documentation



Everything is online!

Ruby documentation

- Google!
- For example “ruby string reverse”

<http://ruby-doc.org/core/String.html>

Time to practice



Let's get to it!
