



If, Else

Learn to Walk

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Summary: Keep a friend at your side, and study in the path of inspired ones who have given their knowledge out for free.

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Chapter I

Before you Start!

Create your project folder:

1. From your project page on intra, copy the git repository link. Now, in the terminal type "git clone " and paste the link. After the link and before pressing enter, write a name for the new folder. Cloning your git repository always creates a new folder.
2. cd into the folder you just created and from now on, save your work there. Use the command "mkdir <name>" to create new folders. Put each puzzle from this project in a folder with the same name.

Chapter II

Format your Code

Each 42 challenge you turn in must adhere to the following format:

```
#!/usr/bin/env ruby

# This is what my program does
# By <userid>

def function_a
  #code
end

def function_b
  #code
end

def main(ARGV)
  #main method
  function_a
  function_b
end

main(ARGV)
```


- Always begin with the "`#!/usr/bin/env ruby`" statement. This tells your terminal to run the program using Ruby. In python, the first line is "`#!/usr/bin/env python`".
- Always add a comment stating what this program is for, some hints to help others use or understand it, and your name or intra ID.
- Do not write any code outside of functions except for one line, at the end of your program, which calls the `main()` function.
- The `(ARGV)` parameter is not always needed. In Python it is `sys.argv`.



Reference your chosen intro to coding class to learn about functions/methods (The keyword "`def`" means "define function...").

Chapter III

Exercise 0: Who Goes There

	Exercise
Turn-in directory : ex00	
Files to turn in : ex00.rb or ex00.py	
Notes : Ruby Control Expressions Python Control Flow	

- Create a script `ex01.rb` which asks your name and only greets you if your name is “Daenerys of the House Targaryen, the First of Her Name, The Unburnt, Queen of the Andals, the Rhoynar and the First Men, Queen of Meereen, Khaleesi of the Great Grass Sea, Protector of the Realm, Lady Regnant of the Seven Kingdoms, Breaker of Chains and Mother of Dragons” or "DHTFHNUQARFMQMGSPRLRSKBCMD" for short.
- Otherwise, if your name is "Dany", the program replies "Dany who?".
- For any other name, the program replies "Move along, now."


```
?> ruby ex00.rb
Who goes there?
?> DHTFHNUQARFMQMGSPRLRSKBCMD
Welcome, Daenerys.
```

```
?> ruby ex00.rb
Who goes there?
?> Dany
Dany who?
```

```
?> ruby ex00.rb
Who goes there?
?> Jaqen H'gar
Move along, now.
```

Chapter IV

Exercise 1: Decision Making

	Exercise
Turn-in directory : <code>ex01</code>	
Files to turn in : <code>ex01.rb</code> or <code>ex01.py</code>	
Notes : Ruby Control Expressions Python Control Flow	

Create a program which contains a secret five-letter word. When the program runs, it tells the user what letter the word starts with and invites the user to guess.

Use a loop to receive guesses from the user 10 times.

The program says different things depending on the input:

- If the user does not type a word but presses Enter, the program informs them, "You wasted a guess =P"
- If the user types a word that is longer or shorter than five letters long, the program helpfully prints out "0, 1, 2, 3, 4 that's how we count to five!".
- If the user types a word that is five letters long but does not start with the correct letter, the program helpfully prints out the full alphabet.
- If the user types a word that is five letters long and starts with the correct letter but is not the secret word, the program informs them how many guesses they have left.
- If the user guesses the word correctly, the program prints out, "Good Job! You are one with the Source."
- If the user spends all 10 guesses and does not get the question right, exit the program.

```
?> ruby ex01.rb
The secret word begins with a D.
GUESS: delighted
0, 1, 2, 3, 4 that's how we count to five!
GUESS: rigor
ABCDEFGHIJKLMNOPQRSTUVWXYZ
GUESS:
You wasted a guess!
GUESS: dolma
You have 6 guesses left!
GUESS: dough
Good Job! You are one with the Source.
```

Chapter V

Grade your work!

Turn in your work by typing three commands in order:

- `git add *`
- `git commit -m "<your comments here>"`
- `git push`
- If you have an error during the git push, you may need to refresh your authentication ticket. Do this by typing `kinit <username>` and then typing your intra password.

Then, go to your project page and click "Set the project as finished". Next click "Subscribe to defense" and schedule two peer corrections. If you run out of correction points (check your number on your profile page!), it means you need to open correction slots and correct other people in return. :)