

# Quick Assignment Review

Chapter 7- Ruby Basics

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Any questions on Looping?

# Efficiency Example

```
puts "Enter your weight: "  
persons_weight = gets.chomp  
puts "Enter the planet: "  
planet = gets.chomp  
mars = "Mars"  
mars_weight = 0.24 * persons_weight  
venus = "Venus"  
venus_weight = 0.89 * persons_weight  
  
if planet == mars  
  puts "Your weight on " + mars + " is " + mars_weight  
elsif planet == venus  
  puts "Your weight on " + venus + " is " + venus_weight  
end
```

```
puts "Enter your weight: "  
persons_weight = gets.chomp  
puts "Enter the planet: "  
planet = gets.chomp  
  
new_weight = persons_weight  
  
if planet == "Mars"  
  new_weight = 0.24 * persons_weight  
elsif planet == "Venus"  
  new_weight = 0.89 * persons_weight  
end  
  
puts "Your weight on " + planet + " is " + new_weight
```

# Loops

Chapter 7 - Ruby Basics

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# Loops

Loops allow for repeating code

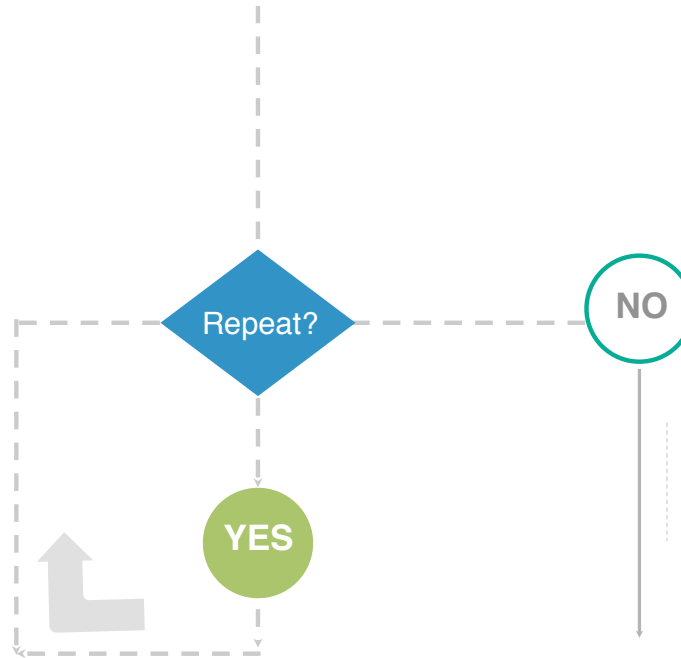
*A loop is a programming structure that contains a block of code that repeats so long as a given condition is true*



# If else Flow chart



# Loop Flow Chart



# Simple Example

```
should_repeat = true
while should_repeat
  puts "Here I am"
  puts "Should I repeat?"
  answer = gets.chomp
  if answer == "No" || answer == "no"
    should_repeat = false
  end
end
end
```



# Using a Break to leave

```
should_repeat = true
while should_repeat
  puts "Here I am"
  puts "Should I repeat?"
  answer = gets.chomp
  if answer == "No" || answer == "no"
    break
  end
end
```

# Doing a counter with a While Loop

```
counter = 0
while counter < 11
  puts counter
  counter = counter + 1
end
```

# Stylistic Discussion

Ruby Basics

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# Indenting

- We use indenting to show grouping of logic code
- This is very important for conditionals and loops

```
if 1 < my_variable  
  puts 'yeah'  
else  
  if 2 < my_variable  
    puts 'something'  
  else  
    if 3 < my variable  
      puts 'crazy'  
    end  
  end  
end
```

# Spacing

- It is ok to create “paragraphs” in your code

```
# setup the conditional
should_repeat = true

# Start my loop
while should_repeat

  # Ask the user for an answer
  puts “Here I am”
  puts “Should I repeat?”
  answer = gets.chomp

  # Check if we should break
  if answer == “No” || answer == “no”
    break
  end

end
```

# Next week, remote remote

- Class Trip, Feb 20th

WHAT

WHY

WHERE

WHEN

WHO

HOW

