

Hashes and Symbols

Ruby Symbols

In Ruby, *symbols* are immutable names primarily used as hash keys or for referencing method names.

```
my_bologna = {  
  :first_name => "Oscar",  
  :second_name => "Meyer",  
  :slices => 12  
}  
  
puts my_bologna[:second_name] # => Meyer  
  
#Symbols must be valid Ruby variable  
names and always start with a colon (:).
```

Ruby Hashes, Symbols, & Values

In Ruby hashes, key symbols and their values can be defined in either of two ways, using a `=>` or `:` to separate symbol keys from values.

```
my_progress = {  
  :program => "Codecademy",  
  :language => "Ruby",  
  :enthusiastic? => true  
}  
  
#Key symbols and their values can be  
defined with a =>, also known as a hash  
rocket.  
  
my_progress = {  
  program: "Codecademy",  
  language: "Ruby",  
  enthusiastic?: true  
}  
  
#Key symbols and their values can also be  
defined with the colon (:) at the end of  
the symbol followed by its value.
```

Ruby .select Method

In Ruby, the `.select` method can be used to grab specific values from a hash that meet a certain criteria.

```
olympic_trials = {  
  Sally: 9.58,  
  John: 9.69,  
  Bob: 14.91  
}  
  
olympic_trials.select { |name, time| time  
< 10.05 }  
#The example above returns {:Sally=>9.58,  
:John=>9.69} since Sally and John are the  
only keys whose values meet the time <  
10.05 criteria.
```

Ruby .each_key & .each_value

In Ruby, the `.each_key` and `.each_value` methods are used to iterate over only the keys or only the values in a hash.

```
eren_jaeger = {  
  age: 15,  
  enemy: "titans",  
  branch: "Survey Corps"  
}  
  
eren_jaeger.each_key { |key| puts key }  
#Output:  
#age  
#enemy  
#branch  
  
eren_jaeger.each_value { |value| puts  
value }  
#Output:  
#15  
#titans  
#Survey Corps
```

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