

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_hash[: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.</pre>
```

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
```