

# Ruby CheatSheet

## LANGUAGES

- PDF Link: [cheatsheet-ruby-A4.pdf](#), Category: languages
- Blog URL: <https://cheatsheet.dennyzhang.com/cheatsheet-ruby-A4>

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## 1.1 Summary

| Name                                  | Comment   |
|---------------------------------------|---|
| Check syntax                          | <code>ruby -c my.rb</code>                                |
| Generate random key                   | <code>r = Random.new, r.rand(10...42)</code>              |
| Install package with specific version | <code>gem install rubocop -v "0.44.1"</code>              |
| Get RubyGem env                       | <code>gem env</code>                                      |
| Check whether variable is nil         | <code>if value.nil?</code>                                |
| Run system command                    | <code>system("commandhere")</code>                        |
| Run bash command                      | <code>stdin, stdout, stderr = Open3.popen3('ls .')</code> |

## 1.2 List

| Name                     | Comment  |
|--------------------------|--|
| Check existence          | <code>['Cat', 'Dog', 'Bird'].include? 'Dog'</code> |
| Find item                | <code>l1.find_index(x)</code>                      |
| Remove item from list    | <code>l1.delete_at(2)</code>                       |
| Remove duplicate entries | <code>[1,2,2,1,4,4,5,6,7,8,5,6].uniq</code>        |
| Deep copy a list         | <code>l1=l.dup</code>                              |

## 1.3 String

| Name                  | Comment   |
|-----------------------|---|
| Substring             | <code>string[1..3]</code>                                     |
| Search substring      | <code>"option=name=bob".index("name")</code>                  |
| Replace               | <code>"Welcome to PHP Essentials!".gsub("PHP", "Ruby")</code> |
| Remove trailing comma | <code>"ab;123;".chomp(";")</code>                             |
| Strip whitespace      | <code>host = host.strip()</code>                              |

## 1.4 Integer

| Name | Comment |
|------|---------|
|------|---------|

## 1.5 Conversion

| Name                    | Comment  |
|-------------------------|--|
| Convert string to int   | <code>"14".to_i, "1,112".delete(',').to_i</code>     |
| Round float to 2 digits | <code>(5.65235534).round(2)</code>                   |
| Format datetime         | <code>puts time.strftime("%Y-%m-%d %H:%M:%S")</code> |

## 1.6 Dict & Set

| Name | Comment |
|------|---------|
|------|---------|

## 1.7 File

| Name                          | Comment                                       |
|-------------------------------|---|
| Check whether directory exist | <code>File.directory?('xxx')</code>           |
| Check whether files exist     | <code>File.file?('hello.rb')</code>           |
| Read file to string           | <code>contents = File.read('filename')</code> |

- Write to file

```
# append
File.open('/tmp/test.txt', 'a') { |file| file.write("your text\n") }

# overwrite
File.open('/tmp/test.txt', 'w') { |file| file.write("your text\n") }
```

## 1.8 Code Snippets

- Get ip from eth0

```
ruby -rsocket -e 'p IPSocket.getaddress(Socket.gethostname)'

require 'socket'
Socket::getaddrinfo(Socket.gethostname,"echo",Socket::AF_INET)[0][3]
```

- Get hostname

```
require 'socket'
hostname = Socket.gethostbyname(Socket.gethostname).first
```

- Get hostname from ip

```
def get_hostname_by_ip(ip_address)
  require 'resolv'
  dns = Resolv.new

  hostname = ip_address
  begin
    hostname = dns.getname(ip_address)
  rescue
    # TODO: show error message
    puts "ERROR: Exception"
  end
  return hostname
end
end
```

## 1.9 More Resources

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