

For the Test We
Love




Why Do I Test 🤔

It's NOT about
correctness

It's about stability

How Do I Test

- Manual Testing
- Automated Testing
- Elegant Automated Testing (RSpec )

FizzBuzz

- When the number divided by 3
> Fizz
- When the number divided by 5
> Buzz
- when the number divided by 15
> FizzBuzz
- else
> number

FizzBuzz

- Given inputs
[1,3,5,7,9,11,13,15]

> [1, Fizz, Buzz, 7,
Fizz, 11, 14, FizzBuzz]

FizzBuzz

```
module FizzBuzz
  def self.check(numbers)
    numbers.map do |number|
      if number % 15 == 0
        'FizzBuzz'
      elsif number % 3 == 0
        'Fizz'
      elsif number % 5 == 0
        'Buzz'
      else
        number.to_s
      end
    end
  end
end
```

Manual

→ **irb** -r ./fizzbuzz.rb

2.3.3 :001 > FizzBuzz.check
[1,3,5,7,9,11,13,15]

=> ["1", "Fizz", "Buzz", "7", "Fizz",
"11", "13", "FizzBuzz"]

2.3.3 :002 >

Automated Testing

→ **ruby** fizzbuzz.automated.rb

test with input [1, 3, 5, 7, 9, 11, 13, 15]

gets ["1", "Fizz", "Buzz", "7", "Fizz",
"11", "13", "FizzBuzz"]

>>> huray!

test with input [1, 2, 3, 4, 5] gets
["something stupid"]

>>> F*CK!

-----summary-----

From 2 cases

test passes 1, and failed 1

Elegant Automated Testing

→ `rspec ./fizzbuzz.rspec.rb -fd`

`FizzBuzz`

`#check`

`when given [1,3,5,7,9,11,13,15]`

`returns ["1", "Fizz", "Buzz", "7", "Fizz", "11",
"13", "FizzBuzz"]`

`when given [1,2,3,4,5]`

`returns ["something stupid"] (FAILED - 1)`

Elegant Automated Testing

Failures:

1) FizzBuzz#check when given [1,2,3,4,5] returns ["something stupid"]

Failure/Error: expect(subject).to eq(expected)

expected: ["something stupid"]

got: ["1", "2", "Fizz", "4", "Buzz"]

(compared using ==)

./fizzbuzz.rspec.rb:25:in `block (4 levels) in <top (required)>'

Finished in 0.01512 seconds (files took 0.11999 seconds to load)

2 examples, 1 failure

Failed examples:

rspec ./fizzbuzz.rspec.rb:24 # FizzBuzz#check when given [1,2,3,4,5] returns ["something stupid"]

Better Automated Testing

SAFE

Better Automated Testing

- **S** – single purpose
- **A** – align with its own kind
- **F** – fast!
- **E** – easy to spot errors

Demo



<https://github.com/offfffz/rbtd-fizzbuzz>