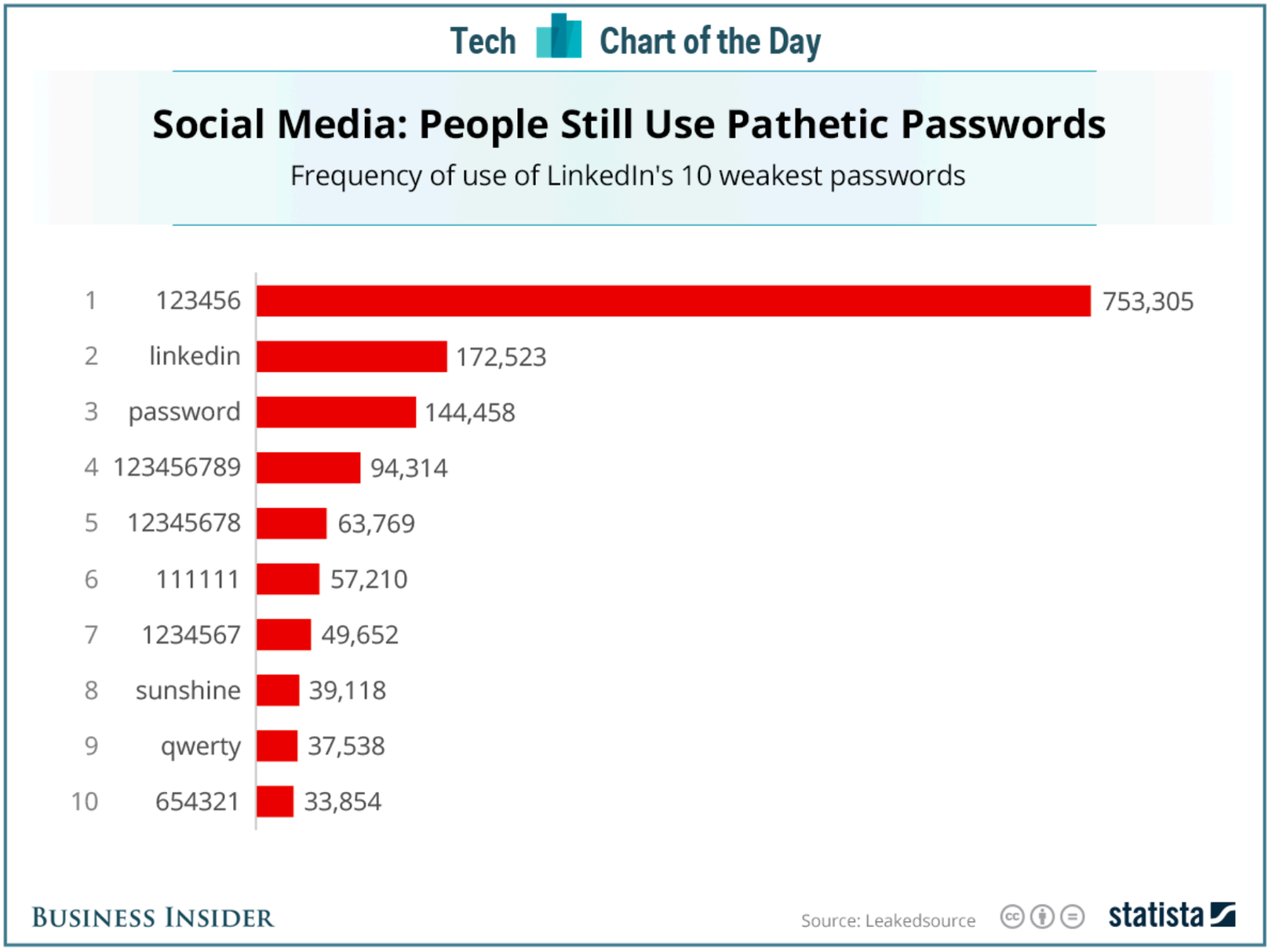
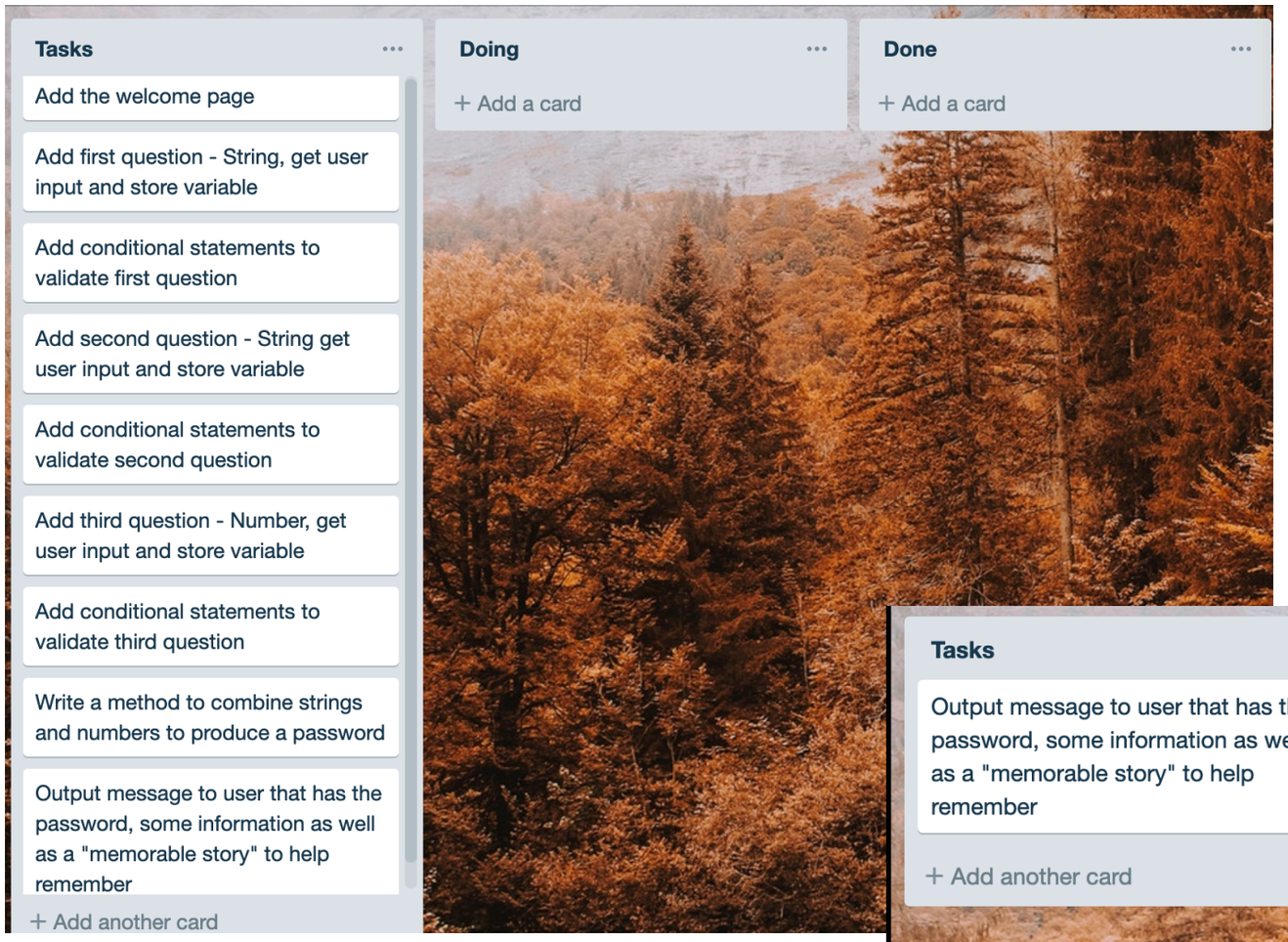
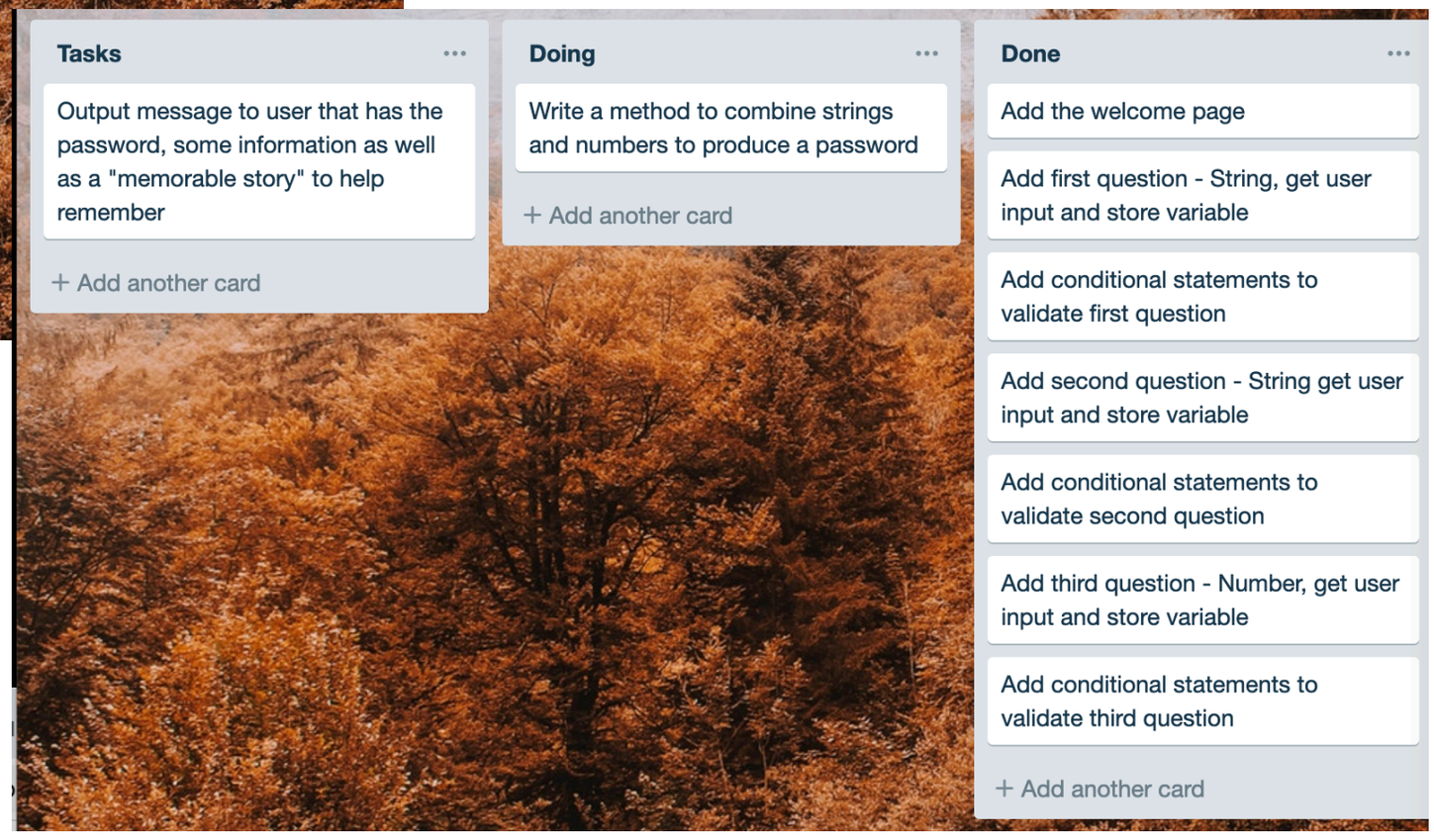



**Business Insider, June 7, 2016**

# Our Process

- Brainstorming 🧠
- App design
- Agile workflow


Tasks
Add the welcome page
Add first question - String, get user input and store variable
Add conditional statements to validate first question
Add second question - String get user input and store variable
Add conditional statements to validate second question
Add third question - Number, get user input and store variable
Add conditional statements to validate third question
Write a method to combine strings and numbers to produce a password
Output message to user that has the password, some information as well as a "memorable story" to help remember
+ Add another card
Doing
+ Add a card
Done
+ Add a card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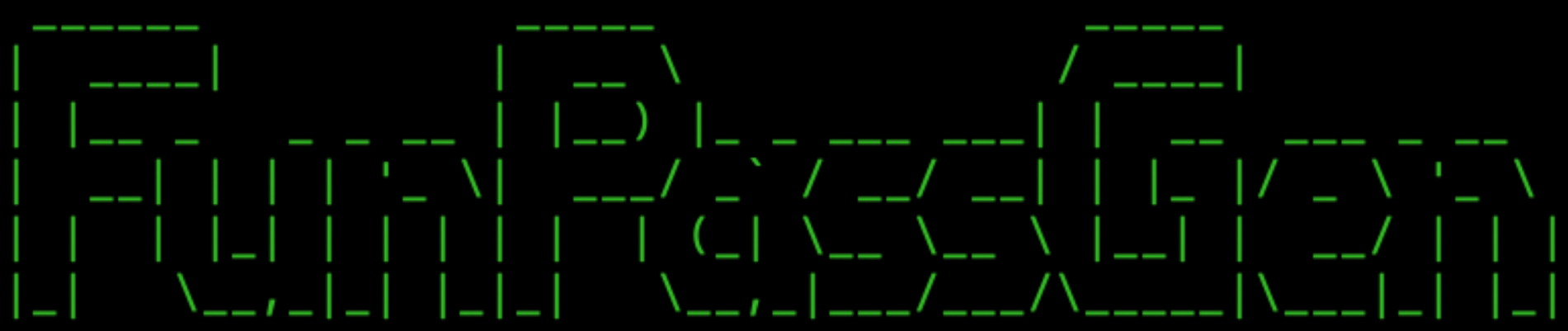
+ Add another card

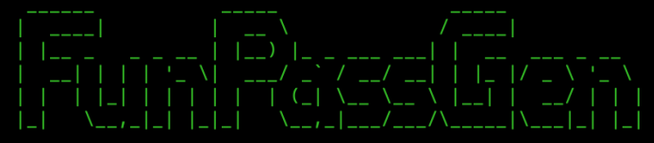


A Fun Password Generator

Alex Diwa and Jade Rosario

https://github.com/alxdwa/fun-pass-gen

# Code Structure



## Two loops (index.rb)

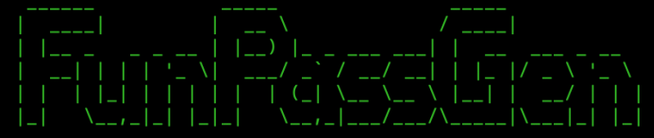
- Main Flow — 2 story paths
- Encryption

## Methods (methods.rb)

- ask_question
- validate_letters
- validate_numbers
- generate_password
- colorize_answers
- encrypt

```
[Alexs-MacBook-Pro-2:fun-pass-gen alexdiwa$ irb
[2.6.0 :001 >
[2.6.0 :002 >
[2.6.0 :003 >
[2.6.0 :004 >
 2.6.0 :005 > ALPHABET = "abcdefghijklmnopqrstuvwxyz"
  => "abcdefghijklmnopqrstuvwxyz"
[2.6.0 :006 > NUMBERS = "0123456789"
  => "0123456789"
 2.6.0 :007 > def validate_letters(str)
 2.6.0 :008?>     arr = str.gsub(" ", "").split("")
 2.6.0 :009?>     result = arr.all? { |letter| ALPHABET.include?(letter.downcase) }
 2.6.0 :010?>     result = false if arr.empty?
 2.6.0 :011?>     puts "Letters only, please! :)".colorize(:red) if result == false
 2.6.0 :012?>     result
[2.6.0 :013?>   end
  => :validate_letters
[2.6.0 :014 > string1 = "alex"
  => "alex"
[2.6.0 :015 > string2 = "ALExx"
  => "ALExx"
[2.6.0 :016 > string3 = " alex"
  => " alex"
[2.6.0 :017 > string4 = "#% alex"
  => "#% alex"
[2.6.0 :018 > string5 = "242"
  => "242"
[2.6.0 :019 > string6 = "_ Alex
[2.6.0 :020"> "
  => "_ Alex\n"
[2.6.0 :021 > validate_letters(string1)
  => true
[2.6.0 :022 > validate_letters(string2)
  => true
[2.6.0 :023 > validate_letters(string3)
  => true
[2.6.0 :024 > validate_letters(string4)
```

# Challenges



- Cleaning up repetitive code (refactoring)
- Making up a memorable phrase
- Git and GitHub
- Time constraints

# WET ☔

```ruby
puts "What's your first name?"
first_name = gets.chomp

until validate_letters(first_name) and first_name != "" and first_name != " "
  puts "What's your first name?"
  first_name = gets.chomp
end

puts "Nice one! What about your last name?"
last_name = gets.chomp

until validate_letters(last_name) and last_name != "" and last_name != " "
  puts "What's your last name?"
  last_name = gets.chomp
end

puts "Super! What's your lucky number?"
lucky_num = gets.chomp

until validate_numbers(lucky_num) and lucky_num != "" and lucky_num != " "
  puts "What's your lucky number?"
  lucky_num = gets.chomp
end
```

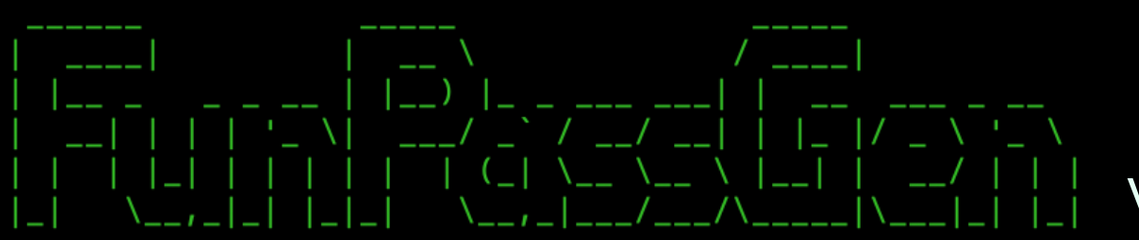
# DRY ☔

```ruby
def ask_question(question, method)
  puts question
  var_name = gets.chomp

  until send(method, var_name)
    var_name = gets.chomp
  end

  $answers << var_name
end


ask_question("What's your first name?", "validate_letters")
ask_question("What's your last name?", "validate_letters")
ask_question("What's your lucky number?", "validate_numbers")
ask_question("What's your favourite drink? The more imaginative, the better!", "validate_letters")
ask_question("What's your favourite city?", "validate_letters")
ask_question("What's your favourite place?", "validate_letters")
p $answers
```




- Text-to-speech
- More interactive and prettier UI
- Generating more complex and safer passwords
- Improving encryption/decryption methods