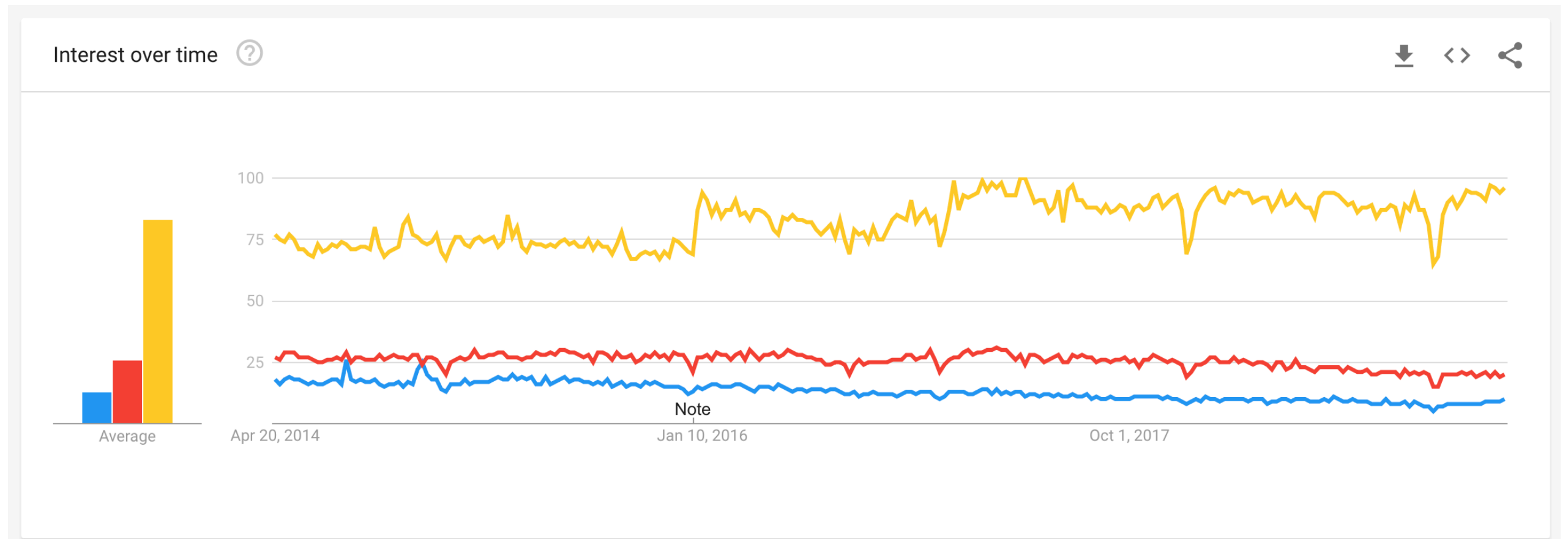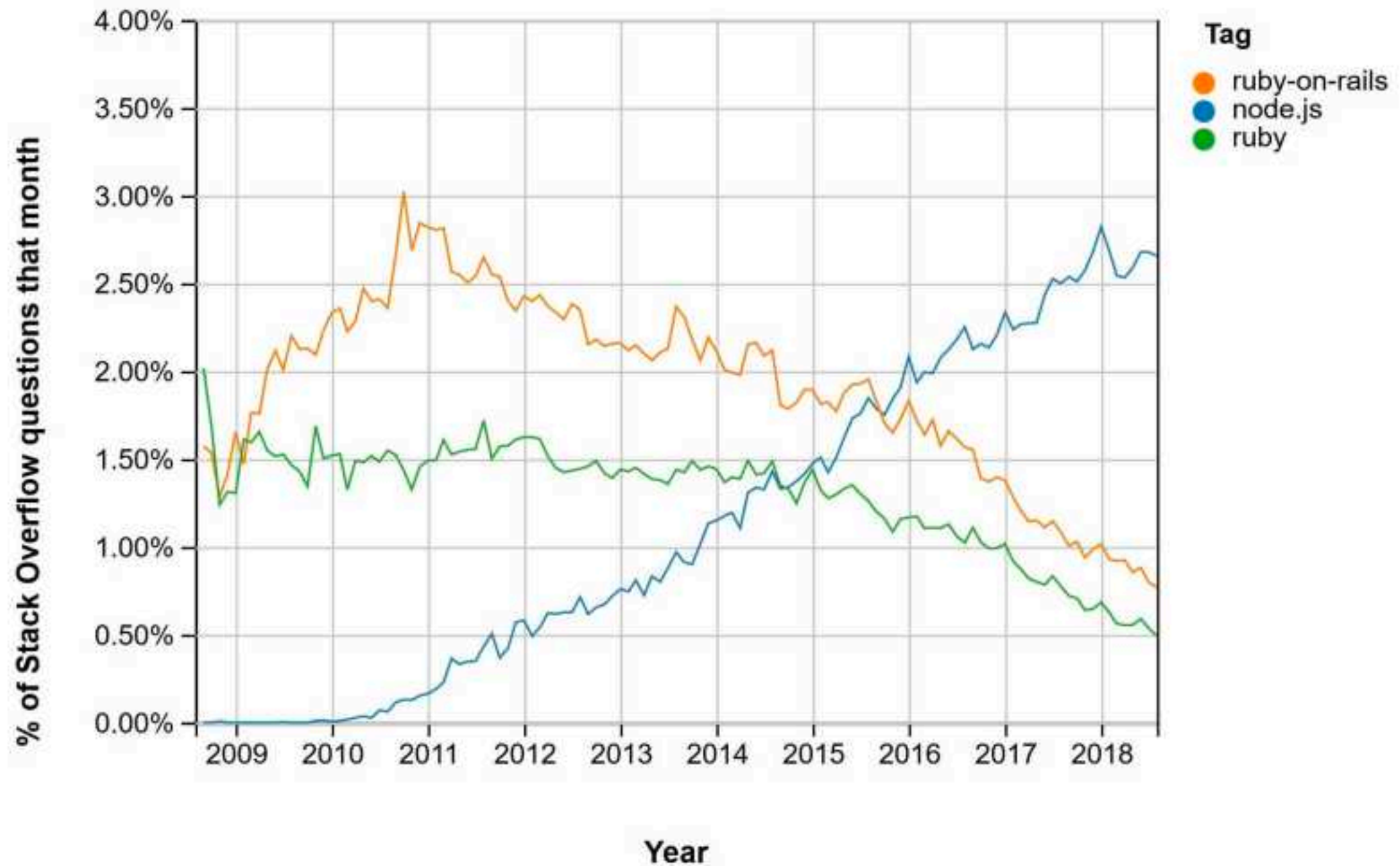# Rails: 2019 and beyond

Slides By: Ynon Perek

Google Trends
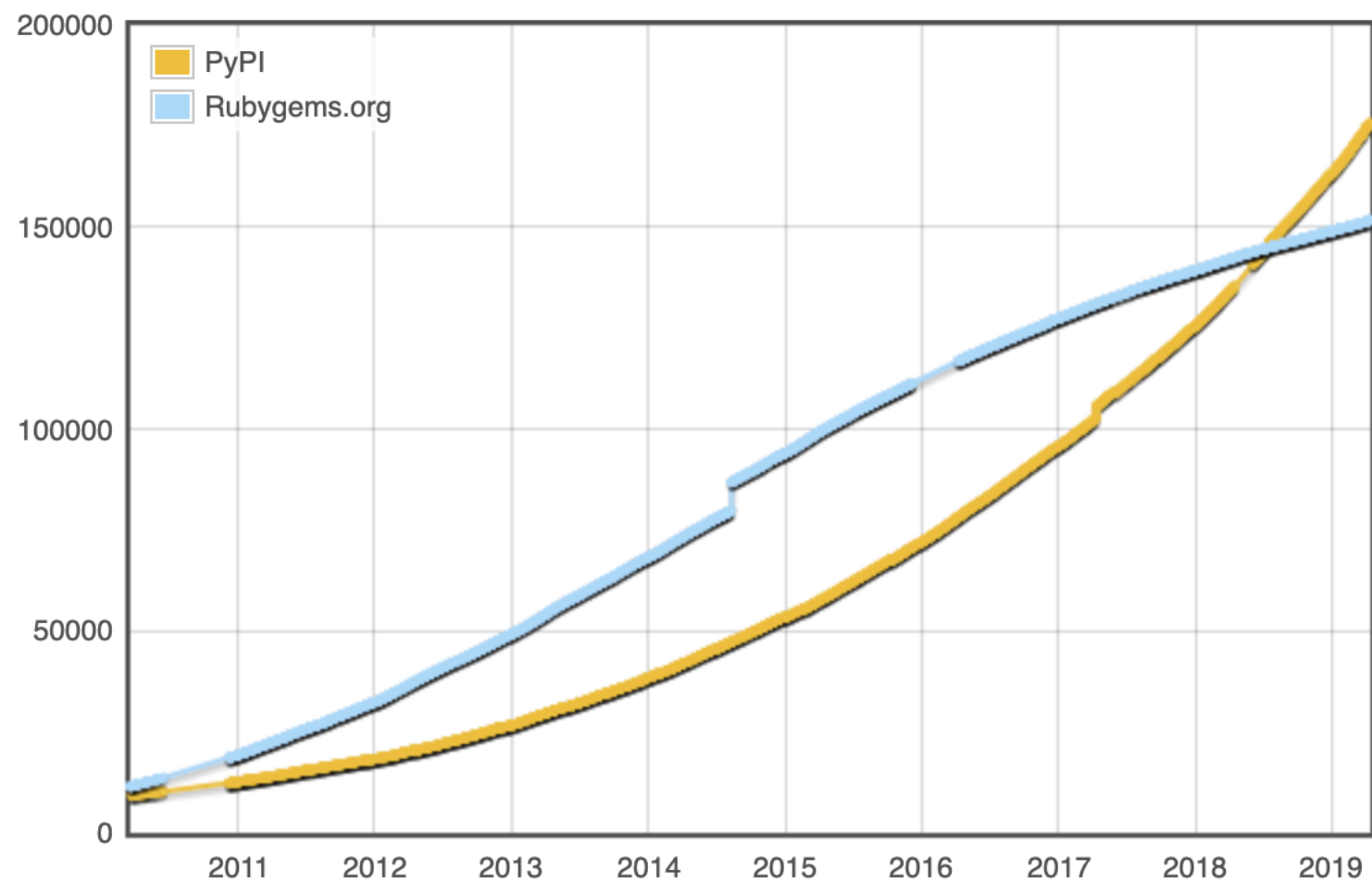

Rails - Node.JS - Django

Stack Overflow

Module Counts

Module Counts

Fears

- Less gems   =>   more work for us

- Less Stack Overflow =>   harder to find answers

- Less projects   =>   harder to find work

Good News

DHH ✓
@dhh

This is pretty amazing. Both GitHub and Shopify are huge, billion dollar companies running on the original apps made over a decade ago. And they now both on the latest Rails, helping to push the framework forward

Eileen M. Uchitelle @eileencodes

As of Wednesday, @github is running on Rails 5.2.1. This is the culmination of a year and a half of hard, grueling work and it's so exciting to be on the newest version of #Rails!

♡ 3,159   9:55 PM - Aug 17, 2018   ⓘ

💬 **631 people are talking about this**   ›

Let's Talk Features

- Rails Goals:

  - Scalable

  - Front End Friendly

  - Secure

Scalable

- Active Storage

- Redis cache-store

- Parallel testing

- Multi DB Support

Rails ♥ JavaScript

- Action Cable

- Webpacker

- API Mode

- HTTP/2 Early Hints

Secure

- CSP

- Encrypted Credentials

Big Rails6 Features

- Action Mailbox

- Action Text

Active Storage

```
1  local:
2    service: Disk
3    root: <%= Rails.root.join("storage") %>
4
5  test:
6    service: Disk
7    root: <%= Rails.root.join("tmp/storage") %>
8
9  amazon:
10   service: S3
11   access_key_id: ""
12   secret_access_key: ""
13   bucket: ""
14   region: "" # e.g. 'us-east-1'
```

Active Storage

```ruby
1 class User < ApplicationRecord
2   has_one_attached :avatar
3   has_many_attached :images
4 end
```

Redis cache-store

```erb
1 <% @messages.each do |message| %>
2   <% cache message do %>
3     <%= render message %>
4   <% end %>
5 <% end %>
```

Redis cache-store

```
 1  pp Rails.cache.redis.keys
 2  ["views/messages/index:51aef83ac5cf0aaa40efdd8640257171/messages/10",
 3   "views/messages/index:51aef83ac5cf0aaa40efdd8640257171/messages/7",
 4   "views/messages/index:51aef83ac5cf0aaa40efdd8640257171/messages/1",
 5   "views/messages/index:51aef83ac5cf0aaa40efdd8640257171/messages/6",
 6   "views/messages/index:51aef83ac5cf0aaa40efdd8640257171/messages/2",
 7   "views/messages/index:51aef83ac5cf0aaa40efdd8640257171/messages/8",
 8   "views/messages/index:51aef83ac5cf0aaa40efdd8640257171/messages/5",
 9   "views/messages/index:51aef83ac5cf0aaa40efdd8640257171/messages/3",
10   "views/messages/index:51aef83ac5cf0aaa40efdd8640257171/messages/11",
11   "views/messages/index:51aef83ac5cf0aaa40efdd8640257171/messages/4",
12   "views/messages/index:51aef83ac5cf0aaa40efdd8640257171/messages/9"]
```

CSP

```ruby
SecureHeaders::Configuration.default do |config|
  config.csp = {
    default_src: %w(https: 'self'),
    font_src: %w('self' data: https:),
    img_src: %w('self' https: data:),
    object_src: %w('none'),
    script_src: %w(https:),
    style_src: %w('self' https: 'unsafe-inline')
  }
end
```

Let's Not Forget Ruby

Ruby 2.5 / 2.6

- 2017 - Ruby 2.5   /   2018 - Ruby 2.6

- Focus on performance

- New JIT compiler

Cool Pipelines

```ruby
1  "data.csv"
2      .then {|name| File.expand_path(name, __dir__) }
3      .then {|fullname| File.read(fullname) }
4      .then {|data| CSV.parse(data) }
5      .map {|row| row[1].to_i }
6      .sum
```

Delete Suffix / Prefix

```
 1 > "demo.txt\n".chomp
 2 "demo.txt"
 3
 4 > "demo.txt\n\n".chomp("")
 5 "demo.txt"
 6
 7 > "demo.txt".delete_suffix('.txt')
 8 "demo"
 9
10 > "demo.txt".delete_prefix('demo.')
11 "txt"
```

Can Merge Multiple Hashes

```
1 > {}.merge({a: 10, b: 20}, {c: 30}, {d: 40})
2 => {:a=>10, :b=>20, :c=>30, :d=>40}
```

Hash#transform_keys

```ruby
1 hash = { a: 1, b: 2 }
2 hash.transform_keys { |k| k.to_s }
3 #=> { 'a' => 1, 'b' => 2 }
```

Enumerable#to_h

```ruby
hash = { a: 1, b: 2 }
hash.to_h { |k, v| [k, v + 1] }

=> { a: 2, b: 3 }
```

Array#difference

```
[1, 1, 2, 2, 3, 3, 4, 5 ].difference([1, 2, 4])
=> [ 3, 3, 5 ]
```

Q & A

Thanks For Listening

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