LEARNINGS FROM CONTRIBUTING TO OPEN SOURCE PROJECT(S) 🤩

COCOAHEADS, SHANGHAI

👨‍💻

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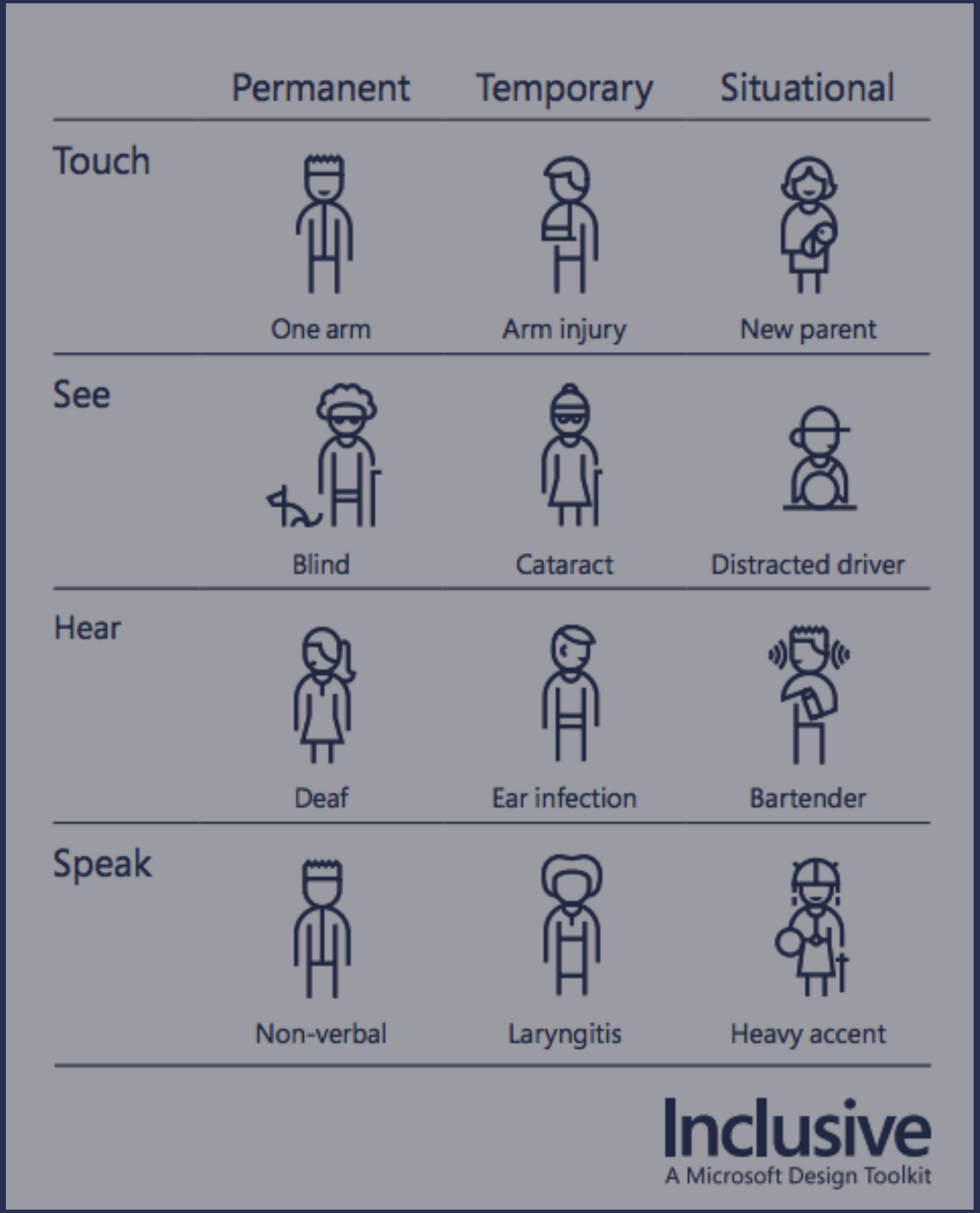
UIACCESSIBILITY

~💯



	Permanent	Temporary	Situational
Touch	One arm	Arm injury	New parent
See	Blind	Cataract	Distracted driver
Hear	Deaf	Ear infection	Bartender
Speak	Non-verbal	Laryngitis	Heavy accent

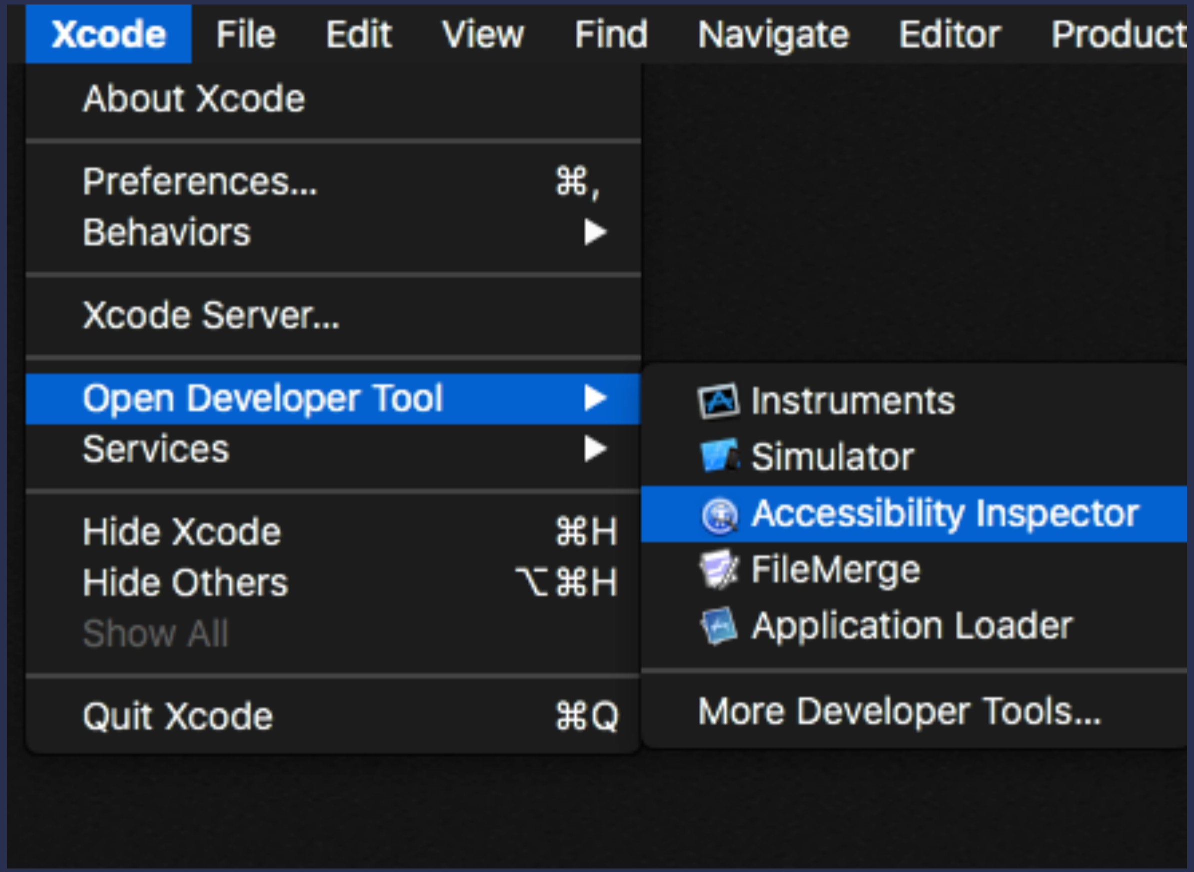
Inclusive
A Microsoft Design Toolkit

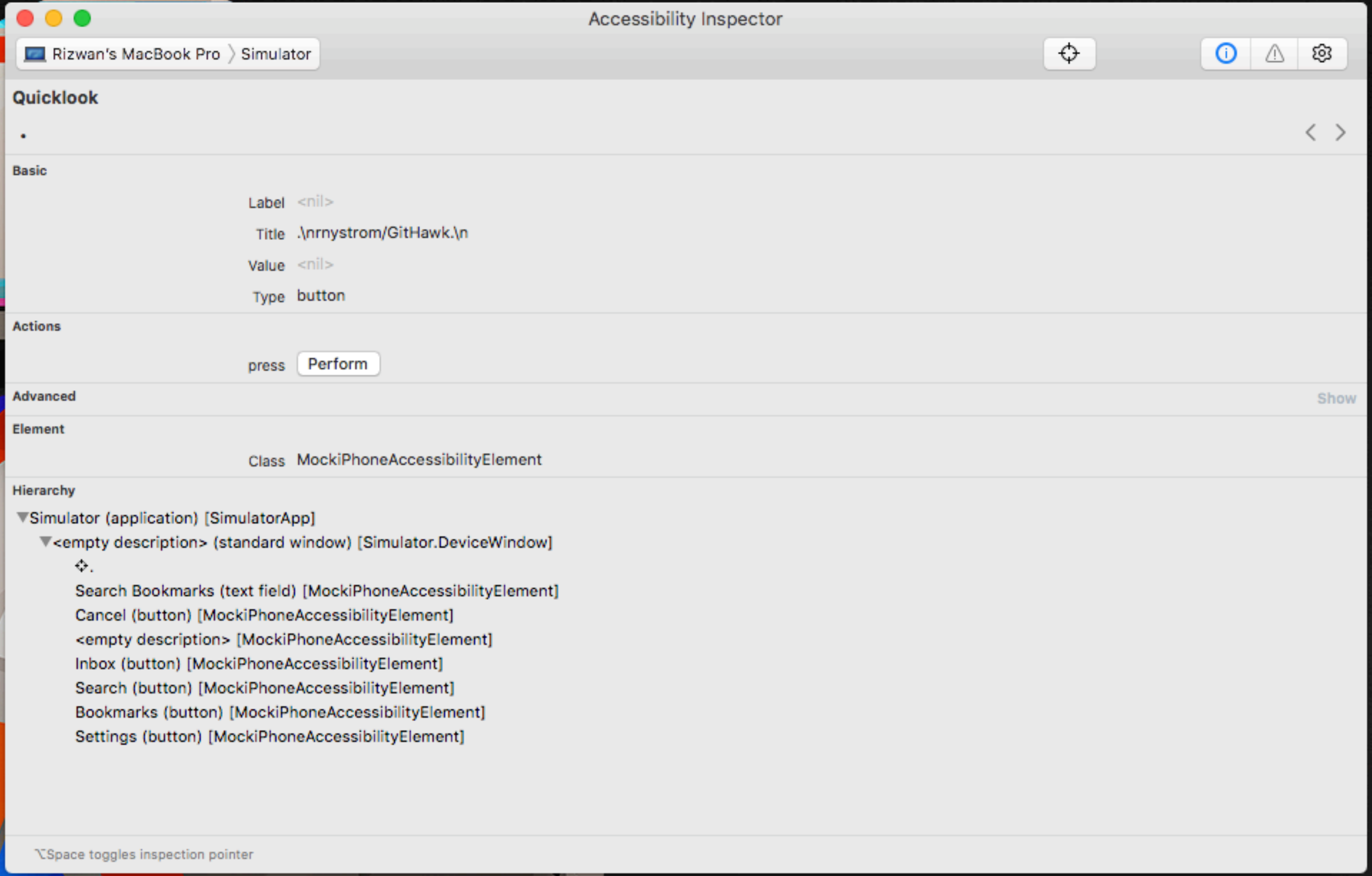
MAKE ALL YOUR TABLEVIEW/ COLLECTIONVIEW CELLS ACCESSIBLE

```
class CustomCell: UICollectionViewCell {
    override init(frame: CGRect) {
        super.init(frame: frame)
        accessibilityTraits |= UIAccessibilityTraitButton
        isAccessibilityElement = true
    }

    var accessibilityLabel: String {
        return contentView.subviews
            .flatMap { $0.accessibilityLabel }
            .reduce("") { "\($0).\n\($1)" }
    }
}
```

TEST ACCESSIBILITY


Xcode
File
Edit
View
Find
Navigate
Editor
Product
About Xcode
Preferences... ⌘,
Behaviors ▶
Xcode Server...
Open Developer Tool ▶
Services ▶
Hide Xcode ⌘H
Hide Others ⌥⌘H
Show All
Quit Xcode ⌘Q
Instruments
Simulator
Accessibility Inspector
FileMerge
Application Loader
More Developer Tools...



Accessibility Inspector

Rizwan's MacBook Pro 〉 Simulator

Quicklook

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Basic

Label <nil>

Title .\nrnystrom/GitHawk.\n

Value <nil>

Type button

Actions

press Perform

Advanced Show

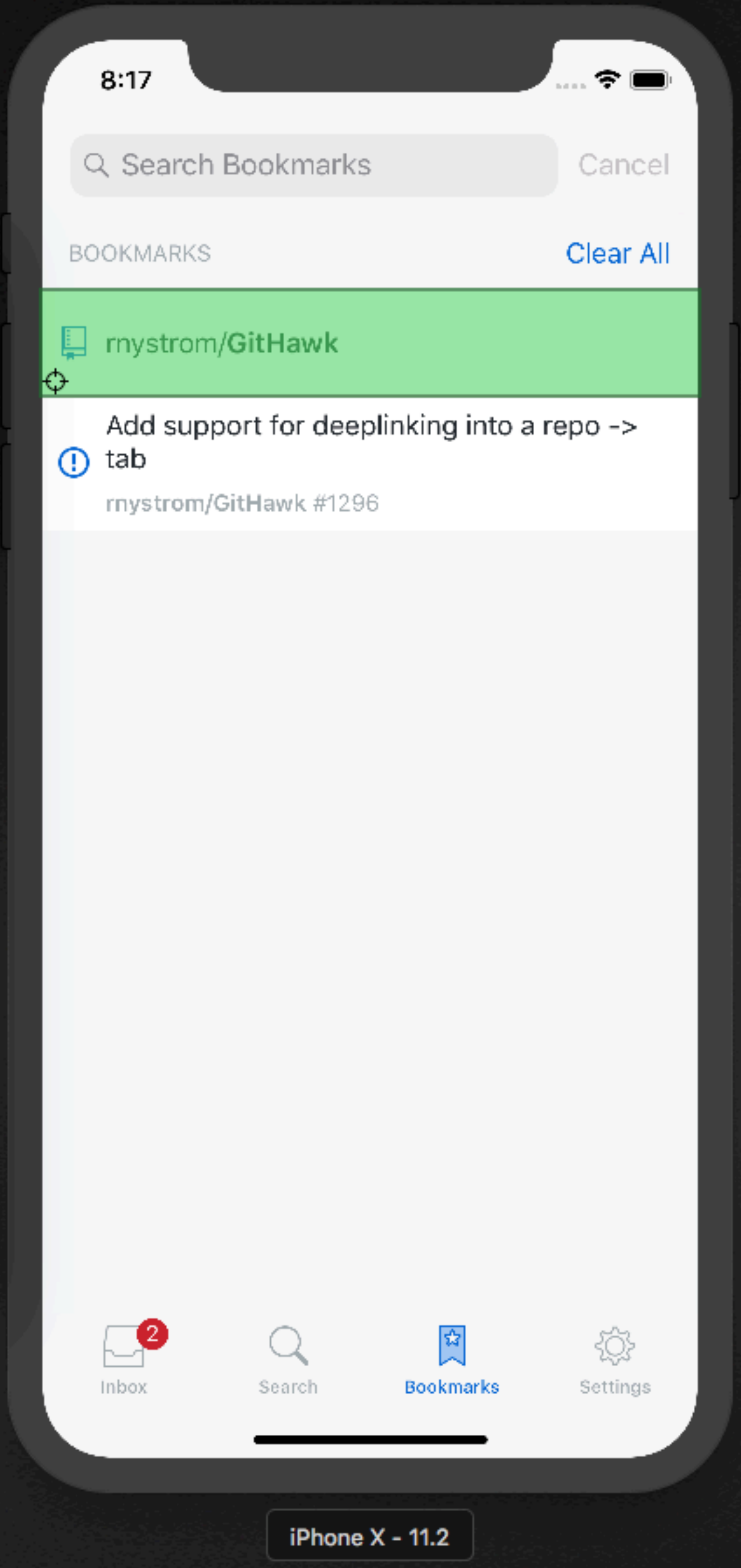
Element

Class MockiPhoneAccessibilityElement

Hierarchy

```
▼Simulator (application) [SimulatorApp]
  ▼<empty description> (standard window) [Simulator.DeviceWindow]
      ⌖.
      Search Bookmarks (text field) [MockiPhoneAccessibilityElement]
      Cancel (button) [MockiPhoneAccessibilityElement]
      <empty description> [MockiPhoneAccessibilityElement]
      Inbox (button) [MockiPhoneAccessibilityElement]
      Search (button) [MockiPhoneAccessibilityElement]
      Bookmarks (button) [MockiPhoneAccessibilityElement]
      Settings (button) [MockiPhoneAccessibilityElement]
```

⌥Space toggles inspection pointer



8:17

Search Bookmarks Cancel

BOOKMARKS Clear All

rnystrom/GitHawk

Add support for deeplinking into a repo -> tab

rnystrom/GitHawk #1296

Inbox 2 | Search | Bookmarks | Settings

iPhone X - 11.2

GRAPHQL

A query language for APIs and a runtime for fulfilling those queries

REST

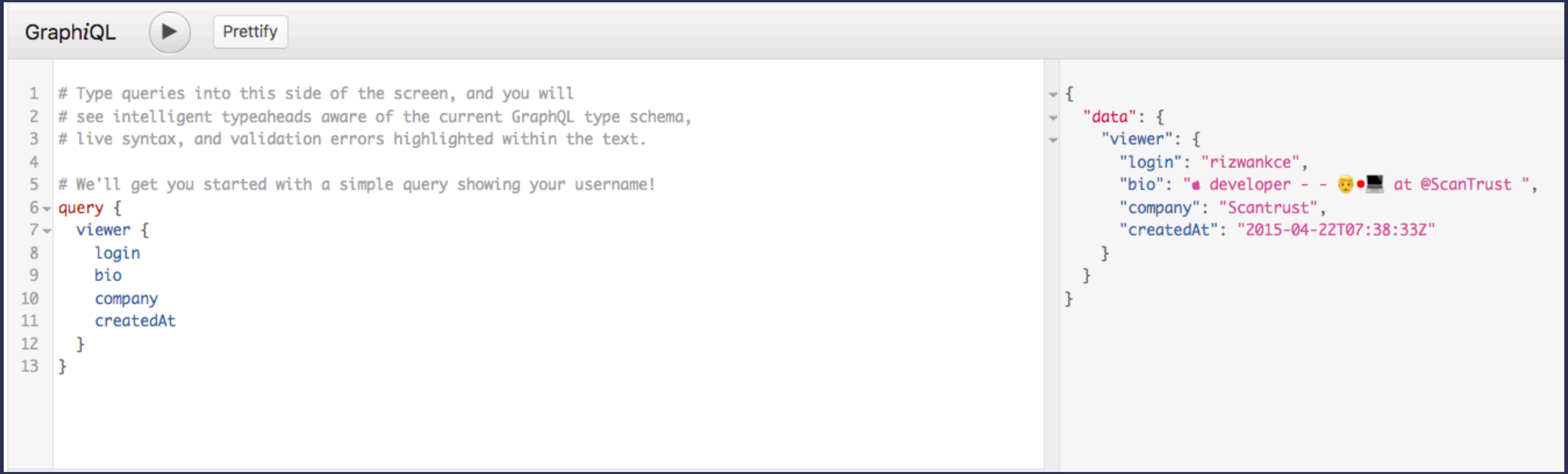
```
GET https://server-url/api/v1/user

{
    "login": "rizwankce",
    "bio": " developer - - 👨‍💻 at @ScanTrust ",
    "company": "Scantrust",
    "createdAt": "2015-04-22T07:38:33Z"
}
```

GRAPHQL

```
{
  viewer {
    login
    bio
    company
    createdAt
  }
}
```

```
{
  "data": {
    "viewer": {
      "login": "rizwankce",
      "bio": " developer - - 👨‍💻 at @ScanTrust ",
      "company": "Scantrust",
      "createdAt": "2015-04-22T07:38:33Z"
    }
}
```

https://developer.github.com/v4/explorer/



```
# Type queries into this side of the screen, and you will
# see intelligent typeaheads aware of the current GraphQL type schema,
# live syntax, and validation errors highlighted within the text.

# We'll get you started with a simple query showing your username!
query {
  viewer {
    login
    bio
    company
    createdAt
  }
}
```

```
{
  "data": {
    "viewer": {
      "login": "rizwankce",
      "bio": " developer - - 👨🔴💻 at @ScanTrust ",
      "company": "Scantrust",
      "createdAt": "2015-04-22T07:38:33Z"
    }
  }
}
```

APOLLOGRAPHQL IOS

- pod "Apollo"
- npm install -g apollo-codegen
- Add build script
- Create .graphql file
- Use API.swift file

RepoFile.graphql

```
query RepoFile($owner: String!, $name: String!, $branchAndPath: String!) {
  repository(owner: $owner, name: $name) {
    object(expression: $branchAndPath) {
      ... on Blob {
        text
      }
    }
  }
```

```
let query = RepoFileQuery(owner: owner, name: repo, branchAndPath: "\(branch):\(path)")
fetch(query: query) { (result, error) in
    ///...
    ///result?.data?.repository?.object?.asBlob?.text
}
```

🧐 More..

No need for `self`

Interpolation over concatenation

Dependency Injection over Shared Instance

Observer Pattern over delegates

CI/CD with BuddyBuild

`https://github.com/rnystrom/GitHawk/`

HOW TO START CONTRIBUTE TO OSS?

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🔗

https://developer.apple.com/videos/play/wwdc2017/806/

https://developer.apple.com/videos/play/wwdc2017/110/

https://github.com/apollographql/apollo-ios

https://graphql-explorer.githubapp.com

http://blog.githawk.com/2017/09/26/Accessibility-in-GitHawk.html

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