## Swifter.jl

wookyoung noh JuliaCon 2016

### iOS app development tools

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- \* UI Automation but javascript
- \* XCode 7 UI Testing

# Complicated but convenient iOS app development tools

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## A tool for iOS app development

- \* REPL, Jupyter notebook
- \* Scripting
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#### Architecture

\* An RPC Server

\* An RPC Client

#### Architecture

- \* AppConsole: RPC Server
  - Reflection with Swift

- \* Swifter.jl : RPC Client
  - Meta programming with Julia

#### Server-side

- \* AppConsole
  - https://github.com/wookay/AppConsole
  - Demo/
  - notebooks/
  - scripts/

#### Run the Server

AppConsole(initial: object).run()

#### Client-side

\* Swifter.jl

https://github.com/wookay/Swifter.jl

juila> Pkg.add("Swifter")
julia> using Swifter

## Swifter.jl

- \* initial
- \* @query

## Swifter.jl – initial

#### initial(url)::QueryResult

Create an endpoint by connecting

to the AppConsole Server

## Swifter.jl – @query

#### @query(expr)::QueryResult

- Query to excute the expressions

#### Demo

- \* REPL
- \* Jupyter notebook
- \* Scripting

## REPL

## Jupyter notebook

## Scripting

#### Summary

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- \* Waiting for SwiftCall.jl

## Q & A

## Thanks