Swifter.jl

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https://github.com/wookay

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iOS app development tools

* Debugging with LLDB
* UI Automation but javascript
* XCode 7 UI Testing

Complicated but convenient
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A tool for iOS app development

* REPL, Jupyter notebook
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julia

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

* Tool language
  – has flexible expressions
  – has to be consistent in
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* Tool language
  - has flexible expressions
  - has to be consistent in
    REPL and Scripting
* Waiting for SwiftCall.jl

Q & A

Thanks