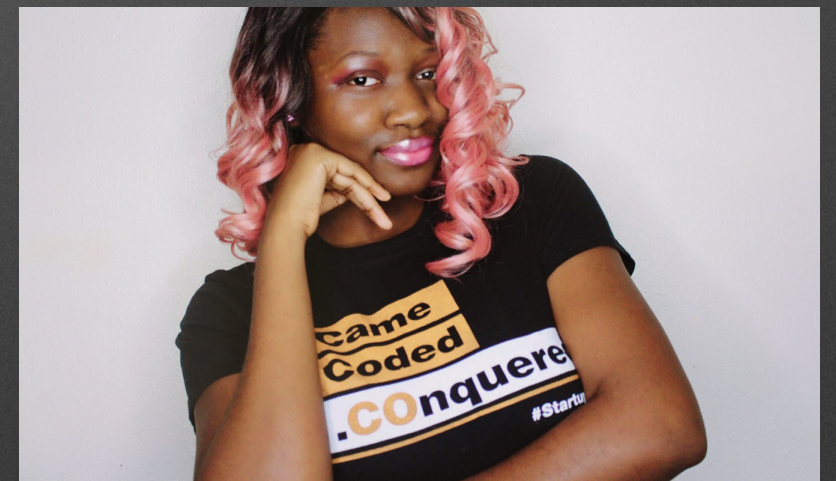


Let's Go Serverless with Swift using Vapor



Timirah James
Clouldinary
Developer Advocate







Rundown:

- *The progression of the Swift language*
- *Swift vs. Your favorite backend language*
- *Benefits of Swift End-to-End*
- *An Intro to Vapor*
- *Building a Serverless App with Swift*

Evolution

2014... Swift was born!!!



What made it so sexy?

- *Catchy syntax for MOST programmers (JavaScript, Python, C++)*
- *Fair transition from Obj-C*
- *Prevents Huge Memory Leaks*
- *Faster Performance*

2015...Open Sourced Swift!!!



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apple / swift

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Code Pull requests 566 Security Insights

The Swift Programming Language <https://swift.org>

88,864 commits 232 branches 1,199 releases 706 contributors Apache-2.0

Branch: master New pull request Create new file Upload files Find File Clone or download

xedin Merge pull request #26165 from xedin/move-single-tuple-param-splat Latest commit 9ff887b 4 hours ago



Almost 90k commits



Over 700 contributors

Syntax Evolution

2015

Swift 2+

guard / guard let

Protocol Extensions

2016

Swift 3+

Function parameter labels

Attributes for C functions

2017

Swift 4+

Codable Protocol

Conditional Conformances

In 2019, Swift 5+

ABI Stability

Application Binary Interface





Nahh.

Swift vs. Your Favorite Backend Language



What's your priority as a dev?

Performance

Swift > Node.JS

Swift > Ruby

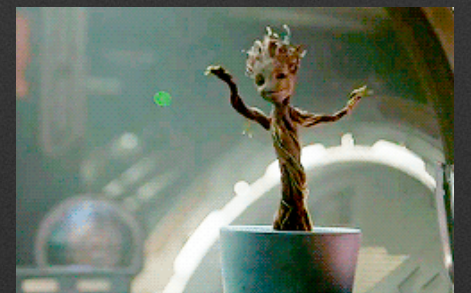
<https://benchmarksgame-team.pages.debian.net/benchmarksgame/>

Swift > Java

Why Server-Side Swift?..

- Enables you to use Swift to create RESTful APIs to build your own backend service!
- Gives you full control over handling and transferring data from applications to a server, using an API.
- Creating full web applications using Swift and Xcode

Full-Stack Swift!!



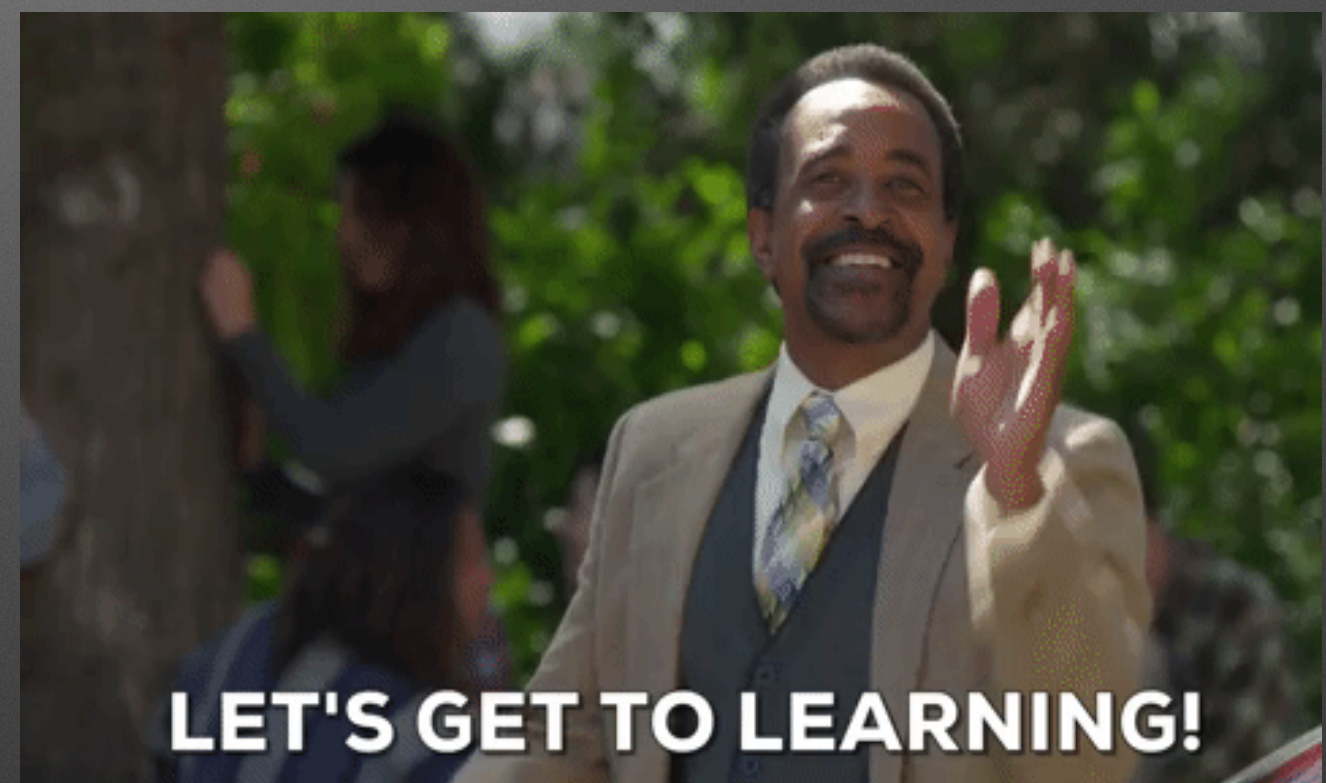
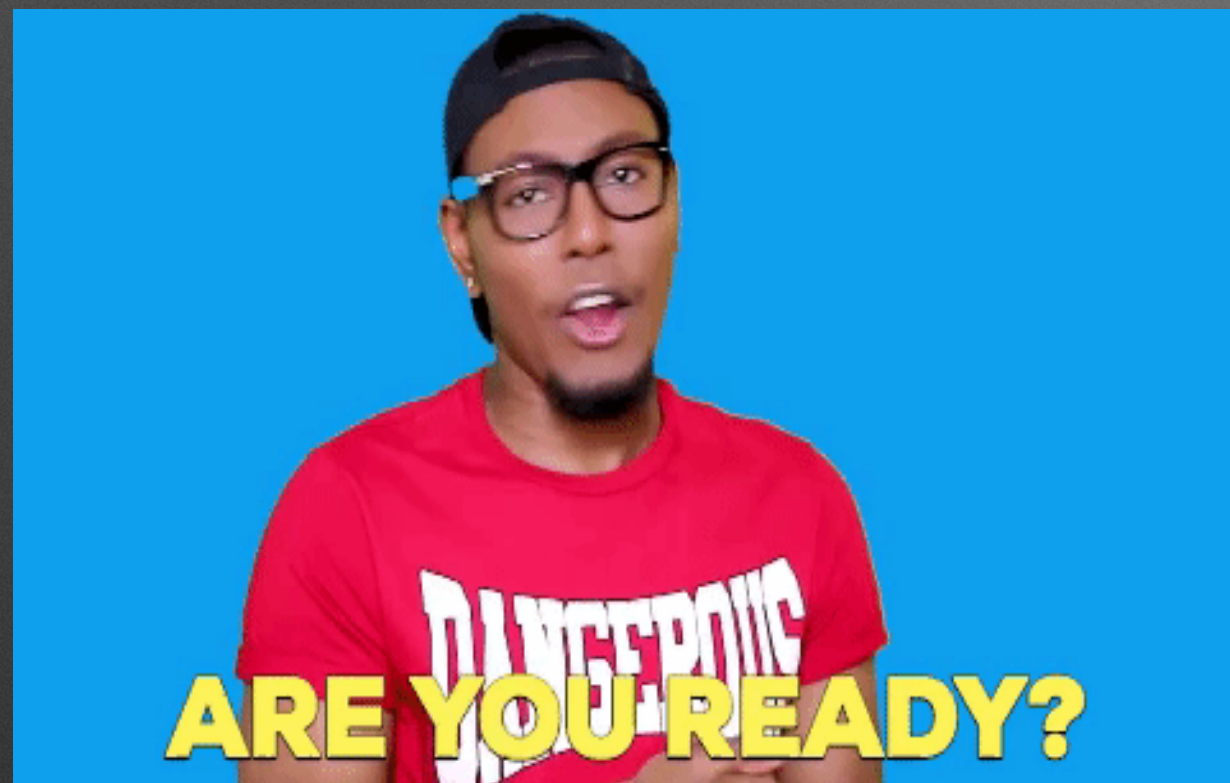


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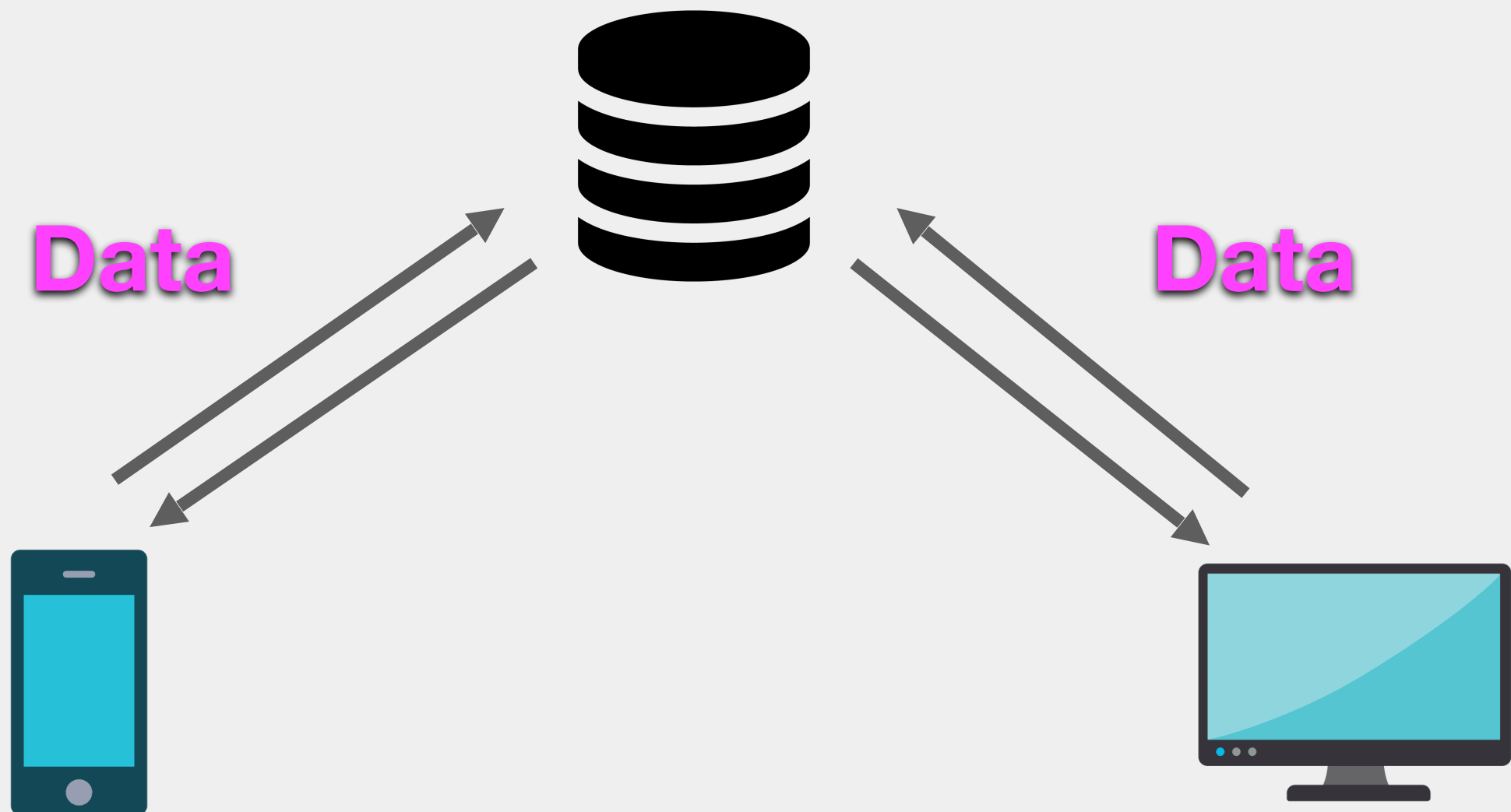
Let's Get Started!





- *Large responsive community*
- *Speed*
- *Easy to use*

What can Vapor Do?





A tool used for building ORMs (object relational mapping) tool that handles database interactions.



Leaf is a templating library that allows us to make HTML-like pages and render them using Vapor.

Let's Try It Out!

(Vapor Demo)

<https://github.com/timirahj/Server-Side-Swift-using-Vapor-Talk>

Review

- *The progression of the Swift language*
- *Swift vs. Your favorite backend language*
- *Benefits of Swift End-to-End*
- *Vapor*
- *Built a Serverless Web App with Swift*

Future & Potential

Resources

Documentation: vapor.codes

Video Courses: [Vapor Academy](#)

Repo: <https://github.com/vapor/vapor>



Them: So what kinds of things to you build?..

Swift Devs: YES.

Thank You!

[Tweet Me!](#)

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