

Xamarin ❤ Realm

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#interopmix



.NET
NATIVE
EVERYWHERE
OPEN SOURCE



williamsrodz



Xamarin
MOST VALUABLE
PROFESSIONAL



MVP
Most Valuable
Professional



.NET CURITIBA

Organizador

meetup.com/.NET-Curitiba



MONKEY NIGHTS

Organizador (um dos)

fb.com/MonkeyNightsDevs

Mobile storage precisa ser

Rápido;

Inteligente;

Seguro;

O que podemos usar?

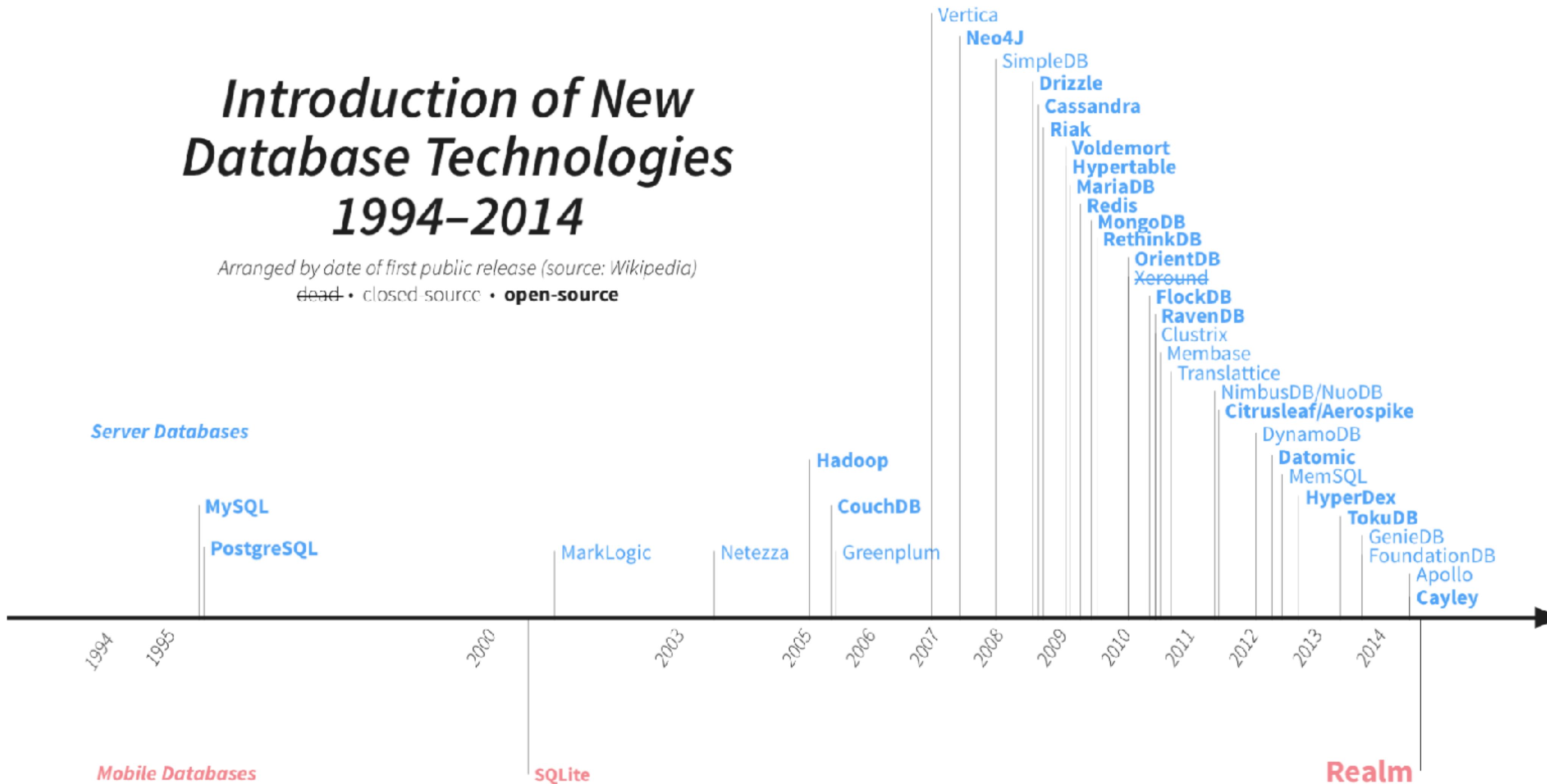
Serialização de objetos (Json);

SQLite;

Core Data (iOS);

Introduction of New Database Technologies 1994–2014

Arranged by date of first public release (source: Wikipedia)
~~dead~~ • closed-source • **open-source**



30 ti entes





realm

O que é Realm?

Anunciado em julho de 2014;

Pensado para mobile (implementado do zero, baseado no modelo ORM);

Performático, thread-safe;

O que é Realm?

API simples e bem documentada;

Construído com C++;

Open Source (+-)

Quanto custa?

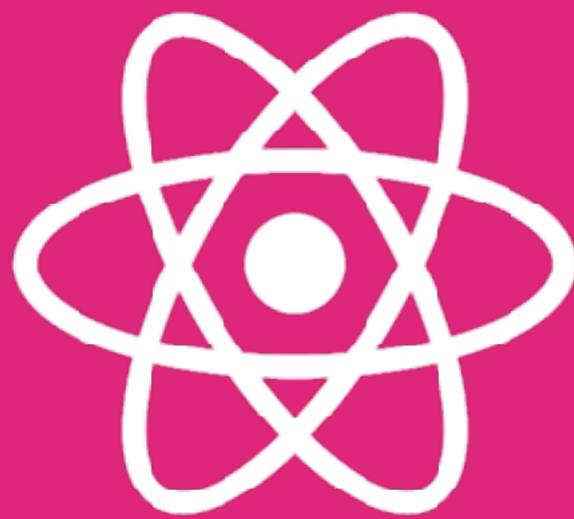


IT'S
FREE

Cross Platform



[c]



O que me fez olha com carinho para Realm?

Facil de usar;

Object conversion manipulados para você;

Time de desenvolvimento interage com a
comunidade;

Conveniente para criar e armazenar dados on the fly;

Mais rápido que SQLite

Criando um Schema

SQLite

```
CREATE TABLE `person` {  
  `id` INTEGER NOT NULL,  
  `identifier` VARCHAR(80) NOT NULL,  
  `name` VARCHAR(50) NOT NULL,  
  `email` VARCHAR(150) NOT NULL,  
  `age` INTEGER NOT NULL  
};
```

Criando um Schema

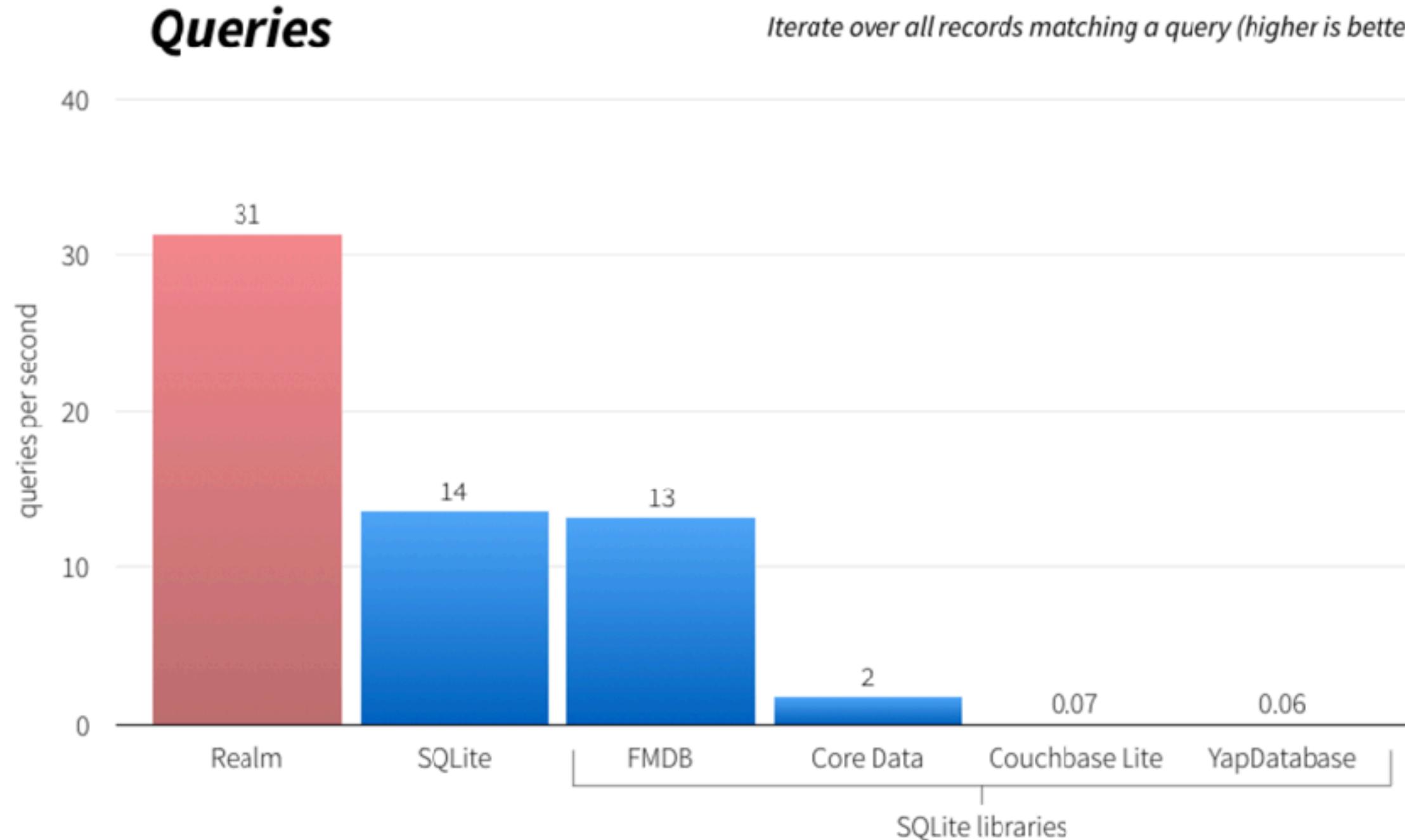
Realm

```
public class Person : RealmObject {  
    public string id {get; set;}  
    public string Name {get; set;}  
    public string Email {get; set;}  
    public int Age {get; set;}  
}
```

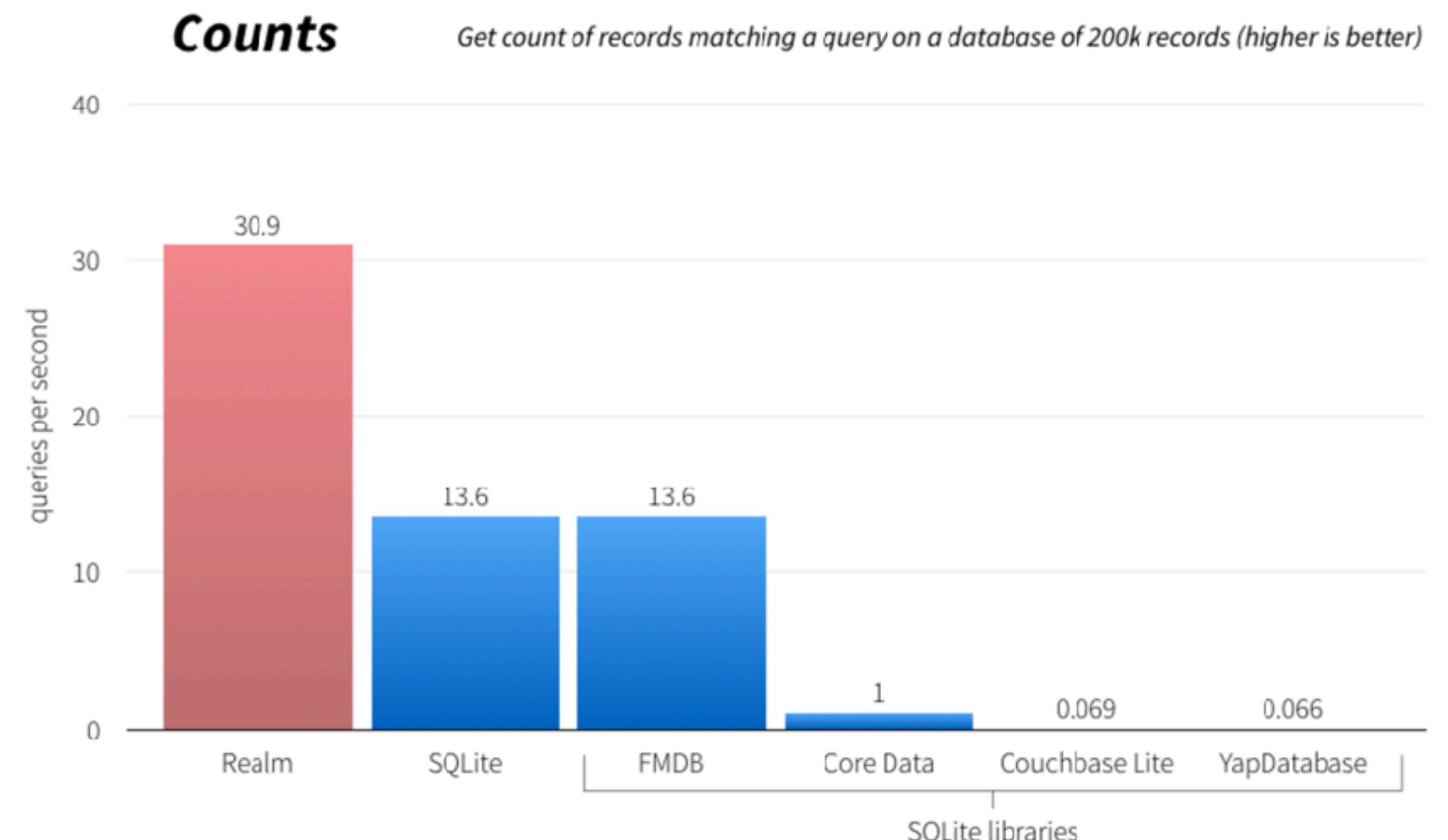
Com Realm seus Models
são seus schemas

Performance

Queries

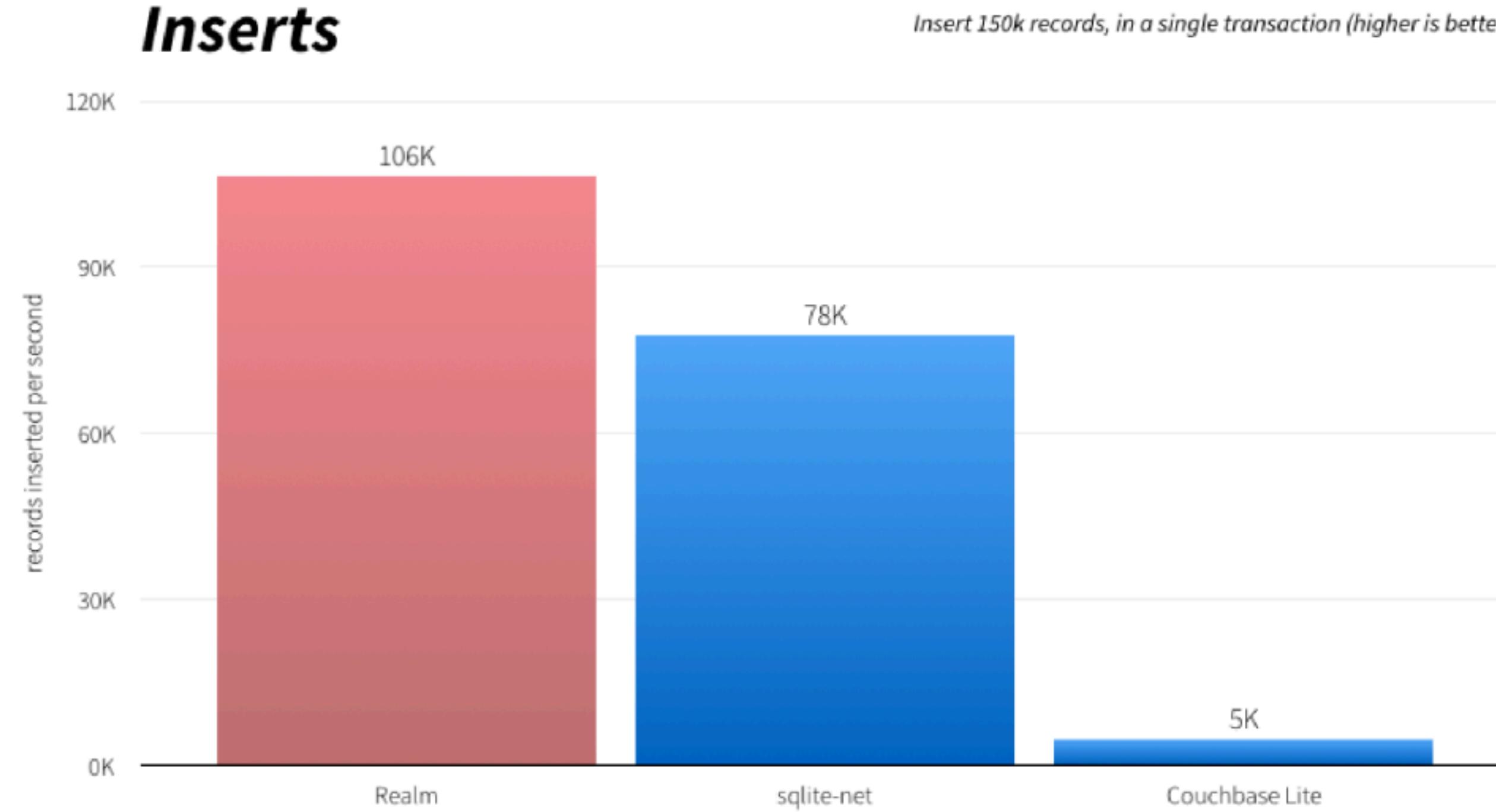


Counts



Performance

Inserts



Quem usa?



Google

hipmunk

STARBUCKS

eBay



HYATT

BBC

GoPro



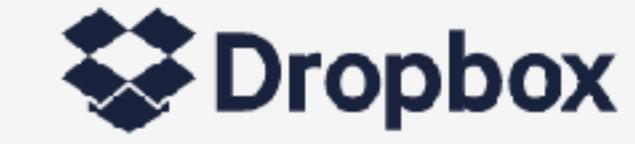
L'ORÉAL



Alibaba



AVIS



cisco

Walmart

Virgin

NIKKEI

IBM

LINE

intuit

Budweiser



zynga

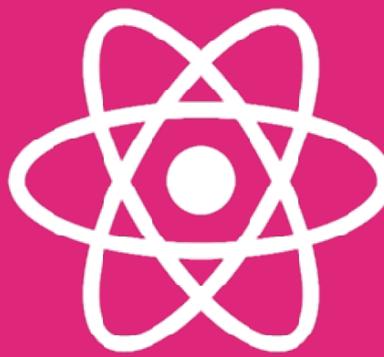
SoftBank

SIEMENS

Realm já está rodando em
mais de meio bilhão de dispositivos.

500,000,000

Como funciona?



Platform

Language Bindings



Core C++

#comofaz?

```
// Define your models like regular C# classes
public class Dog : RealmObject
{
    public string Name { get; set; }
    public int Age { get; set; }
    public Person Owner { get; set; }
}

public class Person : RealmObject
{
    public string Name { get; set; }
    public IList<Dog> Dogs { get; }
}
```

#comofaz?

```
var realm = Realm.GetInstance();

// Use LINQ to query
var puppies = realm.All<Dog>().Where(d => d.Age < 2);

// => 0 because no dogs have been added yet
puppies.Count();

// Update and persist objects with a thread-safe transaction
realm.Write(() =>
{
    var myDog = realm.CreateObject<Dog>();
    myDog.Name = "Rex";
    myDog.Age = 1;
});
```

#comofaz?

```
// Queries are updated in realtime  
puppies.Count(); // => 1
```

```
// LINQ query syntax works as well  
var oldDogs = from d in realm.All<Dog>() where d.Age > 8 select d;
```

DEMO



Quer saber mais?



bit.ly/xamarin-talks

A screenshot of a GitHub repository page for 'williamsrz / xamarin-talks'. The page shows a list of recent commits:

Commit	Message	Time Ago
Droid	downgrade realm version (demo first) 💩	5 hours ago
Models	admin sleep 😴	4 hours ago
Pages	search 🔎	4 hours ago
Properties	initial commit 💀	11 hours ago
Service	admin sleep 😴	4 hours ago
Tools	downgrade realm version (demo first) 💩	5 hours ago
ViewModels	search 🔎	4 hours ago

realm.io

The screenshot shows the official website for realm.io. The header features the company logo and navigation links for Products, Community, News, Docs, Pricing, Contact, and a language selector. The main tagline "Build better apps, faster." is prominently displayed. Two main product sections are shown: "Realm Mobile Database" (fully open source, free, loved by 100k developers) with a "Free Download" button, and "Realm Mobile Platform" (client and server data platform, available for macOS and Linux). Both sections include developer logos for Android, C, React Native, Swift, and Xcode.

realm

Products Community News Docs Pricing Contact

Build better apps, faster.

Realm Mobile Database

Fully open source. Totally free. Loved by 100k active developers. Client-side database.

Free Download

Android [C] React Native Swift Xcode

Realm Mobile Platform Beta

Build realtime collaboration, offline-first experiences and more. Client and server data platform.

Download the Developer Edition

Available for Free

macOS Linux

developer.xamarin.com

The screenshot shows a web browser window displaying the Xamarin developer website (developer.xamarin.com). The page has a dark blue header with the Xamarin logo and navigation links for Products, Customers, Pricing, Developers (which is highlighted in blue), Support, Resources, and Sign In. Below the header is a light gray navigation bar with links for Welcome, Guides, Recipes, APIs, Samples, Forums, Components, and Videos, along with a search bar. The main content area features a large image of a laptop screen showing a mobile application interface, with text overlaying it: "Xamarin University Self-Guided Learning" and "Free video courses to help you get started with Xamarin". To the right, there are two cards: one for "iOS 10 Support" showing the iOS 10 logo, and another for "Android 7 Nougat" showing the Android 7 Nougat logo.

Xamarin University Self-Guided Learning
Free video courses to help you get started with Xamarin

iOS 10 Support

10

Android 7 Nougat

bit.ly/dotnet-confs

The screenshot shows a GitHub repository interface for a project named 'dotnet-confs'. The repository has a single branch, 'master', with one commit from 'williamsrz' updating the 'README.md' file. The repository also contains a 'LICENSE' file. The README content is as follows:

Conferências, Meetups e eventos de tecnologia relacionados ao .NET

Sobre

Todo mundo sabe como é complicado acompanhar e ficar sabendo de onde e quando estão acontecendo, meetups, conferências e eventos de tecnologia relacionadas a plataforma .NET.

Coçando a minha própria coceira, resolvi criar esta lista com o objetivo de ser um index e facilitar a sua e a minha vida, ela é dividida em:

meetup.com/net-curitiba

A screenshot of a web browser displaying the .NET CURITIBA Meetup group page on [meetup.com](https://www.meetup.com/net-curitiba). The page features a dark blue header with the group's logo and name. Below the header is a navigation bar with links for Home, Members, Sponsors, Photos, Pages, Discussions, More, Group tools, and My profile. The main content area includes a sidebar with the group photo, a welcome message, a schedule section, and a 'What's new' section with event photos.

learn / build / share

•NET
CURITIBA

Home Members Sponsors Photos Pages Discussions More Group tools My profile

Welcome!

+ Schedule a new Meetup

Upcoming (1) Past Calendar

GLOBAL AZURE BOOTCAMP 2017 CURITIBA

Universidade Positivo Câmpus Praça Osório
Praça Gen. Osório, 125. Sala 504 - Centro, Curitiba
(map)

Sat Apr 22
9:00 AM

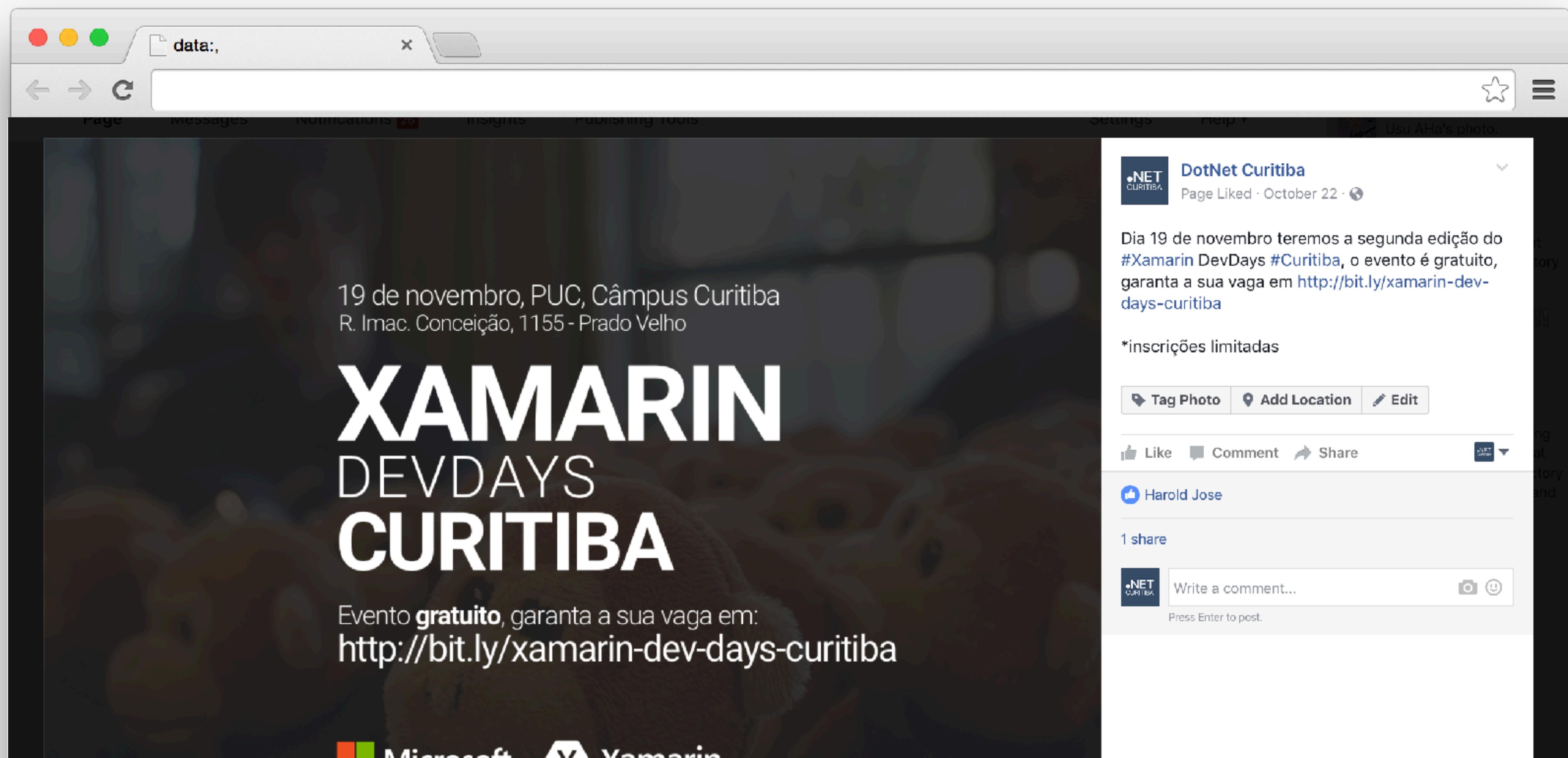
I'm going
3 going

Change photo

Curitiba, Brazil

Created Apr 11, 2013

bit.ly/xamarin-dev-days-curitiba



Dúvidas?



Obrigado





@williamsrodz