

삼성 오픈소스 컨퍼런스

SAMSUNG OPEN SOURCE CONFERENCE

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글로벌요픈소스기업Realm, 개발자문화로살아남기

Realm SW Engineer 박민우

박민우 Minwoo Park



tebica



- 개발자 8년 / 에반젤리스트 4년
- 개발자 이고 싶고 같이 어울리는 것을 좋아합니다.
 OSCON & DEVIEW & H3 & Pycon KR 등 발표자, 운영자로 활동
- Python, HTML/CSS/JS. C, Java, PHP

Realmis.

Realm은 모바일 데이터베이스입니다

Realm은 SQLite와 Core Data를 대체하여 사용할 수 있습니다. 수천줄의 코드와 몇주의 업무 시간을 줄이고 뛰어난 사용자 경험을 만드는데 집중할 수 있습니다.





Swift

Android

Easy to use

Realm Object는 일반적인 Object처럼 쓸 수 있고

쉽게 데이터를 저장하고

```
Realm realm = Realm.getInstance(this.getContext());

// Transactions give you easy thread-safety
realm.beginTransaction();
Dog dog = realm.createObject(Dog.class);
dog.setName("Rex");
dog.setAge(3);
realm.commitTransaction();

Swift Objective-C Java
```

다양한 방법으로 쿼리하고

모델 관계를 맺을 수 있습니다.

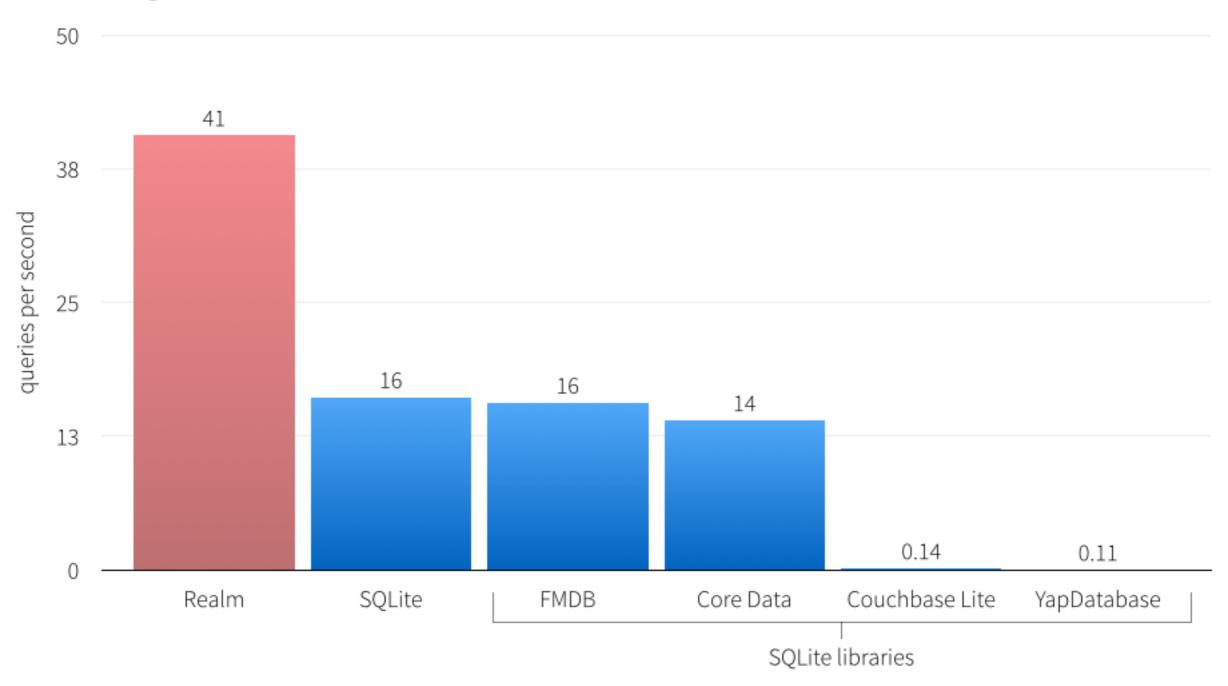
```
public class Person extends RealmObject {
    private String name;
    private RealmList<Dog> dogs;
}

realm.beginTransaction();
Dog mydog = realm.createObject(Dog.class);
Person person = realm.createObject(Person.class);
person.setName("Tim");
person.getDogs().add(mydog);
realm.commitTransaction();
Swift Objective—C Java
```

Fast



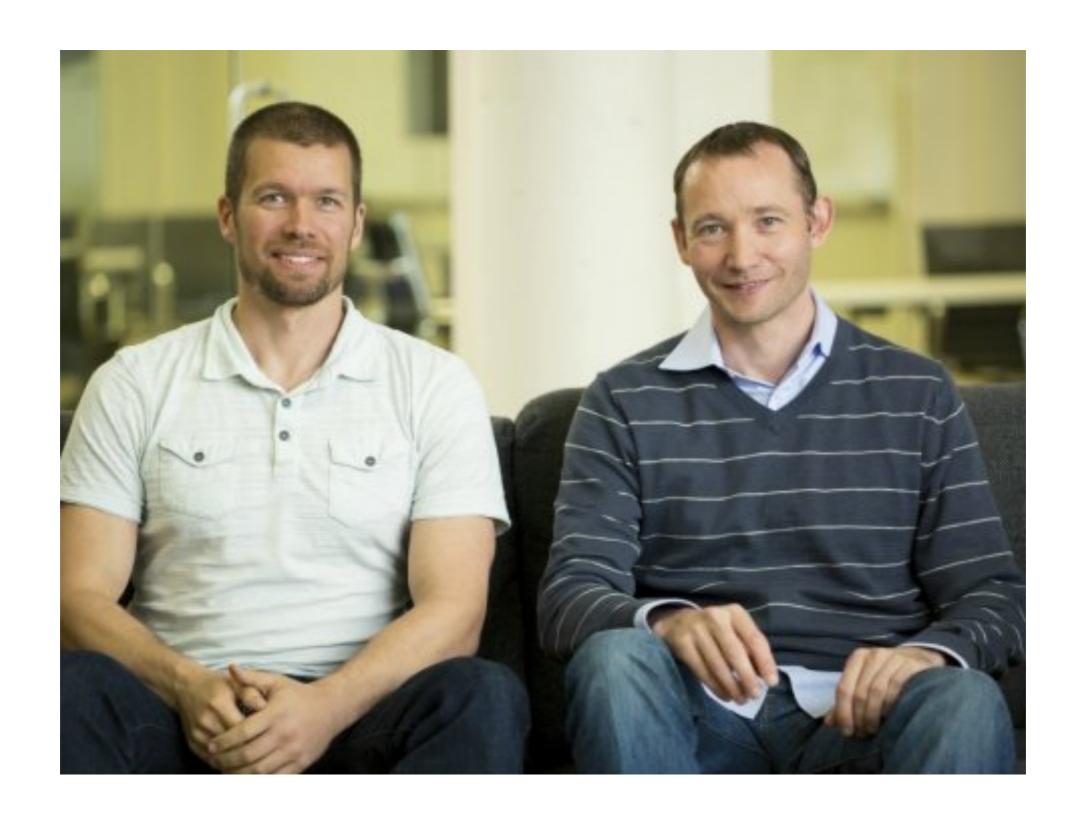
Iterate over all records matching a query (higher is better)



Features for mobile developers

실리콘밸리스타트업

미국, 덴마크, 호주, 독일, 영국, 한국, 중국, 일본..



Combinator

tightDB

born July 15th, 2014

Jul 15, 2014

Introducing Realm

a mobile-first database





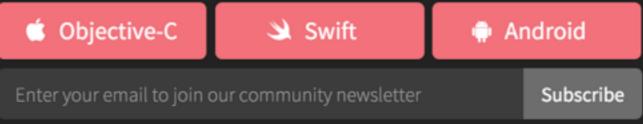






Growing fast

Realm is a mobile database hundreds of millions of people rely on



Sign up for our community newsletter to hear about Realm tutorials, events, tips & more!

Google











AVIS











ĽORÉAL

























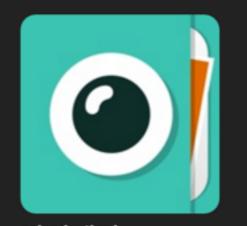
카카오헬로 연락처,전화,스팸앱을 하 나로



네이버폴라 인기 있는 태그와 사진



리디북스 대한민국 최대 eBook



싸이메라 1억 5천만 사용자와 함께 하는 셀카 사진 편집앱



CJmall 매일 새로운 핫딜과 쿠폰 할인 혜택!



올리브영 대한민국 NO.1 헬스&뷰티 스토어 올리브영.



인터파크 항공 전세계 할인항공권 예약



마트모어 이마트, 홈플러스, 롯데마 트 가격 추적기



헬로마켓 개인들의 직거래 중고장터



망고플레이트 맛집추천 서비스



아이디어스 핸드메이드/수공예 장터



Works Mobile 드라이브 네이버 서비스의 친숙한 사 용성 드라이브



캐시슬라이드 1등 잠금화면, 캐시슬라이 드! 모바일 혜택의 시작



Retrica 기억에 색을 덧입히는 카메 라앱



Zikto 웨어러블과 연결하여 건강 트래킹



파크히어 주차장 실시간 검색 & 할인 예약



인천공항 가이드 인천공항 가이드



ㅠㅌㅆㅌ킈

HOURLE LALE



STATISTICS





★ FOLLOW

TOP CONTRIBUTORS







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Overview UPDATE

Funding Received

\$29M in 3 Rounds from 13 Investors

Most Recent Funding

\$20M Series B on March 24, 2015

Headquarters: San Francisco, CA

Realm, a mobile database, enables its users to develop applications that are Description:

fast and craft amazing user experiences.

Founders: Bjarne Christiansen, Alexander Stigsen

Databases, Mobile, Mobile Software Tools, Software, Developer Tools Categories:

http://realm.io/ Website:

Social:

Company Details

UPDATE

Founded: 2011

Employees: 5 in CrunchBase

Realm (formerly tight.db) is a mobile database that enables its users to develop applications faster, develop applications that are fast, and craft amazing user experiences. Realm is a replacement for SQLite & Core Data. It can save users thousands of lines of code & weeks of work, and lets them craft amazing new user experiences. It is a Y Combinator company, headquartered in San Francis

See More

Ycombinator, Khosla ventures ...

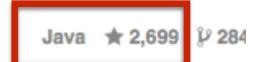
And of course...

Open source https://github.com/realm/

realm-java

Realm is a mobile database: a replacement for SQLite & ORMs

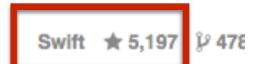
Updated 5 hours ago



realm-cocoa

Realm is a mobile database: a replacement for Core Data & SQLite

Updated 20 hours ago

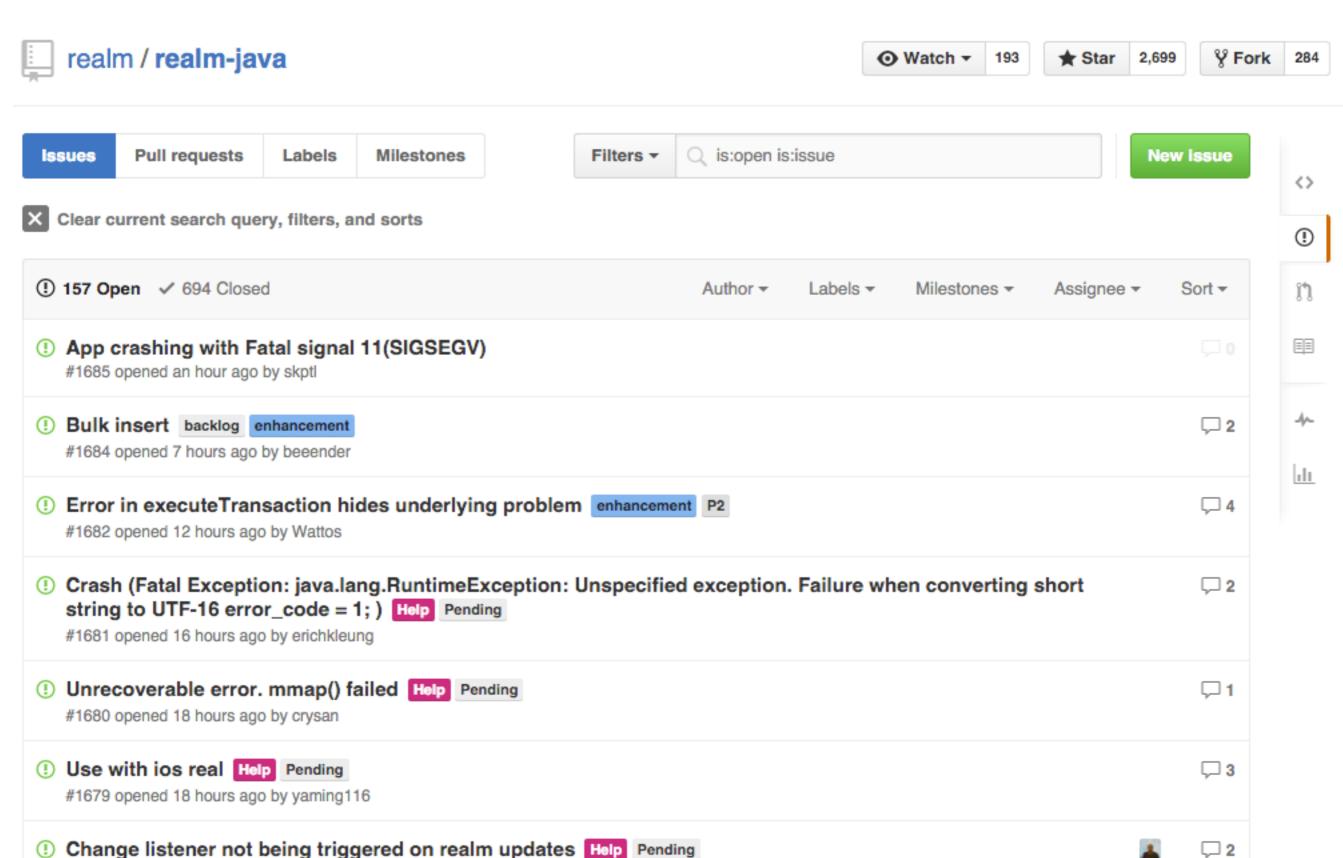


License

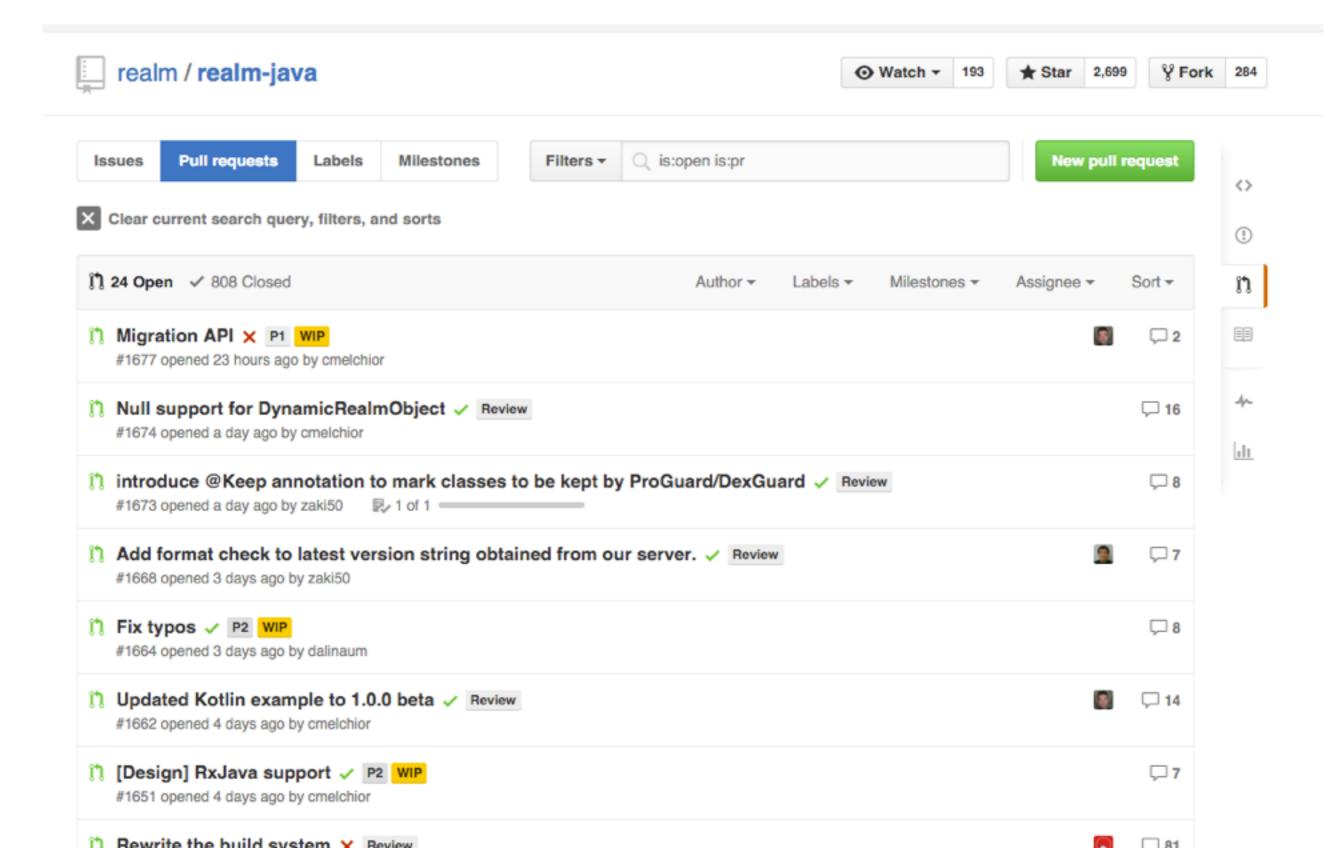
Realm Java is published under the Apache 2.0 license.

The underlying core is available under the Realm Core Binary License while we work to open-source it under the Apache 2.0 license.

No hidden issue



No hidden PR



오픈소스, 기업?

오픈소스, 기업?

- 오픈소스 = 무료
- 기업
 - 영리(營利)를 얻기 위하여 재화나 용역을 생산하고 판매하는 조직체.

가장 많이 듣는 질문

Realm은 어떻게

돈을 버나요?

오픈소스 기업들의 수익모델

Support & Consulting

- 큰 돈을 벌기는 힘들다.
- Too much competition, too little margins
- 아주 성공한 제품만 가능 Red Hat or MySQL....?
- 가장 생각하기 쉬운 모델. 앞으로도 계속 존재할 모델
- 꾸준한 니즈: Oracle 에서 PostgreSQL로 가고 싶은데…

Customization

- 스폰서 관계와 함께 진행
- 오픈소스를 스폰서 회사의 니즈에 맞게 customization

Duallicensing

- QT, MySQL, SugarCRM
- 오픈소스로 사용 무료, 특정 사업적인 용도로는 유료

오픈소스로 제대로 돈벌기?

- 제품을 만들기 : e.g. GitHub (\$350M funding)
- 하드웨어 관련: e.g. Android phones
- · 업계 표준으로 자리잡기: e.g. Docker

오픈소스로 돈을 '많이' 벌기도 한다





STATISTICS





TOP CONTRIBUTORS









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Overview

UPDATE

Acquisitions

5 Acquisitions

Funding Received

\$162M in 4 Rounds from 9 Investors

Headquarters: San Francisco, California

Description: Docker is an open platform for distributed applications that allows

developers and sysadmins to build, ship & run distributed applications.

Founders: Solomon Hykes

Categories: Software, Open Source, Development Platforms

Website: https://www.docker.com

Social:

Company Details

UPDATE

Founded: January 1, 2010

Contact: info@docker.com

Employees: 101 - 250 | 19 in CrunchBase

Docker, Inc. is the company behind the Docker open source platform, and is the chief sponsor of the Docker ecosystem. Docker is an open platform for developers and system administrators to build, ship and run distributed applications. With Docker, IT organizations shrink application delivery from months to minutes, frictionlessly move workloads between data centers and the cloud and can ...

오픈소스 회사도 돈을 벌기는 번다, IF ...

기본전제: Great product

Great Product를 만들기 위해 우리는..

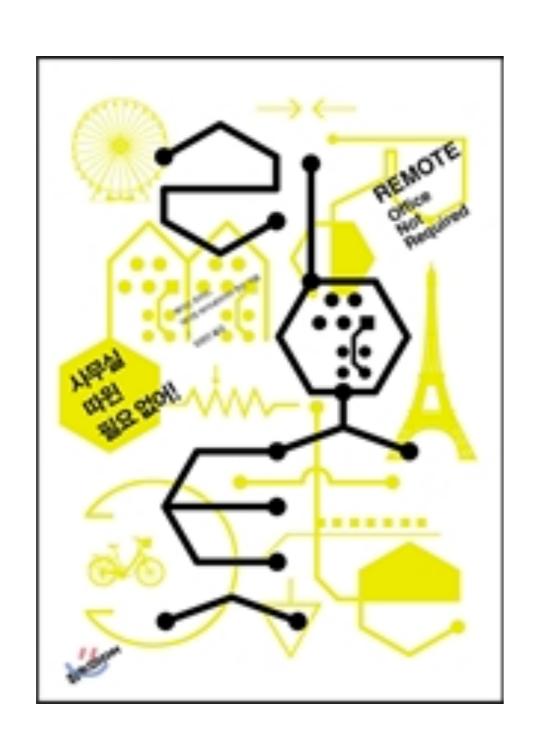
Mission 1

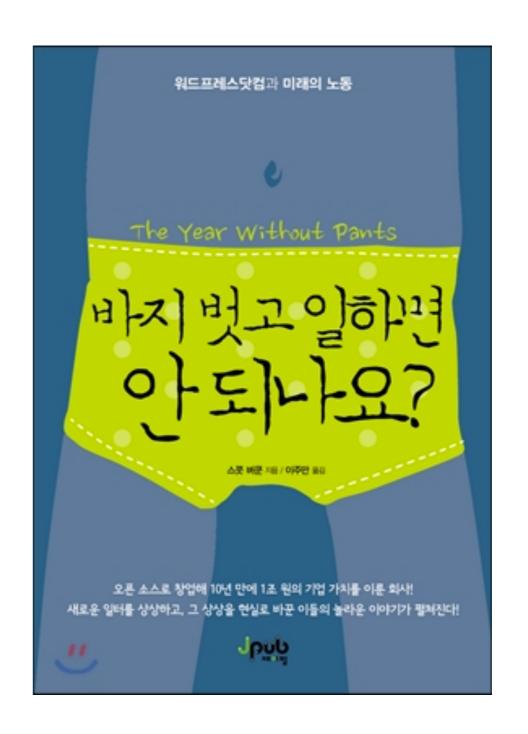
Hiring the best developers over the world

We offer

- 경쟁력 있는 Salary
- 무제한 휴가
- 스톡 옵션
- Flexible working hours
- 오픈소스 contribution

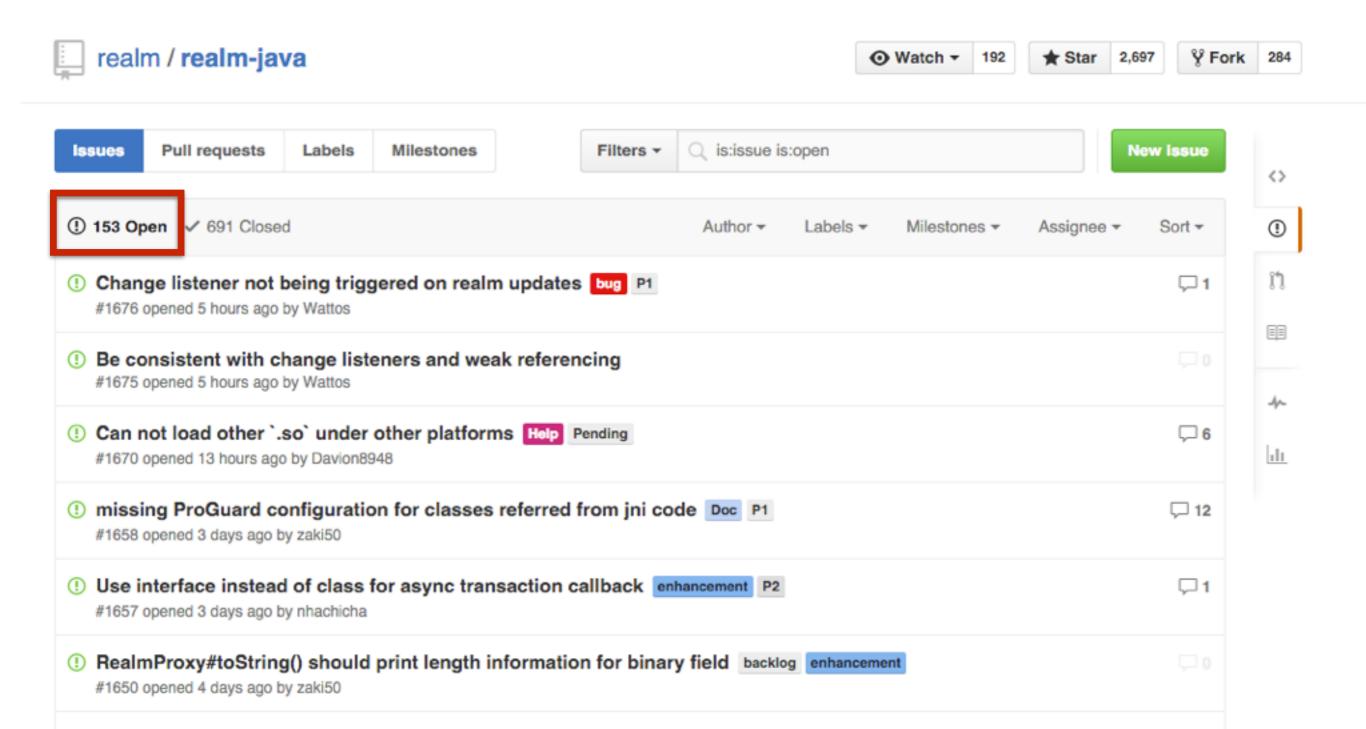
자유로운 근무환경





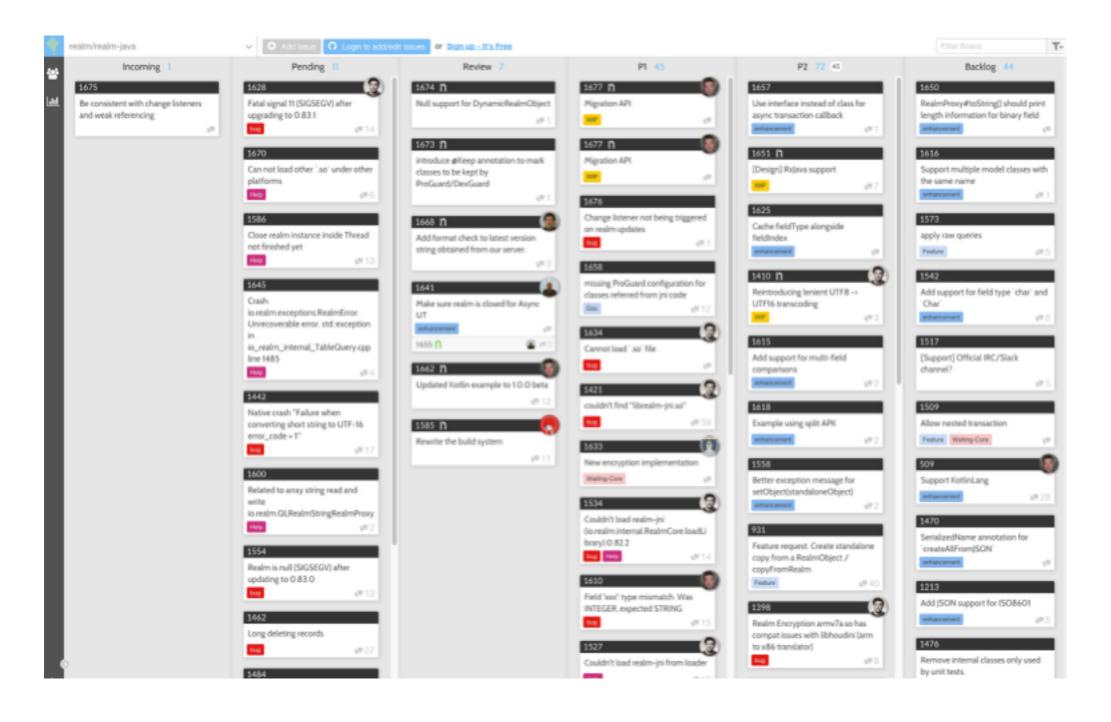
Chance to do what you want

Choose from Github issues



Chance to do what you want

• 물론 우선순위는 있다



Work with community





Ask Question Unanswered



info newest

frequent

votes

active

unanswered

Realm is a mobile database replacement for SQLite & Core Data. It can be used on both Android and iOS devices.

learn more... top users synonyms (1)

votes

isNotNull on a Date column failing 0.82.2

I am reaching out to see if anyone knows if the error is fixed in later versions of Realm since the release notes make mention of changes to Date in 0.83. Or am I just doing something wrong or out of ...





answered 2 hours ago



13 views

answer

0 votes

Realm database object seems empty, but then isn't

I am using Realm for a small, simple project. I'm using the latest version of the framework (compiled from Github yesterday) and the current AppStore version of Xcode with Swift 2.1. I am handing a ...

I recently undate Yoode to Version 7.1, which included Swift 2.1. Linetalled Swift 2.1 with no troubles. After



swift



R realm

29 views

answers

NerdyTherapist 85 • 7

answered 5 hours ago

0 votes

Xcode unable to find strip-frameworks.sh directory

more related tags

xcode x 36

json × 33

cocoapods x 18

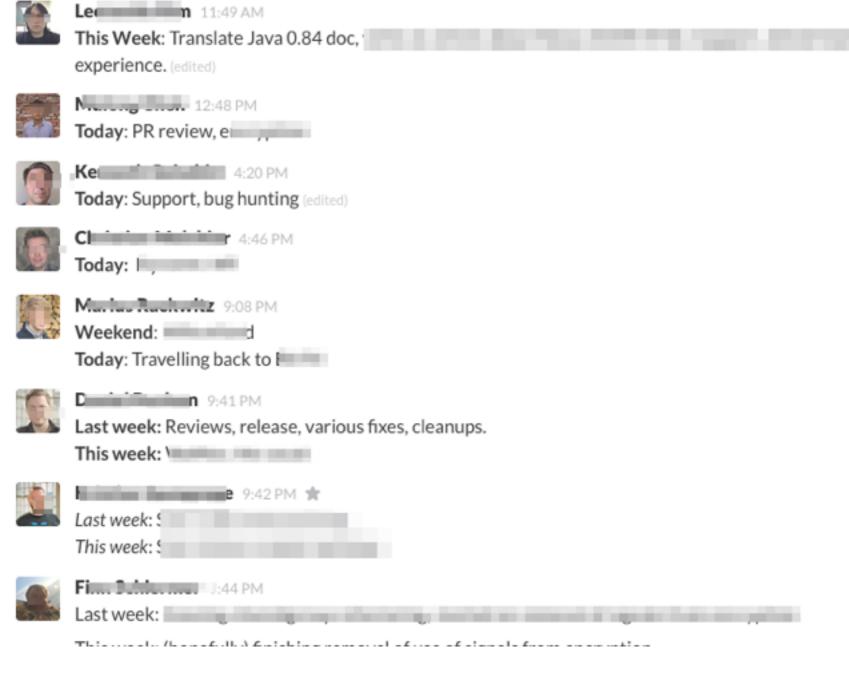


988

questions tagged

Meeting? No No

Status on Slack #status



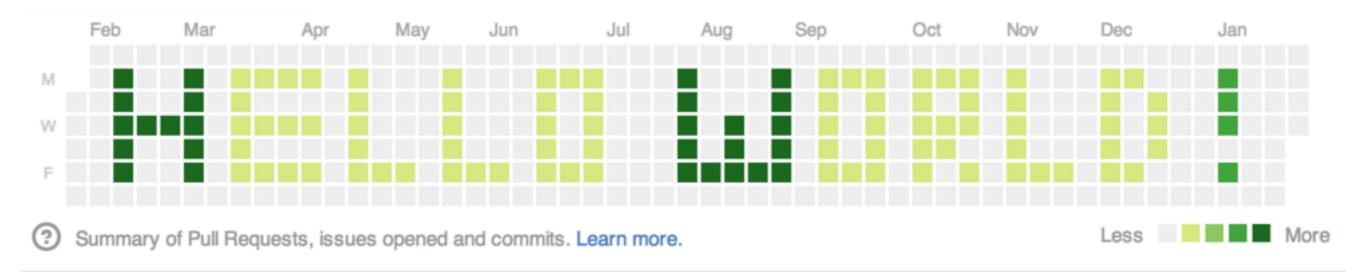
주간회의는 Hangout으로

이상적인 Job

개인의 Goal / 회사의 Goal 이 조화를 이루는 회사

프로그래머들의 Goal

• Github를 파랗게 만들고 싶다.



- 많은 사람들이 쓰는 SW를 만들고 싶다
- 훌륭한 개발자들과 개발하고 싶다.
- 내취미(오픈소스 개발) 이 일이 되었으면 좋겠다

오픈소스 is great for hiring

Mission 2

신뢰가 자원이고 무기입니다



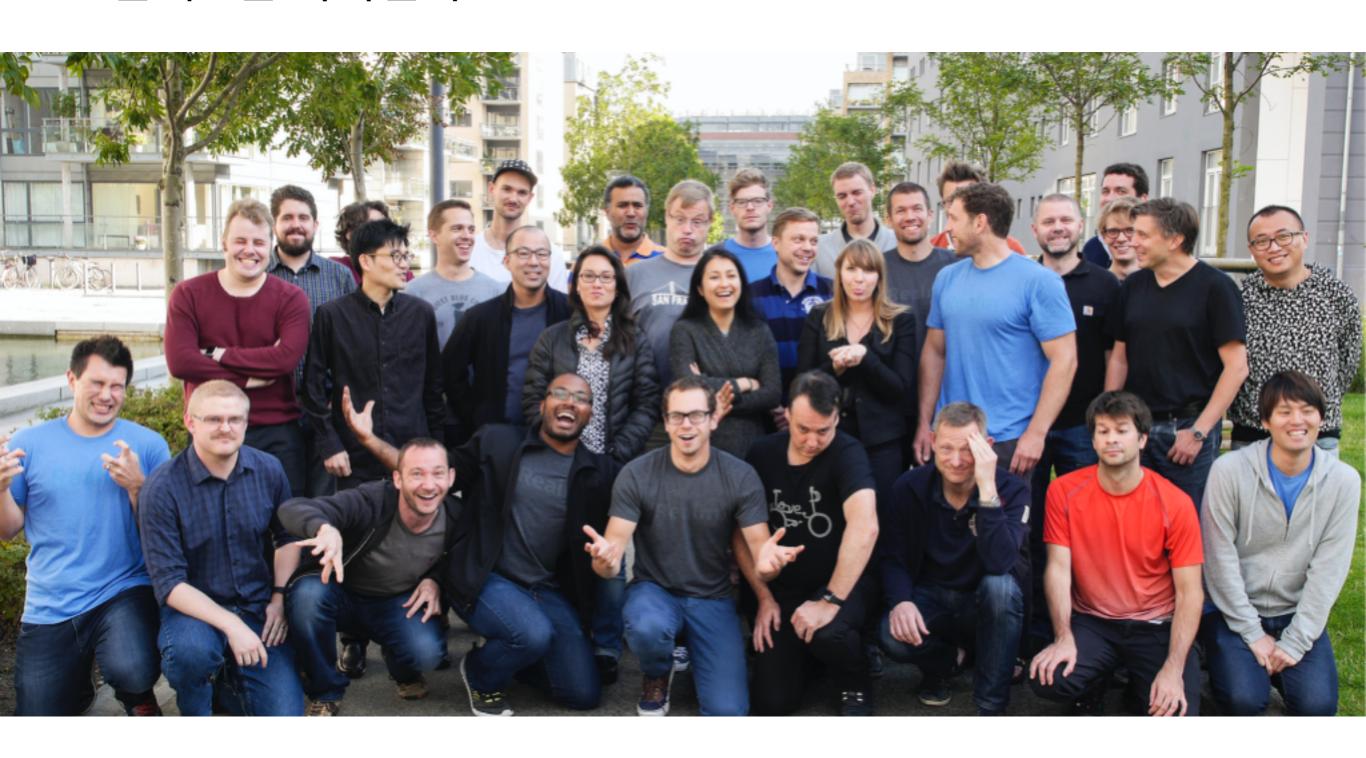
"난 저 녀석 따라 전쟁터에 못 가. 중대 전체가 다 날아갈 일 있어?"

신뢰를 만들기 위해

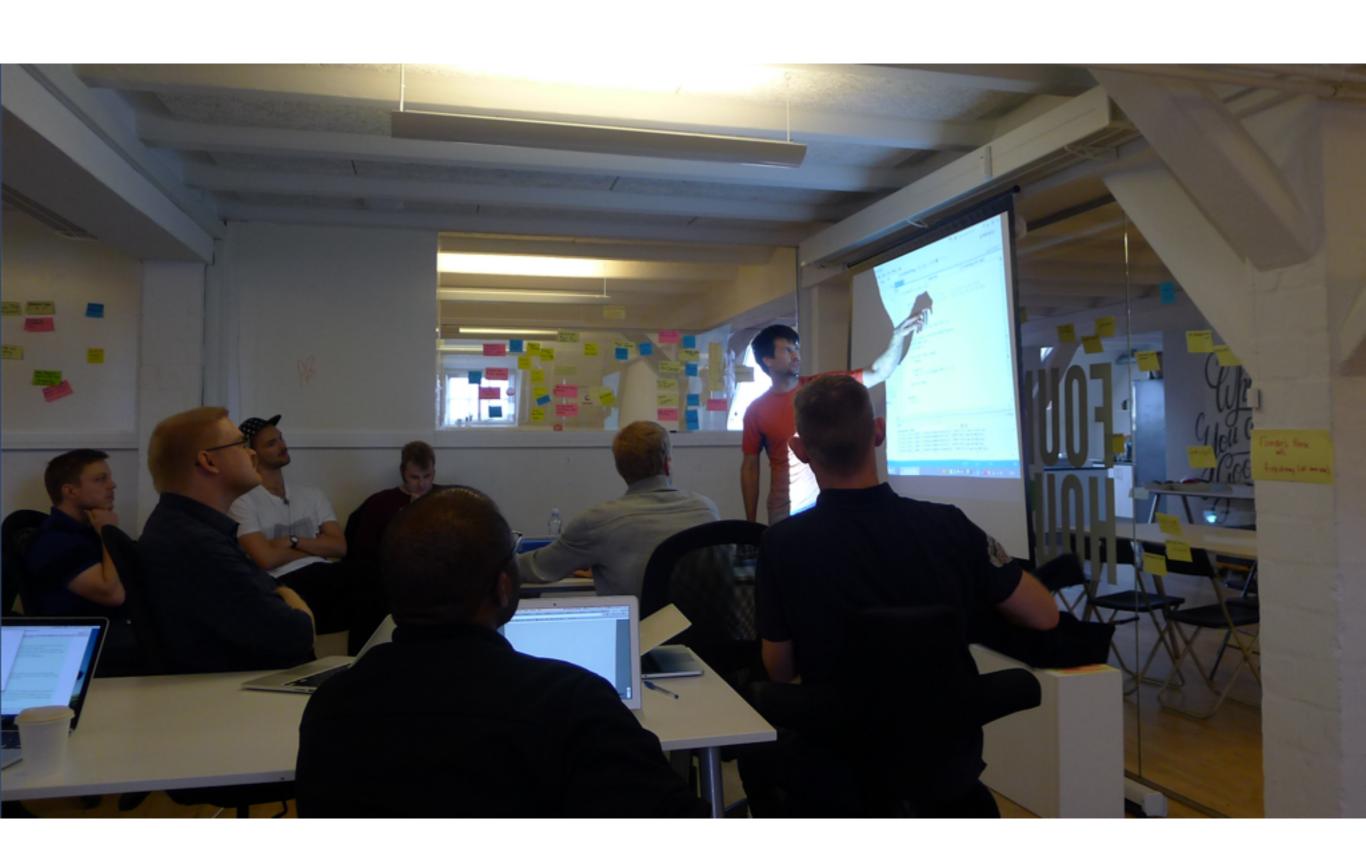
- 열린 대화를 지향
- 수평 적인 조직
- 오픈소스, 오픈 discussion

전사 모임

• 1년에 2번 어디선가



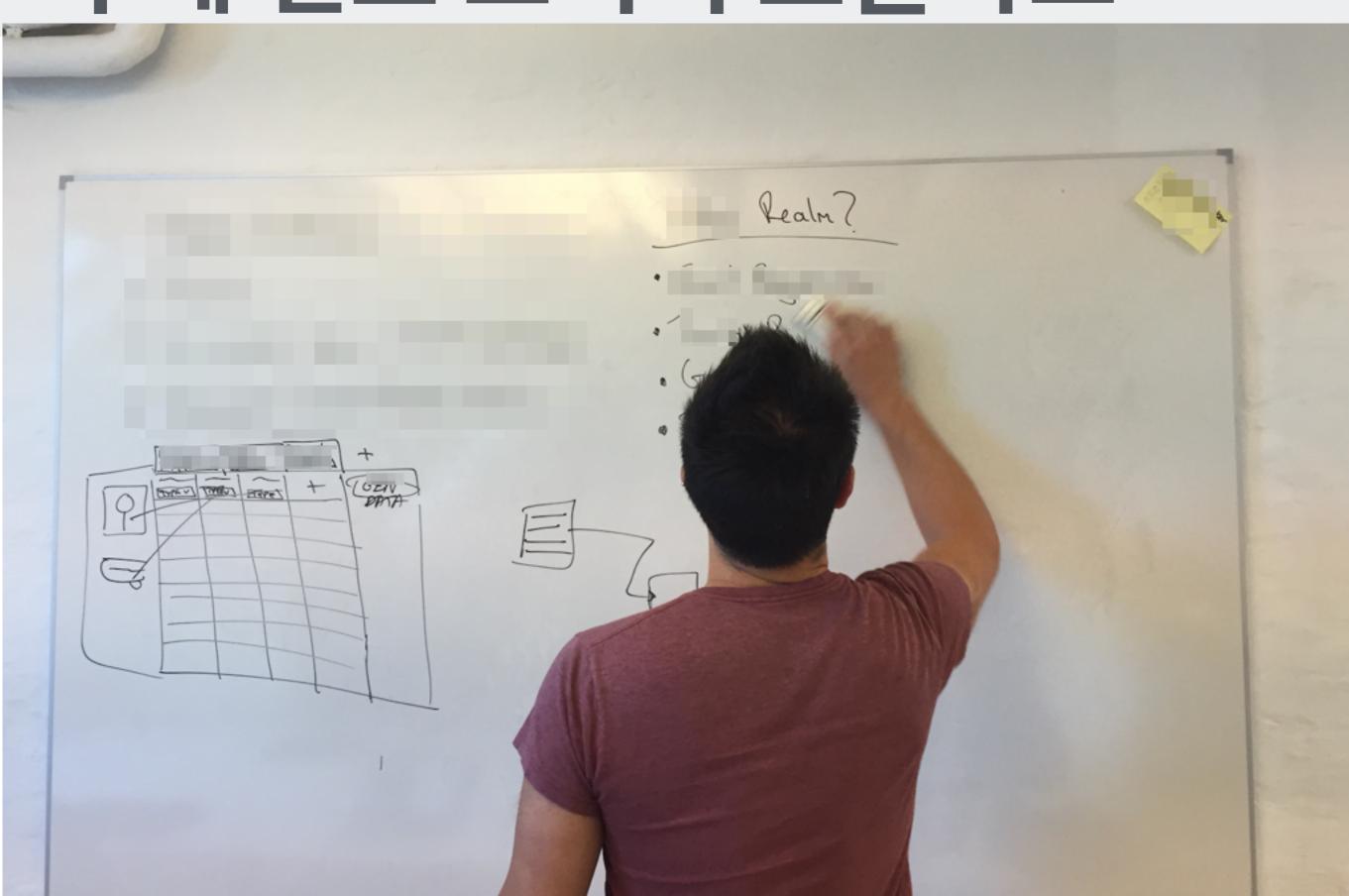
팀별 발표



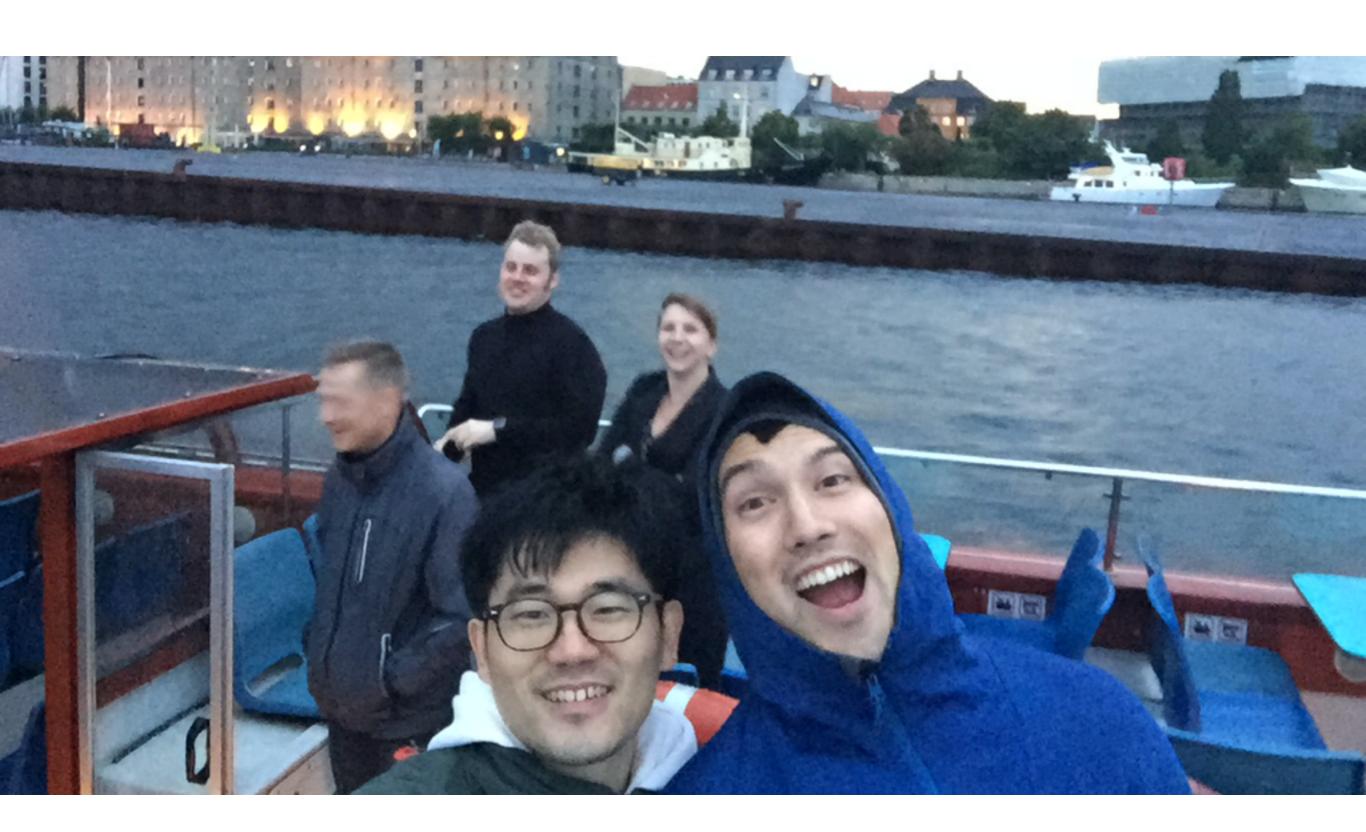
이야기 나눌 아이템을 정하고



주제 별로 모여서 토론하고



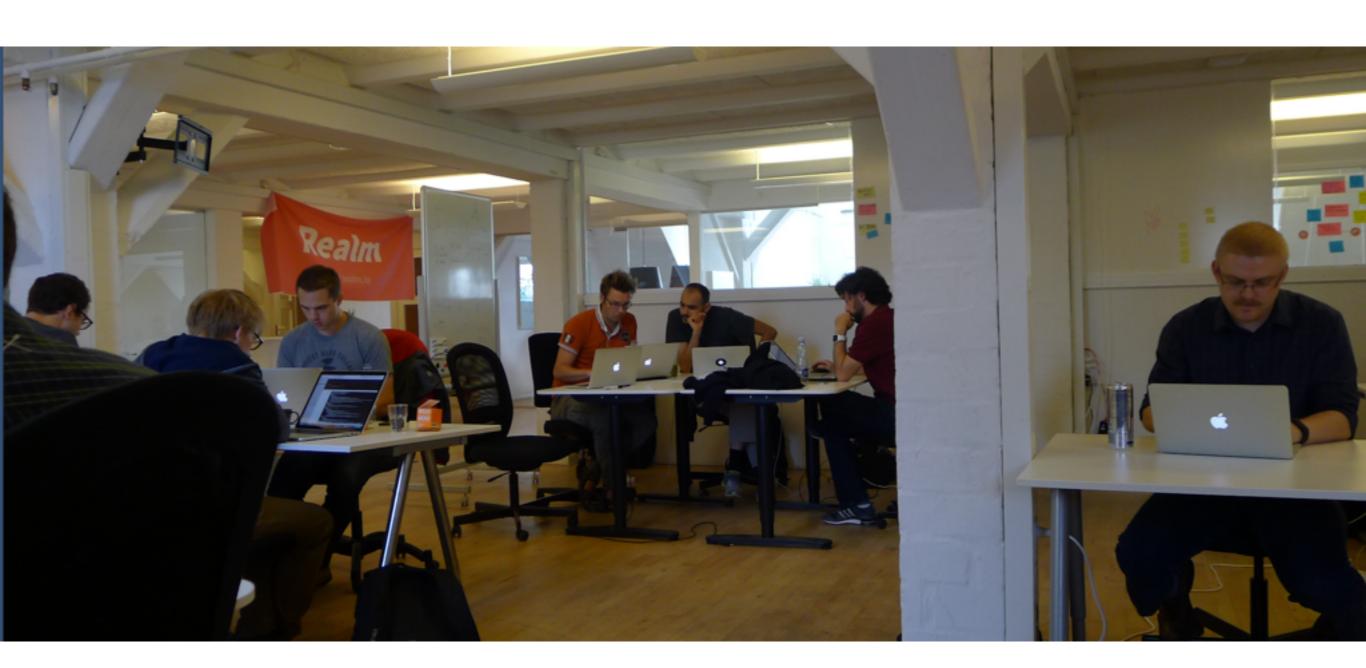
끝나면 같이 놀고



또 놀고



해커톤하고



나누고, 코딩하고

나누고, 코딩하고 나누고, 코딩하고

나누고, 코딩하고

Mission 3 Marketing

오픈소스회사가.. 마케팅을?

오픈소스의 목적 더 많은 사람들이 쓰도록..

따라서 성장 이 중요합니다

All Realm Apple Android

A Wishlist for Swift 3.0

With great improvements in Swift 2.0 such as protocol extensions and proper error handling, Apple has made it clear that they actively listen to the developer community's wishes in shaping the future of language. We asked several dev friends using Swift what they'd most like to see in the next iteration, and they shared great ideas on improving the type system, protocols, and the tooling in the next version of Swift! Read More...

Monads Everywhere: Porting C#'s Tasks to Swift

In this talk, Nevyn Bengtsson takes a functional look at how to manage asynchrony in Swift. Drawing on his experience of porting over the Task class from C# by way of Objective-C, Nevyn explains his Swift version of a Task, and in the process, rediscovers monads! Read More...

200MB Max, No Storage, No Web Views: Is tvOS the Future of Apps?

"The future of TV is apps." This was the provocative statement Tim Cook made at the Apple keynote presentation on September 9, 2015. It captures Apple's vision for the future of TV. Passive viewing is no more, and instead we will navigate through apps, offering up more dynamic experiences. As bold as Tim's vision was, in the end, its success will be defined by what developers can ultimately do with Apple's tvOS platform. So while Apple views apps as the future of TV, is tvOS also meant to show us the future of apps? Read More...

GameplayKit: Beyond Games

GameplayKit is full of famous algorithms, design patterns and utilities broadly used in the game development realm. Right after Apple's announcement, whispers started to spread: what if we could

Aug 11, 2015

How We Beat C++ STL Binary Search

Performance Engineering at Realm















At Realm, we're always looking for ways to optimize for speed. This is the story of how we developed our own fast binary search function, with an execution time on average 24% faster than the C++ STL.

Why Binary Search?

Realm stores data in binary tree structures. For example, suppose Realm was holding objects with the following IDs in a linked list:

6 7 10 11 14 20 22	11 14 20 22
--------------------	-------------

If you wanted to find the object with ID equaled to 14 then this would require 5 operations or rather 0(n) complexity.

Oct 7, 2015

Functional Reactive Programming in Java









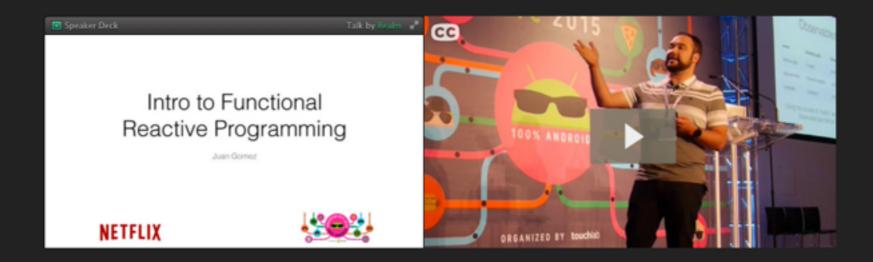




How can you move away from traditional synchronous state management with variables to asynchronous streams of data? Try functional reactive programming! In this talk from Droidcon NYC 2015, Juan Gomez explains why you should use FRP, and covers three main topics: reactive extensions, observers & descriptions, and intermediate topics around RxJava. These powerful, yet easy to use abstractions will let you write asynchronous code in a straightforward, declarative fashion-making the task of writing great Android apps much easier.

See the discussion on Hacker News.

Transcription below provided by Realm: a replacement for SQLite that you can use in Java or Kotlin. Check out the docs!



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we won't email you for any other reason, ever.

About the Speaker: Juan Gomez

Juan is a Senior Software Engineer at Netflix, where he's in charge of the design and implementation of various aspects of the company's Android applications. He was previously an Android Engineer at Eventbrite and has been developing mobile solutions since the days of the PDA. He is an active member of both the Python and Android communities, and has previously spoken about Mobile Development topics

안드로이드 글로벌화와 현지화 할때 꼭 알아야할 것들

with Siena Aguayo







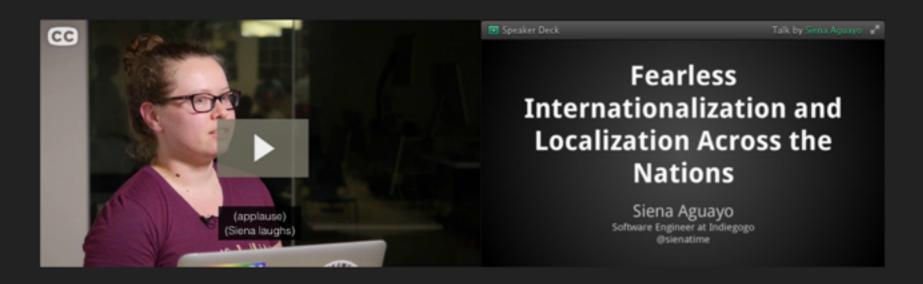






많은 개발자가 현지화(l10n)와 글로벌화(i18n)를 어려워하지만, 안드로이드는 이미 글로벌 시장 장악을 돕기 위 한 훌륭한 도구들을 제공하고 있습니다. 본 발표에서 Siena Aguayo는 유연한 레이아웃 디자인이나 지역화에 특화된 리소스, Smartling과 같은 통역 서비스 등의 도구들을 사용하여 앱을 현지화하는 방법을 알려줍니다. 이 런 현지화 요소들을 통해 어떻게 세계 사용자들을 타게팅하고 시장 규모를 현저히 늘릴 수 있는지 배워 보세요. **●** 22

Transcription below provided by Realm: a replacement for SQLite that you can use in Java or Kotlin. Check out the docs!



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About the Speaker: Siena Aguayo

Siena는 샌프란시스코에 있는 Indiegogo사의 모바일 소프트웨어 엔지니어로, iOS, 안드로이드와 Roils/Angular를 개발해 왔습니다. 로스앤젤레스 출신이자 포켓몬 마스터인 그녀는 샌프란시스코 여성을 위한 프로그래밍 부트캠프인 Hackbright 아카데미에서 소프트웨어 엔지니어로서의 경력을 시작했습니다. Siena는 안드로이드 앱 개발과 함께 비디오 게임과 뜨개질, 기타 연주와 일본어 학습을 즐깁니다. 트위터@sienatime 에

Collecting/Sharing users

홈 사례소개 뉴스 문서 - 사용자 그룹 기술지원/연락 ENGLISH



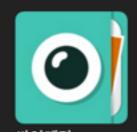
카카오헬로 연락처,전화,스팸앱을 하 나르



네이버폴라 인기 있는 태그와 사진



리디북스 대한민국 최대 eBook



싸이메라 1억 5천만 사용자와 함? 하는 셀카 사진 편집업



CJmall 매일 새로운 핫딜과 쿠폰 할인 혜택!

글로벌 성공적인 앱들



Visual bookmarking for the win!



Installed on millions of devices



BBC iPlayer Watch live TV on the go



Hipmunk Top Travel App For Hotels & Flights



Expensify #1 Expense Tracking App



Dubsmash #1 free app in >40 different countries

쇼핑과 커머스



올리브영 대한민국 NO.1 헬스&뷰티 스토어 올리브영,



인터파크 항공 전세계 할인항공권 예약



마트모어 이마트, 홈플러스, 롯데마 트 가격 추적기



헬로마켓 개인들의 직거래 중고장터



망고플레이트 맛집추천 서비스



아이디어스 핸드메이드/수공예 장터

유용한 앱들

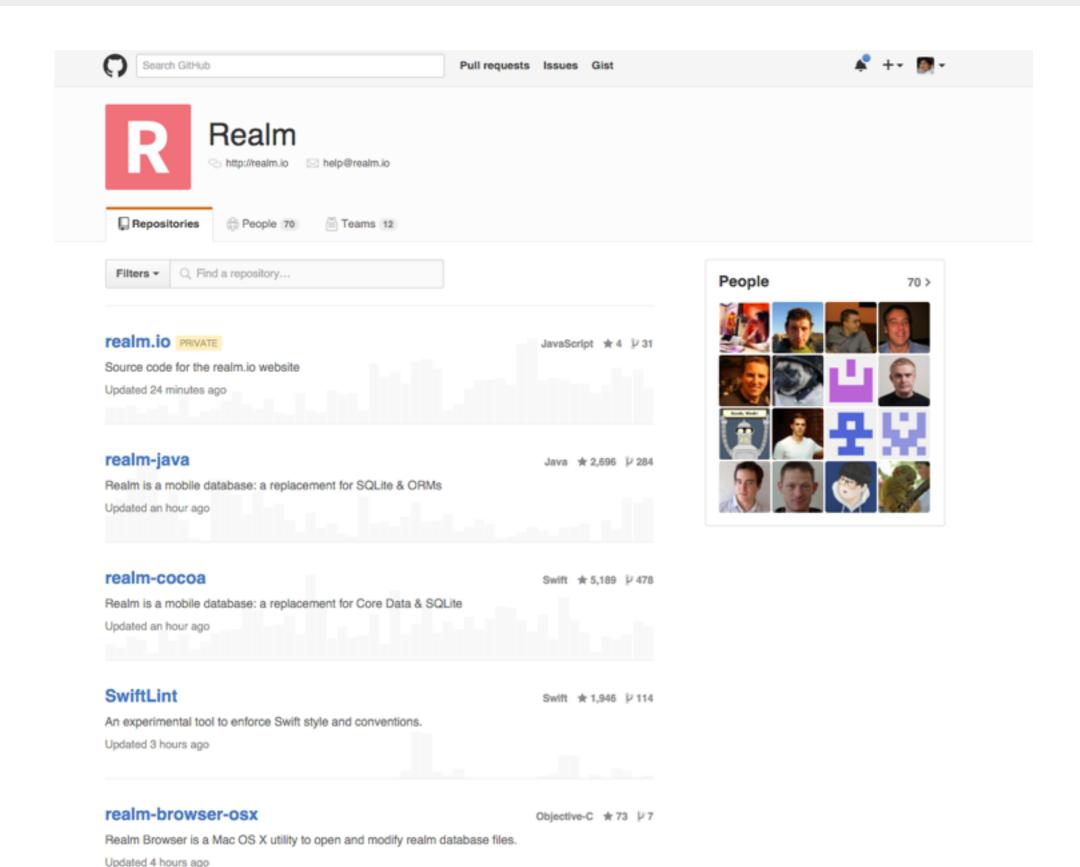
개발자들에게 우리제품을 실제 쓰는 사람이 많고 또 성장하고 있다는 메시지는 중요합니다

Mission 4

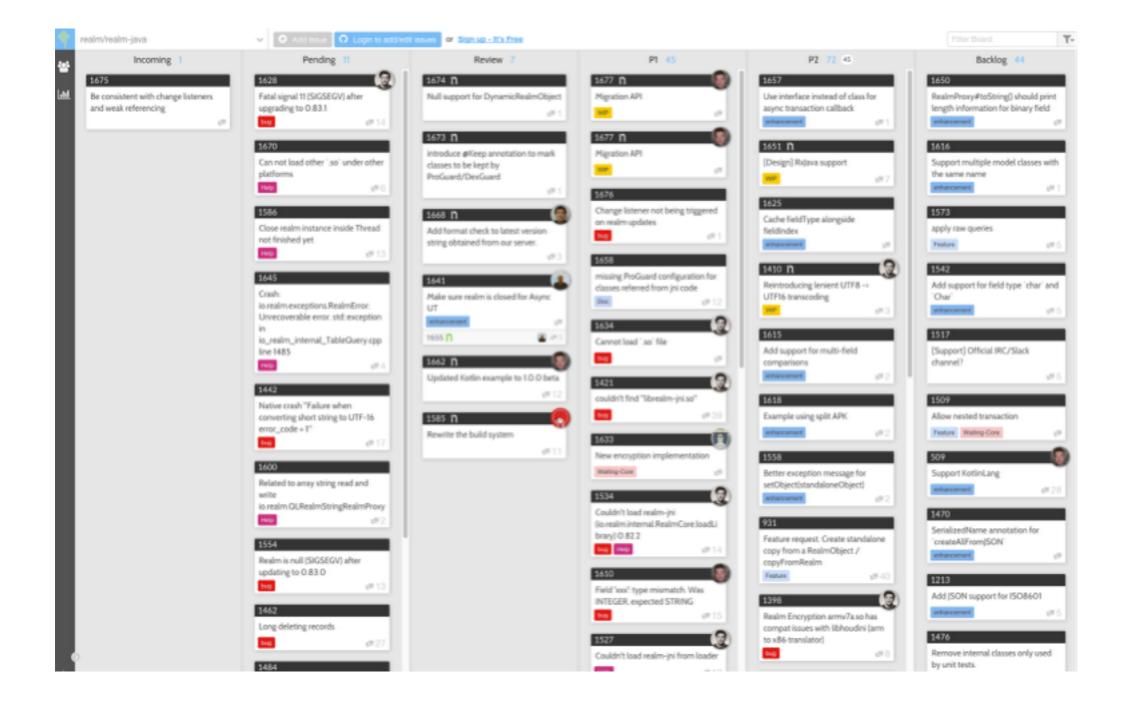
Focus on

important things (Use the right tools)

Github



Waffle

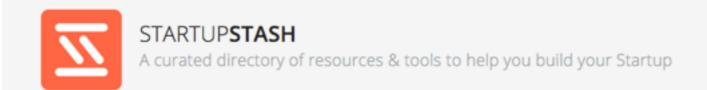


Google Apps

- Gmail
- Google Calendar
- Hangout
- Google Drive

기타 등등 tools tools

http://startupstash.com/



	Namina	Domain names	Martina	
Idea generation	Naming	Domain names	Hosting	Market research
Forms & Surveys	Mockups & Wireframing	Design	Development	Deployment
Social tools	MVP	Marketing	Early users	Presentations
Product demo	Launching	Analytics	Mobile (app) analytics	Customer support
				Customer support

We hired Zaki

From Gitub



Realm USERS NEWS ADD-ONS DOCUMENTATION → JOBS CONTACT PRICING Q →

Realm is a mobile database: a replacement for SQLite & Core Data — Learn More

Oct 6, 2015

Makoto Yamazaki joins Realm

山崎 誠がRealmのメンバーに加わりました





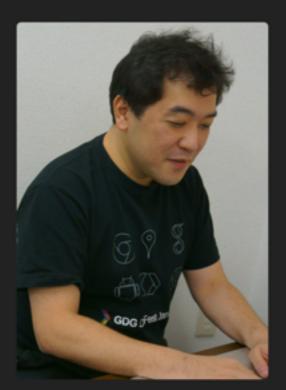












We're happy to announce that Realm's recent agreement with uPhyca Inc. has resulted in Makoto Yamazaki, a.k.a. @zaki50, joining our team! Makoto will support Realm's development in Japan, focusing mainly on the Android platform.

株式会社ウフィカとRealmが契約を結び、山崎誠 (@zaki50)がRealmの活動に加わることになりまし た! 主にAndroidを中心に、Realm自体の開発と日 本における利用を支援してまいります。

Makoto Yamazaki

As a seasoned Java and Android expert, Makoto has already developed many apps. He has also

山崎はJavaおよびAndroidのエキスパートとして 様々なアプリケーションの開発に携わってきただ

Zaki 가 join 하자마자

- Github 를 써서 code contribution 했다.
- Wiki를 읽으며 회사에 대해 배웠다.
 - Markdown으로 자기 소개를 추가했다
- Google Apps/Drive로 이메일과 문서를 관리했다.
- Slack에서 소개하고 인사하고 채널에 가입했다

디사질등

Realm은 어떻게

돈을 배나요?

우리는 Great product를 만듭니다



전세계 모든 앱중에 30%가 Realm을 사용해도 세상이 우리를 망하게 가만둘까요?

Great product를 만들기 위한 최고의 도구

오픈소스

감사합니다.

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홈페이지: http://realm.io/kr

페이스북: http://fb.com/realmkr