WALLETH Deep Dive

By LIGI @ DevCon3 Cancún 2017

WALLETH

The native Android Ethereum wallet

📍 Earth   🔗 http://walleth.org

📖 **Repositories** 7   👥 **People** 1   🏢 **Teams** 0   📋 **Projects** 0   ⚙ **Settings**

Pinned repositories

Customize pinned repositories

≡ **walleth**	≡ **kethereum**	≡ **walleth.github.com**
native Android Ethereum wallet	Kotlin library for Ethereum	Website / LandingPage
🟠 Kotlin ★ 86 ⑂ 19	🟠 Kotlin ★ 5 ⑂ 1	🟣 CSS ★ 2 ⑂ 1

≡ **walleth-push**	≡ **khex**	≡ **keccak**
Service that watches the ethereum network via RPC and triggers FCM pushes when registered addresses have new transactions.	Kotlin library to handle hexadecimal value representations	Kotlin Keccak implementation
🟠 Kotlin ★ 4	🟠 Kotlin ★ 1	🟠 Kotlin ★ 3

Dan Kim   Follow

Android Programmer at Basecamp | https://twitter.com/dankim

Jun 10 · 2 min read

Kotlin makes me a happier (better) programmer

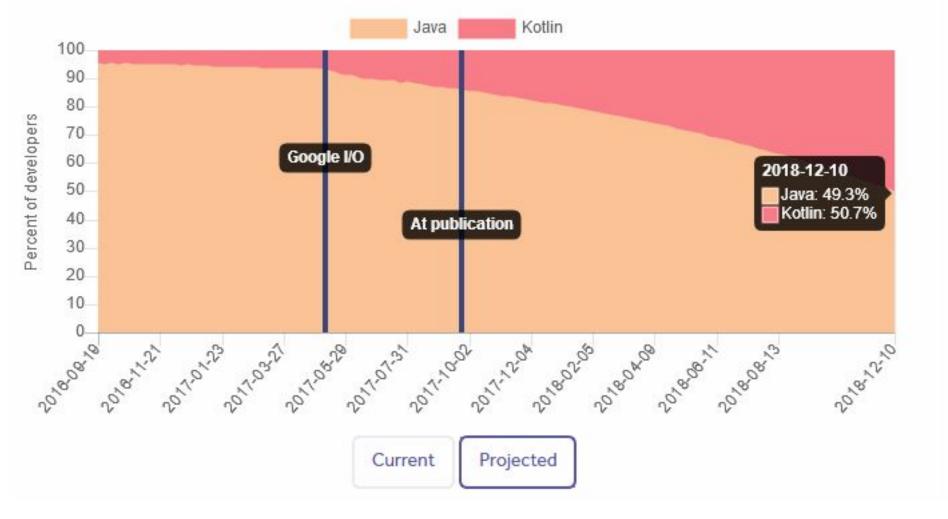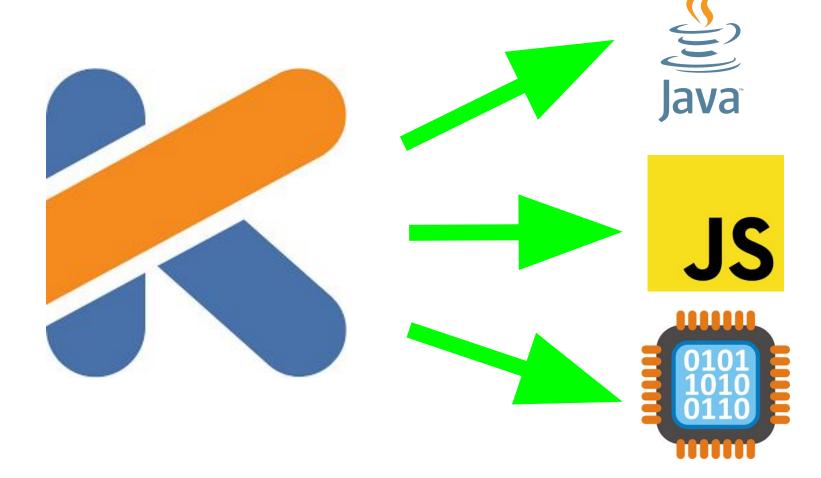What's Kotlin's best feature? Creating programmer happiness.

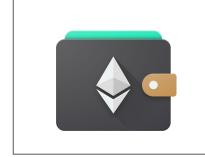| 15 | Objective-C | 0.742% (-0.439%) | ⌄ |
16	Lua	0.527% (-0.160%)	
17	Perl	0.509% (+0.042%)	⌃
18	Haskell	0.507% (-0.136%)	⌄
19	R	0.440% (-0.055%)	
20	Kotlin	0.376% (+0.188%)	⌃⌃
21	Vim script	0.361% (+0.025%)	⌃
22	Clojure	0.332% (-0.076%)	⌄
23	Groovy	0.300% (+0.042%)	⌃
24	CoffeeScript	0.279% (-0.244%)	⌄⌄
25	PowerShell	0.275% (+0.046%)	⌃

Source: GitHut -> GitHub pushes Q3/2017

ETHEREUM

- RLP encoding
- BIP44 - Multi-Account Hierarchy for Deterministic Wallets
- ERC55 - Address Checksums
- ERC67 - URL's
- Crypto
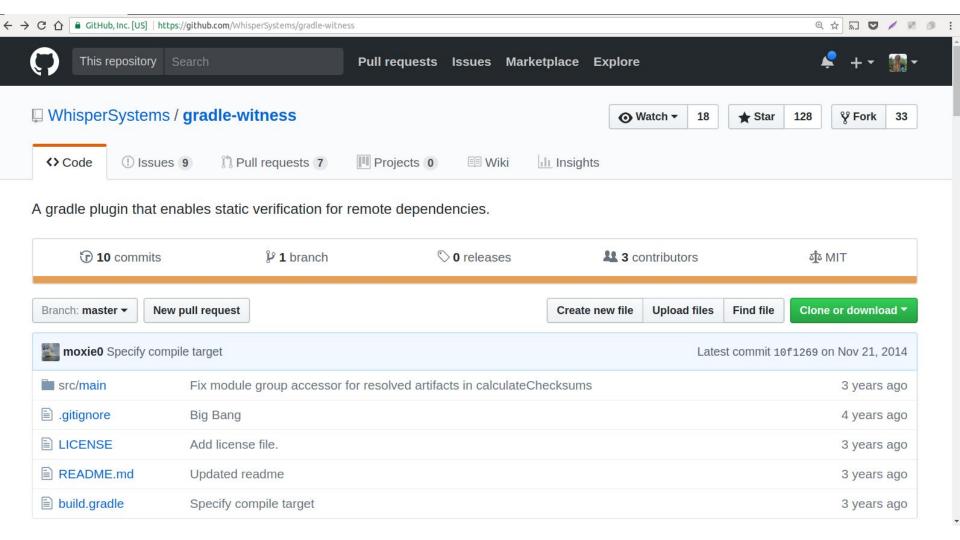- Keccak shortcut
- Model

WALLETH
FCM Push

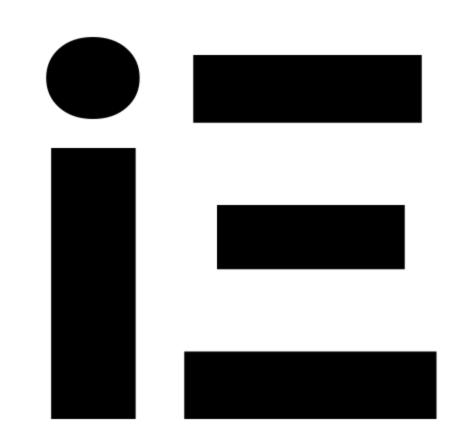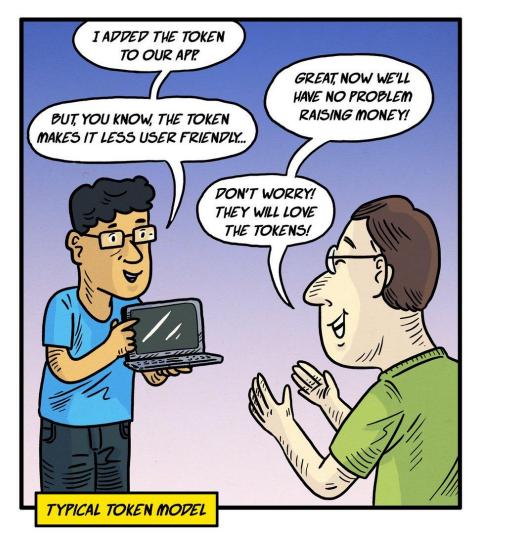Heimdall
Android

KETHEREUM

WALLETH
FCM Push

Heimdall
Android

KETHEREUM

Via jitpack.io

This repository Search   Pull requests   Issues   Marketplace   Explore

WhisperSystems / **gradle-witness**

⊙ Watch ▾ 18   ★ Star 128   ⑂ Fork 33

<> Code   ⊙ Issues 9   ⛙ Pull requests 7   ▥ Projects 0   ▤ Wiki   �📊 Insights

A gradle plugin that enables static verification for remote dependencies.

⟳ **10** commits   ⎇ **1** branch   ⬚ **0** releases   ⧉ **3** contributors   ⚖ **MIT**

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

🐵 **moxie0** Specify compile target		Latest commit 10f1269 on Nov 21, 2014
📁 src/main	Fix module group accessor for resolved artifacts in calculateChecksums	3 years ago
📄 .gitignore	Big Bang	4 years ago
📄 LICENSE	Add license file.	3 years ago
📄 README.md	Updated readme	3 years ago
📄 build.gradle	Specify compile target	3 years ago

TYPICAL TOKEN MODEL

ligi commented on Apr 27

These permissions are quite intrusive:

+ Added permissions

Repository webhooks and services
Admin access

Organization webhooks
Admin access

Repositories
Public and private
This application will be able to **read and write all public and private repository data**. This includes the following:

- Code
- Issues
- Pull requests
- Wikis
- Settings
- Webhooks and services
- Deploy keys

⑦ Learn more

commiteth

Ethereum Bounty bot for Github

Visit application's website

Existing access

✔ Access user email addresses (read-only)

You can revoke this application's access entirely in your account settings.

ⓘ Learn more about OAuth

And I think most of them are not needed right? As far as I understand only issue read/write is used ..

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Notifications

◀× Unsubscribe

You're receiving notifications because you were mentioned.

3 participants

i☰ issuETH

Install

Next: Confirm your installation location.

Description

Github app to have Ethereum bounties for your issues.

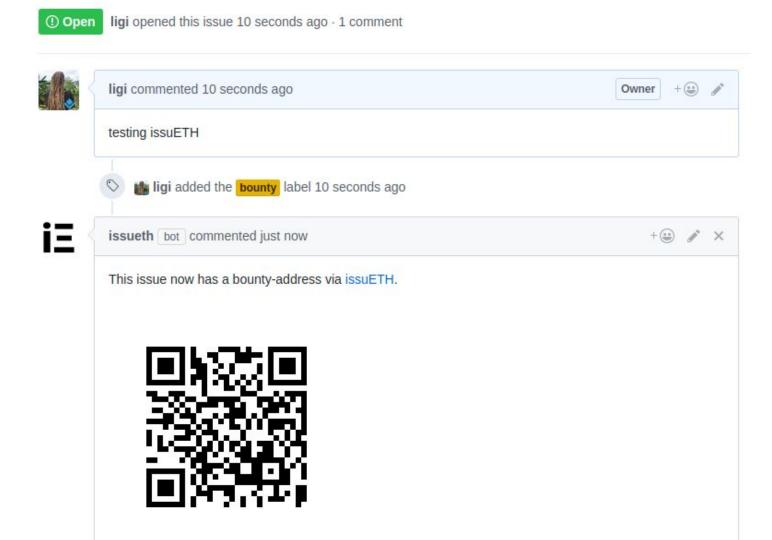## Details

🏘 **ligi**

🗔 **issuETH's website**

⊘ **Report abuse**

issuETH is provided by a third-party and is governed by separate terms, privacy, and support documentation.

Install issuETH

Install on your personal account lit

○ **All repositories**
This applies to all current *and* future repositories.

○ **Only select repositories**

> 🖥 Select repositories

...with these permissions:

✕ **No** access to code

✓ **Read** access to metadata

✓ **Read** and **write** access to issues

Install   Cancel

ligi commented 10 seconds ago   Owner +😀 ✏️

testing issuETH

🏷️ 🖼️ ligi added the bounty label 10 seconds ago

issueth bot commented just now   +😀 ✏️ ✕

This issue now has a bounty-address via issuETH.

issueth `bot` commented 30 seconds ago

new token-transfer transaction on rinkeby with value 1.1WALL

👍 1   🎉 1   ❤️ 1

ligi closed this 24 seconds ago

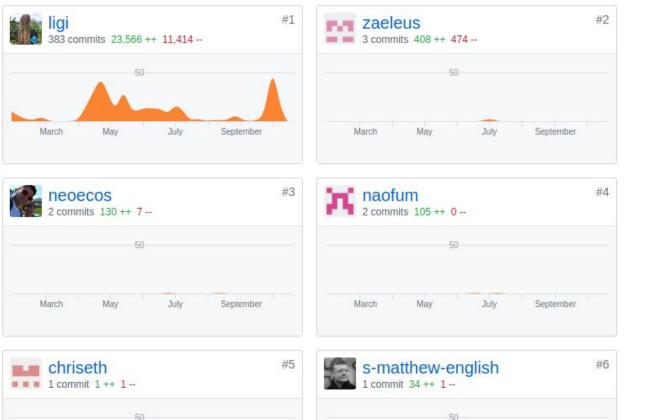issueth [bot] commented 22 seconds ago   +😊 ✏ ✕

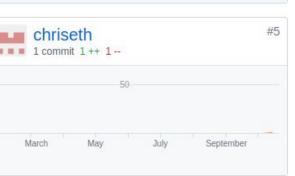This is the private key encrypted for the assignee:
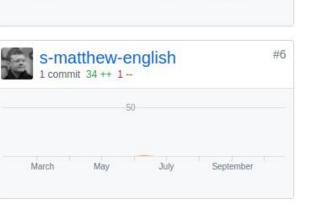
-----BEGIN PGP MESSAGE-----
Version: BCPG v1.54
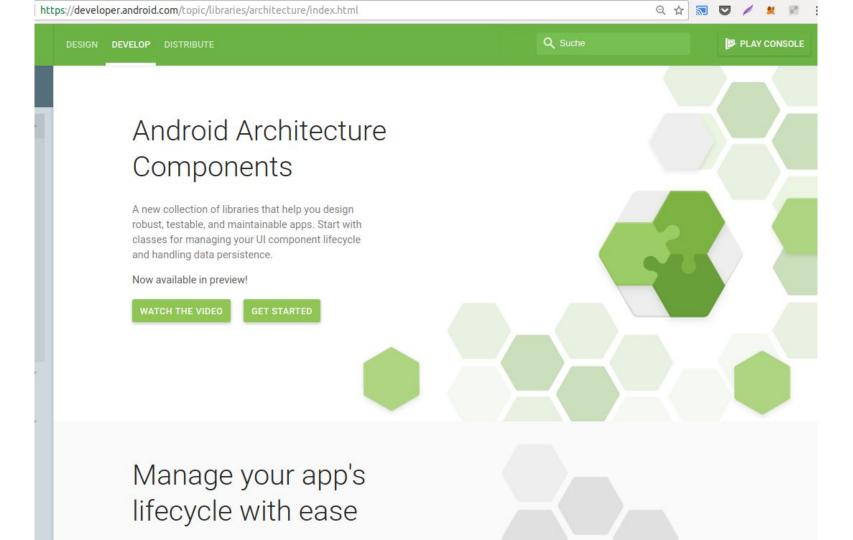
hQEMA46BiUAQq/I9AQf8CJewhy+oqsQajzwYLA7x6/SUrcbx18nWGgWZtJTujyLL
S2pEPR0HdBLVMv6GfFhv6sAk10Uq9LeorJu1HEmy1e1O/qkcdxL2R3ZropTJ5q/Q
5bkmHGZNWdEs16sBM7mNl3VygyfvZTHHPz2fXjJXWb/4G0Q9KN+uKvl/NB7lpo4U
4Va+UlQbTQsYLjqL3gjdHEoAtL448FbuS9xfEAYinN9LCfMtQa+aKh7+76ZSZw7K
lPZAuNTSMdG9+t5SPVZ4lQUWeFDyPJf4ceaXYmxrrIPo7Sp4LUjZf4vfTcT8daWr
seVqDhK4Y6h8mURD7ubH6knS4asPf6XfKpI7S82MNMlcum2Sq2ll08bQleo/M/Jl
rFqhuZvTdAzbEwshdKPoYWMqYcRv5ENv37ISw/EKE75jI2llwn81KWMp/LxGv82H
mOY8HWh0U6lwtd/64H6OmifJm56eqqCCpdr0lIs=
=0/kc
-----END PGP MESSAGE-----

ligi #1 383 commits 23,566 ++ 11,414 --	**zaeleus** #2 3 commits 408 ++ 474 --

ligi #1
383 commits 23,566 ++ 11,414 --

zaeleus #2
3 commits 408 ++ 474 --

neoecos #3
2 commits 130 ++ 7 --

naofum #4
2 commits 105 ++ 0 --

chriseth #5
1 commit 1 ++ 1 --

s-matthew-english #6
1 commit 34 ++ 1 --

Android Architecture Components

A new collection of libraries that help you design robust, testable, and maintainable apps. Start with classes for managing your UI component lifecycle and handling data persistence.

Now available in preview!

WATCH THE VIDEO   GET STARTED

Manage your app's lifecycle with ease

Suche

PLAY CONSOLE

Figure 1. Room architecture diagram

```xml
<service android:name="org.walleth.core.GethLightEthereumService"/>
<service android:name="org.walleth.core.TransactionNotificationService"/>
<service android:name="org.walleth.core.EtherScanService"/>
<service android:name="org.walleth.core.GethTransactionSigner"/>
```

```groovy
        flavorDimensions "fire", "store"

        productFlavors {
            forFDroid {
                dimension "store"
                buildConfigField 'String', 'STORE', '"fdroid"'
            }

            forAmazon {
                dimension "store"
                buildConfigField 'String', 'STORE', '"amazon"'
            }

            forPlay {
                dimension "store"
                buildConfigField 'String', 'STORE', '"play"'
            }

            if (includeFirebase) {
                withFirebase {
                    dimension "fire"
                }
            }

            noFirebase {
                dimension "fire"
            }

        }
```
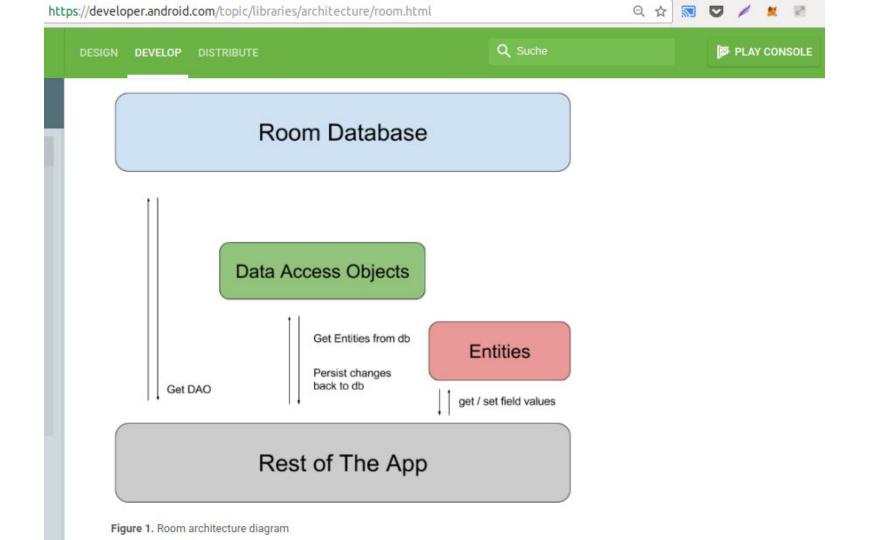
android things

Thanks! -> Follow-up:

ligi.de

walleth.org

espass.it