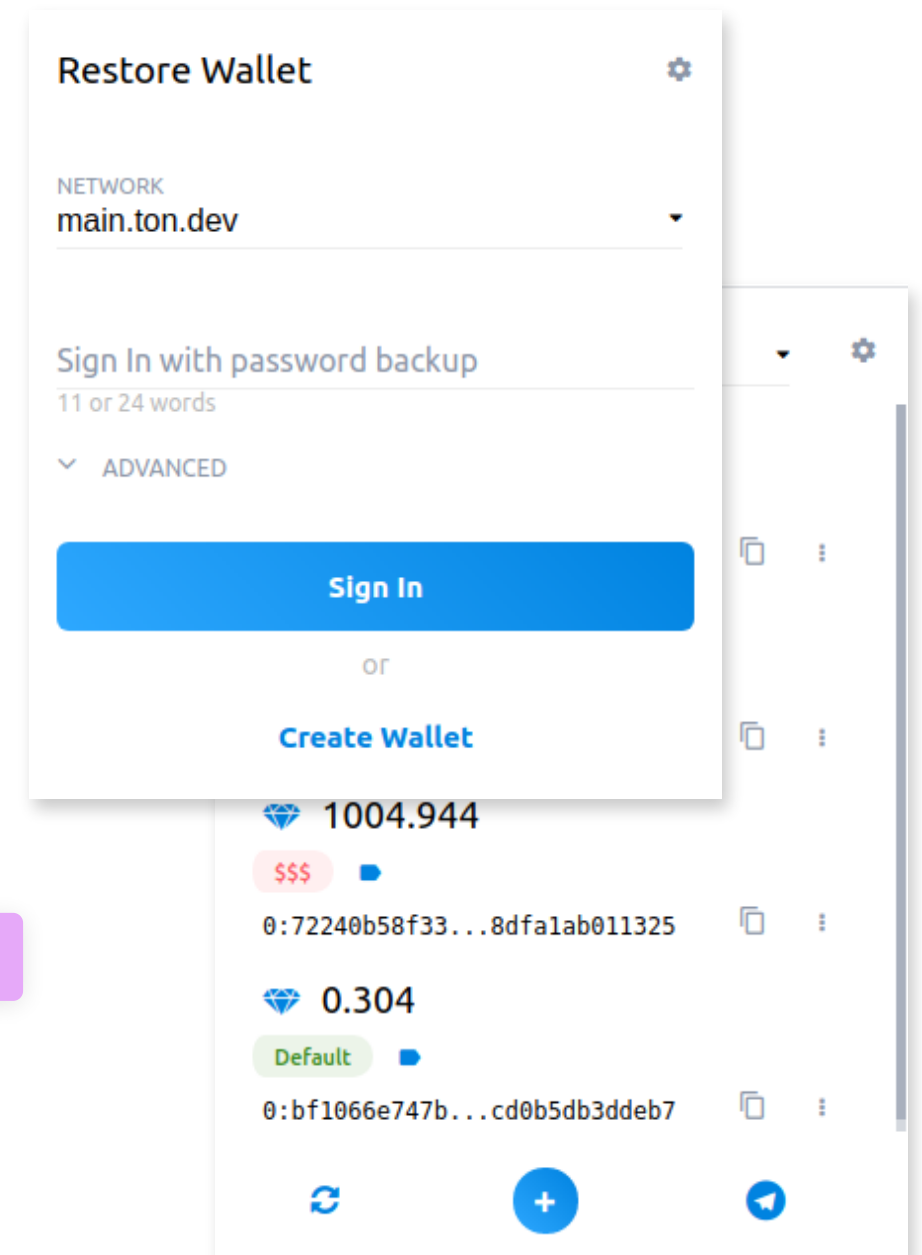
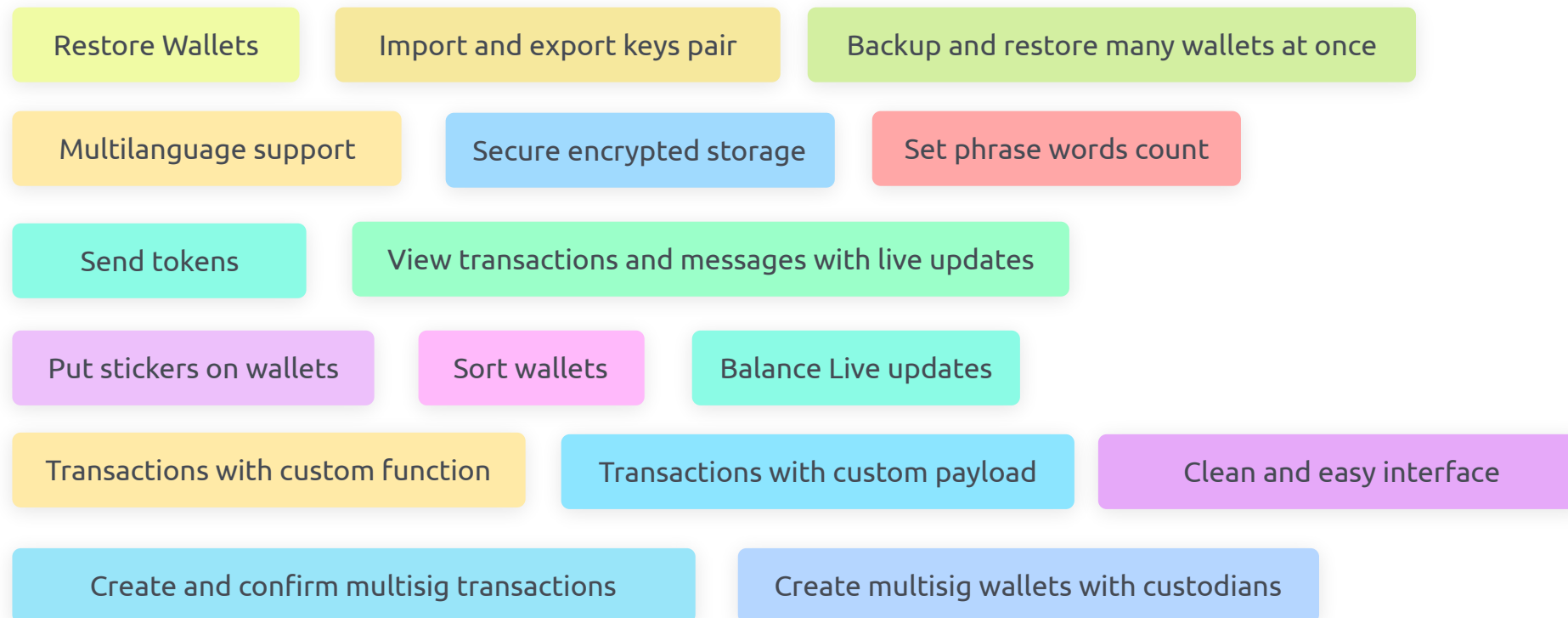




Feature-rich crypto wallet to interact with FreeTon blockchain network

Oberton FreeTon extension





Oberton FreeTon Chrome extension

Get started

Restore Wallet

NETWORK
main.ton.dev

Sign In with password backup
11 or 24 words

ADVANCED

Sign In

or

Create Wallet

Restore Wallet

Change Language

Import wallets backup

Restore Wallet

NETWORK
main.ton.dev

Sign In

or

Create Wallet

Restore Wallet

CONTRACT TO DEPLOY
Safe Multisig

Sign In

or

Create Wallet

Create Wallet

Words Count
☒ 12 ☐ 24

ADVANCED

Create Wallet

Pick contract to deploy as advanced options

You can bring Oberton wallets backup or create one later

Create or restore a first wallet to get started



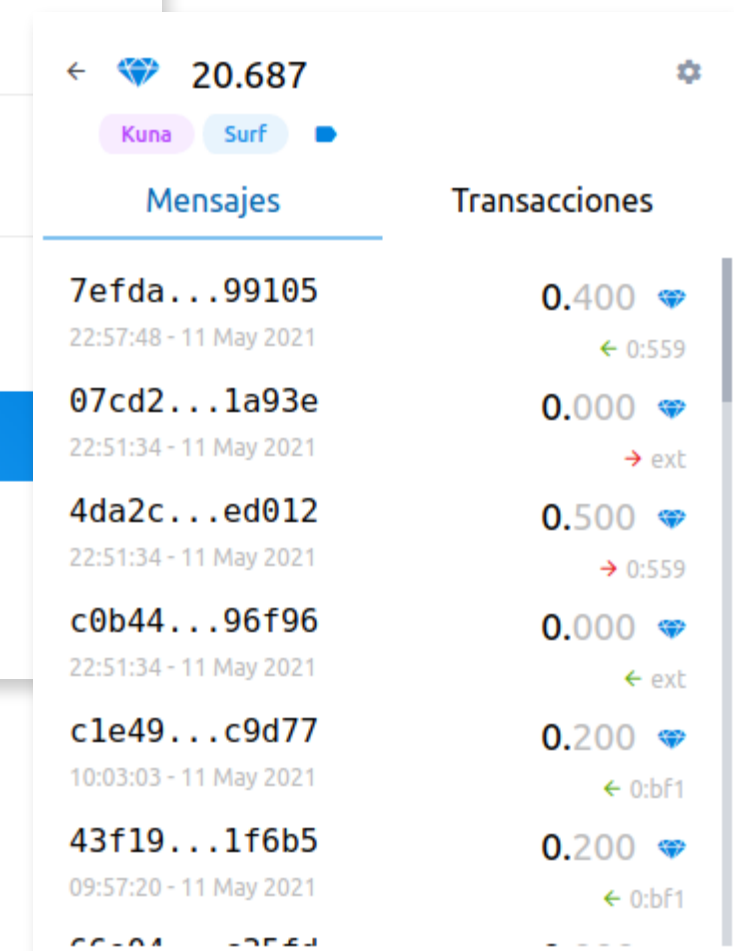
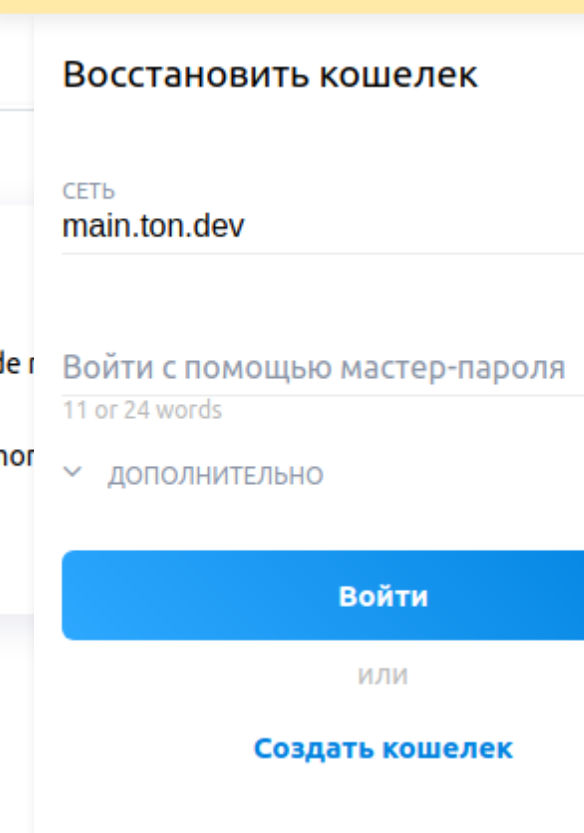
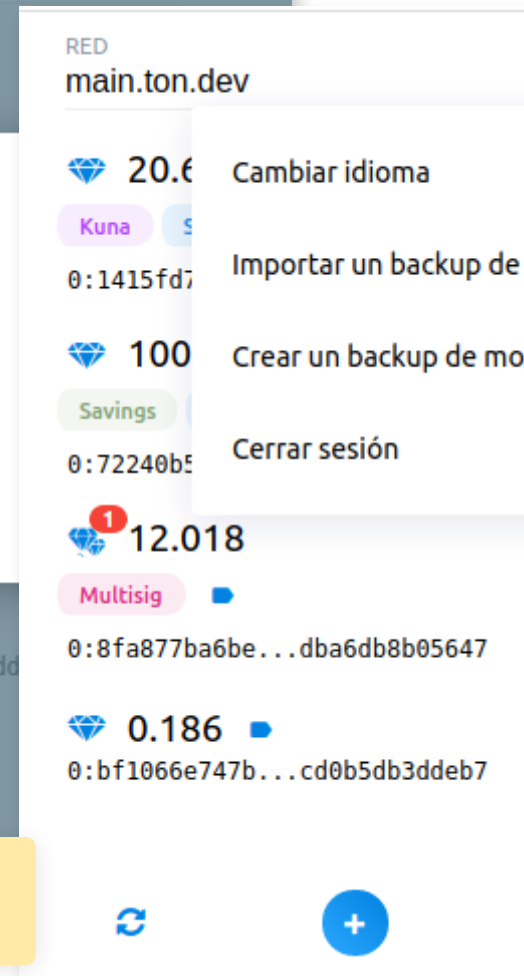
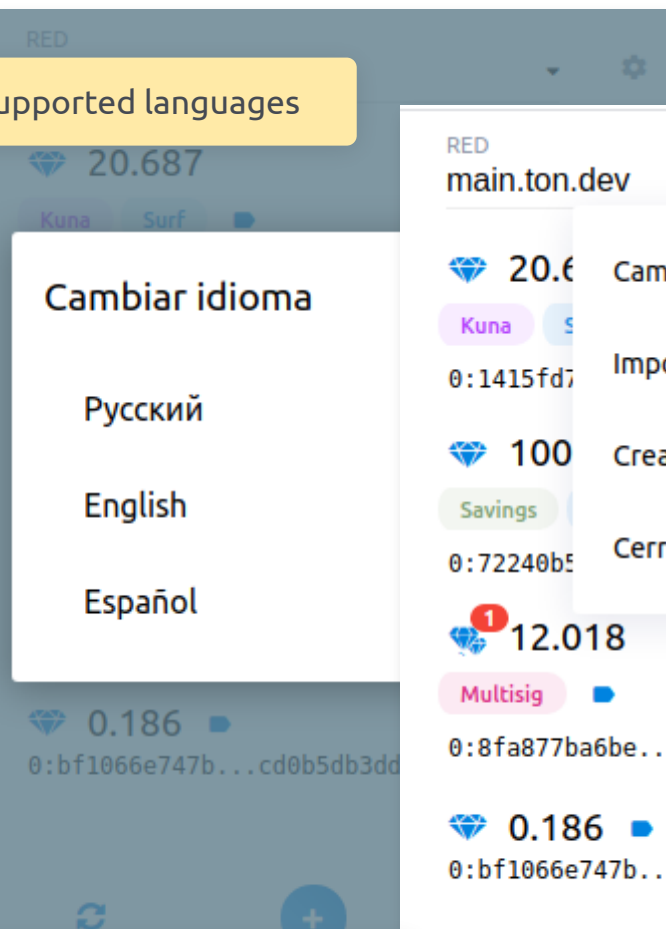
Oberton FreeTon Chrome extension

Get started

Multilanguage support

App is designed to easily extend supported languages

App detects browser language to match to one of supported or fallback to English



Currently we support English, Russian and Spanish but this list to be continued



Oberton FreeTon Chrome extension

PIN, encryption and security

Wallets storage

To add your first wallet you have to create PIN.

Then the app converts provided PIN to its SHA-512 hash sum



Then this hash sum (very long string, more the 1k symbols) is used as a passkey to encrypt added wallet with AES-256 algorythm.

All the wallets are stored locally and only you can decrypt it. Extension does not send your credentials to any remote server.

Each time you open the extension it requires to enter the PIN to decrypt stored wallets and to show them.

Other measures

CSP header in manifest.json tells Chrome to block every external script, as an additional security step.

Only few well checked dependencies are included, a lots of UI things are implemented from scratch, to not to bring an additional dependency.

Only one required chrome permission - is the storage to store wallets. Nothing else.

Create Pin



It will only work on this device.

1	2	3
4	5	6
7	8	
	0	

Confirm Pin



Repeat PIN from step before.

1	2	3
4	5	6
7	8	9
	0	⌫



Oberton FreeTon Chrome extension

App overview

Main screen.

The image displays the main screen of the Oberton FreeTon Chrome extension, featuring a list of wallets and various interactive elements. The interface includes a network switcher at the top, a pending transaction indicator, a sticker tool for wallets, a drag-and-drop area for reordering wallets, a bottom bar with a plus button to add more wallets, and a telegram chat icon for help. A general actions menu is also visible on the right side.

Callouts highlighting key features:

- Pending transaction indicator.
- Put a sticker on a wallet.
- Drag&drop wallets to reorder them.
- Network switcher.
- Add more wallets.
- Telegram chat to get help.
- General actions menu.
- Wallet actions menu.



Oberton FreeTon Chrome extension

App overview

Send transactions.

Transaction Sent

Wait transaction to be completed and get confirmation message.

Send Tokens

From
0:8fa877ba6bed873128e884a117589

To

Amount
0.1

Comment ▾

Optional

Confirm and Send

Switch between comment (default) and other payload options.

Send Tokens

From
0:8fa877ba6bed873128e884a117589

To

Amount

Function ▾

Fuction Name

ABI JSON

Function Params (JSON)

Confirm and Send

Send Tokens

From
0:8fa877ba6bed873128e884a117589

To

Amount

Payload ▾

Payload

Confirm and Send

Send Tokens

From
0:8fa877ba6bed873128e884a117589

To

Amount

Comment ▾

Function

Payload

Confirm and Send

Transaction Sent

0:8fa877ba6be...dba6db8b05647

20.806

Surf

0:1415fd7741c...d0b67475d60b4

1004.944

\$\$\$

0:72240b58f33...8dfa1ab011325

0.186

Default

0:bf1066e747b...cd0b5db3ddeb7





Oberton FreeTon Chrome extension


App overview

Wallet details.

Multisig wallets can show alert to confirm pending transactions.


You are able to confirm (sign) that transactions if you add custodians to your wallet.

←  12.018 

Multisig 


There is 1 transaction is waiting for confirmation.

Messages list and transactions. Items are loading as you scroll down.

←  12.018

Confirm Transactions







 0.200
0xc73...c993b → 0:14...60b4

Confirm Selected


Messages

2ab7...29fa
20:13:46 - 11 May 2021
ef4b...b4ae
15:47:00 - 11 May 2021
a397...35de
13:06:32 - 10 May 2021
632a...a1b9
13:06:19 - 10 May 2021

Transactions

0.098 
-0.036 
-0.125 
12.000 

Confirm Transactions


 0.200
73...c993b → 0:14...60b4

Download transaction JSON

13:06:32 - 10 May 2021

632a...a1b9

13:06:19 - 10 May 2021

12.000 



Oberton FreeTon Chrome extension

App overview

Multisig Wallets.

When you create or restore a wallet, you can specify SafeMultisig contract instead of Surf (default).

And then you are able to specify custodians.

You can specify public key of the custodian.

Or add a keys pair to be able to sign transactions by added custodian.

Or set a master phrase to restore keys pair when sign transaction.



Oberton FreeTon Chrome extension

Dependencies

We have only few dependencies, most of them are essential.

@tonclient/core

@tonclient/web

to-hex

package, that allows to convert string to hex, this library requires

bignumber.js

that doesn't require dependencies

lodash

well known tool with many cool js methods, doesn't require dependencies

@popperjs/core

nice tool to position dropdowns/tooltips, doesn't require dependencies

crypto-js

tool to encrypt/decrypt storage and PIN code, doesn't require dependencies

svelte

tiny but very usefull frontend framework, doesn't require dependencies

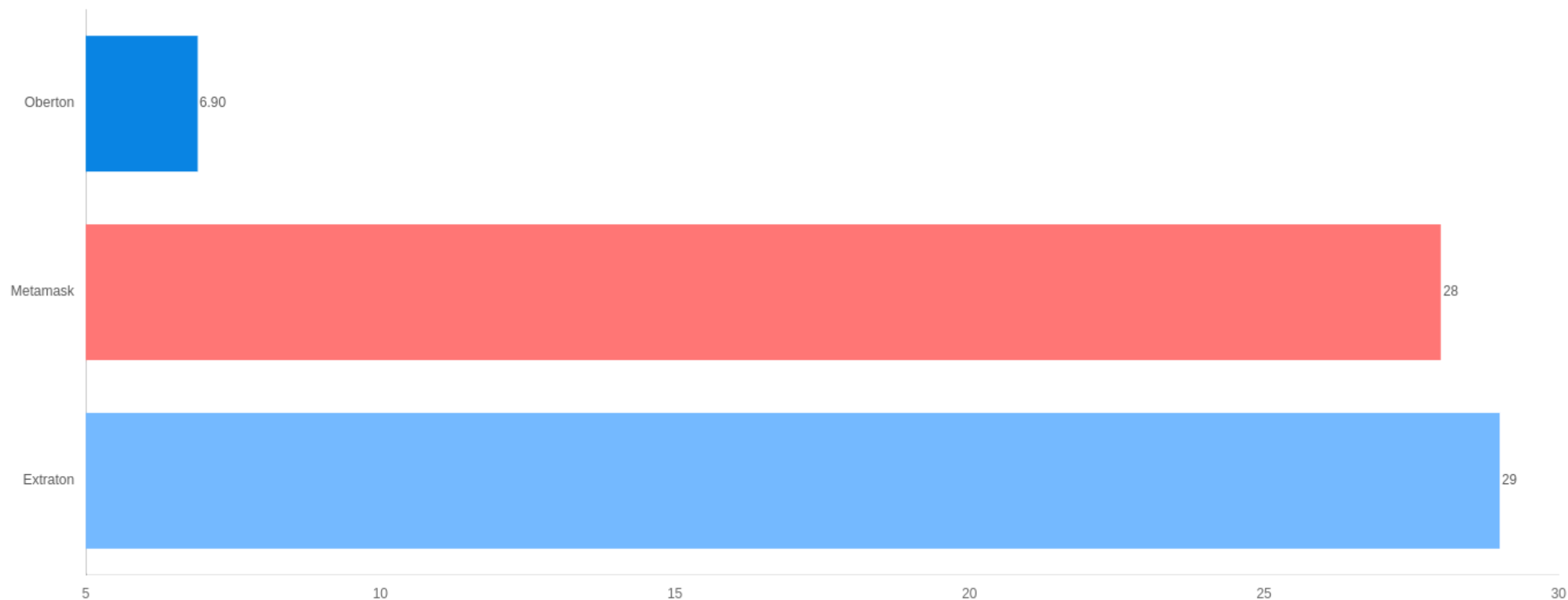


Oberton FreeTon Chrome extension

Dependencies

Being restrained in dependencies, allows us not only to be more secure but also get significant decrease in build size compared to similar tools available in Chrome Webstore.

Build size MB compared to other in-browser crypto wallets

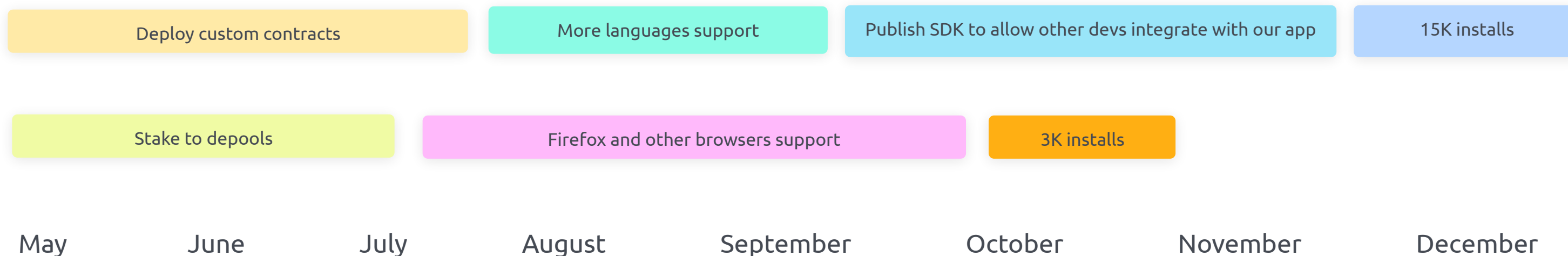




Oberton FreeTon Chrome extension

Goals

Short roadmap of key things that we are aimed to achive and implement.





Oberton FreeTon Chrome extension

Links

https://github.com/oberton/chrome_freeton_extension - github repo

<https://github.com/oberton> - to check out our other FreeTon projects

<https://t.me/freeoberton> - join our telegram channel, where we'll be publishing project news and answer questions

<https://github.com/nerzh> and <https://github.com/babakhanov> - contributors

Chrome Webstore link - is to be added once it got approved by Chrome team.