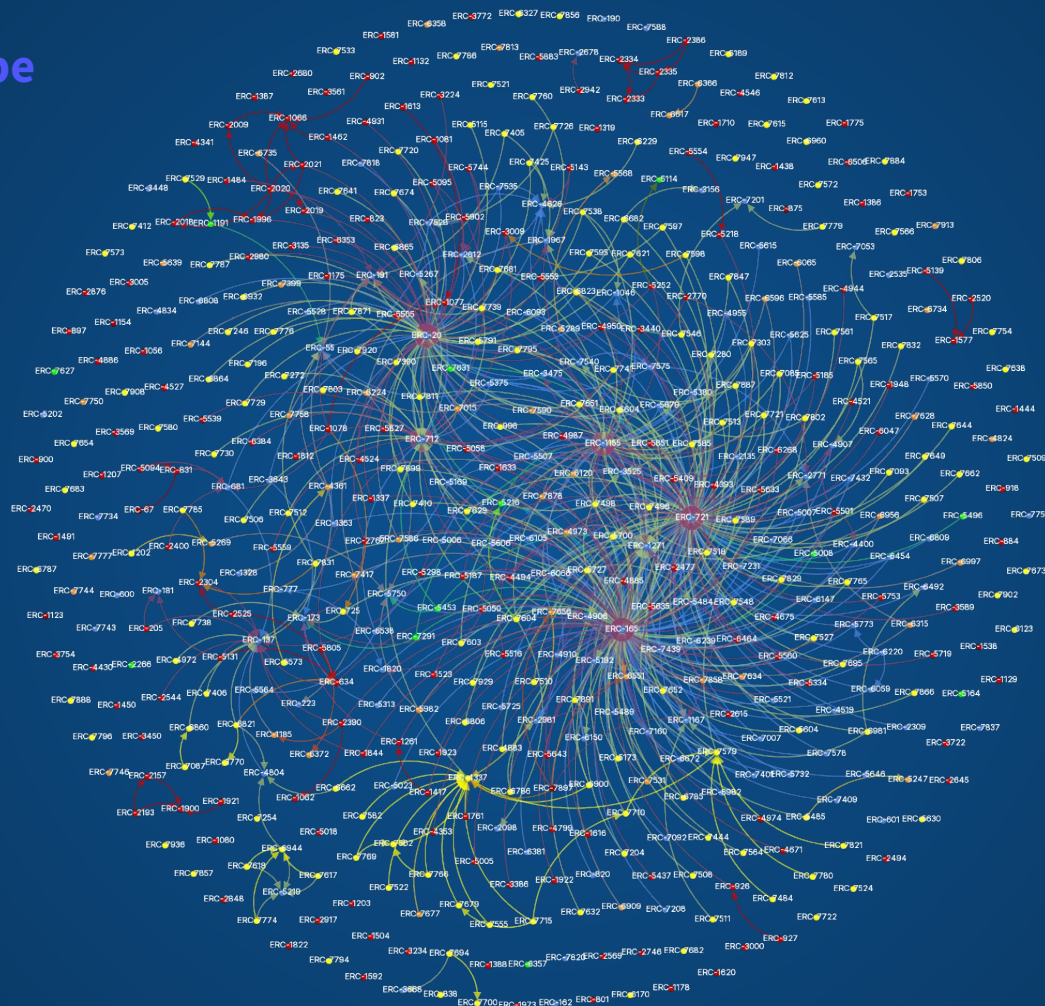


The ERC tierlist

Hadrien Croubois – EthCC[8] July 2025

The ERC landscape

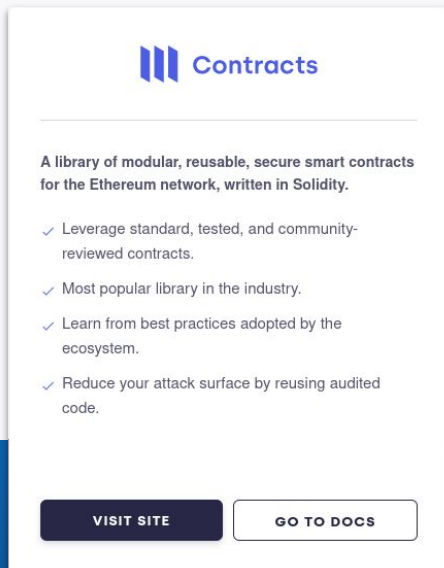


Final 116
Last Call 12
Review 45
Draft 171
Stagnant 170
Withdrawn 6
Total 520

Contracts

@openzeppelin/contracts@5.4.0-rc.1

@openzeppelin/contracts-upgradeable@5.4.0-rc.1



The screenshot shows the OpenZeppelin Contracts GitHub repository page. At the top, there is a header with the OpenZeppelin logo (three vertical bars) and the word "Contracts". Below the header, there is a description: "A library of modular, reusable, secure smart contracts for the Ethereum network, written in Solidity." Underneath the description, there is a list of four bullet points, each preceded by a checkmark icon. At the bottom of the page, there are two buttons: "VISIT SITE" and "GO TO DOCS".

Contracts

A library of modular, reusable, secure smart contracts for the Ethereum network, written in Solidity.

- ✓ Leverage standard, tested, and community-reviewed contracts.
- ✓ Most popular library in the industry.
- ✓ Learn from best practices adopted by the ecosystem.
- ✓ Reduce your attack surface by reusing audited code.

[VISIT SITE](#) [GO TO DOCS](#)

God tier



Ecosystem
shaping



Actually useful



Useless



Not even the
authors
understands it



In retrospect it
was a bad idea



That is not even
an ERC



All view are my own

Please have some sense of humor and don't be offended

God tier



Ecosystem
shaping



Actually useful



Useless



Not even the
authors
understands it



In retrospect it
was a bad idea



That is not even
an ERC



Standards Track: ERC

ERC-1363: Payable Token

Authors Vittorio Minacori (@vittominacori)

Created 2018-08-30

Requires EIP-20, EIP-165

God tier 😍	
Ecosystem shaping 🤖	
Actually useful 😐	ERC-1363
Useless 🙄	
Not even the authors understands it 🙄	
In retrospect it was a bad idea 😞	
That is not even an ERC 😡	

God tier



Ecosystem
shaping



Actually useful



ERC-1363

Useless



Not even the
authors
understands it



In retrospect it
was a bad idea



That is not even
an ERC



Standards Track: ERC

ERC-20: Token Standard

Authors Fabian Vogelsteller <fabian@ethereum.org>, Vitalik Buterin <vitalik.buterin@ethereum.org>

Created 2015-11-19

God tier 😍	
Ecosystem shaping 🥳	ERC-20
Actually useful 😏	ERC-1363
Useless 🙄	
Not even the authors understands it 🙄	
In retrospect it was a bad idea 😞	
That is not even an ERC 😡	

God tier 😄	
Ecosystem shaping 👩🏫	ERC-20
Actually useful 😊	ERC-1363
Useless 😞	
Not even the authors understands it 🙄	
In retrospect it was a bad idea 😓	
That is not even an ERC 😡	

Standards Track: ERC

ERC-165: Standard Interface Detection

Authors Christian Reitwießner <chris@ethereum.org>, Nick Johnson <nick@ethereum.org>, Fabian Vogelsteller <fabian@lukso.network>, Jordi Baylina <jordi@baylina.cat>, Konrad Feldmeier <konrad.feldmeier@brainbot.com>, William Entriken <github.com@phor.net>

Created 2018-01-23

Requires EIP-214

God tier 😍	
Ecosystem shaping 🥳	ERC-20
Actually useful 😏	ERC-1363
Useless 🤔	ERC-165
Not even the authors understands it 😬	
In retrospect it was a bad idea 😞	
That is not even an ERC 😡	

God tier 😍
Ecosystem shaping 👩🏫
Actually useful 😊
Useless 😞
Not even the authors understands it 😬
In retrospect it was a bad idea 😓
That is not even an ERC 😡

ERC-20

ERC-1363

ERC-165

Standards Track: ERC

ERC-777: Token Standard

Authors Jacques Dafflon <mail@0xjac.com>, Jordi Baylina <jordi@baylina.cat>, Thomas Shababi <tom@truelevel.io>

Created 2017-11-20

Requires EIP-1820

God tier 😍	
Ecosystem shaping 👩🏻‍💻	ERC-20
Actually useful 😊	ERC-1363
Useless 🙄	ERC-165
Not even the authors understands it 😬	
In retrospect it was a bad idea 😞	ERC-777
That is not even an ERC 😡	

God tier 😄	
Ecosystem shaping 🥳	ERC-20
Actually useful 😊	ERC-1363
Useless 😞	ERC-165
Not even the authors understands it 🙄	
In retrospect it was a bad idea 😓	ERC-777
That is not even an ERC 😡	

Standards Track: ERC

ERC-721: Non-Fungible Token Standard

Authors William Entriken (@fulldecent), Dieter Shirley <dete@axiomzen.co>, Jacob Evans <jacob@dekz.net>, Nastassia Sachs <nastassia.sachs@protonmail.com>

Created 2018-01-24

Requires EIP-165

God tier 		
Ecosystem shaping 	ERC-20	ERC-721
Actually useful 	ERC-1363	
Useless 	ERC-165	
Not even the authors understands it 		
In retrospect it was a bad idea 	ERC-777	
That is not even an ERC 		

God tier 😍		
Ecosystem shaping 👩🏫	ERC-20	ERC-721
Actually useful 😊	ERC-1363	
Useless 😞	ERC-165	Standards Track: ERC ERC-1155: Multi Token Standard   Authors Witek Radomski <witek@enjin.io>, Andrew Cooke <ac0dem0nk3y@gmail.com>, Philippe Castonguay (@phabc) <pc@horizongames.net>, James Therien <james@turing-complete.com>, Eric Binet <eric@enjin.io>, Ronan Sanford (@wighawag) <wighawag@gmail.com> Created 2018-06-17 Requires EIP-165
Not even the authors understands it 😬		
In retrospect it was a bad idea 😞	ERC-777	
That is not even an ERC 😞		

God tier 		
Ecosystem shaping 	ERC-20	ERC-721
Actually useful 	ERC-1363	ERC-1155
Useless 	ERC-165	
Not even the authors understands it 		
In retrospect it was a bad idea 	ERC-777	
That is not even an ERC 		

God tier 👁️		
Ecosystem shaping 👁️	ERC-20	ERC-721
Actually useful 😊	ERC-1363	ERC-1155
Useless 😞	ERC-165	Standards Track: ERC ERC-223: Token with transaction handling model 🗨️ <> Token with transaction handling model designed to behave identical to native currency (ether) Authors Dexaran (@Dexaran) <dexaran@ethereumclassic.org> Created 2017-05-03
Not even the authors understands it 👁️		
In retrospect it was a bad idea 😞	ERC-777	
That is not even an ERC 😞		

God tier 		
Ecosystem shaping 	ERC-20	ERC-721
Actually useful 	ERC-1363	ERC-1155
Useless 	ERC-165	
Not even the authors understands it 		
In retrospect it was a bad idea 	ERC-777	ERC-223
That is not even an ERC 		

God tier 🤖		
Ecosystem shaping 🐼	ERC-20	ERC-721
Actually useful 😐	ERC-1363	ERC-1155
Useless 😓	ERC-165	
Not even the authors understands it 🙄		
In retrospect it was a bad idea 😞	ERC-777	ERC-223
That is not even an ERC 😡		

ERC: transferAndCall Token Standard #677

 Closed



se3000 opened on Jul 19, 2017 · edited by se3000

Edits · ⋮

Preamble

ERC: 677
Title: transferAndCall Token Standard
Type: Informational
Category: ERC
Status: Draft
Created: 2017-07-17
Requires: ERC20



God tier 		
Ecosystem shaping 	ERC-20	ERC-721
Actually useful 	ERC-1363	ERC-1155
Useless 	ERC-165	
Not even the authors understands it 		
In retrospect it was a bad idea 	ERC-777	ERC-223
That is not even an ERC 	677	

God tier 👑		
Ecosystem shaping 👑	ERC-20	ERC-721
Actually useful 😊	ERC-1363	ERC-1155
Useless 😞	ERC-165	
Not even the authors understands it 🤔		
In retrospect it was a bad idea 😞	ERC-777	ERC-223
That is not even an ERC 😞	677	

Standards Track: ERC

ERC-2612: Permit Extension for EIP-20 Signed Approvals <>

EIP-20 approvals via EIP-712 secp256k1 signatures

Authors Martin Lundfall (@Mrchico)

Created 2020-04-13

Requires EIP-20, EIP-712

God tier 😍			
Ecosystem shaping 👾	ERC-20	ERC-721	
Actually useful 😊	ERC-1363	ERC-1155	ERC-2612
Useless 🙄	ERC-165		
Not even the authors understands it 🙄			
In retrospect it was a bad idea 😞	ERC-777	ERC-223	
That is not even an ERC 😞	677		

God tier 👁️					
Ecosystem shaping 👁️	ERC-20	ERC-721			
Actually useful 😊	ERC-1363	ERC-1155	ERC-2612		
Useless 🙄	ERC-165				
Not even the authors understands it 🙄					
In retrospect it was a bad idea 🙄	ERC-777	ERC-223			
That is not even an ERC 🙄	677				

Standards Track: Interface

EIP-712: Typed structured data hashing and signing 💬 <>

A procedure for hashing and signing of typed structured data as opposed to just bytestrings.

Authors Remco Bloemen (@Recmo), Leonid Logvinov (@LogvinovLeon), Jacob Evans (@dekz)

Created 2017-09-12

Requires EIP-155, EIP-191

God tier 😍	EIP-712			
Ecosystem shaping 👉👈	ERC-20	ERC-721		
Actually useful 😬	ERC-1363	ERC-1155	ERC-2612	
Useless 🙄	ERC-165			
Not even the authors understands it 🙄				
In retrospect it was a bad idea 😞	ERC-777	ERC-223		
That is not even an ERC 😡	677			

God tier 😄	EIP-712		
Ecosystem shaping 👩🏫	ERC-20	ERC-721	
Actually useful 😊	ERC-1363	ERC-1155	ERC-2612
Useless 😞	ERC-165	Standards Track: ERC ERC-1271: Standard Signature Validation Method for Contracts 💬 <> Standard way to verify a signature when the account is a smart contract Authors Francisco Giordano (@frangio), Matt Condon (@shrugs), Philippe Castonguay (@PhABC), Amir Bandeali (@abandeali1), Jorge Izquierdo (@izqui), Bertrand Masius (@catageek) Created 2018-07-25	
Not even the authors understands it 😬			
In retrospect it was a bad idea 😞	ERC-777	ERC-223	
That is not even an ERC 😞	677		

God tier 	EIP-712			
Ecosystem shaping 	ERC-20	ERC-721	ERC-1271	
Actually useful 	ERC-1363	ERC-1155	ERC-2612	
Useless 	ERC-165			
Not even the authors understands it 				
In retrospect it was a bad idea 	ERC-777	ERC-223		
That is not even an ERC 	677			

God tier 😍	EIP-712		
Ecosystem shaping 🤖	ERC-20	ERC-721	ERC-1271
Actually useful 😊	ERC-1363		
Useless 😞	ERC-165		
Not even the authors understands it 🙄			
In retrospect it was a bad idea 😓	ERC-777	ERC-223	
That is not even an ERC 😡	677		

Draft **Standards Track: ERC**

ERC-4337: Account Abstraction Using Alt Mempool

An account abstraction proposal which completely avoids consensus-layer protocol changes, instead relying on higher-layer infrastructure.

Authors Vitalik Buterin (@vbuterin), Yoav Weiss (@yoavw), Dror Tirosh (@drortirosh), Shahaf Nacson (@shahafn), Alex Forshtat (@forshtat), Kristof Gazso (@kristofgazso), Tjaden Hess (@tjade273)

Created 2021-09-29

Discussion Link <https://ethereum-magicians.org/t/erc-4337-account-abstraction-via-entry-point-contract-specification/7160>

Requires EIP-712, EIP-7562

God tier 😍	EIP-712				
Ecosystem shaping 👉	ERC-20	ERC-721	ERC-1271	ERC-4337	
Actually useful 😏	ERC-1363	ERC-1155	ERC-2612		
Useless 🙄	ERC-165				
Not even the authors understands it 😐					
In retrospect it was a bad idea 😞	ERC-777	ERC-223			
That is not even an ERC 😡	677				

God tier 😍	EIP-712				
Ecosystem shaping 👩🏽💡	ERC-20	ERC-721	ERC-1271	ERC-4337	
Actually useful 😊	ERC-1363				
Useless 😞	ERC-165				
Not even the authors understands it 🙄					
In retrospect it was a bad idea 😞	ERC-777	ERC-223			
That is not even an ERC 😞	677				

 Draft Standards Track: ERC

ERC-7562: Account Abstraction Validation Scope Rules

A set of limitations on validation EVM code to protect Account Abstraction nodes from denial-of-service attacks through unpaid computation.

Authors Yoav Weiss (@yoavw), Dror Tirosh (@drortirosh), Alex Forshtat (@forshtat), Shahaf Nacson (@shahafn)

Created 2023-09-01

Discussion Link <https://ethereum-magicians.org/t/erc-7562-account-abstraction-validation-scope-rules/16683>

God tier 😍	EIP-712				
Ecosystem shaping 🥳	ERC-20	ERC-721	ERC-1271	ERC-4337	
Actually useful 😊	ERC-1363	ERC-1155	ERC-2612		
Useless 😓	ERC-165				
Not even the authors understands it 😬	ERC-7562				
In retrospect it was a bad idea 😞	ERC-777	ERC-223			
That is not even an ERC 😡	677				

God tier 👑	EIP-712				
Ecosystem shaping 👩🏫	ERC-20	ERC-721	ERC-1271	ERC-4337	
Actually useful 😊	ERC-1363	Draft Standards Track: ERC ERC-6900: Modular Smart Contract Accounts 💬 <> Interfaces for smart contract accounts and modules, optionally supporting upgradability and introspection Authors Adam Egyed (@adamegyed), Fangting Liu (@trinity-0111), Jay Paik (@jaypaik), Yoav Weiss (@yoavw), Huawei Gu (@huaweigu), Daniel Lim (@dlim-circle), Ruben Koch (@0xrubes), David Philipson (@dphilipson), Howy Ho (@howydev), Nikita Belenkov (@nikita-quantstamp), zer0dot (@zer0dot), David Kim (@PowerStream3604) Created 2023-04-18 Discussion Link https://ethereum-magicians.org/t/eip-modular-smart-contract-accounts-and-plugins/13885 Requires EIP-165, EIP-1271, EIP-4337			
Useless 😞	ERC-165				
Not even the authors understands it 🙄	ERC-7562				
In retrospect it was a bad idea 😓	ERC-777	ERC-223			
That is not even an ERC 😡	677				

God tier 😍	EIP-712				
Ecosystem shaping 🥳	ERC-20	ERC-721	ERC-1271	ERC-4337	
Actually useful 😊	ERC-1363	ERC-1155	ERC-2612		
Useless 😓	ERC-165				
Not even the authors understands it 😬	ERC-7562	ERC-6900			
In retrospect it was a bad idea 😞	ERC-777	ERC-223			
That is not even an ERC 😡	677				

God tier 🤖	EIP-712			
Ecosystem shaping 🧑🏻‍🔧	ERC-20	ERC-721	ERC-1271	ERC-4337
Actually useful 😊	ERC-1363			
Useless 😞	ERC-165			
Not even the authors understands it 🙄	ERC-7562			
In retrospect it was a bad idea 😓	ERC-777	ERC-223		
That is not even an ERC 😡	677			

Standards Track: ERC

ERC-2771: Secure Protocol for Native Meta Transactions 🗨️ <>

A contract interface for receiving meta transactions through a trusted forwarder

Authors Ronan Sandford (@wighawag), Liraz Siri (@lirazsiri), Dror Tirosh (@drortirosh), Yoav Weiss (@yoavw), Alex Forshtat (@forshtat), Hadrien Croubois (@Amxx), Sachin Tomar (@tomarsachin2271), Patrick McCorry (@stonecoldpat), Nicolas Venturo (@nventuro), Fabian Vogelsteller (@frozeman), Gavin John (@Pandapip1)

Created 2020-07-01

God tier 😍	EIP-712				
Ecosystem shaping 🥳	ERC-20	ERC-721	ERC-1271	ERC-4337	
Actually useful 😊	ERC-1363	ERC-1155	ERC-2612	ERC-2771	
Useless 😓	ERC-165				
Not even the authors understands it 😬	ERC-7562	ERC-6900			
In retrospect it was a bad idea 😞	ERC-777	ERC-223			
That is not even an ERC 😡	677				

God tier 🤖	EIP-712				
Ecosystem shaping 👩🏫	ERC-20	ERC-721	ERC-1271	ERC-4337	
Actually useful 😊	ERC-1363	ERC-1155	ERC-2612	ERC-2771	
Useless 😞	ERC-165				
Not even the authors understands it 🙄	ERC-7562				
In retrospect it was a bad idea 😓	ERC-777	ERC-223			
That is not even an ERC 😡	677				

Standards Track: ERC

ERC-6093: Custom errors for commonly-used tokens 🗨️ <>

Lists custom errors for common token implementations

Authors Ernesto García (@ernestognw), Francisco Giordano (@frangio), Hadrien Croubois (@Amxx)

Created 2022-12-06

Requires EIP-20, EIP-721, EIP-1155

God tier 😍	EIP-712				
Ecosystem shaping 🥳	ERC-20	ERC-721	ERC-1271	ERC-4337	
Actually useful 😊	ERC-1363	ERC-1155	ERC-2612	ERC-2771	
Useless 😓	ERC-165	ERC-6093			
Not even the authors understands it 😬	ERC-7562	ERC-6900			
In retrospect it was a bad idea 😞	ERC-777	ERC-223			
That is not even an ERC 😡	677				

God tier 😍	EIP-712				
Ecosystem shaping 👩🏽💡	ERC-20	ERC-721	ERC-1271	ERC-4337	
Actually useful 😊	ERC-1363	ERC-1155	ERC-2612	ERC-2771	
Useless 😞	ERC-165	Standards Track: ERC ERC-7751: Wrapping of bubbled up reverts 🗨️ <> Handling bubbled up reverts using custom errors with additional context Authors Daniel Gretzke (@gretzke), Sara Reynolds (@snreynolds), Alice Henshaw (@hensha256), Marko Veniger <marko.veniger@tenderly.co>, Hadrien Croubois (@Amxx) Created 2024-08-06			
Not even the authors understands it 🤖	ERC-7562				
In retrospect it was a bad idea 😞	ERC-777	ERC-223			
That is not even an ERC 😞	677				

God tier 😍	EIP-712			ERC-4337	
Ecosystem shaping 🐱💡	ERC-20	ERC-721	ERC-1271		
Actually useful 😊	ERC-1363	ERC-1155	ERC-2612	ERC-2771	
Useless 😞	ERC-165	ERC-6093			ERC-7551
Not even the authors understands it 🙄	ERC-7562	ERC-6900			
In retrospect it was a bad idea 😓	ERC-777	ERC-223			
That is not even an ERC 😡	677				

God tier 😍	EIP-712				
Ecosystem shaping 👩‍💻	ERC-20	ERC-721	ERC-1271	ERC-4337	
Actually useful 😊	ERC-1363	ERC-1155	ERC-2612	ERC-2771	
Useless 😞	ERC-165				
Not even the authors understands it 🙄	ERC-7562				
In retrospect it was a bad idea 😓	ERC-777	ERC-223			
That is not even an ERC 😡	677				

Withdrawn

Standards Track: ERC

ERC-1154: Oracle Interface

Authors Alan Lu (@cag)

Created 2018-06-13

Discussion Link <https://github.com/ethereum/EIPs/issues/1161>

God tier 😍	EIP-712	ERC-4337		
Ecosystem shaping 👉👈	ERC-20	ERC-721	ERC-1271	
Actually useful 😊	ERC-1363	ERC-1155	ERC-2612	ERC-2771
Useless 😞	ERC-165	ERC-6093	ERC-1154	ERC-7551
Not even the authors understands it 🙄	ERC-7562	ERC-6900		
In retrospect it was a bad idea 😓	ERC-777	ERC-223		
That is not even an ERC 😡	677			

Standards Track: ERC

ERC-2535: Diamonds, Multi-Facet Proxy

Create modular smart contract systems that can be extended after deployment.

Authors Nick Mudge (@mudgen)

Created 2020-02-22

[illegible]

Standards Track: ERC

ERC-7201: Namespaced Storage Layout

Conventions for the storage location of structs in the namespaced storage pattern.

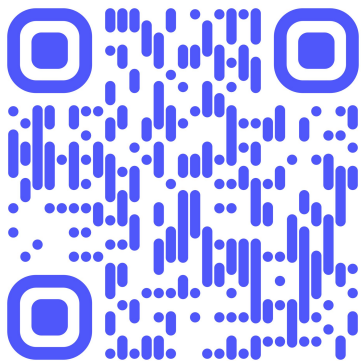
Authors Francisco Giordano (@frangio), Hadrien Croubois (@Amxx), Ernesto García (@ernestognw), Eric Lau (@ericglau)

Created 2023-06-20

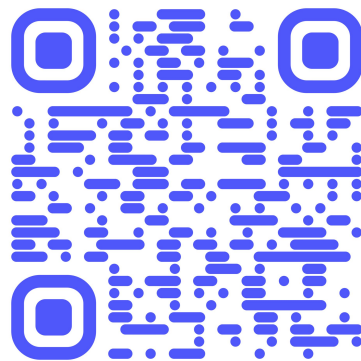
[illegible]

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