URL: https://www.base.org/  
  
5.93  
Mgwei  
Build  
Explore  
Community  
About  
Socials  
Base is for everyone.  
Start building  
Get a Basename  
Built on the Superchain  
We are bringing the world onchain to crea.  
Build  
Docs Get started building on Base by reading our docs.  
Resources Resources for builders to build, fund and grow your apps.  
Explore  
Apps Explore the apps in the Base ecosystem.  
Bridge Bring your assets to Base.  
Built for Billions  
Our vision to keep fees low (below 1 cent) and transactions fast (below 1 second) will help bring the next billion people onchain.  
Worldwide reach  
The Base economy is made up of millions of people, thousands of builders, and onramps in 190+ countries.  
Open and trusted  
Base is built as an Ethereum L2, decentralized with the Optimism Superchain, and incubated by Coinbase.  
Base is for everyone - القاعدة للجميع - 基地适合所有人 - La Base è per tutti - Base est pour tout le monde -  
Transactions  
below one cent\*  
Build and you will be rewarded  
Base supports passionate builders making apps for everyday life with grants, marketing, and as part of the Superchain, Base builders are eligible for consideration in Optimism's retroactive public goods funding.  
Get rewarded  
Read the latest from Base  
Base is meeting builders around the world  
Read  
Subscribe  
Terms of Service  
Privacy Policy  
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URL: https://www.base.org/getstarted  
  
—  
Mgwei  
Build  
Explore  
Community  
About  
Socials  
Resources for Builders  
Get help to build and grow your project on Base with our Builder Resource Kit  
The Essentials  
Jump to our most frequently requested tools and resources.  
CREATE YOUR PROFILE  
Claim a Basename and create your Based Profile to connect with other Builders  
OFFICE HOURS  
Check out our Office Hours schedule to ask your questions live  
GET INVOLVED  
Become an active participant in the Base community  
GET FUNDED  
A collection of monetary programs to help you build or grow your project  
GET NOTICED  
Looking for help with distribution? Get noticed by millions of potential new users  
BUILD YOUR PROJECT  
Resources that make it easy to build and use your onchain project  
Fund Your Project  
01  
BASE ECOSYSTEM FUND  
Early stage projects (pre-seed to seed) building on Base can apply for investment  
02  
ROUNDS GRANTS  
Post to /base-builds on Farcaster to be eligible for 2.25 ETH in weekly rewards  
03  
GAS CREDITS  
Eligible projects may receive up to $15K in gas credits for their users  
Get Noticed  
01  
ONCHAIN CONTENT NETWORK  
Submit your project to be viewed by millions of potential users across the network  
02  
BASE BUILDS CHANNEL  
Share your project on /base and /base-builds to get community feedback on Farcaster  
Get Involved  
01  
JOIN THE DISCORD  
Join our Discord of over 300K+ members and get involved in our Base community  
02  
HOST A MEETUP  
Sign up to host a meetup with other Based builders anywhere in the world  
03  
USE APPS ON BASE  
Browse and use projects being built on the Base ecosystem  
Start Building  
Learn how to build a project  
01  
LEARN TO BUILD ONCHAIN  
Become an onchain developer with our comprehensive smart contract curriculum  
02  
TUTORIALS  
Build now with 1-2-3 quickstarts, then evolve your onchain app with advanced topics  
Save time building  
01  
ONCHAINKIT  
Build your apps in minutes with off-the-shelf React components and onchain integrations  
02  
SUPPORT TEAM  
If you're ever in need, please reach out in a dedicated Discord support channel  
Make your project easy to use  
01  
COINBASE SMART WALLET  
Enable your users to create an account in seconds, without apps or seed phrases  
02  
GAS SPONSORSHIP  
Reduce costs and Sponsor Gas for you users, with the Coinbase Paymaster and Bundler  
03  
COINBASE ONRAMP  
Fiat-to-crypto made fast, easy, and secure using Coinbase Onramp  
VIEW ALL RESOURCES  
Start building with us  
OFFICE HOURS  
VIEW OUR DOCS  
Terms of Service  
Privacy Policy  
Cookie Policy  
Cookie Manager

URL: https://www.base.org/names  
  
Basenames  
Buil  
Scroll to explore  
ianlakes.base.eth  
wilsoncusack.base.eth  
aflock.base.eth  
johnpalmer.base.eth  
jfrankfurt.base.eth  
lsr.base.eth  
dcj.base.eth  
zencephalon.base.eth  
Get so much more on  
Base with your profile  
Build your onchain identity  
Use your Basename as your onchain identity in the Base ecosystem.  
Simplify transactions  
Send and receive seamlessly with a readable and memorable Basename.  
Connect and collaborate  
Easily find mentors and others to build with by seeing their profiles.  
Decentralized and open source  
Basenames are built on the decentralized, open source ENS protocol, aligned with Base’s dedication to decentralized and open source technologies.  
Questions?  
See our FAQ  
Get more answers in our FAQ, and view our developer docs to see how you can build with Basenames.  
What are Basenames?  
What are the Basename registration fees?  
How do I get a free or discounted Basename?  
How can I use Basenames?  
Is my profile information published onchain?  
I am a builder. How do I integrate Basenames to my app?  
How do I get a Basename for my app or project?  
Terms of Service  
Privacy Policy  
Cookie Policy  
Cookie Manager

URL: https://base.mirror.xyz/  
  
Subscribe  
Base  
0xcB5A  
An Ethereum L2, incubated by Coinbase and built on the open-source OP Stack. We have no plans to issue a new network token.  
Entries  
Collection  
Subscribe to Base  
Receive the latest updates directly to your inbox.  
Subscribe  
Base Mainnet 09/21/24 Incident Postmortem  
Base  
September 28  
Lessons learned from Base’s recent block building outage  
76 Collected  
Mint  
Base is meeting builders around the world  
Base  
September 23  
TLDR: Base is for everyone — and this fall, we’re going global by meeting with builders around the world. We’ll start with a series of regional buildathons in Africa, India, Southeast Asia, and Latin America. The buildathons will run from September 27 to October 20, with 100 ETH in total prizes. Then in November, the Base team and Jesse Pollak will meet with builders in person in Nairobi, Bangalore, Bangkok, Singapore, and Manila, and virtually in Buenos Aires.  
183 Collected  
Mint  
Summer never ends  
Base  
September 10  
TLDR: This year for Onchain Summer, we invited people around the world to participate and showcased hundreds of onchain builders and creators — resulting in $5M+ in onchain revenue for builders, creators, and projects, 2M+ unique wallets participating in onchain experiences, and 24M+ onchain assets minted. The event highlighted how onchain puts ownership back in the hands of creators — and we're excited to continue spotlighting the projects and people driving an onchain future.  
165 Collected  
Mint  
Scaling Base: Looking towards the upcoming Pectra upgrade  
Base  
September 04  
One of Base’s 2024 roadmap initiatives is making onchain accessible and affordable for everyone. We’re focused on delivering fast, low-cost transactions on a secure, decentralized L2 to enable global participation in the onchain economy.  
Mint  
Build your onchain identity with Basenames  
Base  
August 21  
TLDR: Basenames are the fastest way to start building on Base, making it easier to connect, collaborate, and contribute onchain. Get your Basename at base.org/names  
568 Collected  
Mint  
Announcing the Onchain Summer Buildathon Winners  
Base  
August 02  
TLDR: The Onchain Summer Buildathon invited builders everywhere to unleash their creativity onchain. Over 1,250 final projects were submitted from 7,500+ builders around the world, making this the largest onchain hackathon. Now, it's time to spotlight those who rose to the challenge.  
237 Collected  
Mint  
Introducing the Onchain Content Network  
Base  
July 25  
TLDR: This Onchain Summer and beyond, we want to share what you’re building with millions of people across the world.  
246 Collected  
Mint  
Stage 1 Decentralization is Coming to Base  
Base  
July 23  
TLDR: Fault proofs are now live on Base testnet, marking a step forward towards Stage 1 Decentralization.  
593 Collected  
Mint  
Introducing BaseCamp 001: onchain–offgrid  
Base  
May 30  
TLDR: Since day one, Base has rallied a community of builders working to create a decentralized future onchain, together. We’ve seen the impact of collective action to reshape the internet, and now with the 1-year anniversary of Base mainnet coming up this August, we’re bringing the community together in person with BaseCamp, our inaugural gathering of builders and creators building the next generation of the internet onchain. Learn more and apply to attend.  
590 Collected  
Mint  
View More Entries

URL: https://optimism.io/build  
  
Vision  
Build  
Governance  
Apps  
Bridge  
Join  
Build  
The fast and affordable platform powering teams of all sizes. Join Base, Zora, OP Mainnet, Farcaster, and hundreds more on the Superchain.  
Deploy a chain  
Deploy an app  
Deploy your chain  
Create your own OP Chain on the Superchain and join a network of decentralized blockspace, powered by the OP Stack, secured by Optimism Governance.  
Get in touch  
Base  
Fraxtal  
Mode  
OP Mainnet  
Redstone  
Zora  
Your chain  
Shared Upgrades  
Inherit governance-approved upgrades from the OP Stack and benefit from the best protocol stack in the industry.  
Security  
Get best-in-class security and incident response to keep your chain & your users safe.  
Ecosystem Support  
Turnkey developer tooling, pre-deployed infrastructure, guaranteed integrations, and cross-chain growth campaigns to give your project a head start.  
Revenue  
Boost your business by collecting a margin from transaction fees on your chain.  
Funding  
Ongoing public goods funding keeps the network safe and creates best-in-class develop tooling.  
Liquidity - coming soon  
Interoperability across chains allows 1:1 swaps, improving user experience and lowering liquidity fragmentation.  
Deploy your app in seconds  
Go anywhere in the Superchain to build fast and grow your business.  
Get started tutorial  
Launch on the Superchain  
BasePaint  
BasePaint is a collaborative pixel art app. Artists come together daily to...  
Built on Base  
Synthetix  
Synthetix is a system designed to let users hold and trade synthetic asse...  
Built on OP Mainnet  
Movement  
Collection by Noko  
Collect on Zora  
Mode Domains  
Allows the creation of peer-to-peer parimutuel markets. The foundation...  
Built on Mode  
Frax  
Trustless, permissionless, and non-custodial lending platform that provides lending markets between an...  
Built on Fraxtal  
Fren Pet  
Own and grow with your onchain fren.  
Built on Base  
Worldcoin  
An open source protocol created to help give everyone access to the global economy  
Built on OP Mainnet  
Build with the OP Stack  
The open-source engine behind the Superchain: modular, scalable, highly interoperable, and built for blockchains of all kinds.  
View docs  
Open & transparent  
Always open source, and proudly forked by over 40 chains – it’s in our DNA.  
Ethereum-aligned  
Less than 1k lines of code diff from L1 geth. The cleanest, safest, scaling solution.  
Parallel development  
Core developers collaborate and contribute to protocol development. If you want to go far, go together.  
Designed to scale  
Modular consensus, execution, and proof systems. Multiple alternative stacks, with innovation on all fronts.  
Trusted by developers,  
financiers, artists,  
rebels, & Fortune 500s  
Developer Docs  
Developer Blog  
Superchain Faucet  
Grants  
Good morning  
Before you continue into the world of Optimism, please read and agree to the Terms of Service and Optimism Community Agreement.  
Agree to terms  
OPTIMISM  
About  
Blog  
Brand Kit  
Careers  
Community Docs  
Events  
BUILD  
Developer Docs  
Grants  
GitHub  
Onchain Data  
SUPPORT  
Help center  
Report a Bug  
Status  
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Sign Up for Our Newsletter  
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Optimism Community Agreement  
Terms of Service  
Privacy Policy

URL: https://bridge.base.org/  
  
Ecosystem  
Developers  
About  
Socials  
Superchain Bridges  
Go to Superbridge or Brid.gg to bridge your assets to and from Base. For questions, see our FAQ.  
SUPERBRIDGE  
By Blob Engineering  
BRID.GG  
By Bridgg  
Coinbase Technologies, Inc., provides links to these independent service providers for your convenience but assumes no responsibility for their operations. Any interactions with these providers are solely between you and the provider.  
FREQUENTLY ASKED QUESTIONS  
Can I still use the bridge on bridge.base.org?  
I used bridge.base.org in the past, how do I find my deposit or withdrawal?  
Why has Base deprecated the bridge on bridge.base.org?  
Who operates Superchain Bridges like Superbridge.com and Brid.gg?  
What if I have a question, issue or problem?

URL: https://base.mirror.xyz/Fk1jnSmh84MlauA1z-UogFjjNBu5VLF4JrKgyqVYhWA  
  
Subscribe  
Base is meeting builders around the world  
Base  
0xcB5A  
September 23rd, 2024  
Mint  
TLDR: Base is for everyone — and this fall, we’re going global by meeting with builders around the world. We’ll start with a series of regional buildathons in Africa, India, Southeast Asia, and Latin America. The buildathons will run from September 27 to October 20, with 100 ETH in total prizes. Then in November, the Base team and Jesse Pollak will meet with builders in person in Nairobi, Bangalore, Bangkok, Singapore, and Manila, and virtually in Buenos Aires.  
Base’s mission is to increase innovation, creativity, and freedom, and we know we can't achieve this mission alone. This fall, we’re excited to meet with builders around the world.  
To kick things off, we’re launching Base Around the World: a series of regional buildathons in Africa, India, Southeast Asia, and Latin America. Following the buildathons, Jesse Pollak and the Base team will meet in person with builders in Nairobi, Bangalore, Bangkok, Singapore, and Manila, and virtually in Buenos Aires. Dates for each event will be announced soon.  
We’re focused on these regions for two main reasons:  
We’re seeing tremendous energy: Today, 74% of onchain builders live outside the US and these four regions are seeing some of the fastest growth in onchain adoption. In each, there are growing onchain use cases and talented builders who are solving hard problems. We want to connect, find opportunities to build together, and empower them with resources and support.  
We can use onchain to solve problems in local contexts: Every community has different challenges and contexts where onchain technology can be useful. Building a better internet starts by local communities solving local challenges, in ways just now becoming possible. That’s why we are taking a local focus for these buildathons. We want to zero in on the use cases that will bring people benefits in their everyday lives.  
Base Around the World: Africa, India, Latin America, and Southeast Asia  
The buildathons will run in parallel from September 27 to October 13. There is one simple prompt: Build an onchain app that solves a challenge in your community, or use existing onchain tools to create real-world impact in your community by bringing them onchain.  
If you’re looking for ideas, here are a few places to start:  
Help people come together, connect, and collaborate more easily — onchain or IRL  
Unlock access to social and educational resources  
Build tools that provide easier access to the onchain economy  
Create localized social or e-commerce apps  
Create platforms that empower creators to share their work (or, if you're a creator yourself, share your own)  
Make a blog, write a blog post, create a YouTube or TikTok video, or other content showing how you're making an impact and bringing your community onchain  
Registration is now open on Devfolio:  
Based Africa  
Based Southeast Asia  
Based LatAm  
Based India  
We’re excited to co-present the buildathons with local builders who are already driving impact in their communities.  
Based Africa  
Connecting builders from all corners of the continent and co-presented by Base Africa, Borderless Africa, Onboard and Yellow Card. Stay connected with builders across Africa on /base-africa on Warpcast and get support from Base Devel on #based-africa on the Base Discord.  
Based Southeast Asia  
Covering Thailand, Vietnam, Singapore, Laos, Cambodia, Myanmar, Indonesia, Brunei, Malaysia, and the Philippines, and co-presented by Base Southeast Asia, Yield Guild Games, Bitkub, and Coins.ph. Connect with builders across Southeast Asia on /base-sea on Base Warpcast, and join #based-sea on the Base Discord for dev support.  
Based LatAm  
Spanning Central and South America, from Mexico to Argentina, and co-presented by Base LatAm (powered by Odisea) and Buenbit. Meet builders across Latin America on /base-latam, and join #based-latam on Discord for buildathon questions and updates.  
Based India  
Focused on all of India and co-presented by Base India (powered by Farcaster Builders India), Levitate Labs, KGeN and Okto by CoinDCX. Get in touch with builders across India on /base-india, and join #based-india on Discord to get support building your product.  
100 ETH in prizes  
The Buildathon is open to anyone from these four regions. Each region will have a prize pool of 25 ETH (for a total of 100 ETH), with 2–8 winners selected from each region.  
Each winner gets:  
Rewards: Winners receive between 3.125 and 12.5 ETH from Base, including contributions from Talent Protocol.  
Marketing & Distribution: All winners will be highlighted at a Base meetup event in-region with Jesse Pollak, and featured on Base social channels (X, Warpcast).  
Network: Connections with some of the most prolific Base builders in your region, with direct access to the Base team.  
For the full set of rules, evaluation criteria, and to apply, visit the respective Devfolio pages for each Buildathon (Africa, Southeast Asia, LatAm, India).  
Meet onchain, online and IRL  
We can’t wait to meet builders in cities around the world this fall. If you can’t make it to any of these cities, you can apply to host a meetup to bring together builders in your community.  
Join a local community on Warpcast, where there are 46 language channels—discover yours on baseworld.org. We’re grateful to all the global community members, particularly Atomo, Nathanael, Harry, Cheryl, Jitz, Kyle, Fer, Carlos, Joao, and Juampi, for making translations of this blog available in their local languages. (Check out translations in Thai, Indonesian, Vietnamese, Malay, Filipino, Spanish, and Portuguese here.)  
Stay based. Keep building.  
All buildathon-related matters, including payouts and logistics, are managed independently by Devfolio, subject to applicable laws and regulations.  
Subscribe to Base  
Receive the latest updates directly to your inbox.  
Subscribe  
Mint this entry as an NFT to add it to your collection.  
Mint  
Verification  
This entry has been permanently stored onchain and signed by its creator.  
ARWEAVE TRANSACTION  
az43s8PjcZW5tEf…4GeA7UTFPf5vUn8  
AUTHOR ADDRESS  
0xcB5AB6B84a66e5E…0AB344532dA4B82  
CONTENT DIGEST  
Fk1jnSmh84MlauA…VLF4JrKgyqVYhWA  
More from Base  
View All

URL: https://rounds.wtf/base-builds  
  
ROUNDS  
+ Add Rounds  
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URL: https://www.superchain.eco/ecosystem-chains/base-coinbase  
  
SUPERCHAIN ECO  
Chains  
Projects  
Citizens  
Analytics  
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Insights  
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Request Changes  
Updated on:   
10/10/24  
Base  
Website  
Twitter  
Github  
Total value locked  
$7.32B  
Projects  
125+  
Accounts  
>2.5m  
Tech  
Bedrock  
Description:  
Base is a secure, low-cost, builder-friendly Layer 2 solution on the Superchain, developed to bring the next billion users onchain. Incubated within Coinbase, Base aims to offer a scalable and accessible platform for decentralized applications (dApps), leveraging the security and decentralization of Ethereum while reducing costs and improving transaction speeds.  
Technology:  
Base utilizes the OP Stack to build its L2 infrastructure. Base supports EVM compatible code, ensuring seamless integration with existing Ethereum tools and applications. The platform also includes advanced features such as account abstraction (ERC4337) and gasless transactions, making it easier for developers to build and users to interact with dApps.  
Dune Data  
Blockworks Research Superchain Dashboard  
Blockworks Research  
The Blockworks Research dashboard provides comprehensive insights into the Superchain Ecosystem. It features data on OP Mainnet, Base, Zora, and Mode.  
Superchain  
Token Terminal Superchain Overview  
Token Terminal  
The Token Terminal Superchain Overview is a dashboard featuring all Superchain members chains that are listed on Token Terminal  
Superchain  
Superchain Health Dashboard  
OP Labs  
The Superchain Health Dashboard gives an overview of key metrics like daily transactions, revenue-generating deployers, and user activity.  
Superchain  
OP Stack analytics  
@abdelhaks  
This dashboard analyzes user growth, transaction costs, and other key metrics across OP Stack networks, including Base, Optimism, Blast, Mode, and Mantle.  
Superchain  
OP Stack Chains  
@oplabspbc  
The OP Stack is the code that powers a series of modules which work together to form blockchains. This dashboard provides an overview of the current traction garnered by OP Stack chains  
DeFi  
Projects  
RubyScore  
Onchain Tooling  
Bebop  
DEX  
stVol  
DEX  
Fractal Visions  
NFT Marketplace  
Symbiosis  
DIA  
Onchain Tooling  
Morpheus.Network  
Onchain Tooling  
Azaar  
DEX  
Pyth Network  
Onchain Tooling  
Gitcoin  
SocialFi  
Open Source Observer  
Onchain Tooling  
Rotki  
Onchain Tooling  
Dragon Academy  
SocialFi  
Hop Protocol  
Bridge   
BaseSwap  
DEX  
dHedge  
Onchain Tooling  
WOOFi  
DEX  
Curve Finance  
DEX  
Yearn Finance  
Onchain Tooling  
Uniswap  
DEX  
Balancer  
DEX  
Aave  
Lending  
Gyroscope  
DEX  
Songbirdz  
SocialFi  
X Protocol  
Gaming  
Glo Dollar  
SocialFi  
Oku Trade  
RetroBridge  
Bridge   
People Powered  
Onchain Tooling  
Moai.cash  
Onchain Tooling  
HelloPay  
SocialFi  
SmolRefuel  
Bridge   
Talent Protocol  
SocialFi  
Cygnus Finance  
The Reserve Protocol  
Onchain Tooling  
deWorld  
Gaming  
Fxhash  
Onchain Tooling  
Unlooped  
SocialFi  
Friend Tech  
SocialFi  
Owlto Finance  
Bridge   
LogX  
Derivatives  
Aerodrome Finance  
DEX  
Seamless Protocol  
Lending  
Farcaster  
Onchain Tooling  
Symbiosis Finance  
DEX  
Overtime markets  
DEX  
Thales  
Onchain Tooling  
Stargate Finance  
Bridge   
Sonne Finance  
Lending  
Extra Finance  
Onchain Tooling  
Aura  
Onchain Tooling  
Hedgey  
Onchain Tooling  
SUPERCHAIN  
‍ECOSYSTEM  
Collective HQ for The Superchain Ecosystem.  
Menu  
Chains  
Projects  
Citizens  
Analytics  
Events  
Insights  
Socials  
Twitter  
Email  
Subscribe  
Stay up to date on our weekly newsletter:  
Kolektivo Labs © 2024  
Privacy Policy  
Terms of Use

URL: https://lu.ma/base-officehours/  
  
4:43 PM GMT+5:30  
Explore Events  
Sign In  
Subscribe  
Base Office Hours  
Times in GMT+5:30 — 4:42 PM  
Meet with the Base team!  
Submit Event  
October  
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Upcoming  
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Events  
Base 0  
Consumer 0  
DeFi 0  
DevRel 0  
Ecosystem Team 0  
Infrastructure 0  
Onchain Summer 0  
Oct 17  
Thursday  
 11:30 PM  
Base Ecosystem Team Office Hours: Consumer  
By Samantha Messing & Sam Frankel  
Google Meet  
Oct 18  
Friday  
 3:00 AM  
Base Ecosystem Team Office Hours: DeFi  
By John TV\_Locke  
Google Meet  
Oct 22  
Tuesday  
 5:30 PM  
Base Ecosystem Team Office Hours: Consumer  
By Bobby Thakkar  
Google Meet  
Oct 23  
Wednesday  
 6:00 PM  
Base Ecosystem Team Office Hours: DeFi  
By John TV\_Locke  
Google Meet  
Oct 24  
Thursday  
 11:30 PM  
Base Ecosystem Team Office Hours: Consumer  
By Samantha Messing  
Google Meet  
Oct 29  
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Base Ecosystem Team Office Hours: Consumer  
By Bobby Thakkar  
Google Meet  
Oct 31  
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Base Ecosystem Team Office Hours: Consumer  
By Samantha Messing  
Google Meet  
Nov 5  
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Base Ecosystem Team Office Hours: Consumer  
By Bobby Thakkar  
Google Meet  
Nov 8  
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 12:30 AM  
Base Ecosystem Team Office Hours: Consumer  
By Samantha Messing  
Google Meet  
Nov 12  
Tuesday  
 6:30 PM  
Base Ecosystem Team Office Hours: Consumer  
By Bobby Thakkar  
Google Meet  
Nov 19  
Tuesday  
 6:30 PM  
Base Ecosystem Team Office Hours: Consumer  
By Bobby Thakkar  
Google Meet

URL: https://warpcast.com/~/channel/base-builds/  
  
Channel  
base-builds  
/base-builds  
·  
36K Followers  
Base is for builders, and this is a channel to talk about what you’re building on Base.  
Ctrl+K  
Login  
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Developers

URL: https://onchainkit.xyz/  
  
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Docs  
App Template  
Playground  
0.33.6  
OnchainKit  
Build onchain apps with ready-to-use React components and Typescript utilities.  
npm  
yarn  
pnpm  
bun  
npm install @coinbase/onchainkit  
Get started  
Ready-to-use onchain components  
Wallet  
Transaction  
Swap  
Fund  
Identity  
Wallet  
Create or connect wallet with Connect Wallet, powered by Smart Wallet.  
Start with Wallet  
<Wallet>  
 <ConnectWallet>  
 <Avatar className="h-6 w-6" />  
 <Name />  
 </ConnectWallet>  
 <WalletDropdown>  
 <Identity className="px-4 pt-3 pb-2" hasCopyAddressOnClick>  
 <Avatar />  
 <Name>  
 <Badge className="badge"/>  
 </Name>  
 <Address />  
 <EthBalance />  
 </Identity>  
 <WalletDropdownLink icon="wallet" href="https://keys.coinbase.com">  
 Wallet  
 </WalletDropdownLink>  
 <WalletDropdownBasename />  
 <WalletDropdownDisconnect />  
 </WalletDropdown>  
</Wallet>  
Connect Wallet  
Transaction  
Trigger onchain operations and sponsor them with Paymaster.  
Start with Transaction  
<Transaction  
 chainId={base.id}  
 contracts={[  
 {  
 address: CONTRACT\_ADDRESS,  
 abi: CONTRACT\_ABI,  
 functionName: CONTRACT\_FUNCTION\_NAME,  
 args: [],  
 },  
 ]}  
>  
 <TransactionButton />  
 <TransactionSponsor />  
 <TransactionStatus>  
 <TransactionStatusLabel />  
 <TransactionStatusAction />  
 </TransactionStatus>  
</Transaction>  
Connect Wallet  
Swap  
Swap Tokens using the Swap components.  
Start with Swap  
<Swap>  
 <SwapAmountInput  
 label="Sell"  
 swappableTokens={swappableTokens}  
 token={ETHToken}  
 type="from"  
 />  
 <SwapToggleButton />  
 <SwapAmountInput  
 label="Buy"  
 swappableTokens={swappableTokens}  
 token={USDCToken}  
 type="to"  
 />  
 <SwapButton />  
 <SwapMessage />  
</Swap>  
Connect Wallet  
Fund  
Fund a wallet by transferring from another wallet, transferring from a Coinbase account, or purchasing crypto using debit card.  
Start with Fund  
<FundButton />  
Connect Wallet  
Identity  
Display ENS avatars, Attestation badges, ENS names and account addresses.  
Start with Identity  
<Identity  
 address="0x838aD0EAE54F99F1926dA7C3b6bFbF617389B4D9"  
 schemaId="0xf8b05c79f090979bf4a80270aba232dff11a10d9ca55c4f88de95317970f0de9"  
 className="rounded-xl"  
>  
 <Avatar>  
 <Badge className="badge"/>  
 </Avatar>  
 <Name />  
 <Address />  
</Identity>  
0x838a...B4D9  
Builders ship faster with OnchainKit  
🟣 Excited to announce that Basenames are now integrated into the Fit Club app!  
  
Thanks to @OnchainKit for making it smooth and easy! 💜  
  
More updates on the way, stay fit. 🏋️‍♀️🏋️‍♂️ pic.twitter.com/5BlIm5kSx3  
— Fit Club (@fitclubonbase) August 23, 2024  
Building with@OnchainKit has been such a great experience so far. We're builders, and we like to build things from scratch. But with @OnchainKit, there was a real boost in productivity, allowing us to ship dApps with seamless functionality in a matter of minutes.  
  
Onto the next… https://t.co/QzlJ4RIKLG  
— Coinfever (@coinfeverapp) October 4, 2024  
Swap is now live on our website! Feels good to be based, thanks guys 💙 pic.twitter.com/vunDYrnT2j  
— KEYCAT (@KeyboardCatBase) September 24, 2024  
OnchainKit  
Build onchain apps with ready-to-use React components and Typescript utilities.  
Get started  
Docs  
Playground  
Coverage 100%  
Template  
Figma  
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Sign in  
to continue to Forms  
Email or phone  
Forgot email?  
Not your computer? Use a private browsing window to sign in. Learn more about using Guest mode  
Next  
Create account  
Afrikaans  
azərbaycan  
bosanski  
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Čeština  
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Français (France)  
Gaeilge  
galego  
Hrvatski  
Indonesia  
isiZulu  
íslenska  
Italiano  
Kiswahili  
latviešu  
lietuvių  
magyar  
Melayu  
Nederlands  
norsk  
o‘zbek  
polski  
Português (Brasil)  
Português (Portugal)  
română  
shqip  
Slovenčina  
slovenščina  
srpski (latinica)  
Suomi  
Svenska  
Tiếng Việt  
Türkçe  
Ελληνικά  
беларуская  
български  
кыргызча  
қазақ тілі  
македонски  
монгол  
Русский  
српски (ћирилица)  
Українська  
ქართული  
հայերեն  
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‫اردو‬  
‫العربية‬  
‫فارسی‬  
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नेपाली  
मराठी  
हिन्दी  
অসমীয়া  
বাংলা  
ਪੰਜਾਬੀ  
ગુજરાતી  
ଓଡ଼ିଆ  
தமிழ்  
తెలుగు  
ಕನ್ನಡ  
മലയാളം  
සිංහල  
ไทย  
ລາວ  
မြန်မာ  
ខ្មែរ  
한국어  
中文（香港）  
日本語  
简体中文  
繁體中文  
HelpPrivacyTerms

URL: https://www.base.org/ecosystem  
  
—  
Mgwei  
Build  
Explore  
Community  
About  
Socials  
Base ecosystem apps and integrations overview.  
Submit your app  
ALL  
WALLET  
BRIDGE  
DEFI  
GAMING  
ONRAMP  
DAO  
INFRA  
SOCIAL  
SECURITY  
NFT  
OTHER  
X-CHAIN  
X-CROSS  
DEFI  
0X  
0x.org  
Your one stop shop to build financial products on crypto rails. Enable faster trading, better prices and superior UX in your app.  
SOCIAL  
0XPPL  
0xppl.com  
0xPPL is a web3 social platform enabling you to follow or interact with onchain activities of your peers & discover trends in a human-readable feed. Access your multi-chain portfolio across EVMs, Solana, Cosmos, and TON.  
INFRA  
0XSPLITS  
0xsplits.xyz  
Splits is a set of simple, modular smart contracts for safe and efficient onchain payments. You can split revenue from NFT sales, recoup expenses, diversify an income stream, withhold taxes, and much more.  
INFRA  
1RPC  
1rpc.io  
1RPC is a private RPC relay that eradicates metadata exposure and leakage, allowing users to gain control of their interactions with the blockchain with a one-click user experience.  
DEFI  
AAVE  
app.aave.com  
Aave Protocol is a non-custodial liquidity protocol. Users can participate as suppliers, borrowers, or liquidators, earning interest on supplied assets and borrowing in an overcollateralized manner.  
BRIDGE  
ACROSS PROTOCOL  
across.to  
Across Protocol is a leading cross-chain token bridge that is secured by UMA's optimistic oracle. It is optimized for capital efficiency with a single liquidity pool, a competitive relayer landscape, and a no-slippage fee model. You can expect secure, fast and affordable cross-chain token transfers with Across.  
INFRA  
ADD3  
add3.io  
EVM smart contract creation and management for web3 projects - Use Add3 to deploy customizable & compliant web3 smart contract products, dapp & analytics in minutes. Code or no-code options available!  
DEFI  
AERODROME FINANCE  
aerodrome.finance  
The central trading and liquidity marketplace on Base.  
INFRA  
ALCHEMY  
alchemy.com  
Alchemy is the leading web3 developer platform. Alchemy’s Account Abstraction APIs and SDK make it easy to offer seamless transactions and simple, secure accounts. Build anything on Base with Alchemy!  
INFRA  
ALEPH.IM  
aleph.im  
Open source and agnostic Decentralized Physical Infrastructure Network providing Confidential VMs, Indexing, Web hosting, Storage, Databases, Compute, AI and VRF.  
SOCIAL  
ALFAFRENS  
alfafrens.com  
AlfaFrens is a SocialFi app on Farcaster for gated alfa chat subscriptions powered by Superfluid. Subscribe to creators with $DEGEN, earn $ALFA and stake it on creators for a share of their revenue.  
DEFI  
ALGEBRA  
algebra.finance  
Algebra is an AMM providing modular concentrated liquidity (V4) with dynamic fees and hooks to DEXes on Base  
DEFI  
ALIEN BASE  
app.alienbase.xyz  
Alien Base is the Base-native decentralized exchange ecosystem. Use it to trade blue chip assets and derivatives, or check out Area 51 to play with experimental tokens, predictions and lotteries  
INFRA  
ALL THAT NODE  
allthatnode.com  
All That Node is the most comprehensive multi-chain development suite, designed to support multiple networks from a single platform.  
INFRA  
AMBERDATA  
amberdata.io  
Amberdata delivers comprehensive digital asset data and insights into blockchain networks, crypto markets, and decentralized finance, empowering financial institutions with critical data for research, trading, risk, analytics, reporting, and compliance.  
WALLET  
AMBIRE WALLET  
ambire.com  
Ambire Wallet is an open-source self-custodial smart wallet that utilizes account abstraction, acting as a gateway to Web3 applications and providing users with secure and effortless management of their digital assets.  
View more  
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URL: https://docs.google.com/forms/d/e/1FAIpQLSf5wnzD\_czyYOyHFeOmFK\_rjsJj7Utovo3jWwR40JizPqmDZg/viewform  
  
Base Community Events Intake Form  
Base Community Events are events hosted by community members or builders who are passionate about Base. This is your chance to share what you’ve built and why you’re excited about the potential of onchain.   
Please fill out this form to share more about your proposal for a community event. If you are selected to host an event, our team will be in touch within two weeks.  
Sign in to Google to save your progress. Learn more  
\* Indicates required question  
Email  
\*  
Your email address  
Name  
\*  
Your answer  
Experience with Base (E.g., have you built a project on Base? Had interactions with our team? Hosted a previous meetup together with Base?)  
\*  
Your answer  
Links to public social profiles (X, LinkedIn, Farcaster)  
\*  
Your answer  
Location (country, city)  
\*  
Your answer  
Your experience hosting events  
\*  
Your answer  
What are you hoping to get out of this meetup?  
\*  
Your answer  
Proposed date for your meetup  
\*  
Your answer  
Proposed programming (e.g. a builder gathering, a demo of what you've built, a brief presentation on Base followed by casual hangout with developers)  
\*  
Your answer  
Proposed venue  
\*  
Your answer  
Anticipated headcount  
\*  
Your answer  
Profile of attendees: are you targeting the meetup for developers?  
\*  
Your answer  
Telegram handle  
Your answer  
Your privacy is important to us, and we implement appropriate safeguards to protect your data. For more information about how Coinbase handles your personal data, please read our Privacy Policy.  
Privacy Disclaimer: Please do not send any sensitive or private information (e.g., social security numbers, account information, user IDs, passwords etc.) using this form.  
Do you want to receive marketing communications from Coinbase via email, social media (eg. Twitter, Discord, etc.) and push notifications? If yes, please tick the checkbox here.  
Send me a copy of my responses.  
Submit  
Clear form  
Never submit passwords through Google Forms.  
reCAPTCHA  
Privacy  
Terms  
This form was created inside Coinbase. Report Abuse  
 Forms

URL: https://base.mirror.xyz/fD9-3Bl\_3PLoUw7T8St6a6UpDIiPxJ-itzmME-b5pwA  
  
Subscribe  
Introducing the Onchain Content Network  
Base  
0xcB5A  
July 25th, 2024  
Mint  
TLDR: This Onchain Summer and beyond, we want to share what you’re building with millions of people across the world.  
Submit your apps, games, art, music, and dreams to the Onchain Registry — a community-driven database of projects — for the chance to be featured across our new Onchain Content Network: Coinbase, Coinbase Wallet, Cymbal, Daylight, Floor, Forage, Layer3, Magic Eden, Mintify, OpenSea, Rainbow Wallet, and Roam.  
Together, our goal is to spotlight more of the builders and creators that are bringing the world onchain.  
Submit your project → Get distribution  
Creating a global economy that fosters innovation, creativity, and freedom cannot be done alone. That’s why the Onchain Content Network is crucial to our mission — bringing together a collection of the industry's best known and most loved platforms, generating more distribution for builders, and creating destinations for everyone to discover onchain innovation.  
From the largest NFT marketplaces to the most active questing platforms, these partners will feature selected projects from the Onchain Registry to the millions of people that visit them every day — with dedicated feeds that surface projects directly from onchain builders and creators.  
Let’s bring the world onchain together  
Whether you’re a builder, creator, or brand, we want to help you by distributing your project as far and wide as possible via the Onchain Content Network. Here’s what we’re looking for:  
Do something that’s never been done before: Create captivating onchain experiences. The more innovative, the better.  
Keep it simple: Bringing a billion people onchain requires onboarding that feels like a warm welcome. Experiences should be frictionless for new users.  
Make something accessible to everyone: Whether it’s a game, social app, piece of art, or commerce flow, Onchain Summer is for everyone. Keep it low-cost and easy for anyone to use.  
If you’re working on something that aligns with this vision, we invite you to share it with us. Submit your project to the Onchain Registry.  
And if you want to create a feed or incorporate Onchain Summer content into your existing platform, learn how to integrate the Onchain Registry API.  
Subscribe to Base  
Receive the latest updates directly to your inbox.  
Subscribe  
Mint this entry as an NFT to add it to your collection.  
Mint  
Verification  
This entry has been permanently stored onchain and signed by its creator.  
ARWEAVE TRANSACTION  
13R8wwcgnm36iWx…VfTvKM-5KIP6TTY  
AUTHOR ADDRESS  
0xcB5AB6B84a66e5E…0AB344532dA4B82  
CONTENT DIGEST  
fD9-3Bl\_3PLoUw7…xJ-itzmME-b5pwA  
More from Base  
View All

URL: https://warpcast.com/base/0xb3f1428b  
  
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URL: https://discord.com/invite/buildonbase

URL: https://www.smartwallet.dev/base-gasless-campaign/  
  
Skip to content  
Smart Wallet  
Demo  
SDK Playground  
Github  
Discord  
Base Gasless Campaign  
On this page  
Base Gasless Campaign  
Base is offering gas credits to help developers make the most of Smart Wallet's paymaster (sponsored transactions) features.  
Partner Tier Base Gas Credit Incentive Requirements Actions  
1 $15k  
- Support Coinbase Smart Wallet  
- Onboard to Coinbase Paymaster  
- Preferred placement in your UI (ie “Create Wallet” button)  
1. Bump your Coinbase SDK to add Coinbase Smart Wallet to your app, or bump to latest version of any supporting wallet library.  
2. Sign in / up for Coinbase Developer Platform (takes less than 2 minutes). No KYC needed - just email and phone.  
3. Check out the Paymaster product where the Base Mainnet Paymaster is enabled by default. Set and change your gas policy at any time.  
4. Complete this form and email basegascredits@coinbase.com that you’ve completed, along with evidence that you’ll have the “Create Wallet” button in your UI  
Credits will land within 1 week of completion  
2 $10k  
- Support Coinbase Smart Wallet  
- Onboard to Coinbase Paymaster  
1. Bump your Coinbase SDK to add Coinbase Smart Wallet to your app, or bump to latest version of any supporting wallet library.  
2. Sign in / up for Coinbase Developer Platform (takes less than 2 minutes). No KYC needed - just email and phone.  
3. Check out the Paymaster product where the Base Mainnet Paymaster is enabled by default. Set and change your gas policy at any time.  
4. Complete this form and email basegascredits@coinbase.com that you’ve completed.  
Credits will land within 1 week of completion  
Bonus $1k  
- Release demo  
Create a demo of your Coinbase Smart wallet integration, post on social (Warpcast and/or X) and tag Coinbase Wallet and/or Base

URL: https://github.com/base-org  
  
Skip to content  
Navigation Menu  
Product  
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Base  
Base is bringing the world onchain to create a global economy that increases innovation, creativity, and freedom. Built on the Superchain.  
6.4k followers  
@base  
https://base.org/discord  
https://base.mirror.xyz/  
https://status.base.org/  
Overview  
Repositories  
Projects  
Packages  
People  
Popular repositories  
Loading  
chains chains  
Public  
Forked from ethereum-lists/chains  
provides metadata for networkIDs and chainIDs  
Kotlin 79.1k 2.5k  
node node  
Public  
Everything required to run your own Base node  
Shell 68.2k 2.5k  
pessimism pessimism  
Public archive  
Detect real-time threats and events on OP Stack compatible blockchains  
Go 1.5k 435  
brand-kit brand-kit  
Public  
Brand guide and logos for the Base brand. Built on the Superchain.  
1.3k 371  
withdrawer withdrawer  
Public  
Golang utility for proving and finalizing withdrawals from op-stack chains.  
Go 416 260  
op-viem op-viem  
Public  
Viem extensions for the Op Stack  
TypeScript 335 234  
Repositories  
Loading  
Type  
Language  
Sort  
Showing 10 of 27 repositories  
basenames Public  
Base-native Identity  
base-org/basenames’s past year of commit activity  
Solidity 41 MIT 9 1 3 Updated 9 hours agoOct 15, 2024  
web Public  
base-org/web’s past year of commit activity  
TypeScript 249 Apache-2.0 295 15 (1 issue needs help) 47 Updated 10 hours agoOct 15, 2024  
RIP-7755-poc Public  
Proof of Concept for RIP-7755  
base-org/RIP-7755-poc’s past year of commit activity  
Solidity 1 0 0 1 Updated 3 days agoOct 12, 2024  
node Public  
Everything required to run your own Base node  
base-org/node’s past year of commit activity  
Shell 68,181 MIT 2,547 26 2 Updated 4 days agoOct 10, 2024  
contract-deployments Public  
base-org/contract-deployments’s past year of commit activity  
Solidity 206 MIT 111 2 14 Updated 5 days agoOct 10, 2024  
nfc-relayer Public  
Example implementation for NFC Relayer  
base-org/nfc-relayer’s past year of commit activity  
TypeScript 1 0 0 1 Updated last weekOct 8, 2024  
pos-dapp Public  
base-org/pos-dapp’s past year of commit activity  
TypeScript 1 1 0 0 Updated 2 weeks agoOct 4, 2024  
contracts Public  
base-org/contracts’s past year of commit activity  
Solidity 175 MIT 100 1 2 Updated 2 weeks agoOct 1, 2024  
brand-kit Public  
Brand guide and logos for the Base brand. Built on the Superchain.  
base-org/brand-kit’s past year of commit activity  
1,284 371 4 5 Updated on Aug 29Aug 29, 2024  
withdrawer Public  
Golang utility for proving and finalizing withdrawals from op-stack chains.  
base-org/withdrawer’s past year of commit activity  
Go 416 MIT 260 2 2 Updated on Aug 22Aug 21, 2024  
View all repositories  
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Status  
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URL: https://hackerone.com/coinbase

URL: https://www.base.org/bootcamp  
  
6.45  
Mgwei  
Build  
Explore  
Community  
About  
Socials  
Connect  
Learn to build onchain  
Base Bootcamp is an async, cohort-based training program designed to turn web developers into Smart Contract developers.  
Apply now  
How it works  
1  
APPLY  
Are you a crypto-proficient software engineer interested in learning to build smart contracts? Start out by applying to Base Bootcamp.  
2  
ONBOARD  
Upon acceptance, you’ll receive an email with all relevant onboarding materials (student handbook, mentor-pairing info, invite to the private Base Bootcamp Discord channel, and invite to the launch day).  
3  
KICKOFF  
Gather virtually for our initial kick-off. We’ll pair you with your mentor (an experienced Smart Contract Developer) and you’ll start the program.  
4  
BUILD!  
Work through Base Learn, meeting regularly with your mentor. You’ll build your final project during the final two weeks - a real-world, onchain app that you’ll demo virtually on Demo Day.  
  
Upon graduation, you’ll earn an exclusive soulbound Base Bootcamp Grad NFT.  
Dates and deadlines  
Cohort 4: Approximately March 18, 2024  
Application deadline: March 11, 2024  
Apply now  
What's included?  
Base Learn Curriculum  
Participants will work through the Base Learn content, which is publicly available. However, as part of the Base Bootcamp program, they will also have access to supplemental resources and graded projects, reviewed by Coinbase engineers.  
  
Mentors  
Each student is paired with a mentor whom you will meet with once a week.  
  
Office Hours  
Base Bootcamp staff will host regular open office hours via Google Meet to answer questions.  
  
Discord  
All students will have access to a private channel in the Base Discord where they can interact with Coinbase staff, mentors and other Base Bootcamp students.  
Cost  
Base Bootcamp is free. However, we require you to deposit 1 ETH, which we will return to you upon your successful, on-time graduation. We’re doing this so that you have skin in the game. The program is going to be difficult and we need you to have as many reasons as necessary to push through.  
Frequently Asked Questions  
When will I hear back about my application?  
What is your selection criteria?  
What resources will I get if I am accepted into the program?  
Who is my mentor?  
Can I fail the program?  
Does it cost anything?  
What is the time commitment?  
Are there live classes?  
Can I quit if it’s too much for me?  
Will I be offered a job upon graduation?  
What will I be able to do upon graduation?  
Terms of Service  
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Cookie Policy  
Cookie Manager

URL: https://based-india.devfolio.co/  
  
Home  
Blog  
Join Devfolio  
Sign in  
Base Around The World  
India  
OVERVIEW  
PRIZES  
SPEAKERS & JUDGES  
SCHEDULE  
PROJECTS  
LEADERBOARD  
RUNS FROM  
Sep 27 - Oct 20, 2024  
HAPPENING  
Online  
APPLICATIONS CLOSE IN  
5d:19h:42m  
Join now  
Build a better world onchain, starting with your local community.  
WHAT IS BASED INDIA?  
Base is for everyone who wants to build a better internet, and we’re calling all builders in India to solve challenges in your community by building onchain.  
  
From instant payments, access to financial services, and getting rewarded for creativity, going onchain is improving the lives of people around the world — but that's just the beginning. We’re looking to you to start building a better future onchain, starting right where you are.  
  
See a problem in your community? Solve it. Have an idea? Build it. Every app you create brings us closer to an onchain world where everyone thrives.  
  
Based India is part of the Based Around the World regional Buildathon series in Africa, India, Southeast Asia, and LatAm. These regions have unstoppable builder energy. We can’t wait to see your creativity, onchain.  
THE PROMPT  
Build an onchain app that solves a challenge in your community  
  
OR  
  
Use existing onchain tools to create real-world impact in your community by bringing them onchain.  
  
If you’re looking for ideas, here are a few places to start:  
Help people come together, connect, and collaborate more easily — onchain or IRL  
Unlock access to social and educational resources  
Build tools that provide easier access to the onchain economy  
Create localized social or e-commerce apps  
Create platforms that empower creators to share their work (or, if you're a creator yourself, share your own)  
Make a blog, write a blog post, create a YouTube or TikTok video, or other content showing how you're making an impact and bringing your community onchain  
CO-PRESENTERS  
We’re excited to co-present Based India with Farcaster Builders India, Levitate Labs, KGeN, and Okto by CoinDCX.  
WHY PARTICIPATE?  
The Buildathon is open to anyone from these four regions. Each region will have a prize pool of 25 ETH (for a total of 100 ETH), with 2 to 8 winners selected from each region. In addition, Talent Protocol will contribute 10B $BUILD, split evenly across all winners.  
  
Each winner gets:  
Rewards: 3.125 to 12.5 ETH from Base and $BUILD from Talent Protocol.  
Marketing & Distribution: All winners will be highlighted at a Base meetup event in-region with Jesse Pollak, and featured on Base social channels (X, Warpcast).  
Network: Connections with some of the most prolific Base builders in your region, with direct access to the Base team.  
HOW IT WORKS  
In order to be eligible, the projects must follow the below rules.  
Must submit one project per team  
Must include a functioning onchain app at a publicly accessible URL  
Must include an open-source GitHub repository for all source code in the app  
Must include a video, with a minimum length of 1 minute  
Integrating Basenames and Smart Wallet is strongly recommended; they make it easy for anyone to get onchain.  
Must submit proof of 1+ transactions on Base mainnet or Base Sepolia testnet  
Apps built before the Buildathon are eligible for submission, but must clearly delineate what new feature or product was built during the Buildathon.  
Evaluation Criteria  
Onchain: Built on Base  
Technicality: Functions as pitched  
Originality: Innovation/originality to solve problems  
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1 - 5  
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Nada.  
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Are there pre-registration requirements?  
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23 SEPTEMBER 2024  
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20 OCTOBER 2024  
11:59 PM GMT-7  
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27 SEPTEMBER 2024  
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Mid buildathon check-in  
07 OCTOBER 2024  
Buildathon ends  
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By   
Wilson Cusack   
Smart Wallet enables people to create an account on your site in seconds with no mobile app or extension required.  
WORKSHOP  
30 SEPTEMBER 2024  
06:00 AM GMT-7  
Basenames w/ OnchainKit Workshop  
By   
Tina He   
Using OnchainKit to more quickly develop apps with built-in support for Basenames, wallets, swapping and more via ready-made React components and Typescript utilities.  
WORKSHOP  
01 OCTOBER 2024  
06:00 AM GMT-7  
No Code Base Workshop  
By   
Will Binns   
Building on Base without writing any code.  
WORKSHOP  
02 OCTOBER 2024  
06:00 AM GMT-7  
Mentorship Hours on Gather - Day 1  
As we enter the final week of the Buildathon, we are hosting a dedicated Mentorship Hours on the Base Gather Space where mentors would be joining in to help you with your project. Technical queries, idea feedback, all are welcome!  
DISCUSSION  
07 OCTOBER 2024  
06:00 AM GMT-7  
Mentorship Hours on Gather - Day 2  
We're back with another day of Daily Mentorship hours for Base Around The World!  
BRAINSTORMING  
08 OCTOBER 2024  
06:00 AM GMT-7  
Mentorship Hours on Gather - Day 3  
Missed the previous ones? We got you covered! We are hosting another dedicated Mentorship Hours on the Base Gather Space where mentors would be joining in to help you with your project. Technical queries, idea feedback, all are welcome!  
DISCUSSION  
09 OCTOBER 2024  
06:00 AM GMT-7  
Mentorship Hours on Gather - Day 4  
We are hosting another dedicated Mentorship Hours on the Base Gather Space where mentors would be joining in to help you with your project. Technical queries, idea feedback, all are welcome!  
BRAINSTORMING  
10 OCTOBER 2024  
06:00 AM GMT-7  
Perfecting your Buildathon submission before the deadline  
By   
Will Binns   
Join Will Binns (Senior Developer Advocate, Base), for tips on how to best craft and polish your Buildathon submission heading into the deadline. Whether you're a serial builder or just starting out, this workshop will be packed with valuable insights to help your project stand out from the crowd.  
TALK  
11 OCTOBER 2024  
06:00 AM GMT-7  
Mentorship Hours on Gather - Day 5  
Final call for Mentorship hours! We are hosting the last Mentorship Hours on the Base Gather Space where mentors would be joining in to help you with your project. Technical queries, idea feedback, all are welcome!  
BRAINSTORMING  
11 OCTOBER 2024  
07:00 AM GMT-7  
Mentorship Hours on Gather - Day 6  
Missed the previous ones? We got you covered! We are hosting another dedicated Mentorship Hours on the Base Gather Space where mentors would be joining in to help you with your project. Technical queries, idea feedback, all are welcome!  
BRAINSTORMING  
14 OCTOBER 2024  
06:00 AM GMT-7  
Mentorship Hours on Gather - Day 7  
We're towards the end of the Buildathon!  
Join the mentorship hours on the Base Gather Space where mentors would be joining in to help you with your project. Technical queries, idea feedback, all are welcome!  
BRAINSTORMING  
17 OCTOBER 2024  
06:00 AM GMT-7  
Mentorship Hours on Gather - Day 8  
Final call for the Buildathon!  
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18 OCTOBER 2024  
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CONNECT  
Add Basenames to your wagmi/viem App using OnchainKit  
Basenames is now live! But what exactly is it? Basenames allows users to register human-readable names for their addresses and serves as a foundational building block for onchain identity. Think of it as your favorite social media handle, but even bigger. Your Basename is multichain by default and yours forever—no platform can take it away from you (just make sure to pay your fee).  
Integrating Basenames into your onchain app enhances the user experience by masking complex wallet addresses. Just as domains simplify IP addresses, Basenames do the same for wallet addresses.  
OnchainKit is a React component library designed to make building Onchain applications easier. In this tutorial, we'll use the <Identity/> component to resolve Basenames.  
This demo uses Coinbase Smart Wallet and Coinbase Wallet, but Basenames is supported across many other wallets.  
Objectives  
By the end of this tutorial, you should be able to:  
Understand how onchain identity works on the Base network  
Enable users to use their onchain identity in your app using OnchainKit  
If you're starting from scratch, you'll need to create a new wagmi project. If you already have an existing wagmi project, you can skip ahead to the section on installing OnchainKit.  
To create a new wagmi project using TypeScript and install the required dependencies, run the following command:  
bun create wagmi  
Next, you'll need to install OnchainKit. Run the following command:  
bun add @coinbase/onchainkit  
After adding OnchainKit, install all dependencies and start your development server with:  
bun install && bun run dev  
This command will install the necessary dependencies and start a development server.  
To follow along with the tutorial effectively, open your web browser and your IDE side by side. This setup will allow you to code and see the changes in real time.  
Update Wagmi config  
In this section, we will configure your wagmi project to support the Base blockchain by importing the necessary modules.  
Start by importing the base and baseSepolia chains into your wagmi config. Navigate to src/wagmi.ts and update the file as follows:  
wagmi.ts  
import { http, cookieStorage, createConfig, createStorage } from 'wagmi';  
import { base, baseSepolia } from 'wagmi/chains';  
import { coinbaseWallet, injected } from 'wagmi/connectors';  
  
export function getConfig() {  
 return createConfig({  
 chains: [base, baseSepolia],  
 connectors: [  
 injected(),  
 coinbaseWallet({  
 appName: 'Create Wagmi',  
 preference: 'smartWalletOnly',  
 }),  
 ],  
 storage: createStorage({  
 storage: cookieStorage,  
 }),  
 ssr: true,  
 transports: {  
 [base.id]: http(),  
 [baseSepolia.id]: http(),  
 },  
 });  
}  
  
declare module 'wagmi' {  
 interface Register {  
 config: ReturnType<typeof getConfig>;  
 }  
}  
This configuration sets up the wagmi project to connect to the Base and BaseSepolia networks, utilizing Coinbase Wallet and other connectors.  
Now we’ll create a component to display the Basenames associated with an address.  
USE BASE AS YOUR CHAIN  
Ensure Chain is Set to Base Be sure to set the chain={base} parameter; otherwise, it will default to ENS (Ethereum Name Service).  
src/components/basename.tsx  
'use client';  
import React from 'react';  
('use client');  
import React from 'react';  
import { Avatar, Identity, Name, Address } from '@coinbase/onchainkit/identity';  
import { base } from 'viem/chains';  
  
interface DisplayBasenameProps {  
 address: `0x${string}` | undefined;  
}  
  
export function Basenames({ address }: DisplayBasenameProps) {  
 return (  
 <Identity  
 address={address}  
 chain={base}  
 schemaId="0xf8b05c79f090979bf4a80270aba232dff11a10d9ca55c4f88de95317970f0de9"  
 >  
 <Avatar address={address} chain={base} />  
 <Name address={address} chain={base} />  
 <Address />  
 </Identity>  
 );  
}  
This component uses OnchainKit to fetch and display the Basename, Avatar, and Address associated with the provided address.  
STYLE THE AVATAR  
Remember to style the Avatar component to fit your application's design.  
Next, we’ll integrate the newly created Basenames component into your application. For instance, if you have a Header component with a Login button that allows users to connect their wallet, you can display the user's Basename instead of their wallet address after they connect.  
Here’s an example of how to modify your header component to include the Basenames component:  
src/app/page.tsx  
'use client';  
import Footer from 'src/components/Footer';  
import { ONCHAINKIT\_LINK } from 'src/links';  
import { useAccount } from 'wagmi';  
import LoginButton from '../components/LoginButton';  
import { Basenames } from '../components/basename';  
  
export default async function Page() {  
 const { address } = useAccount();  
 const account = useAccount();  
  
 return (  
 <div className="flex h-full w-96 max-w-full flex-col px-1 md:w-[1008px]">  
 <section className="mb-6 mt-6 flex w-full flex-col md:flex-row">  
 <div className="flex w-full flex-row items-center justify-between gap-2 md:gap-0">  
 <a href={SUPERCOOL\_APP\_LINK} title="Supercool App" target="\_blank" rel="noreferrer">  
 <h1 className="text-xl font-normal not-italic tracking-[-1.2px] text-indigo-600">  
 Supercool App  
 </h1>  
 </a>  
 <div className="flex items-center gap-3">  
 {!address && <LoginButton />} {/\*Connect wallet button\*/}  
 {account.status === 'connected' && (  
 <div>  
 <Basenames address={account.addresses?.[0]} />  
 </div>  
 )}  
 {/\* <h1>{result}</h1> \*/}  
 </div>  
 </div>  
 </section>  
 <section className="templateSection flex w-full flex-col items-center justify-center gap-4 rounded-xl bg-gray-100 px-2 py-4 md:grow"></section>  
 <Footer />  
 </div>  
 );  
}  
In this example, once the user connects their wallet, the Basenames component is conditionally rendered to display their Basename instead of the raw wallet address.  
Conclusion  
That’s it! You’ve successfully integrated Basenames into your wagmi/viem app using OnchainKit. Test your application by connecting a wallet and observing how the Basename is displayed instead of the wallet address.  
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Add Basenames to your onchain app  
Basenames is now live! But what exactly is it? Basenames allows users to register human-readable names for their addresses and serves as a foundational building block for onchain identity. Think of it as your favorite social media handle, but even bigger. Your Basename is multichain by default and yours forever—no platform can take it away from you (just make sure to pay your fee).  
Integrating Basenames into your onchain app enhances the user experience by masking complex wallet addresses. Just as domains simplify IP addresses, Basenames do the same for wallet addresses.  
This tutorial shows you how to display Basenames on behalf of your users. We'll walk through setting up the necessary files and configurations to interact with the Basenames ENS resolver directly. Let's begin!  
Objectives  
By the end of this tutorial, you should be able to:  
Understand how onchain identity works on the Base network  
Enable users to use their onchain identity in your app  
Pull metadata from your users' Basename profile  
Steps  
First, create a directory to store the ABI (Application Binary Interface) for the Basenames ENS resolver. The ABI will allow your project to interact with the smart contract that handles Basenames.  
In your project folder, run the following commands:  
mkdir abis  
cd abis  
touch L2ResolverAbi.ts  
This will create a new directory named abis and a file named L2ResolverAbi.ts within it.  
Next, add the following placeholder code to the L2ResolverAbi.ts file:  
src/abis/L2ResolverAbi.ts  
export default [  
 // ABI information goes here  
] as const;  
TIP  
You will need to replace the placeholder comment with the actual ABI. Here is the link to the full L2ResolverAbi.  
To interact with the Base blockchain, you will need to update the wagmi configuration. This will allow your project to connect to the Base network and use its features.  
Update your wagmi.ts file as follows:  
'use client';  
  
import { QueryClient, QueryClientProvider } from '@tanstack/react-query';  
import { ReactNode } from 'react';  
import { http, createConfig, WagmiProvider } from 'wagmi';  
import { base } from 'wagmi/chains';  
  
export const config = createConfig({  
 chains: [base],  
 transports: {  
 [base.id]: http(),  
 },  
 ssr: true,  
});  
  
const queryClient = new QueryClient();  
  
export default function EthereumProviders({  
 children,  
}: {  
 children: ReactNode;  
}) {  
 return (  
 <WagmiProvider config={config}>  
 <QueryClientProvider client={queryClient}>{children}</QueryClientProvider>  
 </WagmiProvider>  
 );  
}  
This code sets up your application to use the Base network, enabling the project to interact with the blockchain.  
Next, we'll create a new directory to house the functions that will resolve and interact with Basenames. These functions will be responsible for fetching Basename information from the blockchain.  
In your project folder, create the apis directory and add a basenames.tsx file:  
WHAT'S HAPPENING IN THE CODE?  
convertReverseNodeToBytes(): This function is creating the reverse node so we can look up a name given an address. Each address gets its own reverse record in our registry that's created in a deterministic way.  
You can see the implementation of convertReverseNodeToBytes() in the OnchainKit repo  
BasenameTextRecordKeys: Metadata (e.g., github, twitter, etc.) are stored as text records so we can look them up based on the enum key.  
src/apis/basenames.tsx  
import {  
 Address,  
 ContractFunctionParameters,  
 createPublicClient,  
 encodePacked,  
 http,  
 keccak256,  
 namehash,  
} from 'viem';  
import { base, mainnet } from 'viem/chains';  
import L2ResolverAbi from '@/abis/L2ResolverAbi';  
  
// Function to resolve a Basename  
export async function getBasename(address: Address) {  
 try {  
 const addressReverseNode = convertReverseNodeToBytes(address, base.id);  
 const basename = await baseClient.readContract({  
 abi: L2ResolverAbi,  
 address: BASENAME\_L2\_RESOLVER\_ADDRESS,  
 functionName: 'name',  
 args: [addressReverseNode],  
 });  
 if (basename) {  
 return basename as BaseName;  
 }  
 } catch (error) {  
 // Handle the error accordingly  
 console.error('Error resolving Basename:', error);  
 }  
}  
This code provides the foundation for resolving Basenames using the Base network.  
TIP  
You can find the complete implementation in the full basenames.tsx file.  
Now that the necessary functions are in place, you can implement the Basenames functionality in your app. For this example, we'll modify the page.tsx file to display Basename information on the server and client side.  
Here's how to set it up:  
src/app/page.tsx  
import {  
 BasenameTextRecordKeys,  
 getBasename,  
 getBasenameAvatar,  
 getBasenameTextRecord,  
} from '@/apis/basenames';  
import BasenameDetails from '@/components/BasenameDetails';  
import EthereumProviders from '@/contexts/EthereumProviders';  
import { useAccount } from 'wagmi';  
  
// shrek.base.eth  
  
const address = '0x8c8F1a1e1bFdb15E7ed562efc84e5A588E68aD73'; // const account = useAccount(); \n address = account?.address;  
  
async function fetchData() {  
 const basename = await getBasename(address);  
  
 if (basename === undefined) throw Error('failed to resolve address to name');  
  
 const avatar = await getBasenameAvatar(basename);  
  
 const description = await getBasenameTextRecord(  
 basename,  
 BasenameTextRecordKeys.Description  
 );  
  
 const twitter = await getBasenameTextRecord(  
 basename,  
 BasenameTextRecordKeys.Twitter  
 );  
  
 return {  
 basename,  
 avatar,  
 description,  
 twitter,  
 };  
}  
  
export default async function Home() {  
 const data = await fetchData();  
  
 return (  
 <EthereumProviders>  
 <main className='flex min-h-screen flex-col gap-12 p-24'>  
 <div className='mb-12'>  
 <h1 className='text-xl mb-4'>Server-side rendered:</h1>  
 <ul className='flex flex-col gap-4'>  
 <li className='flex flex-col gap-2'>  
 <span>Address</span>  
 <strong>{address}</strong>  
 </li>  
 <li className='flex flex-col gap-2'>  
 <span>Basename</span>  
 <strong>{data.basename}</strong>  
 </li>  
 <li className='flex flex-col gap-2'>  
 <span>Avatar</span>  
 <strong>  
 <img  
 src={data.avatar}  
 alt={data.basename}  
 width={100}  
 height={100}  
 />  
 </strong>  
 </li>  
 <li className='flex flex-col gap-2'>  
 <span>Description</span>  
 <strong>{data.description}</strong>  
 </li>  
 <li className='flex flex-col gap-2'>  
 <span>Twitter</span>  
 <strong>{data.twitter}</strong>  
 </li>  
 </ul>  
 </div>  
 <div>  
 <h1 className='text-xl mb-4'>Client-side rendered:</h1>  
 <BasenameDetails address={address} />  
 </div>  
 </main>  
 </EthereumProviders>  
 );  
}  
In this example, the Home component fetches Basename data and displays it in both server-side and client-side rendered sections. This allows your app to provide a seamless user experience, showing Basename details like the avatar, description, and associated Twitter handle.  
Conclusion  
Congratulations! You've successfully integrated Basenames into your project. By setting up the necessary ABI, configuring your wagmi project, and implementing custom functions to resolve and display Basenames, you've enhanced your app's user experience by making wallet addresses more user-friendly. Your users can now enjoy a personalized, recognizable onchain identity across the Base network. Keep exploring and building to unlock even more possibilities with Basenames!  
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Network Faucets  
Coinbase Developer Platform  
The Coinbase Developer Platform Faucet provides free testnet ETH on Base Sepolia - one claim per 24 hours.  
INFO  
Requests to Coinbase Developer Platform's Faucet are limited to one claim per 24 hours.  
thirdweb Faucet  
The thirdweb Faucet provides free testnet ETH on Base Sepolia - one claim per 24 hours.  
INFO  
The thirdweb faucet allows developers to connect their wallet through EOA or social logins and claim Base Sepolia testnet funds.  
Superchain Faucet  
The Superchain Faucet provides testnet ETH for all OP Chains, including Base.  
INFO  
The Superchain faucet allows developers to authenticate via their onchain identity. Developers that choose to authenticate via their onchain identity can claim more testnet ETH versus traditional faucets. For more information, see the FAQ.  
Alchemy Faucet  
The Alchemy Faucet is a fast and reliable network faucet that allows users with a free Alchemy account to request testnet ETH on Base Sepolia.  
INFO  
Requests to Alchemy's Base Sepolia Faucet are limited to one claim per 24 hours.  
Bware Labs Faucet  
Bware Labs Faucet is an easy to use faucet with no registration required. You can use Bware Labs Faucet to claim Base Sepolia testnet ETH for free - one claim per 24 hours.  
INFO  
Requests to Bware Labs Faucet are limited to one claim per 24 hours.  
QuickNode Faucet  
QuickNode Faucet is an easy to use Multi-Chain Faucet. You can use QuickNode Faucet to claim Base Sepolia testnet ETH for free - one drip per network every 12 hours.  
INFO  
Requests to QuickNode Faucet are limited to one drip every 12 hours.  
LearnWeb3 Faucet  
LearnWeb3 Faucet is a multi-chain faucet by LearnWeb3. You can use the LearnWeb3 faucet to claim Base Sepolia testnet ETH for free - one claim every 24 hours.  
INFO  
Requests to LearnWeb3 faucet are limited to one claim per 24 hours.  
Ethereum Ecosystem Faucet  
The Base Sepolia Faucet is a free & easy to use testnet faucet for Base Sepolia with very generous drips that doesn't require users to log in. It's run by Ethereum Ecosystem.  
INFO  
Each wallet is restricted to receiving 0.5 ETH from this faucet every 24 hours.  
We use cookies and similar technologies on our websites to enhance and tailor your experience, analyze our traffic, and for security and marketing. You can choose not to allow some type of cookies by clicking Manage Settings. For more information see our Cookie Policy.  
Manage settings  
Accept all

URL: https://portal.cdp.coinbase.com/products/faucet  
  
login.coinbase.com  
Verifying you are human. This may take a few seconds.  
login.coinbase.com needs to review the security of your connection before proceeding.  
Ray ID: 8d2f668b8ab9a784  
Performance & security by Cloudflare

URL: https://thirdweb.com/base-sepolia-testnet  
  
Claim 12 months of free in-app wallets. Use code "FREEWALLETS". Redeem offer by October 31st!  
K  
Team Dashboard  
BETA  
Chainlist  
Docs  
Support  
Sign In  
Home  
Connect  
Contracts  
Engine  
Settings  
Chainlist  
Testnets  
Base Sepolia Testnet  
Overview  
Popular Contracts  
Add to wallet  
Get started with thirdweb  
Base Sepolia Testnet  
Faucet  
Base Sepolia Testnet Faucet  
Get free ETH fast and reliably. 0.01 ETH/day.  
Checking Faucet  
Chain Overview  
Info  
base.org  
Chain ID  
84532  
Native Token  
Sepolia Ether (ETH)  
RPC  
https://84532.rpc.thirdweb.com  
RPC Latency  
Block Height  
Explorers  
Basescout  
https://base-sepolia.blockscout.com  
thirdweb Products  
Contracts  
Pre-built contracts & deployment tools  
Connect SDK  
Client-side SDKs for wallets and blockchain interactions  
RPC Edge  
Performant and scalable RPC service  
Engine  
Backend server that reads, writes, and deploys contracts  
Account Abstraction  
Account factory contracts, bundler & paymaster  
Pay  
Point of sale solution for bridging, onramping & swapping  
Claim Chain  
This chain page is unclaimed  
Are you the owner of this ecosystem? Claim this page to add additional information on this page to help your developers get started!  
Claim Chain  
© 2024 thirdweb  
Home  
Blog  
Changelog  
Feedback  
Privacy Policy  
Terms of Service  
Gas Estimator  
Chain List

URL: https://onchainkit.xyz/  
  
Skip to content  
Docs  
App Template  
Playground  
0.33.6  
OnchainKit  
Build onchain apps with ready-to-use React components and Typescript utilities.  
npm  
yarn  
pnpm  
bun  
npm install @coinbase/onchainkit  
Get started  
Ready-to-use onchain components  
Wallet  
Transaction  
Swap  
Fund  
Identity  
Wallet  
Create or connect wallet with Connect Wallet, powered by Smart Wallet.  
Start with Wallet  
<Wallet>  
 <ConnectWallet>  
 <Avatar className="h-6 w-6" />  
 <Name />  
 </ConnectWallet>  
 <WalletDropdown>  
 <Identity className="px-4 pt-3 pb-2" hasCopyAddressOnClick>  
 <Avatar />  
 <Name>  
 <Badge className="badge"/>  
 </Name>  
 <Address />  
 <EthBalance />  
 </Identity>  
 <WalletDropdownLink icon="wallet" href="https://keys.coinbase.com">  
 Wallet  
 </WalletDropdownLink>  
 <WalletDropdownBasename />  
 <WalletDropdownDisconnect />  
 </WalletDropdown>  
</Wallet>  
Transaction  
Trigger onchain operations and sponsor them with Paymaster.  
Start with Transaction  
<Transaction  
 chainId={base.id}  
 contracts={[  
 {  
 address: CONTRACT\_ADDRESS,  
 abi: CONTRACT\_ABI,  
 functionName: CONTRACT\_FUNCTION\_NAME,  
 args: [],  
 },  
 ]}  
>  
 <TransactionButton />  
 <TransactionSponsor />  
 <TransactionStatus>  
 <TransactionStatusLabel />  
 <TransactionStatusAction />  
 </TransactionStatus>  
</Transaction>  
Swap  
Swap Tokens using the Swap components.  
Start with Swap  
<Swap>  
 <SwapAmountInput  
 label="Sell"  
 swappableTokens={swappableTokens}  
 token={ETHToken}  
 type="from"  
 />  
 <SwapToggleButton />  
 <SwapAmountInput  
 label="Buy"  
 swappableTokens={swappableTokens}  
 token={USDCToken}  
 type="to"  
 />  
 <SwapButton />  
 <SwapMessage />  
</Swap>  
Fund  
Fund a wallet by transferring from another wallet, transferring from a Coinbase account, or purchasing crypto using debit card.  
Start with Fund  
<FundButton />  
Identity  
Display ENS avatars, Attestation badges, ENS names and account addresses.  
Start with Identity  
<Identity  
 address="0x838aD0EAE54F99F1926dA7C3b6bFbF617389B4D9"  
 schemaId="0xf8b05c79f090979bf4a80270aba232dff11a10d9ca55c4f88de95317970f0de9"  
 className="rounded-xl"  
>  
 <Avatar>  
 <Badge className="badge"/>  
 </Avatar>  
 <Name />  
 <Address />  
</Identity>  
OnchainKit  
Build onchain apps with ready-to-use React components and Typescript utilities.  
Get started  
Docs  
Playground  
Coverage 100%  
Template  
Figma  
This project is licensed under the MIT License · Terms of Service.

URL: https://smartwallet.dev/  
  
Skip to content  
Smart Wallet  
Demo  
SDK Playground  
Github  
Discord  
On this page

URL: https://nsb.dev/batw-india-ideas  
  
Based India - Ideas List  
Report abuse  
Use this data  
Sign up for free  
Filter  
Sort  
Decentralized crop insurance platform for smallholder farmers.  
Idea Description  
This project offers a decentralized insurance solution where farmers can buy affordable crop insurance using smart contracts. Base ensures that transactions (such as claims and payouts) are fast and cost-effective, while Okto’s integration supports multi-chain flexibility. Smart contracts would automatically trigger payouts based on weather conditions, providing security to farmers in volatile climates.  
How is this idea relevant to the region you've selected above  
Many farmers in India and Africa don’t have access to crop insurance or face long payout times. This solution offers immediate, trustless payouts based on real-world data.  
Web3 Domains  
DeFi  
Public Goods  
Data/Analytics  
Builder Community  
Okto by CoinDCX  
Onchain P2P  
Idea Description  
Build an onchain P2P mechanism, where the onchain transfers and bank transfers can be verified onchain.   
Lock funds in a separate bank account from the buyer, emit the buy intent to a group of permissioned solvers. Once the Intent is resolved, transfer fiat to the solver and crypto to the user. Build onchain verifiability for the same.  
How is this idea relevant to the region you've selected above  
We face lot of issues in India with respect to onramps and offramps due to government regulations. Existing P2P channels have lot of risk due to scams. Building onchain P2P model will add verifiability which can avoid the scams as well as no centralised risk.  
Web3 Domains  
DeFi  
Wallet/Payments   
Builder Community  
Okto by CoinDCX  
Decentralized community savings pool for local groups to contribute and borrow.  
Idea Description  
Think of it as a decentralized “chit fund” or “tontine.” Community members contribute to a shared pool, and each member can borrow from the pool when needed. Smart contracts handle trust and distribution, and Base’s fast transactions make pooling quick and cost-effective. Okto can integrate this across different chains for greater flexibility.  
How is this idea relevant to the region you've selected above  
Many people in Africa and India don’t have access to formal financial institutions. This project allows them to manage savings and loans within trusted communities, without needing a bank.  
Web3 Domains  
DeFi  
Wallet/Payments   
Public Goods  
Builder Community  
Okto by CoinDCX  
Localized Education Onchain  
Idea Description  
Create a decentralized platform to provide localized education resources, offering content in regional languages and subjects relevant to Indian students.  
How is this idea relevant to the region you've selected above  
With India's diverse linguistic landscape and educational disparity, this platform can democratize access to quality education, especially in rural areas.  
Web3 Domains  
Public Goods  
Builder Community  
Decentralized Artisan Market  
Idea Description  
Create an NFT-based marketplace where Indian artisans can sell their traditional crafts directly to global buyers, ensuring authenticity and fair pricing.  
How is this idea relevant to the region you've selected above  
India has a rich artisan heritage; this platform can help preserve local crafts and provide artisans direct access to buyers without middlemen.  
  
  
Web3 Domains  
NFTs  
Builder Community  
Decentralized job-matching platform with verifiable work history and skills.  
Idea Description  
This project helps connect job seekers with employers in an automated, decentralized way. Workers can verify their work history through on-chain data using Base’s efficient network, and Okto provides wallet integration to manage profiles across multiple chains.  
How is this idea relevant to the region you've selected above  
many people work informally or remotely, this platform provides a trusted way for employers to verify job histories and connect with skilled workers.  
Web3 Domains  
Social Network  
Data/Analytics  
Builder Community  
Okto by CoinDCX  
Decentralized voting platform for local governance or community decisions.  
Idea Description  
Communities can use this onchain platform for transparent voting on local issues or projects. Smart contracts on Base handle vote tallying in a secure and efficient way, while Okto’s wallet provides multi-chain compatibility, enabling communities to integrate with other chains as needed.  
How is this idea relevant to the region you've selected above  
Local governance in many regions suffers from a lack of transparency. This solution brings trust and efficiency to decision-making processes at the community level.  
Web3 Domains  
Public Goods  
DAO Tooling  
Builder Community  
Okto by CoinDCX  
Onchain Crowdfunding for Social Causes  
Idea Description  
Build a platform that enables transparent, decentralized crowdfunding for local social causes and charitable organizations in India.  
How is this idea relevant to the region you've selected above  
Given India’s strong culture of community service, this tool can enhance accountability in donations while allowing local organizations to scale efforts.  
  
  
Web3 Domains  
DAO Tooling  
Builder Community  
A decentralized NFT marketplace for local artisans to sell crafts and goods.  
Idea Description  
This platform enables local artisans to tokenize their crafts as NFTs, which are sold to a global market. Using Base’s affordable transaction fees, artisans can mint NFTs without prohibitive costs, and Okto’s multi-chain support allows them to interact with buyers across different blockchain ecosystems.  
How is this idea relevant to the region you've selected above  
Many artisans in India, LatAm and Africa don’t have access to global markets or face high fees on centralized platforms. This gives them direct access to buyers without intermediaries.  
Web3 Domains  
NFTs  
Social Network  
Public Goods  
Builder Community  
Okto by CoinDCX

URL: https://status.base.org/  
  
Base  
All Systems Operational  
Uptime over the past 90 days. View historical uptime.  
Website  
Operational  
90 days ago  
100.0 % uptime  
Today  
Mainnet ?  
Operational  
90 days ago  
99.99 % uptime  
Today  
Testnet ?  
Operational  
90 days ago  
99.99 % uptime  
Today  
Bridge (Mainnet) ?  
Operational  
90 days ago  
100.0 % uptime  
Today  
Bridge (Testnet) ?  
Operational  
90 days ago  
100.0 % uptime  
Today  
Scheduled Maintenance  
Planned Gas Target Increase  
Oct 16, 2024 17:00-18:00 UTC  
Base is increasing the per block gas target from 13 to 14 Mgas/s as part of continued, planned scaling efforts to bring a billion people onchain.  
  
For builders and almost all Base users, no changes are necessary. But if you're running a Base Node and notice any latency after the increase:  
  
1. Monitor CPU and Disk I/O usage  
2. Enhance disk throughput and use disks with lower read/write latency (NVMe SSDs recommended)  
3. Improve CPU, focusing on single-core speed  
  
You can also stop by the #node-operators channel in the Base Discord (https://base.org/discord) if you have any questions and we'll be happy to help you there!  
Posted on Oct 14, 2024 - 23:51 UTC  
Past Incidents  
Oct 15, 2024  
Base Sepolia Testnet stall  
Resolved - This incident has been resolved.  
Oct 15, 00:57 UTC  
Monitoring - A fix has been implemented and we are monitoring the results. Block production has resumed and batches are being posted.  
Oct 14, 14:28 UTC  
Identified - The issue has been identified and a fix is being implemented  
Oct 14, 14:15 UTC  
Investigating - Block production on Base Sepolia testnet is currently stalled. The team is investigating and will update as we work towards resolution.  
Oct 14, 14:09 UTC  
Oct 14, 2024  
Oct 13, 2024  
No incidents reported.  
Oct 12, 2024  
No incidents reported.  
Oct 11, 2024  
No incidents reported.  
Oct 10, 2024  
No incidents reported.  
Oct 9, 2024  
Planned Gas Target Increase  
Completed - The scheduled maintenance has been completed.  
Oct 9, 18:00 UTC  
In progress - Scheduled maintenance is currently in progress. We will provide updates as necessary.  
Oct 9, 17:00 UTC  
Scheduled - Base is increasing the per block gas target from 12 to 13 Mgas/s as part of continued, planned scaling efforts to bring a billion people onchain.  
  
For builders and almost all Base users, no changes are necessary. But if you're running a Base Node and notice any latency after the increase:  
  
1. Monitor CPU and Disk I/O usage  
2. Enhance disk throughput and use disks with lower read/write latency (NVMe SSDs recommended)  
3. Improve CPU, focusing on single-core speed  
  
You can also stop by the #node-operators channel in the Base Discord (https://base.org/discord) if you have any questions and we'll be happy to help you there!  
Oct 8, 23:23 UTC  
Oct 8, 2024  
No incidents reported.  
Oct 7, 2024  
No incidents reported.  
Oct 6, 2024  
No incidents reported.  
Oct 5, 2024  
No incidents reported.  
Oct 4, 2024  
No incidents reported.  
Oct 3, 2024  
No incidents reported.  
Oct 2, 2024  
Planned Gas Target Increase  
Completed - The scheduled maintenance has been completed.  
Oct 2, 18:00 UTC  
In progress - Scheduled maintenance is currently in progress. We will provide updates as necessary.  
Oct 2, 17:00 UTC  
Scheduled - Base is increasing the per block gas target from 11 to 12 Mgas/s as part of continued, planned scaling efforts to bring a billion people onchain.  
  
For builders and almost all Base users, no changes are necessary. But if you're running a Base Node and notice any latency after the increase:  
  
1. Monitor CPU and Disk I/O usage  
2. Enhance disk throughput and use disks with lower read/write latency (NVMe SSDs recommended)  
3. Improve CPU, focusing on single-core speed  
  
You can also stop by the #node-operators channel in the Base Discord (https://base.org/discord) if you have any questions and we'll be happy to help you there!  
Oct 1, 01:09 UTC  
Oct 1, 2024  
No incidents reported.  
← Incident History  
Powered by Atlassian Statuspage

URL: https://www.base.org/ecosystem  
  
—  
Mgwei  
Build  
Explore  
Community  
About  
Socials  
Base ecosystem apps and integrations overview.  
Submit your app  
ALL  
WALLET  
BRIDGE  
DEFI  
GAMING  
ONRAMP  
DAO  
INFRA  
SOCIAL  
SECURITY  
NFT  
OTHER  
X-CHAIN  
X-CROSS  
DEFI  
0X  
0x.org  
Your one stop shop to build financial products on crypto rails. Enable faster trading, better prices and superior UX in your app.  
SOCIAL  
0XPPL  
0xppl.com  
0xPPL is a web3 social platform enabling you to follow or interact with onchain activities of your peers & discover trends in a human-readable feed. Access your multi-chain portfolio across EVMs, Solana, Cosmos, and TON.  
INFRA  
0XSPLITS  
0xsplits.xyz  
Splits is a set of simple, modular smart contracts for safe and efficient onchain payments. You can split revenue from NFT sales, recoup expenses, diversify an income stream, withhold taxes, and much more.  
INFRA  
1RPC  
1rpc.io  
1RPC is a private RPC relay that eradicates metadata exposure and leakage, allowing users to gain control of their interactions with the blockchain with a one-click user experience.  
DEFI  
AAVE  
app.aave.com  
Aave Protocol is a non-custodial liquidity protocol. Users can participate as suppliers, borrowers, or liquidators, earning interest on supplied assets and borrowing in an overcollateralized manner.  
BRIDGE  
ACROSS PROTOCOL  
across.to  
Across Protocol is a leading cross-chain token bridge that is secured by UMA's optimistic oracle. It is optimized for capital efficiency with a single liquidity pool, a competitive relayer landscape, and a no-slippage fee model. You can expect secure, fast and affordable cross-chain token transfers with Across.  
INFRA  
ADD3  
add3.io  
EVM smart contract creation and management for web3 projects - Use Add3 to deploy customizable & compliant web3 smart contract products, dapp & analytics in minutes. Code or no-code options available!  
DEFI  
AERODROME FINANCE  
aerodrome.finance  
The central trading and liquidity marketplace on Base.  
INFRA  
ALCHEMY  
alchemy.com  
Alchemy is the leading web3 developer platform. Alchemy’s Account Abstraction APIs and SDK make it easy to offer seamless transactions and simple, secure accounts. Build anything on Base with Alchemy!  
INFRA  
ALEPH.IM  
aleph.im  
Open source and agnostic Decentralized Physical Infrastructure Network providing Confidential VMs, Indexing, Web hosting, Storage, Databases, Compute, AI and VRF.  
SOCIAL  
ALFAFRENS  
alfafrens.com  
AlfaFrens is a SocialFi app on Farcaster for gated alfa chat subscriptions powered by Superfluid. Subscribe to creators with $DEGEN, earn $ALFA and stake it on creators for a share of their revenue.  
DEFI  
ALGEBRA  
algebra.finance  
Algebra is an AMM providing modular concentrated liquidity (V4) with dynamic fees and hooks to DEXes on Base  
DEFI  
ALIEN BASE  
app.alienbase.xyz  
Alien Base is the Base-native decentralized exchange ecosystem. Use it to trade blue chip assets and derivatives, or check out Area 51 to play with experimental tokens, predictions and lotteries  
INFRA  
ALL THAT NODE  
allthatnode.com  
All That Node is the most comprehensive multi-chain development suite, designed to support multiple networks from a single platform.  
INFRA  
AMBERDATA  
amberdata.io  
Amberdata delivers comprehensive digital asset data and insights into blockchain networks, crypto markets, and decentralized finance, empowering financial institutions with critical data for research, trading, risk, analytics, reporting, and compliance.  
WALLET  
AMBIRE WALLET  
ambire.com  
Ambire Wallet is an open-source self-custodial smart wallet that utilizes account abstraction, acting as a gateway to Web3 applications and providing users with secure and effortless management of their digital assets.  
View more  
Terms of Service  
Privacy Policy  
Cookie Policy  
Cookie Manager

URL: https://bridge.base.org/deposit  
  
Ecosystem  
Developers  
About  
Socials  
Superchain Bridges  
Go to Superbridge or Brid.gg to bridge your assets to and from Base. For questions, see our FAQ.  
SUPERBRIDGE  
By Blob Engineering  
BRID.GG  
By Bridgg  
Coinbase Technologies, Inc., provides links to these independent service providers for your convenience but assumes no responsibility for their operations. Any interactions with these providers are solely between you and the provider.  
FREQUENTLY ASKED QUESTIONS  
Can I still use the bridge on bridge.base.org?  
I used bridge.base.org in the past, how do I find my deposit or withdrawal?  
Why has Base deprecated the bridge on bridge.base.org?  
Who operates Superchain Bridges like Superbridge.com and Brid.gg?  
What if I have a question, issue or problem?

URL: https://paragraph.xyz/@grants.base.eth/calling-based-builders  
  
Base Grants  
Subscribe  
Calling Based Builders  
Builder Grants are ongoing experiments to recognize Base builders  
Base Grants  
October 30, 2023  
Share  
Collect  
3198 collectors  
Learnings so far  
We're constantly working to make the Base ecosystem a great place for builders, and one of the ways we're doing this is through grants.  
So far we’ve distributed grants through hackathons (like at ETH Denver and 100 Builders) and onchain platforms (like Prop House’s Onchain Summer, Build on Base, Based Accounts, and Stand with Crypto rounds). Base builders are also eligible for grants through Optimism's RetroPGF and investments through the Base Ecosystem Fund led by Coinbase Ventures.   
We’ve also learned a lot. Most importantly, we learned that the speed of getting capital to builders is critical. Especially early on in projects where things move quickly.   
To fill the gap for builders, we’re introducing Builder Grants. These are small grants for builders with early ideas or initial prototypes, hacking away on nights and weekends. Like our other grants programs, this will be another experiment and we’re excited to continue to iterate.  
Builder Grants  
Our north star is to quickly and efficiently get resources into the hands of the people making the most meaningful contributions to Base.  
Some things we will consider when looking to give out a Builder Grant:  
Is the builder creating something unique and fun?  
Is the builder bringing more users onchain?   
Is the builder's contribution live and making an impact?  
We will mostly be relying on our own discovery process to find these grantees, but if you want to nominate someone you can submit a nomination here. Our team will be in touch if you are selected for a grant.   
Whether it’s a new dapp, design, or dashboard—we can’t wait to see what you come up with.   
We are treating this program as a living organism - we don't have the perfect answers, so we'll be experimenting and iterating based on what we see working. If you have ideas and feedback, we would love to hear!  
FAQ  
What is the review process for grants?   
The grants review team is made up of builders on the Base team. We find grants through Twitter, Farcaster, and nominations submitted from the community in the form here.  
We then spend time testing and using, before deliberating on issuing a grant based on some of the criteria mentioned above.  
Given the number of inbound requests, we will not be responding to all requests and only reach out if you are selected.   
How large are Base grants?   
What information do you collect from grant recipients?   
The information provided in this document is for general informational purposes only. It is not intended as and should not be relied upon as financial, legal, tax, or other professional advice. You should consult with a professional advisor before making any decisions based on this information. We make no representations or warranties of any kind, express or implied, about the completeness, accuracy, reliability, suitability, or availability with respect to the information contained in this document. Any reliance you place on such information is strictly at your own risk.  
  
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Subscribe  
ARWEAVE TX  
FB314GDBELT88aQTi9gSRw0RDHe1FedAirJiNyUbM8E  
Twitter  
GitHub  
RSS  
Create your own publication  
© 2024 Base Grants

URL: https://www.base.org/about  
  
—  
Mgwei  
Build  
Explore  
Community  
About  
Socials  
We've been building towards Base for the last 10 years.  
From the beginning, our secret master plan has been clear and consistent: create an open financial system that increases economic freedom globally by moving deliberately through four phases.  
Phase 1: Develop the protocol (1M people)  
New protocols (Bitcoin, Ethereum, etc) were invented and people began to tinker with them. Open source communities developed around each protocol and early adopters began experimenting with how they could be used.  
Phase 2: Build a digital currency exchange (10M people)  
Coinbase started here. Investment or speculation is a bootstrapping mechanism for a payment network (in other words, it is the single-player mode of digital currency). And the creation of safe and easy to use exchanges served as a bridge for people to get their local currency into and out of digital currency.  
Phase 3: Build a mass market interface for digital currency apps (100M people)  
To move beyond just exchange and investment, consumers and businesses needed an easy interface to start using digital currency and its applications. Countless applications have been built to let anyone, anywhere access the nascent cryptoeconomy, including Coinbase, Coinbase Wallet, Metamask, Rainbow, Trust Wallet, and others.  
Phase 4: Build the onchain apps of an open financial system (1B+ people)  
With the interfaces in place, our existing financial system now needs to be recreated on open networks and made globally accessible. We’re seeing this happen in front of our eyes: USDC has brought billions of dollars onchain, cbETH enables holders anywhere to secure the financial system while earning rewards, and hundreds of onchain apps are enabling countless individuals and institutions to transact with lower fees, more security, and unparalleled access.  
We've had countless conversations about how we can accelerate Phase 4 of this plan with both internal teams and external collaborators. The takeaway is that in order to unlock the scale, usability, and security needed for the final phase, we actually need to go back to the beginning: developing the underlying protocols that enable the end user applications.  
We started by doing this on Ethereum, driving EIP4844 with Optimism to enable L2 rollups to scale. But we don't believe that's enough, so here we are.  
Base is our “all in” commitment to onchain.  
We believe that the onchain platform is the most important builder platform since the internet (“online”). We believe that the onchain platform should be open source, free to use, and globally available. And we believe that in order to make it really work, we need all hands on deck, working together to scale in a secure, safe, easy-to-use way.  
Join us.  
Base Contributors  
Start building on Base  
Read the docs  
GET CONNECTED  
Terms of Service  
Privacy Policy  
Cookie Policy  
Cookie Manager

URL: https://github.com/base-org/brand-kit  
  
Skip to content  
Navigation Menu  
Product  
Solutions  
Resources  
Open Source  
Enterprise  
Pricing  
Sign in  
Sign up  
Dismiss alert  
base-org  
/  
brand-kit  
Public  
Notifications You must be signed in to change notification settings  
Fork 371  
Star 1.3k  
You must be signed in to change notification settings  
Code  
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Additional navigation options  
base-org/brand-kit  
 main  
Code  
Folders and files  
Name Last commit message Last commit date  
Latest commit  
zencephalon  
Merge pull request #28 from pawelmhm/small-fixes  
2 months ago  
10f77e1  
 · 2 months ago  
Aug 29, 2024  
History  
36 Commits  
fonts  
docs(fonts): Add fonts to repository  
6 months agoApr 23, 2024  
guides  
Merge branch 'main' into small-fixes  
2 months agoAug 29, 2024  
logo  
Move symbol and wordmark out of the file-type subdirs  
last yearJul 28, 2023  
.gitignore  
initial commit  
last yearMar 8, 2023  
README.md  
fix(readme): Formatting  
3 months agoJul 31, 2024  
logo.webp  
README: Add community and open source related links  
last yearSep 26, 2023  
Repository files navigation  
README  
Base brand-kit  
This repo contains brand and editorial style guides for Base.  
Base is a secure, low-cost, developer-friendly Ethereum L2 built to bring the next billion users onchain. It's built on Optimism’s open-source OP Stack.  
Guides  
Brand Guide  
Editorial Style Guide  
Fonts  
Located in /fonts.  
Logos  
Symbol Wordmark  
About  
Brand guide and logos for the Base brand. Built on the Superchain.  
base.org  
Resources  
Readme  
Activity  
Custom properties  
Stars  
1.3k stars  
Watchers  
20 watching  
Forks  
371 forks  
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URL: https://warpcast.com/base/0xb3f1428b  
  
Conversation  
base-builds  
/base-builds  
base  
2mo  
Member  
What are you building on Base?  
  
Post to /base-builds from Friday to Monday to be eligible for 2.25 ETH in weekly rewards from @rounds  
rounds.wtf  
4recasts  
·  
4quotes  
·  
60likes  
·  
10warps  
·  
3.6Kviews  
sweetman.eth  
2mo  
We like the universal builder income  
1like  
mahnaaz  
2mo  
gm 🫡💙  
mahnaaz  
2mo  
This week I built "Nounish Vibe" on @base to celebrate Noun's 3rd birthday! ⌐◨-◨  
My artwork was featured on the front page of @coinbasewallet. There have been over 5K mints so far! You can mint and earn +200 points.  
  
JOB'S NOT FINISHED @jessepollak 🔵  
As I build every week, I created a piece for the "Summer Felora" col...  
Nounish Vibe  
wallet.coinbase.com  
Mint  
amirkarimi  
2mo  
This week I built...  
amirkarimi  
2mo  
This week I built and launched the first episode of the "Base Boost" event with @mahnaaz to inform and share weekly updates about @base. 🔵  
  
JOB'S NOT FINISHED!  
It takes place every Thursday at the Panjere coworking space in the Mashhad Innovation Ecosystem, Iran.  
The poster is designed by @desdot.  
  
Special thanks to @...  
mwf  
2mo  
I think I'm invisible on these channels  
druxamb  
2mo  
what I shipped this week  
druxamb  
2mo  
This week our team @baseafrica.eth held the first Onboarding Call for Members 👨🏽‍💻, we onboarded new members and let them know how @base can help scale there up businesses ( they truly amazed on what @base has to offer ).  
  
Join our discord here: https://discord.com/invite/w5sAcmNWG9  
@jessepollak @sir-damilare @statu...  
xbornid.eth  
2mo  
I'm in  
berlin  
2mo  
ive posted a couple of times to this but ive received nothing. ive been busy building /farconic on /base  
cordaro  
2mo  
👍😎  
defi-disciple  
2mo  
Early Stage.  
  
Currently learning Kubernetes for decentralized hosting of a local AI (all on prem.)  
  
After deployment, I will be training said AI on sentiment market analysis and micro/macro-economics to then turn it loose trading on-chain.  
  
After it is consistently profitable, I will move to the cloud and launch a token; tokens will be redeemable for x% of AI profit.  
Show more replies  
Ctrl+K  
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URL: https://help.coinbase.com/en/coinbase/other-topics/other/base  
  
help.coinbase.com  
Verifying you are human. This may take a few seconds.  
help.coinbase.com needs to review the security of your connection before proceeding.  
Ray ID: 8d2f67459d97a6c2  
Performance & security by Cloudflare

URL: https://docs.farcaster.xyz/learn/  
  
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Getting Started  
Farcaster is a sufficiently decentralized social network built on Ethereum.  
It is a public social network similar to Twitter and Reddit. Users can create profiles, post "casts" and follow others. They own their accounts and relationships with other users and are free to move between different apps.  
Join Farcaster  
If you're not on Farcaster, get started by creating your account with Warpcast.  
Learn  
If you want to learn more, get started by diving into these concepts:  
Farcaster 101 - a walkthrough of the Farcaster protocol in short, 5 minute videos.  
Core Concepts - learn about the building blocks of Farcaster, starting with accounts.  
Architecture - a breakdown of Farcaster's onchain and offchain systems.  
Tutorials  
Build your first frame - Make mini-apps that run inside Farcaster.  
Sign in with Farcaster - Let users login to your app with their Farcaster account.  
Write your first app - Publish a "Hello World" message to Farcaster.  
Find more how-tos, guide and tutorials like this in the developers section.  
Documentation  
Farcaster Spec - Specifications for Farcaster, including its contracts and hubs.  
Frame Spec - Specifications for writing and rendering frames in Farcaster apps.  
APIs - Docs for API's and ABI's for onchain and offchain systems.  
Contributing  
To learn about how to contribute to the protocol, including this documentation site, check out the Contributing section.  
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Join the conversation  
Ask questions and hang out with other Farcaster developers in the /fc-devs channel on Farcaster.  
Create frames  
Learn how to build frames, which are mini-apps that run inside a Farcaster feed.  
Introduction - understand what a frame is and how it works  
Getting Started - Build your first Frame  
Specification - a formal specification for the Frame standard  
Sign in with Farcaster  
Make it easy for users to sign in to your app with their Farcaster account.  
Examples - see Sign in with Farcaster (SIWF) in action  
AuthKit - a React toolkit to integrate SIWF  
FIP-11 - the formal standard for SIWF  
Analyze Farcaster data  
Sync the Farcaster network to a local machine so you can run queries on the data.  
Run a hub - get realtime access to Farcaster data on your machine  
Write your first hub query - get an account's casts from a hub  
Set up the replicator - sync a hub to a postgres database to run advanced queries  
Write to Farcaster  
Hello World - programmatically create an account and publish a cast  
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URL: https://docs.farcaster.xyz/auth-kit/  
  
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Auth Client  
AuthKit  
AuthKit is a React library that lets users log in to your app with a Farcaster account.  
Click "Sign in With Farcaster" above to try it out on web or click here for mobile.  
How does it work?  
It uses the Sign In With Farcaster standard under the hood, which is conceptually like "Sign in with Google". When integrated, AuthKit will:  
Show a "Sign in with Farcaster" button to the user.  
Wait for the user to click, scan a QR code and approve the request in Warpcast.  
Receive and verify a signature from Warpcast.  
Show the logged in user's profile picture and username.  
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Hubble  
Hubble is an implementation of the Farcaster Hub Protocol, written in TypeScript and Rust.  
Hubble creates a private instance of Farcaster on your machine. It peers with other instances and downloads a copy of the entire network. Messages uploaded to your Hubble instance will be broadcast to the network.  
We recommend running Hubble if you are building an app, need access to the latest data or want to help decentralize the network.  
⚠️ NOTE: There are NO rewards for running a Hubble instance  
Hosted Instances  
Hubble instances can also be hosted for you by other service providers.  
Hubs x Neynar  
Hubs x Pinata  
Public Instances  
The Farcaster team runs an instance of Hubble for use by the public. This isn't guaranteed to be stable, and is read-only for now.  
bash  
url: hoyt.farcaster.xyz  
httpapi\_port: 2281  
gossipsub\_port: 2282  
grpc\_port: 2283  
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API Reference  
Overview  
The reference sections documents API's, standards and protocols used commonly used by Farcaster developers.  
Frames - A specification for writing and rendering frames.  
Warpcast - An overview of Warpcast APIs that are publicly available.  
Hubble - A design overview and API reference for Farcaster Hubs.  
Replicator - An overview and schema for the replicator.  
Contracts - A design overview and ABI reference for Farcaster contracts.  
FName Registry - An overview and API reference for the Farcaster Name Server.  
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You must be signed in to change notification settings  
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Latest commit  
antews  
fix: wrong domain name (#198)  
18 hours ago  
2f1dcde  
 · 18 hours ago  
Oct 14, 2024  
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158 Commits  
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chore: redirect users to discussions for proposals  
2 years agoDec 13, 2022  
docs  
fix: wrong domain name (#198)  
18 hours agoOct 14, 2024  
images  
docs: add archway image  
2 years agoAug 17, 2022  
.gitignore  
ci: add prettier check  
2 years agoAug 3, 2022  
.prettierrc.yml  
ci: add prettier check  
2 years agoAug 3, 2022  
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last monthSep 17, 2024  
README.md  
Update README.md (#127)  
last yearOct 5, 2023  
package.json  
ci: add prettier check  
2 years agoAug 3, 2022  
yarn.lock  
more styling fixes  
last yearMar 9, 2023  
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README  
Farcaster Protocol  
Getting Started  
Farcaster is a protocol for building decentralized social apps. This repository contains the technical specification for implementing Farcaster.  
If you are instead looking for:  
How to get started, check out farcaster.xyz.  
Developer documentation, check out docs.farcaster.xyz.  
Specifications  
The specification is maintained as a Markdown file. There are three important sections:  
Overview - A high level overview of the protocol.  
Specification - The technical spec for implementing Farcaster.  
FIP Discussions - A forum where new proposals to change the specification are discussed.  
Contributing  
To make contributions to the protocol, please see the contributing guidelines  
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Latest  
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+ 3 releases  
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URL: https://twitter.com/farcaster\_xyz  
  
Don’t miss what’s happening  
People on X are the first to know.  
Log in  
Sign up

URL: https://www.youtube.com/@farcasterxyz  
  
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Sign in  
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You  
History  
Farcaster  
@farcasterxyz  
•  
2.6K subscribers  
•  
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Farcaster is a sufficiently decentralized social network. It is an open protocol that can support many clients, just like email.   
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Farcaster Dev Call: Sep 12, 2024  
312 views  
1 month ago  
51:58  
Farcaster Dev Call: Aug 29, 2024  
19 views  
1 month ago  
40:08  
Farcaster Dev Call: Aug 15, 2024  
27 views  
1 month ago  
32:07  
Farcaster Dev Call: Aug 1, 2024  
121 views  
2 months ago

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Frames Introduction  
Frames are a way to build interactive apps that run directly in a Farcaster social feed.  
They can be used to create rich in-feed experiences for web applications:  
NFTS shared from Zora and Highlight can be minted in-feed  
Newsletters shared from Paragraph can read inline and subscribed to in-feed  
Markets shared from Polymarket let users place bets in-feed  
Or standalone experiences like polls and games:  
spot and mint wild animals on a live-feed of a watering hole in the Namib Desert with Safaricaster  
make an onchain payment to another user with Paybot  
RSVP to an Eventcaster event  
Yoink the flag in this simple yet viral social game  
generate a Waifu NFT based on your Farcaster profile  
Farcaster 101  
A 5 minute non-technical primer on Frames:  
Next Steps  
Build your first frame  
Read through the formal Frames Specification.  
Join the Farcaster developer community in the /fc-devs channel on Farcaster.  
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Introduction  
Sign In with Farcaster (SIWF) is way for users to sign into any app using their Farcaster identity.  
When a user signs into your application with Farcaster you'll be able to use public social data like their social graph and profile information to provide a streamlined onboarding experience and social-powered features.  
How does it work?  
Show a "Sign in with Farcaster" button to the user.  
Wait for the user to click, scan a QR code and approve the request in Warpcast.  
Receive and verify a signature from Warpcast.  
Show the logged in user's profile picture and username.  
Next Steps  
integrate SIWF to your app today with AuthKit.  
read about the underlying standard in FIP-11: Sign In With Farcaster  
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Not ready to build?  
If you'd prefer to learn more about Frames before building one, jump ahead to the Frames Specifcation.  
Let's use Frog to go from 0 to 1 in less than a minute. At the end of this we'll have:  
a type-safe frame server with a basic frame  
a tool for interacting with and debugging our Frame locally  
our server deployed on the public internet  
Bootstrap via CLI  
To get started, scaffold a new project:  
npm  
yarn  
bun  
pnpm  
txt  
ts  
npm init frog -t vercel  
Complete the prompts and follow the instructions:  
INFO  
This guide uses Frog + Vercel but frames can be built and deployed in any number of ways. You can check out popular alternatives like frame.js on the Frame Developer Resources page.  
Open the preview  
Now that you have a frame server running, navigate to http://localhost:5174/api/dev to interact with your frame in the Devtools preview.  
You should see a frame that says "Welcome!" and has three buttons: apples, oranges, and bananas. Click on any of the buttons and the frame will update with a message echoing your choice.  
Deploy the frame  
INFO  
This project was scaffolded for deployment with Vercel since it's a popular and easy option. If you'd like to deploy your Frame another way check out the Frog Platforms documentation.  
To distribute your frame your server will need to be hosted somewhere on the internet. Feel free to skip this step and come back later.  
npm  
yarn  
bun  
pnpm  
ts  
npm run deploy  
.  
Complete the prompts. Once your frame is deployed you can test it end-to-end using the Warpcast Frame Validator.  
INFO  
Make sure to plug the full frame URL in. For Vercel projects this default frame url is located at https://<domain>/api.  
Next steps  
Here are some next steps now that you have your first Frames project scaffolded and deployed:  
Read through the Frog Concepts documentation to learn how to build a sophisticated, multi-step frame.  
Try scaffolding a project with frames.js and check out their extensive guides and examples.  
Discover more resources for building and learning about frames.  
Read over our best practices for building a great Frame experience.  
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Frame Specification  
Frames are a standard for creating interactive and authenticated experiences on Farcaster, embeddable in any Farcaster client.  
A frame is a set of <meta> tags returned within the <head> of an HTML page. If a page contains all required frame properties, Farcaster apps will render the page as a frame. The frame <meta> tags extend the OpenGraph protocol.  
Frames can be linked together to create dynamic applications embedded inside casts.  
Lifecycle of a frame app  
A frame app begins with an initial frame which is cached by apps and shown to users. A frame must have an image. It may have buttons, which when clicked load other frames or redirect the user to external websites.  
Initial Frames  
A frame is an HTML web application that lives at a URL (e.g. foo.com/app) on a web server. We'll refer to this web server as the "frame server."  
The frame server:  
Must return a valid frame in the HTML <head> section.  
Should return a valid HTML <body>, in case the user clicks through to the frame in a browser.  
Should not include dynamic content in the initial frame, since it is cached by Farcaster clients.  
Should not include an fc:frame:state tag.  
Response Frames  
When a user clicks a button on a frame, the app makes a POST request to the frame server with a frame signature which proves that the request came from the user. The server must respond with a new frame that is sent back to the user.  
When a frame server receives a POST request:  
It must respond within 5 seconds.  
It must respond with a 200 OK and another frame, on a post button click to indicate success.  
It must respond with a 302 OK and a Location header, on a post\_redirect button click to indicate success.  
It may respond with 4XX status, content-type: application/json header, and JSON body containing a message property that is <= 90 characters to indicate an application-level error.  
Any Location header provided must contain a URL that starts with http:// or https://.  
Rendering Frames  
A frame enters Farcaster when a user creates a cast and embeds the frame URL in it. An app that wants to support frames must:  
Check all call cast embed URLs for valid frames.  
If the frame is valid, render the frame when the cast is viewed.  
If the frame is malformed, fall back to treating it as an OpenGraph embed.  
Follow the frame security model.  
Constructing a frame  
A frame must include required properties and may contain optional properties. Frames can be validated using the Frame Validator tool provided by Warpcast.  
Properties  
A frame property is a meta tag with a property and a content value. The properties are always prefixed with fc:frame.  
html  
<!-- An example declaring a frame and supported version -->  
  
<meta property="fc:frame" content="vNext" />  
Required Properties  
Key Description  
fc:frame A valid frame version string. The string must be a release date (e.g. 2020-01-01) or vNext. Apps must ignore versions they do not understand. Currently, the only valid version is vNext.  
fc:frame:image An image which should have an aspect ratio of 1.91:1 or 1:1  
og:image An image which should have an aspect ratio of 1.91:1. Fallback for clients that do not support frames.  
Optional Properties  
Key Description  
fc:frame:post\_url A 256-byte string which contains a valid URL to send the Signature Packet to.  
fc:frame:button:$idx A 256-byte string which is the label of the button at position $idx. A page may contain 0 to 4 buttons. If more than 1 button is present, the idx values must be in sequence starting from 1 (e.g., 1, 2, 3). If a broken sequence is present (e.g., 1, 2, 4), the frame is invalid.  
fc:frame:button:$idx:action Must be post, post\_redirect, link, mint or tx. Defaults to post if not specified. See Button Actions for details on each action.  
fc:frame:button:$idx:target A 256-byte string which determines the target of the action.  
fc:frame:button:$idx:post\_url A 256-byte string that defines a button-specific URL to send the Signature Packet to. If set, this overrides fc:frame:post\_url.  
fc:frame:input:text Adding this property enables the text field. The content is a 32-byte label that is shown to the user (e.g., Enter a message).  
fc:frame:image:aspect\_ratio Must be either 1.91:1 or 1:1. Defaults to 1.91:1  
fc:frame:state A string containing serialized state (e.g. JSON) passed to the frame server. May be up to 4096 bytes.  
Button Actions  
post  
html  
<meta name="fc:frame:post\_url" content="https://frame.example.com/start" />  
<meta name="fc:frame:button:1" content="Start" />  
The post action sends an HTTP POST request to the frame or button post\_url. This is the default button type.  
The frame server receives a Signature Packet in the POST body, which includes information about which button was clicked, text input, and the cast context. The frame server must respond with a 200 OK and another frame.  
post\_redirect  
html  
<meta name="fc:frame:post\_url" content="https://frame.example.com/redirect" />  
<meta name="fc:frame:button:1" content="Redirect" />  
<meta name="fc:frame:button:1:action" content="post\_redirect" />  
The post\_redirect action sends an HTTP POST request to the frame or button post\_url. You can use this action to redirect to a URL based on frame state or user input.  
The frame server receives a Signature Packet in the POST body. The frame server must respond with a 302 Found and Location header that starts with http:// or https://.  
link  
html  
<meta name="fc:frame:button:1" content="Farcaster Docs" />  
<meta name="fc:frame:button:1:action" content="link" />  
<meta name="fc:frame:button:1:target" content="https://docs.farcaster.xyz" />  
The link action redirects the user to an external URL. You can use this action to redirect to a URL without handling a POST request to the frame server.  
Clients do not make a request to the frame server for link actions. Instead, they redirect the user to the target URL.  
mint  
html  
<meta name="fc:frame:button:1" content="Mint" />  
<meta name="fc:frame:button:1:action" content="mint" />  
<meta  
 name="fc:frame:button:1:target"  
 content="eip155:8453:0xf5a3b6dee033ae5025e4332695931cadeb7f4d2b:1"  
/>  
The mint action allows the user to mint an NFT. Clients that support relaying or initiating onchain transactions may enhance the mint button by relaying a transaction or interacting with the user's wallet. Clients that do not fall back to linking to an external URL.  
The target property must be a valid CAIP-10 address, plus an optional token ID.  
tx  
html  
<meta property="fc:frame:button:1" content="Transaction" />  
<meta property="fc:frame:button:1:action" content="tx" />  
<meta  
 property="fc:frame:button:1:target"  
 content="https://frame.example.com/get\_tx\_data"  
/>  
<meta  
 property="fc:frame:button:1:post\_url"  
 content="https://frame.example.com/tx\_callback"  
/>  
The tx action allows a frame to request the user takes an action in their connected wallet. Unlike other action types, tx actions have multiple steps.  
First, the client makes a POST request to the target URL to fetch data about the wallet action. The frame server receives a Signature Packet in the POST body, including the address of the connected wallet. The frame server must respond with a 200 OK and a JSON response describing the wallet action:  
json  
{  
 method: "eth\_sendTransaction",  
 chainId: "eip155:10",  
 params: {  
 abi: [...], // JSON ABI of the function selector and any errors  
 to: "0x00000000fcCe7f938e7aE6D3c335bD6a1a7c593D",  
 data: "0x783a112b0000000000000000000000000000000000000000000000000000000000000e250000000000000000000000000000000000000000000000000000000000000001",  
 value: "984316556204476",  
 },  
}  
The client uses this data to request an action in the user's wallet. If the user completes the action, the client makes a POST request to the post\_url with a Signature Packet that includes the transaction or signature hash in transaction\_id and the address used in address. The frame server must respond with a 200 OK and another frame. The frame server may monitor the transaction hash to determine if the transaction succeeds, reverts, or times out.  
Wallet Action Response Type  
A wallet action response must be one of the following:  
EthSendTransactionAction  
chainId: A CAIP-2 chain ID to identify the tx network (e.g. Ethereum mainnet)  
method: Must be "eth\_sendTransaction"  
attribution: Optional. Return false to omit the calldata attribution suffix. If this value is undefined or true, clients will append the attribution suffix.  
params:  
to: transaction to address  
abi: JSON ABI which must include encoded function type and should include potential error types. Can be empty.  
value: value of ether to send with the transaction in wei. Optional.  
data: transaction calldata. Optional.  
ts  
type EthSendTransactionAction = {  
 chainId: string;  
 method: 'eth\_sendTransaction';  
 attribution?: boolean;  
 params: {  
 abi: Abi | [];  
 to: string;  
 value?: string;  
 data?: string;  
 };  
};  
EthSignTypedDataV4  
See EIP-712.  
chainId: A CAIP-2 chain ID to identify the tx network (e.g. Ethereum mainnet)  
method: Must be "eth\_signTypedData\_v4"  
params:  
domain: the typed domain  
types: the type definitions for the typed data  
primaryType: the primary type to extract from types and use in value.  
message: typed message  
ts  
type EthSignTypedDataV4Action = {  
 chainId: string;  
 method: 'eth\_signTypedData\_v4';  
 params: {  
 domain: {  
 name?: string;  
 version?: string;  
 chainId?: number;  
 verifyingContract?: string;  
 };  
 types: Record<string, unknown>;  
 primaryType: string;  
 message: Record<string, unknown>;  
 };  
};  
Supported Chains  
Network Chain ID  
Ethereum eip155:1  
Arbitrum eip155:42161  
Base eip155:8453  
Degen eip155:666666666  
Gnosis eip155:100  
Optimism eip155:10  
Zora eip155:7777777  
Polygon eip155:137  
Testnet Chain ID  
Sepolia eip155:11155111  
Arbitrum Sepolia eip155:421614  
Base Sepolia eip155:84532  
Optimism Sepolia eip155:11155420  
Images  
There are a few rules for serving images in fc:frame:image tags:  
The size of the image must be < 10 MB.  
The type of image must be jpg, png or gif.  
The image source must either be an external resource with content headers or a data URI.  
Clients may resize larger images or crop those that do not fit in their aspect ratio. SVG images are not allowed because they can contain scripts and extra work must be done by clients to sanitize them.  
Frame servers can use cache headers to refresh images and offer more dynamic first frame experiences:  
Frame servers can use the max-age directive in the HTTP Cache-Control header to ensure images in the initial frame refresh automatically. A lower max-age ensures images update regularly without user interactions.  
App developers should respect cache headers set by the original frame image, and their image proxy implementations should not interfere with durations.  
Displaying frames in a feed  
Farcaster apps are responsible for rendering frames to users and proxying their interactions back to the frame server on their behalf.  
Parsing Frames  
When a URL is encountered embedded in a cast:  
Apps must scrape the headers to check if the URL is a frame.  
If the frame tags are valid, apps must render the frame.  
If the frame tags are invalid or absent, apps must fallback to OpenGraph tags.  
If OG tags are also absent, apps must render a placeholder error message.  
Rendering Frames  
Apps may render frames any time they are showing a cast to a viewer. The following rules apply to the rendering of frames:  
Buttons must be displayed in ascending index order below the image.  
Buttons may be displayed in multiple rows if space is a constraint.  
Text inputs must be displayed above the buttons and below the image.  
Text input labels must be shown above or inside the text input.  
Apps must respect the aspect ratio set in the fc:frame:image:aspect\_ratio property.  
If the button is a post\_redirect or link action:  
It must be visually marked with a redirect symbol.  
Users should be warned when leaving the app for untrusted sites.  
If the button is a mint action:  
Must validate that a CAIP-10 URL is present in the target property.  
Must display the item as an NFT, if all the properties are valid.  
If the button is a tx action:  
Must visually indicate that a tx button will request a wallet transaction.  
Must display the button label provided by the frame.  
Handling Clicks  
If the button clicked is a post or post\_redirect, apps must:  
Construct a Frame Signature Packet.  
POST the packet to fc:frame:button:$idx:target if present  
POST the packet to fc:frame:post\_url if target was not present.  
POST the packet to or the frame's embed URL if neither target nor action were present.  
Wait at least 5 seconds for a response from the frame server.  
If the button clicked is a mint, apps should:  
Allow the user to mint the NFT or open an external page that allows this functionality.  
Handling Responses  
Applications will receive responses from frame servers after a POST request is submitted. The following rules apply to the handling of these responses:  
If the button action was post, treat all non-200 responses as errors.  
If the button action was post\_redirect, treat all non-30X responses as errors.  
If handling a 30X response, apps must redirect the user to the url location value.  
If handling a 30X response, apps must ensure the url starts with http:// or https://.  
If handling a 30X response, warn the user before directing them to an untrusted site.  
If handling an application-level error response, display the message to end-user.  
Securing frames  
There are important security concerns that must be addressed by both frame developers and apps that implement frames.  
Frame Developers  
Sanitize all input received from the user via text inputs.  
Verify the signature of a frame signature packet.  
Validate the origin URL in the frame signature packet.  
Load transaction calldata only from trusted origins.  
App Developers  
Proxy image requests to prevent frame servers from tracking users.  
Sanitize redirect URLs to ensure they start with http:// or https://.  
Only accept data URIs if they are images.  
Avoid rendering SVGs as they may contain executable code.  
Apps should consider the following mechanisms to protect users against malicious transactions:  
Transaction simulation.  
Domain allowlisting and banlisting to stop known attackers.  
Social graph analysis to detect potential bad or untrusted actors.  
Educating users about the potential dangerous of transactions and using a wallet with limited balances.  
Data Structures  
Frame Signature  
A Frame signature proves that a user clicked a frame button. It is created by the Farcaster app, signed by the user's account and sent to the Frame server.  
When a frame button is clicked, the Farcaster app must generate a FrameAction protobuf. A FrameAction is a new type of Farcaster message. Like all FC messages, it must be signed with an active Ed25519 account key (aka signer) that belongs to the user.  
proto  
message FrameActionBody {  
 bytes frame\_url = 1; // The URL of the frame app  
 bytes button\_index = 2; // The index of the button that was clicked  
 CastId cast\_id = 3; // The cast which contained the frame URĽ  
 bytes input\_text = 4; // The text from the user input (if any)  
 bytes state = 5; // Serialized frame state value  
 bytes transaction\_id = 6; // Transaction ID  
 bytes address = 7; // User's connected address  
}  
  
// MessageType and MessageData are extended to support the FrameAction  
  
enum MessageType {  
 .....  
 MESSAGE\_TYPE\_FRAME\_ACTION = 13;  
}  
  
message MessageData {  
 oneof body {  
 ...  
 FrameActionBody frame\_action\_body = 16  
 }  
}  
A FrameActionBody in a message m is valid only if it passes these validations:  
m.signature\_scheme must be SIGNATURE\_SCHEME\_ED25519.  
m.data.type must be MESSAGE\_TYPE\_FRAME\_ACTION  
m.data.body.type must be a valid UserDataType  
m.data.body.url must be <= 256 bytes  
m.data.body.button\_index index must be ≥1 and ≤4.  
m.data.body.input\_text must be <= 256 bytes  
m.data.body.state must be <= 4096 bytes  
m.data.body.transaction\_id must be <= 256 bytes  
m.data.body.address must be <= 64 bytes  
Frame Signature Packet  
A signature packet is a JSON object sent to the Frame server when a button is clicked. It contains two objects:  
Signed Message — an authenticated protobuf that represents the user action. This message must be unpacked by a farcaster hub to read the data inside.  
Unsigned Message — an unathenticated JSON object that represents the user action. can be read directly.  
WARNING  
Unsigned messages can be spoofed and should usually be ignored. It is only safe to use them if you are performing an unauthenticated request.  
If you are unsure, always read the signed message by sending it into the validateMessage endpoint on hubs and only trust the data it returns.  
json  
{  
 "untrustedData": {  
 "fid": 2,  
 "url": "https://fcpolls.com/polls/1",  
 "messageHash": "0xd2b1ddc6c88e865a33cb1a565e0058d757042974",  
 "timestamp": 1706243218,  
 "network": 1,  
 "buttonIndex": 2,  
 "inputText": "hello world", // "" if requested and no input, undefined if input not requested  
 "state": "%7B%22counter%22%3A1%7D",  
 "transactionId": "0x83afec0f72e32d2409ceb7443dc9e01443d0dec6d38ab454bf20918cf633a455",  
 "address": "0xf6ea479f30a71cc8cb28dc28f9a94246e1edc492",  
 "castId": {  
 "fid": 226,  
 "hash": "0xa48dd46161d8e57725f5e26e34ec19c13ff7f3b9"  
 }  
 },  
 "trustedData": {  
 "messageBytes": "d2b1ddc6c88e865a33cb1a565e0058d757042974..."  
 }  
}  
The Signed Message can be validated by calling the validateMessage API on Hubs, as shown in the script below. See the Hub HTTP API for reference. The hub (assuming it’s fully in sync) will validate the following:  
the fid is a valid, registered farcaster fid  
the signer is currently active and associated with the fid  
the message hash is correct (contents match the hash)  
the signature for the message is valid, and came from the signer  
the FrameActionBody passes the above validations  
WARNING  
Hubs perform important validations in addition to verifying a signature packet's Ed25519 signature.  
Although it may be possible to validate an Ed25519 signature onchain, a valid signature is insufficient to fully authenticate a frame message packet. Applications must also check that the fid is valid, the signer key is active, and the message body is valid. Outside of OP mainnet, it is difficult to perform these validations onchain.  
vNext Changelog  
Date Change  
7/10/24 Frames should include the address that took a wallet action when posting back to target.  
7/10/24 Frames can request EIP-712 signatures.  
3/25/24 Frames can surface application-level errors to users.  
3/8/24 Frames can request transactions from the user's connected wallet.  
2/25/24 Frames can pass state to the frame server.  
2/23/24 Frames can use HTTP cache headers to refresh their initial image.  
2/8/24 Frames can have NFT mint buttons and images with 1:1 aspect ratio.  
2/6/24 Frames can define simple links to external pages.  
2/2/24 Frames can accept text input.  
1/30/24 Frames validator launched.  
1/29/24 Frames support redirecting after the post action.  
1/26/24 Frames launched.  
vNext Proposed Changes  
The following ideas are being explored actively as extensions to the frame specification:  
A refresh period, to bust the cache for the original frame url.  
An authentication system, to let users log into other applications via frames.  
A JSON response type, to allow for more flexibility in frame responses.  
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Installation  
Install auth-kit and its peer dependency viem.  
sh  
npm install @farcaster/auth-kit viem  
Note: auth-kit is a React library. If you're using a different framework, take a look at the client library instead.  
1. Import the libraries  
Import auth-kit and CSS styles.  
tsx  
import '@farcaster/auth-kit/styles.css';  
import { AuthKitProvider } from '@farcaster/auth-kit';  
import { SignInButton } from '@farcaster/auth-kit';  
2. Configure your provider  
Configure a provider with an Optimism RPC URL, your app's domain and login URL, and wrap your application in it.  
tsx  
const config = {  
 rpcUrl: 'https://mainnet.optimism.io',  
 domain: 'example.com',  
 siweUri: 'https://example.com/login',  
};  
  
const App = () => {  
 return (  
 <AuthKitProvider config={config}>{/\* Your App \*/}</AuthKitProvider>  
 );  
};  
3. Add a connect button  
Render the SignInButton component. When the user clicks this button, they will be prompted to complete sign in using their Farcaster wallet application.  
tsx  
export const Login = () => {  
 return <SignInButton />;  
};  
4. Read user profile  
Optionally, fetch details about the logged in user anywhere in your app with useProfile.  
tsx  
import { useProfile } from '@farcaster/auth-kit';  
  
export const UserProfile = () => {  
 const {  
 isAuthenticated,  
 profile: { username, fid },  
 } = useProfile();  
 return (  
 <div>  
 {isAuthenticated ? (  
 <p>  
 Hello, {username}! Your fid is: {fid}  
 </p>  
 ) : (  
 <p>You're not signed in.</p>  
 )}  
 </div>  
 );  
};  
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Client Side  
A frontend-only app that lets users Sign in with Farcaster and shows them their profile picture and username.  
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Server Side  
A Next.js app that lets users Sign in with Farcaster and handles sessions server-side.  
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Read only access to a hubble instance  
See hubble installation for more information on how to set up a local hubble instance.  
To query all the casts for a particular FID, you can use the castsByFid HTTP endpoint:  
bash  
# Default http port is 2281  
$ curl http://localhost:2281/v1/castsByFid\?fid\=1 | jq ".messages[].data.castAddBody.text | select( . != null)"  
"testing"  
"test"  
"another test"  
"another testy test"  
This returns all the cast related messages for the fid. There are similar endpoints for reactions and follows. See the http api reference for more details.  
If you have the hubble installed from source, you can use the built in console. This will use the grpc APIs  
bash  
# Ensure you are in the hubble sub directory  
$ cd apps/hubble  
# Remove `--insecure` if the host is using TLS  
$ yarn console --insecure -s localhost:2283  
> res = await rpcClient.getCastsByFid({fid: 1})  
Ok {  
 value: {  
 messages: [ [Object], [Object], [Object], [Object] ],  
 nextPageToken: <Buffer >  
 }  
}  
> res.value.messages.map( m => m.data.castAddBody.text)  
[ 'testing', 'test', 'another test', 'another testy test' ]  
For more details on the GRPC API, see the grpc api reference.  
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Replicate Hubble data to Postgres  
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Hubble instance running locally (for better performance) or remotely  
While some applications can be written by directly querying Hubble, most serious applications need to access the data in a more structured way.  
Shuttle is a package be used to mirror Hubble's data to a Postgres DB for convenient access to the underlying data.  
Check out the documentation for more information.  
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We recommend running Hubble on an always-on server that has Docker installed.  
Requirements  
Hubble can be set up in less than 30 minutes. You'll need a machine that has:  
16 GB of RAM  
4 CPU cores or vCPUs  
200 GB of free storage  
A public IP address with ports 2281 - 2283 exposed  
RPC endpoints for Ethereum and Optimism Mainnet. (use Alchemy, Infura, QuickNode, or run your own Ethereum & Optimism nodes)  
⚠️ NOTE: There's been a surge in Hubble users who violated Alchemy Terms of Service. As a result, Alchemy may block requests from new hubs. Paid subscriptions, alternative providers or your own nodes may be used instead. Please be aware that there are NO rewards or economic incentives for running a Hubble instance.  
See tutorials for instructions on how to set up cloud providers to run Hubble.  
Install via Script  
The install script is the simplest way to set up Hubble.  
bash  
curl -sSL https://download.thehubble.xyz/bootstrap.sh | bash  
If you're using macOS, you'll need to have docker installed and running.  
Hubble will be installed into ~/hubble and will be run via Docker in the background, along with Grafana and Prometheus for monitoring. If you have trouble with the script, try installing via docker.  
Upgrading Hubble  
The Hubble script creates a crontab entry and will automatically upgrade the hub every week. To upgrade manually, run:  
bash  
cd ~/hubble && ./hubble.sh upgrade  
Install via Docker  
Hubble can also be set up by running the docker image directly. To do this:  
Check out the hub-monorepo locally.  
From the root of this folder navigate to apps/hubble  
Generate your identity key pair with docker compose.  
bash  
docker compose run hubble yarn identity create  
Create a .env file in apps/hubble with your Ethereum RPC endpoints:  
bash  
# Set this to your L1 Mainnet ETH RPC URL  
ETH\_MAINNET\_RPC\_URL=your-ETH-mainnet-RPC-URL  
  
# Set this to your L2 Optimism Mainnet RPC URL  
OPTIMISM\_L2\_RPC\_URL=your-L2-optimism-RPC-URL  
  
# Set this to your Farcaster FID  
HUB\_OPERATOR\_FID=your-fid  
Follow the instructions to set connect to a network.  
Start Hubble with docker compose in detached mode:  
bash  
docker compose up hubble -d  
Docker compose will start a Hubble container that exposes ports for networking and writes data to .hub and .rocks directories. Hubble will now sync with the contracts and other hubble instances to download all messages on the network.  
To view the status of the sync and hubble, follow the logs  
bash  
docker compose logs -f hubble  
Follow the instructions in the monitoring instructions to set up Grafana and view your Hub's status in real-time.  
Upgrading Hubble  
Navigate to apps/hubble in hub-monorepo and run:  
bash  
git checkout main && git pull  
docker compose stop && docker compose up -d --force-recreate --pull always  
Installing from source  
Hubble can also be built and run directly from source without Docker.  
Installing Dependencies  
First, ensure that the following are installed globally on your machine:  
Node.js 18.7+  
Yarn  
Foundry  
Rust  
Build  
git clone https://github.com/farcasterxyz/hub-monorepo.git to clone the repo  
cd hub-monorepo to enter the directory  
yarn install to install dependencies  
yarn build to build Hubble and its dependencies  
yarn test to ensure that the test suite runs correctly  
Running Hubble  
To run the Hubble commands, go to the Hubble app (cd apps/hubble) and run the yarn commands.  
yarn identity create to create a ID  
Follow the instructions to set connect to a network  
yarn start --eth-mainnet-rpc-url <your ETH-mainnet-RPC-URL> --l2-rpc-url <your Optimism-L2-RPC-URL> --hub-operator-fid <your FID>  
Upgrading Hubble  
To upgrade hubble, find the latest release tag and checkout that version and build.  
bash  
git fetch --tags # to fetch the latest tags  
git checkout @farcaster/hubble@latest # Or use a specific version.  
yarn install && yarn build # in the root folder  
Running commands  
Check the logs to ensure your hub is running successfully:  
bash  
docker compose logs -f hubble  
Open up a shell inside the hubble container by running:  
bash  
docker compose exec hubble /bin/sh  
Troubleshooting  
If upgrading from a non-docker deployment, make sure .hub and .rocks directories are writable for all users.  
If upgrading from 1.3.3 or below, please set ETH\_MAINNET\_RPC\_URL=your-ETH-mainnet-RPC-URL (if using docker) or provide the --eth-mainnet-rpc-url flag (if not using docker)  
If you're changing your Hub from one network to another, you'll need to delete your database contents:  
bash  
docker compose stop && docker compose run --rm hubble yarn dbreset  
To pull the image yourself, you can run:  
bash  
# Get the latest image  
docker pull farcasterxyz/hubble:latest  
  
# Get a specific release (v1.4.0)  
docker pull farcasterxyz/hubble@v1.4.0  
To set the Hub operator FID  
If you are running via docker or the script, please set this in your .env file: HUB\_OPERATOR\_FID=your-fid  
If you are running via source yarn start --hub-operator-fid <your-fid>  
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Connect  
Subscribe  
Getting Started with Farcaster Frames on Base  
Base  
0xcB5A  
February 24th, 2024  
Mint  
Bring Base apps into onchain social with Farcaster  
Base believes in a future internet where a billion people participate onchain, joining a global economy enabled by a new internet. We love to see others also making this vision a reality, and we believe that what Farcaster is doing with Frames is empowering builders in a special way.  
What are Frames?  
Frames are mini apps embedded within social posts on Warpcast, the platform built on the Farcaster protocol. They let builders create bite-sized onchain experiences that are easily accessible without requiring users to leave their feed or deal with dapp connectors.  
Frames help make an onchain internet easier by bringing onchain apps directly into social posts. Since they've launched, we've seen firsthand how powerful it is to integrate onchain actions into a social feed, and we want to help everyone tap into this potential.  
For example, someone scrolling Warpcast might encounter a Frame that generates and mints an NFT when clicked, or a Frame that instantly allows you to create a shopping cart full of Girl Scout Cookies. The possibilities are endless.  
Because Frames add the app experience seamlessly into the post, all the power of onchain applications are embedded directly within the social flow. Frames allow people to see something interesting, click, and do something onchain.  
Why are Frames a Big Deal?  
Frames remove friction from adoption. Today, using an app often means clicking out of the site, connecting to your wallet, signing, and returning back to the app. Too many steps can turn people away.  
Frames fix that by meeting users where they already are: Social. When a Frame pops up mid-scroll, going onchain moves from intimidating to inevitable —and the growth of Frames since their launch shows that potential coming alive. Usage has skyrocketed as builders make cool mini-experiences while users enjoy using them seamlessly.  
Frames are also getting adopted outside of Warpcast, with XMTP announcing support for Frames within their messaging platform.  
How Base is Helping Builders Create Frames  
Since Frames launched, Base has run multiple grants rounds for Based Frames, sent pizza to Frames hackathons, created an open source collection of tools called Onchainkit to help you build a Frame, and started a telegram chat for builders.  
If you’re interested in building Frames, there are lots of tools that exist to get builders up and running quickly. Here are some of the best:  
Want to learn how to mint an NFT within a Frame? Follow this guide.  
Frames don’t have to be resource intensive. Here’s a Githup repo of a Frame in less than 100 lines, ready to be deployed to Vercel.  
Ready to really begin customizing a Frame even further? We’ve created an open source collection of tools called Onchainkit to help you build a Frame.  
Want to sell an item through a Frame? This Frames x Commerce guide will help you do just that.  
Want to connect with other builders? Join the Onchain Frames Telegram group to learn more and ask questions.  
If you want to go even deeper into Frames, check out this great list of resources compiled by David Furlong, and use this guide to learn about how NFTs can be minted with Warps.  
We can’t wait to see what people do with Frames next. Together, we’ll keep advancing what it means to bring people onchain.  
Subscribe to Base  
Receive the latest updates directly to your inbox.  
Subscribe  
Mint this entry as an NFT to add it to your collection.  
Mint  
Verification  
This entry has been permanently stored onchain and signed by its creator.  
ARWEAVE TRANSACTION  
14xHA8B59chkRF5…61viC5CLIc1hb0Q  
AUTHOR ADDRESS  
0xcB5AB6B84a66e5E…0AB344532dA4B82  
CONTENT DIGEST  
V396L2doSesY\_qo…cg1CQzWX05p3Ty4  
More from Base  
View All

URL: https://onchainkit.xyz/getting-started  
  
Skip to content  
Docs  
App Template  
Playground  
0.33.6  
Getting Started  
On this page  
Getting Started  
OnchainKit is your go-to solution for building beautiful onchain applications, regardless of your development experience.  
Quickstart  
The fastest way to get started is to fork the Onchain App Template.  
Set your environment variables in an .env file and start building.  
You can also checkout other templates such as funding flow or social profile.  
Walkthrough  
Install OnchainKit  
Install OnchainKit in your project.  
npm i @coinbase/onchainkit@latest  
If you're starting from scratch, we recommend using create-wagmi to scaffold your project.  
npm create wagmi@latest  
cd your-project-name  
npm i @coinbase/onchainkit@latest  
Get Your Public API Key  
Get your Public API Key from the Coinbase Developer Platform APIs.  
Create a .env file in your project's root directory.  
Add your Public API Key to the .env file:  
.env  
NEXT\_PUBLIC\_ONCHAINKIT\_API\_KEY=YOUR\_PUBLIC\_API\_KEY  
Add Providers  
In your providers.tsx file, add OnchainKitProvider as a child of WagmiProvider and QueryClientProvider.  
Inside the WagmiProvider, wrap your app in a TanStack Query React Context Provider, e.g. QueryClientProvider, and pass a new QueryClient instance to the client property.  
Additionally, add Base as a supported chain in the Wagmi configuration file wagmi.ts.  
providers.tsx  
wagmi.ts  
import { OnchainKitProvider } from '@coinbase/onchainkit';   
import { QueryClient, QueryClientProvider } from '@tanstack/react-query';  
import { base } from 'wagmi/chains';   
import { type ReactNode, useState } from 'react';  
import { type State, WagmiProvider } from 'wagmi';  
   
import { getConfig } from '@/wagmi';  
   
export function Providers(props: {  
 children: ReactNode;  
 initialState?: State;  
}) {  
 const [config] = useState(() => getConfig());  
 const [queryClient] = useState(() => new QueryClient());  
   
 return (  
 <WagmiProvider config={config} initialState={props.initialState}>  
 <QueryClientProvider client={queryClient}>  
 <OnchainKitProvider  
 apiKey={process.env.NEXT\_PUBLIC\_ONCHAINKIT\_API\_KEY}  
 chain={base}  
 >  
 {props.children}  
 </OnchainKitProvider>  
 </QueryClientProvider>  
 </WagmiProvider>  
 );  
}  
Add Styles  
OnchainKit components come with pre-configured styles. To include these styles in your project, add the following import statement at the top of this file:  
import '@coinbase/onchainkit/styles.css';  
For example, if you're using Next.js with the app router, your app/layout.tsx might look like this:  
layout.tsx  
import '@coinbase/onchainkit/styles.css'; // [!code ++]  
import './globals.css';  
import type { Metadata } from 'next';  
import { Inter } from 'next/font/google';  
import { headers } from 'next/headers';  
import { type ReactNode } from 'react';  
import { cookieToInitialState } from 'wagmi';  
   
import { getConfig } from '../wagmi';  
import { Providers } from './providers';  
   
const inter = Inter({ subsets: ['latin'] });  
   
export const metadata: Metadata = {  
 title: 'Create Wagmi',  
 description: 'Generated by create-wagmi',  
};  
   
export default function RootLayout(props: { children: ReactNode }) {  
 const initialState = cookieToInitialState(  
 getConfig(),  
 headers().get('cookie')  
 );  
 return (  
 <html lang="en">  
 <body className={inter.className}>  
 <Providers initialState={initialState}>{props.children}</Providers>  
 </body>  
 </html>  
 );  
}  
This ensures that the OnchainKit styles are loaded and applied to your entire application.  
For Tailwind CSS users, check out our Tailwind Integration Guide.  
Start building!  
Explore our ready-to-use onchain components:  
Identity - Show Basename, avatars, badges, and addresses.  
Wallet - Create or connect wallets with Connect Wallet.  
Transaction - Handle transactions using EOAs or Smart Wallets.  
Tokens - Search and display tokens with various components.  
Swap - Enable token swaps in your app.  
Frame - Build and test Farcaster frames.

URL: https://onchainkit.xyz/playground  
  
OnchainKit Playground  
Switch to Light Mode  
Component Mode  
Auto  
Auto  
Light  
Dark  
Component Theme  
None  
None  
Default  
Base  
Cyberpunk  
Hacker  
Component  
Select component  
Fund  
Identity  
Transaction  
TransactionDefault  
Swap  
SwapDefault  
Wallet  
WalletDefault  
Wallet Type  
Smart Wallet  
EOA  
Disconnect all  
Click a type to connect  
Chain  
Select chain  
Base Sepolia  
Base  
Paymaster URL (per-chain)  
Enabled  
Max Slippage (%)  
Github ↗OnchainKit ↗

URL: https://portal.cdp.coinbase.com/products/onchainkit  
  
We use cookies and similar technologies on our websites to enhance and tailor your experience, analyze our traffic, and for security and marketing. You can choose not to allow some type of cookies by clicking Manage Settings. For more information see our Cookie Policy.  
Manage settings  
Accept all

URL: https://www.smartwallet.dev/base-gasless-campaign/  
  
Skip to content  
Smart Wallet  
Demo  
SDK Playground  
Github  
Discord  
Base Gasless Campaign  
On this page  
Base Gasless Campaign  
Base is offering gas credits to help developers make the most of Smart Wallet's paymaster (sponsored transactions) features.  
Partner Tier Base Gas Credit Incentive Requirements Actions  
1 $15k  
- Support Coinbase Smart Wallet  
- Onboard to Coinbase Paymaster  
- Preferred placement in your UI (ie “Create Wallet” button)  
1. Bump your Coinbase SDK to add Coinbase Smart Wallet to your app, or bump to latest version of any supporting wallet library.  
2. Sign in / up for Coinbase Developer Platform (takes less than 2 minutes). No KYC needed - just email and phone.  
3. Check out the Paymaster product where the Base Mainnet Paymaster is enabled by default. Set and change your gas policy at any time.  
4. Complete this form and email basegascredits@coinbase.com that you’ve completed, along with evidence that you’ll have the “Create Wallet” button in your UI  
Credits will land within 1 week of completion  
2 $10k  
- Support Coinbase Smart Wallet  
- Onboard to Coinbase Paymaster  
1. Bump your Coinbase SDK to add Coinbase Smart Wallet to your app, or bump to latest version of any supporting wallet library.  
2. Sign in / up for Coinbase Developer Platform (takes less than 2 minutes). No KYC needed - just email and phone.  
3. Check out the Paymaster product where the Base Mainnet Paymaster is enabled by default. Set and change your gas policy at any time.  
4. Complete this form and email basegascredits@coinbase.com that you’ve completed.  
Credits will land within 1 week of completion  
Bonus $1k  
- Release demo  
Create a demo of your Coinbase Smart wallet integration, post on social (Warpcast and/or X) and tag Coinbase Wallet and/or Base  
Last updated: 7/20/24, 2:59 AM

URL: https://www.smartwallet.dev/quick-start  
  
Skip to content  
Smart Wallet  
Demo  
SDK Playground  
Github  
Discord  
Quick Start  
On this page  
Quick Start  
You can try Smart Wallet today on any supported chain! Checkout our guides  
Create a new app using Onchain App Template  
Create a new app using Wagmi Template  
Update an existing app  
Reach out to us in the #smart-wallet channel on Discord if you have any questions.  
Last updated: 8/8/24, 2:19 AM  
Why Smart Wallet?  
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FAQ  
Next  
Shift  
→

URL: https://docs.cdp.coinbase.com/paymaster/docs/paymaster-bundler-qs-headless  
  
  
We're hiring  
  
Get help  
Search docs  
⌘  
K  
  
  
Home  
Get started  
Learn  
CDP APIs  
Product APIs  
  
Paymaster  
INTRODUCTION  
Welcome  
Quickstart  
PAYMASTER  
Quickstart (Headless)  
ERC20 Paymaster  
API Reference  
Errors  
Troubleshooting  
Security  
SUPPORT  
Paymaster Discord  
  
Quickstart: Submit your first sponsored smart account transaction  
This Paymaster quickstart tutorial explains how to submit your first smart account transaction on Base Sepolia using Viem, with gas sponsorship from Coinbase Developer Platform. The example below sponsors an NFT mint, but can be updated to call your smart contract instead.  
Prerequisites  
node >= 14.0.0  
npm >= 6.0.0  
Getting an endpoint on Base Sepolia  
How to Get a Paymaster & Bundler endpoint on Base testnet (Sepolia) from CDP  
Create a new CDP account or sign in to your exsiting account.  
Navigate to Paymaster.  
The address of the NFT contract we are calling is 0x66519FCAee1Ed65bc9e0aCc25cCD900668D3eD49, add that to the contract allowlist and save the policy.  
Switch to Base testnet (Sepolia) in the top right of the configuration.  
Copy your endpoint to use later.  
Expand for images and click to enlarge  
  
  
Sending a transaction  
How to call the mint function of a Base Sepolia NFT contract (or contract of choice)  
1. Initialize your project  
In your terminal, create a directory called paymaster-tutorial and initialize a project using npm.  
mkdir paymaster-tutorial  
cd paymaster-tutorial  
npm init es6  
2. Download dependencies  
Install viem.  
npm install viem  
3. Create smart account using a private key  
The example below uses Coinbase smart wallet, but any smart account will work. a. Create a new private key with Foundry. b. Install Foundry: curl -L https://foundry.paradigm.xyz | bash c. Generate a new key pair: cast wallet new. d. Update your config.js file with the private key and create the account.  
//config.js  
import { createPublicClient, http } from 'viem'  
import { toCoinbaseSmartAccount } from 'viem/account-abstraction'  
import { baseSepolia } from 'viem/chains'  
import { privateKeyToAccount } from 'viem/accounts'  
  
// Your RPC url. Make sure you're using the right network (base vs base-sepolia)  
export const RPC\_URL = "https://api.developer.coinbase.com/rpc/v1/base-sepolia/<your-rpc-token>"  
  
export const client = createPublicClient({  
 chain: baseSepolia,  
 transport: http(RPC\_URL),  
})  
  
// Creates a Coinbase smart wallet using an EOA signer  
const owner = privateKeyToAccount('<your-private-key>')  
export const account = await toCoinbaseSmartAccount({  
 client,  
 owners: [owner]  
})   
4. Add your smart contract's ABI  
Create a file called example-app-abi.js to store our NFT contract's abi and address. You will have to update this to your smart contract's ABI.  
//example-app-abi.js  
export const abi = [  
 {  
 inputs: [  
 { internalType: "address", name: "recipient", type: "address" },  
 { internalType: "uint16", name: "item", type: "uint16" },  
 ],  
 name: "mintTo",  
 outputs: [{ internalType: "uint256", name: "", type: "uint256" }],  
 stateMutability: "payable",  
 type: "function",  
 },  
];  
5. Create the Bundler and Paymaster clients, submit transaction  
Create a new file called index.js  
//index.js  
import { http } from "viem";  
import { baseSepolia } from "viem/chains";  
import { createBundlerClient } from "viem/account-abstraction";  
import { account, client, RPC\_URL } from "./config.js";  
import { abi } from "./example-app-abi.js";  
  
// Logs your deterministic public address generated by your private key  
console.log(`Minting nft to ${account.address}`)  
  
// The bundler is a special node that gets your UserOperation on chain  
const bundlerClient = createBundlerClient({  
 account,  
 client,  
 transport: http(RPC\_URL),  
 chain: baseSepolia,  
});  
  
// The call for your app. You will have change this depending on your dapp's abi  
const nftContractAddress = "0x66519FCAee1Ed65bc9e0aCc25cCD900668D3eD49"  
const mintTo = {  
 abi: abi,  
 functionName: "mintTo",  
 to: nftContractAddress,  
 args: [account.address, 1],  
};  
const calls = [mintTo]  
  
// Pads the preVerificationGas (or any other gas limits you might want) to ensure your UserOperation lands onchain  
account.userOperation = {  
 estimateGas: async (userOperation) => {  
 const estimate = await bundlerClient.estimateUserOperationGas(userOperation);  
 // adjust preVerification upward   
 estimate.preVerificationGas = estimate.preVerificationGas \* 2n;  
 return estimate;  
 },  
};  
  
// Sign and send the UserOperation  
try {  
 const userOpHash = await bundlerClient.sendUserOperation({  
 account,  
 calls,  
 paymaster: true  
 });  
  
 const receipt = await bundlerClient.waitForUserOperationReceipt({  
 hash: userOpHash,  
 });  
  
 console.log("✅ Transaction successfully sponsored!");  
 console.log(`⛽ View sponsored UserOperation on blockscout: https://base-sepolia.blockscout.com/op/${receipt.userOpHash}`);  
 console.log(`🔍 View NFT mint on basescan: https://sepolia.basescan.org/address/${account.address}`);  
 process.exit()  
} catch (error) {  
 console.log("Error sending transaction: ", error);  
 process.exit(1)  
}  
In your terminal you can run this script using the below command from the correct directory  
node index.js  
Next steps  
Modify your allowlist and gas policy to ensure you only sponsor what you want!  
Other examples  
Coinbase Smart wallet examples can be found on our other quickstart guide or on smartwallet.dev.  
Examples for integrations with other common SDKs can be found here paymaster-bundler-examples.  
Troubleshooting  
If you run into any errors with this tutorial, please check out our troubleshooting guide.  
Last updated on Oct 2, 2024  
Was this page helpful?  
  
Yes  
  
No  
  
Need help? Ask in our Discord  
Prerequisites  
Getting an endpoint on Base Sepolia  
Sending a transaction  
1. Initialize your project  
2. Download dependencies  
3. Create smart account using a private key  
4. Add your smart contract's ABI  
5. Create the Bundler and Paymaster clients, submit transaction  
Next steps  
Other examples  
Troubleshooting  
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URL: https://coinbase.github.io/coinbase-wallet-sdk/  
  
Coinbase Wallet SDK  
Config  
Docs  
Reset  
Event Listeners  
accountsChanged  
chainChanged  
message  
connect  
disconnect  
SDK Configuration (Optional)  
Attribution  
Auto  
attribution.auto  
Data Suffix  
attribution.dataSuffix  
First 16 bytes of a unique string to identify your onchain activity. Update the text box below to have your data suffix applied  
Wallet Connection  
eth\_requestAccounts  
Submit  
eth\_accounts  
Submit

URL: https://coinbase.github.io/coinbase-wallet-sdk/  
  
Coinbase Wallet SDK  
Config  
Docs  
Reset  
Event Listeners  
accountsChanged  
chainChanged  
message  
connect  
disconnect  
SDK Configuration (Optional)  
Attribution  
Auto  
attribution.auto  
Data Suffix  
attribution.dataSuffix  
First 16 bytes of a unique string to identify your onchain activity. Update the text box below to have your data suffix applied  
Wallet Connection  
eth\_requestAccounts  
Submit  
eth\_accounts  
Submit

URL: https://base.mirror.xyz/ofu68-hGbQuf-\_oNsMNTVM373lByUVjcHDh5CF2KSNQ?collectors=true  
  
Subscribe  
Build your onchain identity with Basenames  
Base  
0xcB5A  
August 21st, 2024  
Mint  
TLDR: Basenames are the fastest way to start building on Base, making it easier to connect, collaborate, and contribute onchain. Get your Basename at base.org/names  
Close  
0 Collectors  
Mint

URL: https://base.mirror.xyz/fD9-3Bl\_3PLoUw7T8St6a6UpDIiPxJ-itzmME-b5pwA?collectors=true  
  
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Introducing the Onchain Content Network  
Base  
0xcB5A  
July 25th, 2024  
Mint  
TLDR: This Onchain Summer and beyond, we want to share what you’re building with millions of people across the world.  
Close  
0 Collectors  
Mint

URL: https://base.mirror.xyz/p\_A3ZxaBUEcpWwTf9\_Yg-jnlOro8m8Ypc8LEDnA\_ZRk?collectors=true  
  
Subscribe  
Announcing the Onchain Summer Buildathon Winners  
Base  
0xcB5A  
August 2nd, 2024  
Mint  
TLDR: The Onchain Summer Buildathon invited builders everywhere to unleash their creativity onchain. Over 1,250 final projects were submitted from 7,500+ builders around the world, making this the largest onchain hackathon. Now, it's time to spotlight those who rose to the challenge.  
Close  
0 Collectors  
Mint

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Subscribe  
Build your onchain identity with Basenames  
Base  
0xcB5A  
August 21st, 2024  
Mint  
TLDR: Basenames are the fastest way to start building on Base, making it easier to connect, collaborate, and contribute onchain. Get your Basename at base.org/names  
As more and more people come onchain, wallet addresses aren't cutting it as a way to connect with each other. These long strings of numbers and text add friction to transactions, make it difficult for builders to spot superfans of their apps, and turn finding the right collaborators into a needle-in-a-haystack hunt.  
Basenames are an onchain identity created by and for builders, solving some of the hardest problems that Base builders face every day: finding others to build with, getting access to the best resources, and enabling easy experiences for everyday people who use the apps they build. With Basenames, you can:  
Build your onchain identity: Use your Basename as your onchain identity in the Base ecosystem, customizing your profile with a bio, attested skills, and more.  
Show your growth as a builder: Continue to develop your profile as you participate in the onchain ecosystem, such as hackathons or meetups.  
Connect and collaborate: Easily find mentors and others to build with by seeing their profiles.  
Understand your audience: Gain insights into who's using your app when they connect with their Basename.  
Simplify transactions: Send and receive seamlessly with a readable and memorable Basename.  
Basenames are built on the decentralized, open-source ENS protocol, aligned with Base’s dedication to decentralized and open-source technologies.  
How to get your Basename  
To get started, claim your Basename at base.org/names.  
From there, you'll be able to build out a profile that showcases key onchain details like your Talent Builder Score, Coinbase Verifications, Buildathon participation, and more. Over time, we'll continue to integrate more onchain actions and accomplishments to your Basename.  
At launch, every name will start at a higher price and decrease exponentially over the first 36 hours, until normal pricing is reached. This mechanism is known as a Dutch auction, and is designed so that everyone has a fair chance to get a name they like, without being outcompeted by bots. For more information on this mechanism, check out ENS’ explainer on the temporary premium.  
After the Dutch auction period, Basenames will move to normal pricing, based on name length:  
Additionally, you can get a free Basename (5+ letters) for one year if you meet any of the below criteria (these discounts will be applied after the Dutch auction period is over):  
Onchain Summer Buildathon NFT holder  
base.eth NFT holder  
CB Verification holder  
CB1 subscriber with Verification (annual discount with active subscription)  
Onchain Summer Pass holder (Level 3+)  
cb.id owner  
Holder of a name from Base Name Service (and a big shout-out to the BNS team for their early efforts and contribution in this space)  
Check out the Basenames FAQ if you have any questions around the discounts.  
Pin a Frame to your Base profile: let others easily pay, nominate, subscribe to your content, and more  
In the near future, you’ll be able to pin personalized Frames to your Base profiles. Think of it as your onchain space where anyone can support you, pay you, mint your NFT, RSVP to your event, or buy your products – all directly from your Base profile.  
To help you get started, we’ll be curating a few suggestions in your profile:  
Pay me: Get paid by others using Paycaster  
Nominate me: Allow anyone to easily nominate you as a favorite builder on Build.top  
Buy from me: Let others buy products on your Slice.so store  
Subscribe to me: Drive subscriptions to your Hypersub  
Mint me: Make NFTs mintable from Highlight  
RSVP me - Get RSVPs to your event on Events.xyz  
You can also pin any Frame you’d like by adding the link directly, so long as the frame uses the Open Frames standard. We’ll continue expanding on this feature over time, adding more suggestions and support that allows you to express your fullest self through your Base profile. This feature will be available for all Base profiles soon.  
A new chapter for onchain identity on Base  
In the early days of Base, Base Name Service (BNS) was started as an independent project by a team of builders, including Itgel Ganbold (aka JackJack), Sabit Bazar, and Gabit Bazar, at ETHDenver 2023. With the launch of Basenames, the BNS team has made the thoughtful decision to wind down their service to ensure a unified name service and onchain identity experience for everyone on Base.  
We’re incredibly grateful to the BNS team for their support of Basenames, and for being early builders in the Base ecosystem. As a thank you, all BNS name holders are eligible for a special discount on Basenames when registering with the same wallet that contains your BNS name.  
A better onchain experience to bring the next billion onchain  
We can’t wait to see how you use Basenames to enhance your onchain journey and build a vibrant ecosystem on Base. If you’re a builder looking to integrate Basenames into your app, OnchainKit is the easiest way to get started. If you have ideas for new features or badges that you’d like to integrate with Basenames, we’d love to hear from you. And if you have any questions or need support with Basenames, please join the Base Discord.  
\*Disclaimer: Your use of the Basenames Interface is subject to the Base Terms of Service.  
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Subscribe  
Mint this entry as an NFT to add it to your collection.  
Mint  
Verification  
This entry has been permanently stored onchain and signed by its creator.  
ARWEAVE TRANSACTION  
zvF-SeG-GNgSwbs…JlRZkFS9Q9EFhts  
AUTHOR ADDRESS  
0xcB5AB6B84a66e5E…0AB344532dA4B82  
CONTENT DIGEST  
ofu68-hGbQuf-\_o…UVjcHDh5CF2KSNQ  
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URL: https://base.mirror.xyz/Odr64Blt1YLjR2U-5iXr84dg00Bttz2jnYwvaLGoTY0  
  
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Stage 1 Decentralization is Coming to Base  
Base  
0xcB5A  
July 23rd, 2024  
Mint  
TLDR: Fault proofs are now live on Base testnet, marking a step forward towards Stage 1 Decentralization.  
Base launched with a vision to decentralize over time, and decentralization and scalability are some of our top priorities.  
We’re now taking a step towards the next stage of decentralization: fault proofs are live on Base Sepolia testnet. Fault proofs enable anyone to make or challenge a proposal about the state of an L2 in a permissionless way. Today’s launch paves the way for bringing fault proofs securely to mainnet, and completing other milestones to reach Stage 1 Decentralization.  
Fault proofs: A foundational step towards decentralization  
Fault proofs improve decentralization in two major ways:  
Permissionless output proposals: In an L2 without fault proofs, only the centralized proposer (controlled by the chain operators) can create and submit claims about the state of the L2 to Ethereum. With fault proofs, anyone can make claims about an L2’s state instead of relying on a central party.  
Permissionless challenges to output proposals: If someone makes a faulty or fraudulent claim, anyone can challenge it.  
Fault proofs are a foundational step towards more community-driven accountability and control, which reduces the need to place trust in a centralized party for state verification. As such, they are a key piece in a rollup’s progression towards decentralization.  
Many rollups launch at Stage 0 (based on Vitalik’s definition) to balance security with decentralization, ensuring sufficient controls are in place as they grow and strengthen their infrastructure and ecosystems.  
Stage 0, or “full training wheels,” is a stage where all rollup transactions are posted on the L2, and the validity checks of these transactions are done by the chain’s operators. Therefore, state verification is centralized and dependent upon the chain operators.  
In Stage 1 decentralization, or “limited training wheels,” the chain state is verified with fault proofs but there is an override mechanism that can act in the event of a bug. The override mechanism requires consensus from both chain operators and a designated number of external stakeholders, which reduces the dependence on chain operators alone.  
In Stage 2 decentralization, changes to the L2 state only take place if a bug is uncovered, and any contract upgrades are subject to a 30 day delay (allowing those who disagree with an upgrade time to withdraw funds).  
We’re super excited about the momentum in the L2 ecosystem towards decentralization (with most recently OP Mainnet reaching Stage 1). The evolution to Stage 1 highlights the importance of fault proofs in enhancing the transparency, security, and decentralization of Base by allowing broader participation in state verification and dispute resolution.  
Getting to Stage 1 Decentralization  
Launching fault proofs on Sepolia testnet provides an environment to run additional testing to help bring fault proofs to mainnet securely.  
The other important step for Base to reach Stage 1 decentralization is to add the Security Council to our contract upgrade keys. This process further decentralizes the contract upgrade approval process we have today, extending it to a decentralized group of stakeholders beyond just Optimism and Base.  
It also aligns us more closely with the Superchain vision: once this step is complete, Base can only make contract upgrades with actions taken by the Optimism Security Council, which only takes actions approved by Optimism Governance. We believe that the Optimism Security Council has the right controls and incentive structure in place to support the growth of the entire Superchain ecosystem and to continue building towards the vision of scaling Ethereum.  
What’s next  
Base’s commitment to decentralization and stability is a top priority, and this is a major next step in our decentralization journey. We’re excited to continue building on the Superchain vision of a more decentralized, better internet that’s accessible to everyone.  
Subscribe to Base  
Receive the latest updates directly to your inbox.  
Subscribe  
Mint this entry as an NFT to add it to your collection.  
Mint  
Verification  
This entry has been permanently stored onchain and signed by its creator.  
ARWEAVE TRANSACTION  
5aSjPkSuI27z0lJ…m-uelXAzD8sAEHg  
AUTHOR ADDRESS  
0xcB5AB6B84a66e5E…0AB344532dA4B82  
CONTENT DIGEST  
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Summer never ends  
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September 10th, 2024  
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Close  
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Base is meeting builders around the world  
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0xcB5A  
September 23rd, 2024  
Mint  
TLDR: Base is for everyone — and this fall, we’re going global by meeting with builders around the world. We’ll start with a series of regional buildathons in Africa, India, Southeast Asia, and Latin America. The buildathons will run from September 27 to October 20, with 100 ETH in total prizes. Then in November, the Base team and Jesse Pollak will meet with builders in person in Nairobi, Bangalore, Bangkok, Singapore, and Manila, and virtually in Buenos Aires.  
Base’s mission is to increase innovation, creativity, and freedom, and we know we can't achieve this mission alone. This fall, we’re excited to meet with builders around the world.  
To kick things off, we’re launching Base Around the World: a series of regional buildathons in Africa, India, Southeast Asia, and Latin America. Following the buildathons, Jesse Pollak and the Base team will meet in person with builders in Nairobi, Bangalore, Bangkok, Singapore, and Manila, and virtually in Buenos Aires. Dates for each event will be announced soon.  
We’re focused on these regions for two main reasons:  
We’re seeing tremendous energy: Today, 74% of onchain builders live outside the US and these four regions are seeing some of the fastest growth in onchain adoption. In each, there are growing onchain use cases and talented builders who are solving hard problems. We want to connect, find opportunities to build together, and empower them with resources and support.  
We can use onchain to solve problems in local contexts: Every community has different challenges and contexts where onchain technology can be useful. Building a better internet starts by local communities solving local challenges, in ways just now becoming possible. That’s why we are taking a local focus for these buildathons. We want to zero in on the use cases that will bring people benefits in their everyday lives.  
Base Around the World: Africa, India, Latin America, and Southeast Asia  
The buildathons will run in parallel from September 27 to October 13. There is one simple prompt: Build an onchain app that solves a challenge in your community, or use existing onchain tools to create real-world impact in your community by bringing them onchain.  
If you’re looking for ideas, here are a few places to start:  
Help people come together, connect, and collaborate more easily — onchain or IRL  
Unlock access to social and educational resources  
Build tools that provide easier access to the onchain economy  
Create localized social or e-commerce apps  
Create platforms that empower creators to share their work (or, if you're a creator yourself, share your own)  
Make a blog, write a blog post, create a YouTube or TikTok video, or other content showing how you're making an impact and bringing your community onchain  
Registration is now open on Devfolio:  
Based Africa  
Based Southeast Asia  
Based LatAm  
Based India  
We’re excited to co-present the buildathons with local builders who are already driving impact in their communities.  
Based Africa  
Connecting builders from all corners of the continent and co-presented by Base Africa, Borderless Africa, Onboard and Yellow Card. Stay connected with builders across Africa on /base-africa on Warpcast and get support from Base Devel on #based-africa on the Base Discord.  
Based Southeast Asia  
Covering Thailand, Vietnam, Singapore, Laos, Cambodia, Myanmar, Indonesia, Brunei, Malaysia, and the Philippines, and co-presented by Base Southeast Asia, Yield Guild Games, Bitkub, and Coins.ph. Connect with builders across Southeast Asia on /base-sea on Base Warpcast, and join #based-sea on the Base Discord for dev support.  
Based LatAm  
Spanning Central and South America, from Mexico to Argentina, and co-presented by Base LatAm (powered by Odisea) and Buenbit. Meet builders across Latin America on /base-latam, and join #based-latam on Discord for buildathon questions and updates.  
Based India  
Focused on all of India and co-presented by Base India (powered by Farcaster Builders India), Levitate Labs, KGeN and Okto by CoinDCX. Get in touch with builders across India on /base-india, and join #based-india on Discord to get support building your product.  
100 ETH in prizes  
The Buildathon is open to anyone from these four regions. Each region will have a prize pool of 25 ETH (for a total of 100 ETH), with 2–8 winners selected from each region.  
Each winner gets:  
Rewards: Winners receive between 3.125 and 12.5 ETH from Base, including contributions from Talent Protocol.  
Marketing & Distribution: All winners will be highlighted at a Base meetup event in-region with Jesse Pollak, and featured on Base social channels (X, Warpcast).  
Network: Connections with some of the most prolific Base builders in your region, with direct access to the Base team.  
For the full set of rules, evaluation criteria, and to apply, visit the respective Devfolio pages for each Buildathon (Africa, Southeast Asia, LatAm, India).  
Meet onchain, online and IRL  
We can’t wait to meet builders in cities around the world this fall. If you can’t make it to any of these cities, you can apply to host a meetup to bring together builders in your community.  
Join a local community on Warpcast, where there are 46 language channels—discover yours on baseworld.org. We’re grateful to all the global community members, particularly Atomo, Nathanael, Harry, Cheryl, Jitz, Kyle, Fer, Carlos, Joao, and Juampi, for making translations of this blog available in their local languages. (Check out translations in Thai, Indonesian, Vietnamese, Malay, Filipino, Spanish, and Portuguese here.)  
Stay based. Keep building.  
All buildathon-related matters, including payouts and logistics, are managed independently by Devfolio, subject to applicable laws and regulations.  
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Introducing the Onchain Content Network  
Base  
0xcB5A  
July 25th, 2024  
Mint  
TLDR: This Onchain Summer and beyond, we want to share what you’re building with millions of people across the world.  
Submit your apps, games, art, music, and dreams to the Onchain Registry — a community-driven database of projects — for the chance to be featured across our new Onchain Content Network: Coinbase, Coinbase Wallet, Cymbal, Daylight, Floor, Forage, Layer3, Magic Eden, Mintify, OpenSea, Rainbow Wallet, and Roam.  
Together, our goal is to spotlight more of the builders and creators that are bringing the world onchain.  
Submit your project → Get distribution  
Creating a global economy that fosters innovation, creativity, and freedom cannot be done alone. That’s why the Onchain Content Network is crucial to our mission — bringing together a collection of the industry's best known and most loved platforms, generating more distribution for builders, and creating destinations for everyone to discover onchain innovation.  
From the largest NFT marketplaces to the most active questing platforms, these partners will feature selected projects from the Onchain Registry to the millions of people that visit them every day — with dedicated feeds that surface projects directly from onchain builders and creators.  
Let’s bring the world onchain together  
Whether you’re a builder, creator, or brand, we want to help you by distributing your project as far and wide as possible via the Onchain Content Network. Here’s what we’re looking for:  
Do something that’s never been done before: Create captivating onchain experiences. The more innovative, the better.  
Keep it simple: Bringing a billion people onchain requires onboarding that feels like a warm welcome. Experiences should be frictionless for new users.  
Make something accessible to everyone: Whether it’s a game, social app, piece of art, or commerce flow, Onchain Summer is for everyone. Keep it low-cost and easy for anyone to use.  
If you’re working on something that aligns with this vision, we invite you to share it with us. Submit your project to the Onchain Registry.  
And if you want to create a feed or incorporate Onchain Summer content into your existing platform, learn how to integrate the Onchain Registry API.  
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Introducing BaseCamp 001: onchain–offgrid  
Base  
0xcB5A  
Jesse Pollak  
May 30th, 2024  
Mint  
TLDR: Since day one, Base has rallied a community of builders working to create a decentralized future onchain, together. We’ve seen the impact of collective action to reshape the internet, and now with the 1-year anniversary of Base mainnet coming up this August, we’re bringing the community together in person with BaseCamp, our inaugural gathering of builders and creators building the next generation of the internet onchain.  
Close  
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etherscan.io  
Verifying you are human. This may take a few seconds.  
etherscan.io needs to review the security of your connection before proceeding.  
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An Ethereum L2, incubated by Coinbase and built on the open-source OP Stack. We have no plans to issue a new network token.  
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September 28th, 2024  
Mint  
Lessons learned from Base’s recent block building outage  
Base is committed to building in the open, including public retrospectives to share learnings when issues arise.  
Close  
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183 Collected  
Mint  
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Base  
September 10  
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165 Collected  
Mint  
Scaling Base: Looking towards the upcoming Pectra upgrade  
Base  
September 04  
One of Base’s 2024 roadmap initiatives is making onchain accessible and affordable for everyone. We’re focused on delivering fast, low-cost transactions on a secure, decentralized L2 to enable global participation in the onchain economy.  
Mint  
Build your onchain identity with Basenames  
Base  
August 21  
TLDR: Basenames are the fastest way to start building on Base, making it easier to connect, collaborate, and contribute onchain. Get your Basename at base.org/names  
568 Collected  
Mint  
Announcing the Onchain Summer Buildathon Winners  
Base  
August 02  
TLDR: The Onchain Summer Buildathon invited builders everywhere to unleash their creativity onchain. Over 1,250 final projects were submitted from 7,500+ builders around the world, making this the largest onchain hackathon. Now, it's time to spotlight those who rose to the challenge.  
237 Collected  
Mint  
Introducing the Onchain Content Network  
Base  
July 25  
TLDR: This Onchain Summer and beyond, we want to share what you’re building with millions of people across the world.  
246 Collected  
Mint  
Stage 1 Decentralization is Coming to Base  
Base  
July 23  
TLDR: Fault proofs are now live on Base testnet, marking a step forward towards Stage 1 Decentralization.  
593 Collected  
Mint  
Introducing BaseCamp 001: onchain–offgrid  
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Onchain Summer was a celebration and showcase of onchain music, art, food, gaming, and more — and after an incredible three months, the sun is setting and it has come to a close. Here’s a look back at some of the highlights that made it unforgettable this year.  
Mint the highlight reel:  
We built  
In June, we hosted the Onchain Summer Buildathon with Stripe, Shopify, Zora, Farcaster, Aerodrome, Fleek, Thirdweb, Nouns, Synthetix, and Bountycaster — resulting in the largest-ever onchain hackathon with:  
7,500+ participating builders from around the world  
1,250+ final projects submitted  
300+ ETH in prizes for builders  
$200k+ USDC in bounties via Bountycaster  
The Buildathon showcased how diverse the onchain economy is, with builders creating innovative projects across commerce, payments, gaming, creator, social, and more—including onchain checkout systems, interactive content feeds, social gaming experiences, new DeFi protocols, and more. For example, For The Children: July 2024 was awarded 2.22 ETH for bringing together 40+ artists and 30+ communities to sponsor and sign a collaborative digital artwork to raise money for children in the Dominican Republic.  
We created  
Throughout Onchain Summer, thousands of projects brought the world onchain through dead-simple, built-for-everyone onchain experiences spanning art, music, sports, gaming, beauty, food, loyalty, advocacy, in-person events, and so much more — with a variety of activations including:  
Atari brought arcade classics like Asteroids and Breakout onchain — distributing 40+ ETH in mint proceeds to the developers, artists, and builders behind each game.  
Doodles launched Doodlesᵗᵛ to give fans first access to music releases by Pharrell, limited-edition collectibles, and the premiere of ‘Dullsville and the Doodleverse’ — featuring artists like Lil Wayne, Lil Yachty, Coi Leray, Swae Lee, and Kyle Rich.  
Team Liquid launched a gaming tournament series with Community Gaming — distributing $20K USDC in rewards, paid directly onchain.  
Coinbase teamed up with renowned artist Daniel Arsham to celebrate 50 years of USA Basketball — with four digital collectibles representing the seasons of hard work required to build a championship team.  
Daylight debuted with an edition that gives holders perks and discounts — decentralizing the grid and bringing the energy industry onchain to improve access to cheap, reliable power for everyone.  
With thousands of participating projects across 3 months, Onchain Summer resulted in:  
$5M+ in mint revenue for builders, creators, and projects  
2M+ unique wallets participating in onchain experiences on Base, and 8x more than last Onchain Summer  
24M+ onchain assets minted  
We connected  
Last August, Base made its debut from an unlikely launchpad: a remote Starlink setup in the mountains of Idyllwild, California. We went live surrounded by the energy of onchain creators, visionaries, and the mountains.  
One year later, we came full circle by bringing BaseCamp to Idyllwild. This summer we gathered the Base community together to connect, look towards the onchain future, and work together to accelerate progress.  
Designed to ignite the builder spirit, BaseCamp consisted of vision-setting, lightning talks, live performances, interactive art-making, delicious food, and bonding activities — centered around the BaseCamp Summit with talks from guests including the Coinbase team, ecosystem builders, and a special virtual appearance from Vitalik Buterin, co-founder of Ethereum. In case you missed it, watch the Basecamp Summit to learn about Coinbase’s vision to bring the world onchain.  
We onboarded  
This summer, we brought local businesses onchain with Coffee Days and onboarded a dozen coffee shops around the world to onchain payments. As part of Onchain Summer, anyone could mint a coffee NFT to sponsor coffee at one of the participating shops. Then, customers at those shops could get a free cup of coffee by getting onchain via Coinbase Wallet. The first cup of coffee is free, and participating shops also offer $1 coffee all summer long to anyone paying with USDC on Base.  
Coffee Days brought onchain payments into the real world and showed customers and businesses how crypto can simplify and enhance everyday transactions. Paying for coffee onchain is fast and easy, and helps local businesses save money on fees. Sending USDC with Coinbase Wallet means instant settlement and no middlemen fees.  
What’s next: Onchain Daily  
The sun is setting for Onchain Summer, but we’re excited to continue to spotlight onchain builders and creators year-round through Onchain Daily — our daily showcase of onchain creativity and innovation in the Base ecosystem. Coinbase Wallet will continue being a destination for people to discover onchain innovation — with new projects surfaced each day and features on Base’s X and Warpcast channels.  
If you’re a creator, builder, or brand, we want to share what you’re building with millions of people across the world. Submit your apps, games, art, music, and dreams to the Onchain Registry for the chance to be featured across the Onchain Content Network. And if you want to create a feed or incorporate Onchain Daily content into your existing platform, learn how to integrate the Onchain Registry API.  
Now, let’s keep bringing the world onchain  
Onchain is better than it’s ever been before — with sub-cent transaction fees on Base, smart wallets to onboard people instantly, powerful social graphs that let you enter onchain apps with a fully-fledged identity, and so much more that makes it accessible for builders and users alike.  
So keep building, creating, connecting, and dreaming.  
Because summer never ends.  
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Back to where it all began  
Last August, Base made its mainnet debut from an unlikely launchpad: a remote Starlink setup in the mountains of Idyllwild, California during FWB FEST 2023. Why'd we choose to go live from there? We wanted to be surrounded by the energy of onchain creators, visionaries, and the mountains underneath our feet.  
Now, one year later, we're coming full circle by bringing BaseCamp to the same symbolic space. For two days in Idyllwild, we’re bringing the Base community together to connect, look towards our onchain future, and work together to accelerate progress.  
Building the onchain future, offgrid  
BaseCamp celebrates the projects and people at the forefront of building onchain. At its heart, this is a time for the Base community to connect, share ideas, and forge new collaborations that propel us toward a future where more people participate in a global, onchain economy.  
The BaseCamp experience is designed to ignite the builder spirit through vision-setting, lightning talks, live performances, interactive art-making, delicious food, and bonding activities.  
BaseCamp precedes FWB FEST 2024 and takes place from Wednesday July 31, to Thursday, August 1, including a welcome mixer and 1-day summit. Attendance at BaseCamp will include:  
A fully hosted experience, with complimentary lodging and dining. All we ask is that you cover your own travel to LAX or Palm Springs airport.  
A complimentary ticket to FWB FEST, so you can experience the broader onchain cultural context that Base was launched in.  
“Our deeply held belief at FWB is that we are in a reciprocal relationship with our internet: as we build it, it in turn shapes us. FWB FEST provides a container for Base founders and builders to not only spend critical time IRL, but to integrate culture into crypto infrastructure and consumer products. This positive feedback loop will only build a better internet and bring more people into the onchain arena. BASECAMP at FWB FEST is a validation of our thesis that culture drives adoption of emerging tech.”  
– Greg Bresnitz, CEO of FWB  
Want to be a part of BaseCamp?  
Because of the intimate setting, for its first year, BaseCamp will be by invitation or application only, with plans to broaden to more people in future years. Apply now to join us in Idyllwild this August. Note that spots are limited, and we will be prioritizing those who have previously received a Base grant or contributed to the Base ecosystem in a meaningful way. Please share what you’ve contributed and what you hope to get out of attending BaseCamp. Learn more and apply here.  
Even if you can’t make it, we invite you to build with us during Onchain Summer.  
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Scaling Base: Looking towards the upcoming Pectra upgrade  
Base  
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September 4th, 2024  
Mint  
One of Base’s 2024 roadmap initiatives is making onchain accessible and affordable for everyone. We’re focused on delivering fast, low-cost transactions on a secure, decentralized L2 to enable global participation in the onchain economy.  
We’re showcasing our progress in this new blog series, Scaling Base, where we’ll share updates and our plan as we bring a billion people onchain. In this installment, we’re sharing our approach to increase data availability capacity as we look towards the integration of PeerDAS in the upcoming Pectra upgrade.  
Scaling Base since launch  
Ethereum introduced EIP-4844 in March of this year—an upgrade that resulted in a 100x reduction in L2 gas fees by decoupling them from Ethereum Mainnet fees. This decoupling is what allows the combined network to scale: If a Layer 2 gets congested, it can act independently to increase its target capacity and bring transaction fees back down.  
As a result, we’ve scaled Base’s throughput by 4x since launching it a year ago, increasing the gas target per block from 2.5 Mgas/s to 10 Mgas/s to keep fees under one cent as activity grows. This has only been possible due to a huge amount of hard work from both the Base core team and the entire ecosystem of builders scaling the OP Stack, Ethereum clients, and the EVM.  
Where we go from here: 1 Mgas/s increase per week  
A few months ago, we set an ambitious goal: achieving 1 Ggas/s capacity for Base. We know that the journey to get there will require a lot of hard work and collaboration across many teams. Taking a step back, we realized that both for our internal team and for the broader ecosystem, the more predictability we can provide in our scaling journey, the easier it will be to plan and coordinate the necessary work.  
To provide this clarity, we’re shifting the way we think about scaling Base: we are going to commit to an ongoing rate of gas target increase, then do the work to ensure we can achieve that increase by scaling across all the key properties.  
To start, we are publicly committing to increasing the Base gas target by 1 Mgas/s each week, starting in late September. These increases will be subject to continued monitoring and testing—and if we need to change plans, we’ll communicate our key learnings and changes clearly. As we continue to scale the underlying infrastructure and build confidence, our goal is to then grow the rate of increase (e.g. 2 Mgas/s per week) to accelerate our progress towards 1 Ggas/s.  
If you’re building on Base, or helping scale the infrastructure powering Base, our hope is that you can use this guidance as a north star for coordinating and planning your efforts. And if you have feedback on our approach, we’d love to hear it!  
Pectra and PeerDAS  
As Base continues to scale, we’re looking towards the Ethereum community to integrate the necessary mainnet upgrades to increase L1 data availability—ensuring that L2s can continue to bring the next billion users onchain.  
For the past two years, we have collaborated with the Ethereum core developer community on this mission, beginning with EIP-4844. This upgrade—co-led by the Base team, OP Labs, and Ethereum Core Developers—significantly reduced costs on Base and other L2s by introducing blob space and providing a fixed amount of blob space for data availability.  
But with increasing demand, our projections show that the current limits will not meet Base’s requirements in the coming year. This is where PeerDAS comes in.  
PeerDAS (Peer Data Availability Sampling), a protocol change in the upcoming Pectra hard fork, addresses this by increasing total blob capacity without requiring every node to download every blob. It ensures Ethereum nodes can access all blob data while only downloading a fraction, significantly reducing network bandwidth requirements and unlocking substantial data availability capacity.  
The Base core team has been actively working towards preparing PeerDAS for inclusion in the Pectra upgrade:  
We’re collaborating with ethPandaOps to conduct network analysis on PeerDAS devnets, providing essential data to inform recommendations.  
We’re contributing to the implementation within Prysm which is being used to drive the initial analyses.  
PeerDAS blob capacity  
Alongside these contributions, we’re advocating for a significant increase in blob capacity alongside activation of PeerDAS. This is crucial for scaling efforts, allowing more data to be processed without overloading individual nodes.  
Any bandwidth-affecting protocol change should naturally face developer scrutiny, given the risks of introducing network instability and networking related denial-of-service attacks. Due to the complexity of PeerDAS, some have advocated for its inclusion while keeping the blob capacity unchanged at first. This approach would push any increase in data availability capacity to a subsequent upgrade, which could be many months (if not a year) after Pectra activates in 2025.  
While the final details of PeerDAS are still being discussed, we believe its architecture allows for existing bandwidth-limited stakers to safely participate. Additionally, EIP-7251, also planned for Pectra, should reduce attestation and sync\_committee p2p traffic, the main consumer of node bandwidth.  
Imposing a higher minimum price for blob data  
One argument against a capacity increase is that L1 nodes need to be fairly compensated for the compute, storage and bandwidth required for providing data availability. When demand for blobs is below target, prices fall to the bare minimum: 1 wei per byte of blob data. Demand exceeding target capacity allows for a market-based pricing mechanism to kick in, resulting in better recovery of the costs incurred on L1 nodes.  
We think that addressing this problem by constraining DA capacity is a step in the wrong direction; instead, we suggest a different approach, ensuring a healthy market for blob space so that the network is fairly compensated while keeping it unconstrained. Some potential solutions are to raise minimum blob fees or implement a different fee mechanism for blob data.  
Increasing the target to achieve positive-sum scaling  
Post EIP-4844, L2 transaction fees will remain decoupled from Ethereum Mainnet fees as long as the average demand for blobs stays below the target (currently 3 per block).  
So far, we've only seen a few instances where blob demand has exceeded this target for extended periods. Some may view below-target blob demand as a reason to proceed conservatively. However, with Base’s scaling plan and L2 demand growing, we expect the demand to consistently meet or exceed capacity within the coming months. Exceeding the target would end the decoupling of transaction fees—disallowing L2s to independently increase capacity and maintain low fees.  
When data availability hits target capacity, scaling becomes a zero-sum game—one L2's increased throughput would negatively impact another. We aim to create a positive sum scaling environment. Implementing PeerDAS and increasing the blob count are crucial steps to achieving this goal.  
L2 protocol improvements  
L1 data availability can be indirectly scaled through L2 protocol improvements that reduce the required data. The OP Stack already features innovations like span batch data layout and Brotli compression from the Fjord upgrade, which improved Base’s data compression ratio by 25%. Future enhancements include stateful compression and aggregatable signatures for L2 transactions and UserOps. These improvements, while helpful, are the icing on the cake. Ultimately, the data availability capacity of mainnet must grow in order to support a healthy scaling roadmap.  
Looking forward  
As Ethereum continues to grow, any increase in data availability capacity will eventually be absorbed by organic demand. While a market-based pricing regime for data availability is inevitable, maintaining decoupled fees for as long as possible will allow Ethereum to scale more rapidly to its full potential.  
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Base Mainnet 09/21/24 Incident Postmortem  
Base  
0xcB5A  
September 28th, 2024  
Mint  
Lessons learned from Base’s recent block building outage  
Base is committed to building in the open, including public retrospectives to share learnings when issues arise.  
On 09/21/2024 at 15:14 UTC, Base Mainnet experienced a 17 minute block building outage. The integrity of the chain was not affected, all funds on Base were safe, and block production resumed after we mitigated the incident. This retrospective dives into the root cause, the impact, how we mitigated, and what we plan to improve moving forward.  
The root cause of the block building outage was a misconfiguration on our sequencer cluster. When the current block producer became unhealthy, it was unable to successfully start block building on another instance. The incident was mitigated by manually starting block production on a correctly configured instance.  
Graph displaying the stall in the progression of the chain, which is measured by unsafe head block number  
Impact  
Block Production  
No blocks were produced for 17 minutes, beginning at 15:14 UTC. Blocks 20071146 to 20071691 contain no user transactions, as they were created by the protocol after sequencing resumed.  
Transaction Processing  
Transactions are submitted to Base through the `eth\_sendRawTransaction` RPC call, which places them in the mempool. During the incident, the mempool instances continued to function correctly. However, fewer transactions were submitted in that time frame, which can be seen in the graph below.  
There was an immediate drop in both successful and failed `eth\_sendRawTransaction` requests after the outage started, followed by a slow rise in failed requests. Our current hypothesis is that less transactions were submitted because applications were impaired by the halt in block production.  
Graph of RPC request status for eth\_sendRawTransaction calls to our routing services  
Once block production resumed, many of the transactions that were submitted during the incident were included in the blocks immediately following 20071691.  
Root Cause  
Background  
Over the past year, Base has designed and built op-conductor to improve the reliability of block production. Our goal with building op-conductor is to increase the overall availability of the system, with a target of achieving 99.99% availability. Prior to op-conductor, any failure of the sequencer would result in an outage. op-conductor enables us to operate multiple sequencers and upon a failure start block production on a healthy instance.  
Diagram of before and after migrating to the op-conductor enabled sequencer cluster  
On 9/20/2024, we migrated block production from the single sequencer to the op-conductor cluster. However the op-conductor instances were in a misconfigured state, where op-node was not submitting new unsafe block payloads to op-conductor.  
Trigger  
On 9/21/2024 at 15:14 UTC, the currently active sequencer experienced delays in block production. op-conductor correctly detected the issue and began the process to transfer leadership to another instance. As part of the leadership transfer, op-conductor stopped the local op-node from building blocks.  
Due to the misconfiguration, the new block producer was unable to start production as the start operation requires the unsafe payload from op-conductor, which the previous leader did not write. This caused the cluster to enter a state in which no instance was able to become an active block producer.  
Below is a log snippet containing one sample of a failed leadership transfer:  
Mitigation  
The incident was mitigated by reverting to the single sequencer topology while the op-conductor cluster configuration was fixed.  
What we’re fixing going forward  
We implemented a bidirectional handshake between op-node and op-conductor at startup to ensure proper communication configuration.  
Improve our internal configuration management process to prevent and detect misconfigurations.  
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Announcing the Onchain Summer Buildathon Winners  
Base  
0xcB5A  
August 2nd, 2024  
Mint  
TLDR: The Onchain Summer Buildathon invited builders everywhere to unleash their creativity onchain. Over 1,250 final projects were submitted from 7,500+ builders around the world, making this the largest onchain hackathon. Now, it's time to spotlight those who rose to the challenge.  
To kickoff Onchain Summer, Base and leading builders sponsored a global online hackathon, dedicated to bringing the world onchain. From May 31st - June 30th, builders around the world worked on projects across payments, commerce, creator tools, social platforms, gaming, trading, discovery, and URL <> IRL use cases.  
Over 1,250+ projects were submitted from 7,500+ builders around the world, making this the biggest onchain hackathon ever.  
We were so blown away by the volume and creativity of the projects that we expanded the prize pool from 200 ETH to 250 ETH to recognize and reward more builders who built exceptional products on Base.  
Announcing the winners  
The winners were evaluated based on the following criteria:  
Technicality: The product functions as intended  
Creativity: It delivers new ideas, or better solutions to existing problems  
Utility: It is usable in the real world by different groups of people  
Aesthetics: Has good UI/UX quality, with intuitive, easy-to-navigate integrations  
Future Growth: Delivers outsize impact and achievement during the hackathon time frame and beyond  
Based on this criteria, we’re excited to announce the track winners!  
Payments  
BasedCoffee, a Farcaster-native app for crowdfunding and social initiatives  
Slice, for new features enabling a faster and more seamless checkout  
Base Token Store, for making it easy to buy any token with a comfortable UX experience  
buyMeACoffee, for making it easier for content creators to receive tips and donations  
SwiftpayFinance for a simple onchain payroll  
Payflow, for making onchain social payments easy  
Zap by Paycrest, for speedy crypto to fiat payments  
TokeMail for creating a simple and fun onboarding experience  
HALP for a transparent, no-code crowdfunding platform  
Bando, for creating a fast, direct bridge between Base and the traditional banking system in Mexico  
sub2 protocol, for an onchain subscription management platform  
Unplugged  
Ether Goals, for an onchain accountability tool  
Shredding Sassy x SHAKA Skatejam, for bringing action sports onchain with interactive rewards  
step.fun, for a fun and competitive way to earn USDC  
ATX Onchain Summer Extravaganza, for an event bridging onchain <> IRL in Austin  
Web3 to High School leavers, for their education initiative for high school students  
SummerOnboarding, for helping newcomers navigate the buildathon and Onchain Summer  
Truworld: Real World Gamification, by making real-world experiences more rewarding through onchain rewards  
Onchain Summer Anthem, for creating a collective moment, inspiring, and educating with a song  
For The Children: July 2024, for benefiting children in the Dominican Republic through onchain art and culture  
ScanQuest, for an IRL <> onchain treasure hunt  
The Ossuary, for enabling tattoo artists to bring their work onchain  
Rituals, for enabling creators and influencers to create unique moments for their fans, and bring them onchain  
Charity Connect, for creating a more interactive and transparent donations experience  
Cookie Jar, for creating an onchain “petty cash” drawer for trusted communities  
Farcaster Writing Hackathon, for an IRL <> onchain writing hackathon that brought together writers and thinkers in the Farcaster ecosystem  
Run Money, for an onchain motivation solution for fitness and financial discipline  
NounShards, for the ability to fractionalize Nouns for greater community engagement  
BeeNouns, for raising awareness around the importance of bees for the ecosystem, onchain  
Lusaka Unplugged, for an IRL meetup in Zambia uniting artists and developers  
Pool, for making it easy for friends to create and manage a shared pool of funds  
Memes Ambassador, for evangelizing Onchain Summer through memes  
Commerce  
popshop for an easy platform that lets anyone create an onchain experience  
ReferWare for a social media campaign protocol that promotes more transparency and streamlines campaign management  
FramePay for a simple Farcaster frame experience that lets users mint a frame and redeem a physical good  
Far-Reach for connecting Shopify merchants with the Farcaster ecosystem  
Coingift for an easy way to gift memecoins on Base  
Nouns Supplements for an onchain supplements company that promotes transparency and quality assurance  
Onchained Tattoo Convention for an onchain tattoo competition designed to onboard the tattoo industry onchain  
Hallos for a simple and user-friendly ticketing platform  
Warpshop: Onchain Commerce Tools to simplify onchain commerce for creators and businesses  
Creator  
Feed for an interactive onchain content platform  
anglez.xyz for generative onchain art that lets users customize based on their tastes  
Onchain-Experiments\_V1 for a platform that lets artists share and mint their work, directly onchain  
view.art for an innovative way to display generative art on a browser  
Goodbye: A New Era in Digital Expression for bringing the experience of letting go onchain  
Mint to mixtapes for letting users create playlists onchain  
Ethereum Image Service for letting creators of public goods artworks monetize their work  
NFTarot for bringing tarot reading onchain  
Terrene Hiraeth for a unique minting experience that generates art from onchain transactions  
Gaming  
BlueSocial a game that makes it easy to meet new people  
BrainWorms for a unique onchain generative game  
GamerBoom for an onchain gaming experience designed to drive mainstream adoption  
Tank Defender for a game that alleviates the complexity of onchain  
Wonder Champ for a social and competitive gaming experience  
Pixotchi for letting anyone grow plants onchain with minimal friction  
Gamster.io for an engaging adventure game onchain  
Bumpies for an engaging pet simulator game  
Songbirdz for an onchain bird-watching game  
Tavern for letting users create no-code games onchain  
Nouns' Wallet Poker for an onchain-native poker app for NounsDAO  
Discovery  
CodeCred for an onchain way to evaluate open-source contributions  
DeQuiz3 for a way to create practical onchain quizzes using decentralized and AI technhologies  
GIVE onchain! a social oracle for onchain skill attestations  
OCS-Discoveries to promote app discovery in the Base ecosystem  
ThirdPersona for a seamless onchain analytics tool  
Welcome onchain for a discovery and research platform  
Bonadocs for simplifying integrations with Base  
Social  
Farview.id for a customizable page that lets users share more about their onchain activity on Base and Farcaster  
Intelligent for a growth platform for brands and creators on Farcaster  
Lunchbreak for providing a creative onchain solution for cluttered inboxes  
Settlebeef an onchain platform for resolving disagreements  
We.Rich for simplifying asset creation and distribution  
Spotligh for helping creators allocate and prioritize their attention  
Tamaverse an app where people can grow their NFT pets by engaging on Farcaster  
FrenMint for letting users maximize their experience on friend.tech  
Trading  
Drake Exchange for making advanced perpetuals easy  
Magnify Cash for a decentralized credit market that makes permissionless lending and borrowing easier  
WAGMI for a memecoin marketplace for traders and creators  
Speedball for a platform designed to democratize the token presale process  
JOJO Exchange for an innovative arbitrage platform  
Burve an automated market maker that aims to enable simplilfied onboarding, liquidity, and an innovative bonding curve model  
Assetscooper for a platform that low-value assets and swap for a more valuable asset in a single transaction  
And because we were so blown away by the quality and the volume of projects submitted, we’re allocating 20 ETH to hundreds of builders who submitted projects.  
Additional rewards: Making onchain accessible for everyone  
In addition to the track rewards, we also had 40 ETH in rewards for successful integrations of Smart Wallet, OnchainKit, Verifications, and Paymaster to enable incredibly easy user experiences onchain. These integrations were evaluated based on:  
Technicality of integration: Functioned as anticipated  
Originality of integration: Demonstrated an original use case  
Aesthetics of integration: Simplified UX for anyone using the app  
We’re super excited to see teams use these tools to design better experiences for everyday people and excited to see what’s next.  
Smart Wallet integration  
popshop\*  
Truworld: Real World Gamification by Fog-of-World  
far\_terminal  
Veew.ai  
Memeswap  
Cat Town  
MESA  
ThirdPersona  
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popshop\*  
Target Onchain 🎯  
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CultureCo  
Ethereum Image Service  
Composable Commerce  
AdToken  
Paymaster integration  
Base Token Store  
AdGraph  
Deva Wallet  
Truworld: Real World Gamification by Fog-of-World  
Cat Town  
We.Rich  
Crate Protocol + Gatefold Music  
Framify: Get Shopify To Farcaster  
dLogos  
Symphony  
Shout-outs  
We’re grateful to our production partner Devfolio for helping steward the hackathon, and our track sponsors Stripe, Shopify, Farcaster, Zora, Fleek, Nouns, Thirdweb, Aerodrome, and Synthetix for the mentorship, commitment, and bounties they provided.  
Bountycaster helped bring even more creativity and use cases onchain by running a decentralized, community-sponsored track alongside the Buildathon.  
Above all, we’re grateful for everyone who built remarkable onchain experiences for the world.  
We can’t wait to continue building with all of you.  
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Linked Third Party Websites or Services. When you use third-party services (like when you connect your self-custodial wallet to decentralized applications on the Base network) or websites that are linked through our Services, the providers of those services or products may receive information about you (like your wallet address) from Base, you, or others. Please note that when you use third-party services or connect to third-party websites which are not governed by this Privacy Policy, their own terms and privacy policies will govern your use of those services and products.  
Professional advisors, industry partners, authorities and regulators. We share your information described in Section 1. What Information We Collect with our advisors, regulators, tax authorities, law enforcement, government agencies, and industry partners when needed to:  
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To facilitate our global operations, we and our third-party partners and service providers may transfer and store throughout the world, including in the United States.  
If you reside in the EEA, Switzerland, or the United Kingdom, we rely upon a variety of legal mechanisms to facilitate these transfers of your personal information (collectively, “European Personal Data”). \*\*\*\*  
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We also rely on adequacy decisions from the European Commission where available and exemptions provided for under data protection law (e.g. Article 49 GDPR).  
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About Base  
Base is a secure, low-cost, builder-friendly Ethereum L2 built to bring the next billion users onchain.  
Base is incubated within Coinbase and plans to progressively decentralize in the years ahead. We believe that decentralization is critical to creating an open, global cryptoeconomy that is accessible to everyone.  
Ethereum L2  
Base is built as an Ethereum L2, with the security, stability, and scalability you need to power your onchain apps. Confidently deploy any EVM codebase and onramp your users and assets from Ethereum L1, Coinbase, and other interoperable chains.  
Big features, small fees  
Get the EVM environment at a fraction of the cost. Get early access to Ethereum features like Account Abstraction (ERC4337), simple developer APIs for gasless transactions, and smart contract wallets.  
Open source  
Base is built on the MIT-licensed OP Stack, in collaboration with Optimism. We're joining as the second Core Dev team working on the OP Stack to ensure it’s a public good available to everyone.  
Scaled by Coinbase  
Base is an easy way for decentralized apps to leverage Coinbase's products and distribution. Seamless Coinbase integrations, easy fiat onramps, and access to millions of verified users in the Coinbase ecosystem.  
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Development With Foundry  
Smart Contract Development  
Token Development  
Hardhat Tools and Testing  
Onchain App Development (Frontend)  
Exercise Contracts  
Learn to Build Smart Contracts and Onchain Apps  
Introduction  
Welcome to Base Learn, your guide to learning smart contract development. Base Learn's curriculum has been expertly crafted to equip you with the skills and knowledge needed to build and deploy smart contracts on Base, or any EVM-compatible chain, including Ethereum, Optimism, and many more. Plus, you'll be eligible to earn NFTs as you complete each module, showcasing your mastery of the material.  
Whether you're a curious novice or a seasoned pro looking to stay ahead of the game, our dynamic lessons cater to all levels of experience. You can start with the basics and work your way up, or dive straight into the more advanced concepts and push your limits to new heights.  
Begin your journey today!  
What you can learn in this program  
Base Learn covers the following topics. If you're looking for quickstarts, or deeper guides on advanced topics, check out our Base Builder Tutorials!  
Ethereum Applications  
Describe the origin and goals of the Ethereum blockchain  
List common types of applications that can be developed with the Ethereum blockchain  
Compare and contrast Web2 vs. Web3 development  
Compare and contrast the concept of "ownership" in Web2 vs. Web3  
Gas Use in Ethereum Transactions  
Explain what gas is in Ethereum  
Explain why gas is necessary in Ethereum  
Understand how gas works in Ethereum transactions  
EVM Diagram  
Diagram the EVM  
Setup and Overview  
Install and create a new Hardhat project with Typescript support  
Describe the organization and folder structure of a Hardhat project  
List the use and properties of hardhat.config.ts  
Testing with Hardhat and Typechain  
Set up TypeChain to enable testing  
Write unit tests for smart contracts using Mocha, Chai, and the Hardhat Toolkit  
Set up multiple signers and call smart contract functions with different signers  
Etherscan  
List some of the features of Etherscan  
Read data from the Bored Apes Yacht Club contract on Etherscan  
Write data to a contract using Etherscan.  
Deploying Smart Contracts  
Deploy a smart contract to the Base Sepolia Testnet with hardhat-deploy  
Deploy a smart contract to the Sepolia Testnet with hardhat-deploy  
Use BaseScan to view a deployed smart contract  
Verifying Smart Contracts  
Verify a deployed smart contract on Etherscan  
Connect a wallet to a contract in Etherscan  
Use etherscan to interact with your own deployed contract  
Hardhat Forking  
Use Hardhat Network to create a local fork of mainnet and deploy a contract to it  
Utilize Hardhat forking features to configure the fork for several use cases  
'Introduction to Remix'  
List the features, pros, and cons of using Remix as an IDE  
Deploy and test the Storage.sol demo contract in Remix  
Deployment in Remix  
Deploy and test the Storage.sol demo contract in Remix  
Hello World  
Construct a simple "Hello World" contract  
List the major differences between data types in Solidity as compared to other languages  
Select the appropriate visibility for a function  
Basic Types  
Categorize basic data types  
List the major differences between data types in Solidity as compared to other languages  
Compare and contrast signed and unsigned integers  
Test Networks  
Describe the uses and properties of the Base testnet  
Compare and contrast Ropsten, Rinkeby, Goerli, and Sepolia  
Deployment to Base Sepolia  
Deploy a contract to the Base Sepolia testnet and interact with it in [BaseScan]  
Contract Verification  
Verify a contract on the Base Sepolia testnet and interact with it in [BaseScan]  
Control Structures  
Control code flow with if, else, while, and for  
List the unique constraints for control flow in Solidity  
Utilize require to write a function that can only be used when a variable is set to true  
Write a revert statement to abort execution of a function in a specific state  
Utilize error to control flow more efficiently than with require  
Storing Data  
Use the constructor to initialize a variable  
Access the data in a public variable with the automatically generated getter  
Order variable declarations to use storage efficiently  
How Storage Works  
Diagram how a contract's data is stored on the blockchain (Contract -> Blockchain)  
Order variable declarations to use storage efficiently  
Diagram how variables in a contract are stored (Variable -> Contract)  
Arrays  
Describe the difference between storage, memory, and calldata arrays  
Filtering an Array  
Write a function that can return a filtered subset of an array  
Mappings  
Construct a Map (dictionary) data type  
Recall that assignment of the Map data type is not as flexible as for other data types/in other languages  
Restrict function calls with the msg.sender global variable  
Recall that there is no collision protection in the EVM and why this is (probably) ok  
Function Visibility and State Mutability  
Categorize functions as public, private, internal, or external based on their usage  
Describe how pure and view functions are different than functions that modify storage  
Function Modifiers  
Use modifiers to efficiently add functionality to multiple functions  
Structs  
Construct a struct (user-defined type) that contains several different data types  
Declare members of the struct to maximize storage efficiency  
Describe constraints related to the assignment of structs depending on the types they contain  
Inheritance  
Write a smart contract that inherits from another contract  
Describe the impact inheritance has on the byte code size limit  
Multiple Inheritance  
Write a smart contract that inherits from multiple contracts  
Abstract Contracts  
Use the virtual, override, and abstract keywords to create and use an abstract contract  
Imports  
Import and use code from another file  
Utilize OpenZeppelin contracts within Remix  
Error Triage  
Debug common solidity errors including transaction reverted, out of gas, stack overflow, value overflow/underflow, index out of range, etc.  
The New Keyword  
Write a contract that creates a new contract with the new keyword  
'Contract to Contract Interaction'  
Use interfaces to allow a smart contract to call functions in another smart contract  
Use the call() function to interact with another contract without using an interface  
Events  
Write and trigger an event  
List common uses of events  
Understand events vs. smart contract storage  
Address and Payable in Solidity  
Differentiate between address and address payable types in Solidity  
Determine when to use each type appropriately in contract development  
Employ address payable to send Ether and interact with payable functions  
Minimal Token  
Construct a minimal token and deploy to testnet  
Identify the properties that make a token a token  
The ERC-20 Token Standard  
Analyze the anatomy of an ERC-20 token  
Review the formal specification for ERC-20  
ERC-20 Implementation  
Describe OpenZepplin  
Import the OpenZepplin ERC-20 implementation  
Describe the difference between the ERC-20 standard and OpenZeppelin's ERC20.sol  
Build and deploy an ERC-20 compliant token  
The ERC-721 Token Standard  
Analyze the anatomy of an ERC-721 token  
Compare and contrast the technical specifications of ERC-20 and ERC-721  
Review the formal specification for ERC-721  
ERC-721 Token  
Analyze the anatomy of an ERC-721 token  
Compare and contrast the technical specifications of ERC-20 and ERC-721  
Review the formal specification for ERC-721  
Build and deploy an ERC-721 compliant token  
Use an ERC-721 token to control ownership of another data structure  
Wallet Connectors  
Identify the role of a wallet aggregator in an onchain app  
Debate the pros and cons of using a template  
Scaffold a new onchain app with RainbowKit  
Support users of EOAs and the Coinbase Smart Wallet with the same app  
Building an Onchain App  
Identify the role of a wallet aggregator in an onchain app  
Debate the pros and cons of using a template  
Add a wallet connection to a standard template app  
The useAccount Hook  
Implement the `useAccount`` hook to show the user's address, connection state, network, and balance  
Implement an isMounted hook to prevent hydration errors  
The useReadContract Hook  
Implement wagmi's useReadContract hook to fetch data from a smart contract  
Convert data fetched from a smart contract to information displayed to the user  
Identify the caveats of reading data from automatically-generated getters  
Configuring useReadContract  
Use useBlockNumber and the queryClient to automatically fetch updates from the blockchain  
Describe the costs of using the above, and methods to reduce those costs  
Configure arguments to be passed with a call to a pure or view smart contract function  
Call an instance of useReadContract on demand  
Utilize isLoading and isFetching to improve user experience  
The useWriteContract hook  
Implement wagmi's useWriteContract hook to send transactions to a smart contract  
Configure the options in useWriteContract  
Display the execution, success, or failure of a function with button state changes, and data display  
The useSimulateContract hook  
Implement wagmi's useSimulateContract and useWriteContract to send transactions to a smart contract  
Configure the options in useSimulateContract and useWriteContract  
Call a smart contract function on-demand using the write function from useWriteContract, with arguments and a value  
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