

# Ethereum

## 世界コンピューター

### その社会応用実験例

Lifetime Mail Account Services / LiTMAS 合同会社 関 一典

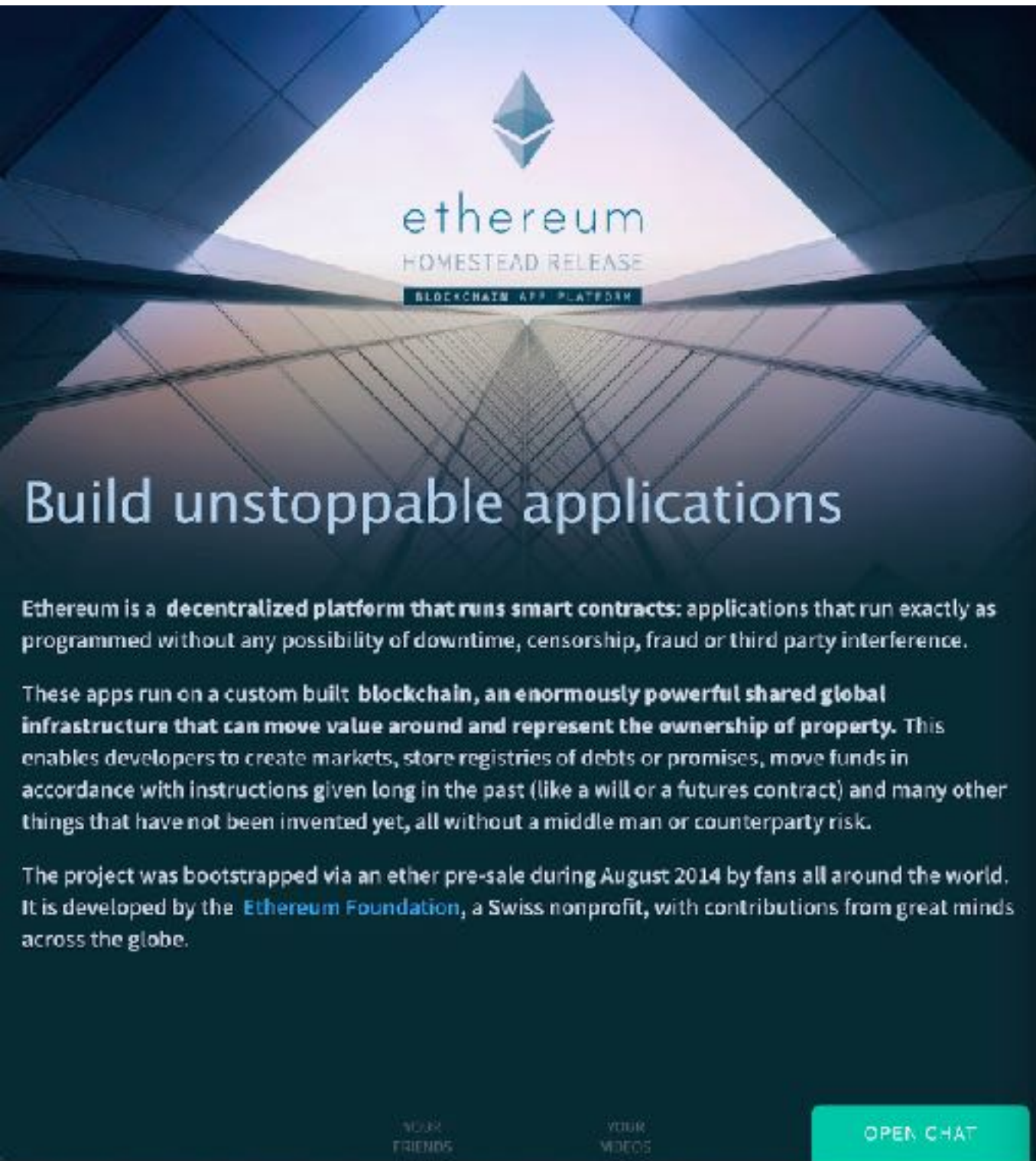
**“Blockchain technology will have a dramatic impact on business and society”**

*Don Tapscott*

**“仮想通貨の技術が未来の主役になる”**

野口悠紀雄

# ethereum.org (traffic)



The banner features the Ethereum logo at the top center, with the text "ethereum" in a large, light blue font, "HOMESTEAD RELEASE" in a smaller font below it, and "BLOCKCHAIN APP PLATFORM" in a dark blue box. The background is a stylized, geometric pattern of blue and white lines forming a grid that recedes into the distance. Below the banner, the text "Build unstoppable applications" is displayed in a large, white font. Underneath, there are three paragraphs of text describing Ethereum as a decentralized platform for smart contracts, its blockchain infrastructure, and its development history.

**Build unstoppable applications**

Ethereum is a **decentralized platform that runs smart contracts**: applications that run exactly as programmed without any possibility of downtime, censorship, fraud or third party interference.

These apps run on a custom built **blockchain, an enormously powerful shared global infrastructure that can move value around and represent the ownership of property**. This enables developers to create markets, store registries of debts or promises, move funds in accordance with instructions given long in the past (like a will or a futures contract) and many other things that have not been invented yet, all without a middle man or counterparty risk.

The project was bootstrapped via an ether pre-sale during August 2014 by fans all around the world. It is developed by the [Ethereum Foundation](#), a Swiss nonprofit, with contributions from great minds across the globe.

YOUR FRIENDS    YOUR VIDEOS    [OPEN CHAT](#)

## Audience Geography

Where are this site's visitors located?

### Visitors by Country

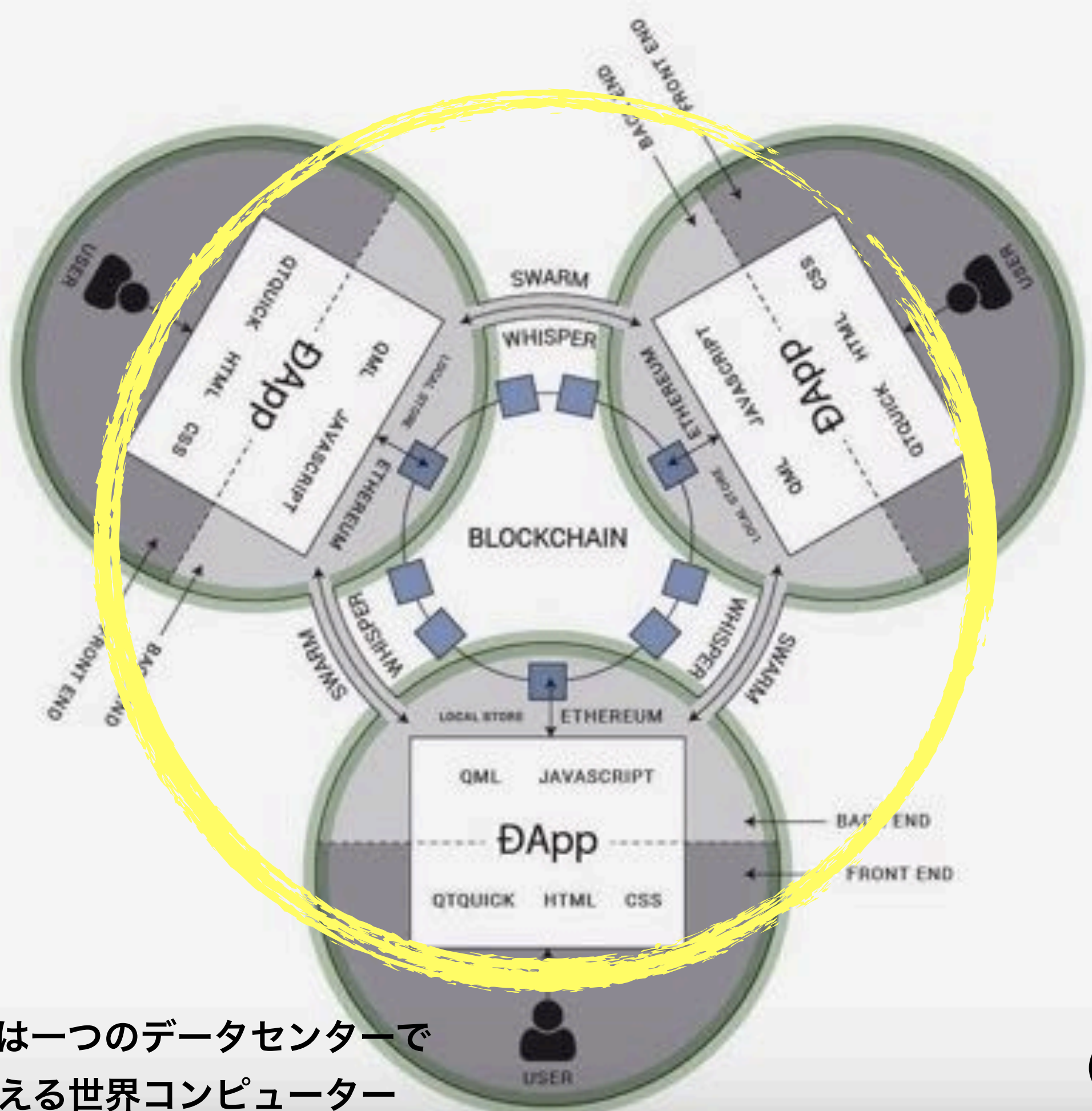


Country	Percent of Visitors	Rank in Country
 United States	28.6%	2,785
 United Kingdom	5.2%	2,658
 Germany	5.1%	3,287
 India	3.8%	6,915
 Japan	3.0%	9,826

[Subscribe to View](#)

How engaged are visitors to ethereum.org?





Ethereum は一つのデータセンターで  
誰でも使える世界コンピューター

(What is DApp?)



# STATE OF THE DAPPS

🔍 Search

search by tags



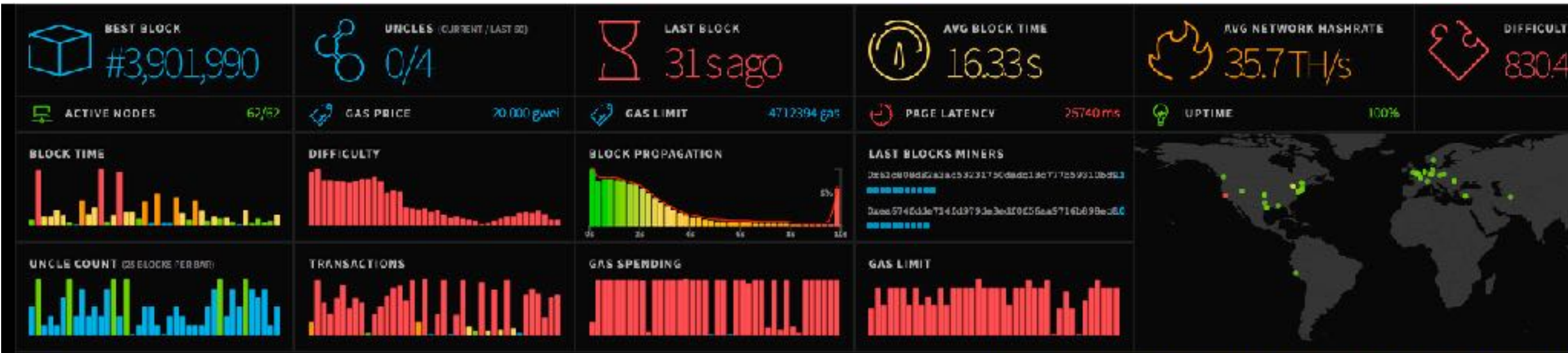
581 dapps listed

Sort: Updated

<b>Status</b> <b>Jarrad Hope</b> open source mobile ethereum client  Working Prototype 2016-07-07	<b>Seglos</b> <b>Maytham Nael</b> Spend your Ethereum without losing out on the future grow  Working Prototype 2017-06-20	<b>FOAM</b> New stockmarket for real estate  Concept 2017-06-19	<b>MetaMask</b> <b>Aaron Davis &amp; Dan Finlay</b> MetaMask brings Ethereum to your web browser  Work in Progress 2017-06-19	<b>Lost Ethereum</b> <b>Matt Branton</b> Recovery of provably Lost Ethereum as LOST tokens  Live 2017-06-19	<b>Ether.Fund</b> <b>J.R. Bédard</b> Ethereum Resources  Working Prototype 2017-06-19
<b>Upstairs</b> <b>Etherdesign</b> A Decentralized Reputation based on the Ethereum Blockchain  Work In Progress 2017-06-19	<b>Stabl</b> <b>Consensus</b> Exchange offering onchain leveraged future positions  Work In Progress 2017-06-19	<b>Proof of Existence...</b> <b>BTC Labs</b> B2B tool to catalog, trade, and license creative assets.  Working Prototype 2017-06-19	<b>Resilience</b> <b>Anonymous</b> Link the global financial network of daily transactions together on the web/blockchain  Concept 2017-06-19	<b>Cofound.it</b> <b>Jan Isakovic / Daniel Zakrisson</b> A distributed VC ecosystem for the distributed future  Concept 2017-06-19	<b>Swarm</b> <b>Daniel Nagy</b> Distributed File Storage  Work In Progress 2017-06-19
<b>BoardRoom</b>	<b>Guarante eMarket</b>	<b>DigixGlobal</b>	<b>Indorse</b>	<b>CryptoEees</b>	<b>Angular2 + Truffle</b>



# 稼働状況: main net (どちらかというと、裏方向きです。開発実験用のお砂場もあります)



ATTENTION!

This page does not represent the entire state of the ethereum network - listing a node on this page is a

Icon	Node Name	OS/Kernel	Latency	Sync	Peers	Gas Price	Block Hash	Block Age	Block Time	Block Diff	Block Hashrate	Block Latency	Block Propagation
🟢	anastas	Party/v1.6.8-beta-c36223-20170606/a80_64-linux-gnu/rustc1.17.0	118 ms	🟢	510	0	#3,901,989	ba5e543e...981802ec	374,443,753,332,649,100,000	221	0	3 min ago	🟢 +8.7 s
🟢	Bootnode NU	Geth/v1.6.5-stable-d97713d/linux-amd64/goL7	238 ms	🟢	498	143	#3,901,989	ba5e543e...981802ec	374,443,753,332,649,100,000	221	0	3 min ago	🟢 +2.6 s
🟢	ethnodeglobalinc.net	Geth/v1.6.5-stable-d97713d/linux-amd64/goL3.1	68 ms	🟢	128	161	#3,901,989	ba5e543e...981802ec	374,443,753,332,649,100,000	221	0	3 min ago	🟢 +4.7 s
🟢	rigel	Party/v1.6.8-beta-c36223-20170606/a80_64-linux-gnu/rustc1.17.0	115 ms	🟢	13	0	#3,901,989	ba5e543e...981802ec	374,443,753,332,649,100,000	221	0	3 min ago	🟢 +707 ms
🟢	Foundation Monitoring (Latest)	Geth/v1.6.5-stable-d97713d/linux-amd64/goL7.3	431 ms	🟢	12	1180	#3,901,989	ba5e543e...981802ec	374,443,753,332,649,100,000	221	0	3 min ago	🟢 +1.7 s
🟢	ethnodeglobalinc.net	Geth/v1.6.5-stable-d97713d/linux-amd64/goL3.1	495 ms	🟢	128	17	#3,901,989	ba5e543e...981802ec	374,443,753,332,649,100,000	221	0	3 min ago	🟢 +4.7 s
🟢	kinETH	Geth/v1.6.5-stable-d97713d/linux-amd64/goL3.1	50 ms	🟢	65	145	#3,901,989	ba5e543e...981802ec	374,443,753,332,649,100,000	221	0	3 min ago	🟢 +4.5 s
🟢	Sealnsupernode(diesel)	Party/v1.6.7-unstable-e12841814-20170510/x86_64-linux-gnu/rustc1.17.0	71 ms	🟢	87	0	#3,901,989	ba5e543e...981802ec	374,443,753,332,649,100,000	221	0	3 min ago	🟢 +3.5 s
🟢	fama.haus	Party/v1.6.8-beta-c36223-20170606/a80_64-linux-gnu/rustc1.17.0	74 ms	🟢	25	0	#3,901,989	ba5e543e...981802ec	374,443,753,332,649,100,000	221	0	3 min ago	🟢 +3.8 s
🟢	Cotton Candy	Geth/v1.6.5-unstable-ad92d7c4/linux-amd64/goL7.3	440 ms	🟢	100	393	#3,901,989	ba5e543e...981802ec	374,443,753,332,649,100,000	221	0	3 min ago	🟢 +1.3 s
🟢	kinETHty	Party/v1.6.8-beta-c36223-20170606/a80_64-linux-gnu/rustc1.17.0	183 ms	🟢	90	0	#3,901,989	ba5e543e...981802ec	374,443,753,332,649,100,000	221	0	3 min ago	🟢 +504 ms
🟢	kingtables	Geth/v1.6.5-stable-d97713d/linux-amd64/goL3.1	32 ms	🟢	11	251	#3,901,989	ba5e543e...981802ec	374,443,753,332,649,100,000	221	0	3 min ago	🟢 +6.9 s
🟢	Asia.in	Party/v1.6.7-beta-e12841814-20170510/x86_64-linux-gnu/rustc1.17.0	385 ms	🟢	511	0	#3,901,989	ba5e543e...981802ec	374,443,753,332,649,100,000	221	0	3 min ago	🟢 +1.4 s
🟢	ethnodeglobalinc.net	Geth/v1.6.5-stable-d97713d/linux-amd64/goL3.1	6 ms	🟢	128	163	#3,901,989	ba5e543e...981802ec	374,443,753,332,649,100,000	221	0	3 min ago	🟢 +4.1 s
🟢	ethnodeglobalinc.net	Geth/v1.6.5-stable-d97713d/linux-amd64/goL3.1	120 ms	🟢	128	125	#3,901,989	ba5e543e...981802ec	374,443,753,332,649,100,000	221	0	3 min ago	🟢 +8.7 s
🟢	Mreulznc	Party/v1.7.0-unstable-7e58f1c-20170517/a80_64-linux-gnu/rustc1.17.0	53 ms	🟢	48	0	#3,901,989	ba5e543e...981802ec	374,443,753,332,649,100,000	221	0	3 min ago	🟢 +775 ms



# 使用料金情報

**ETH Gas Station**

GENERAL

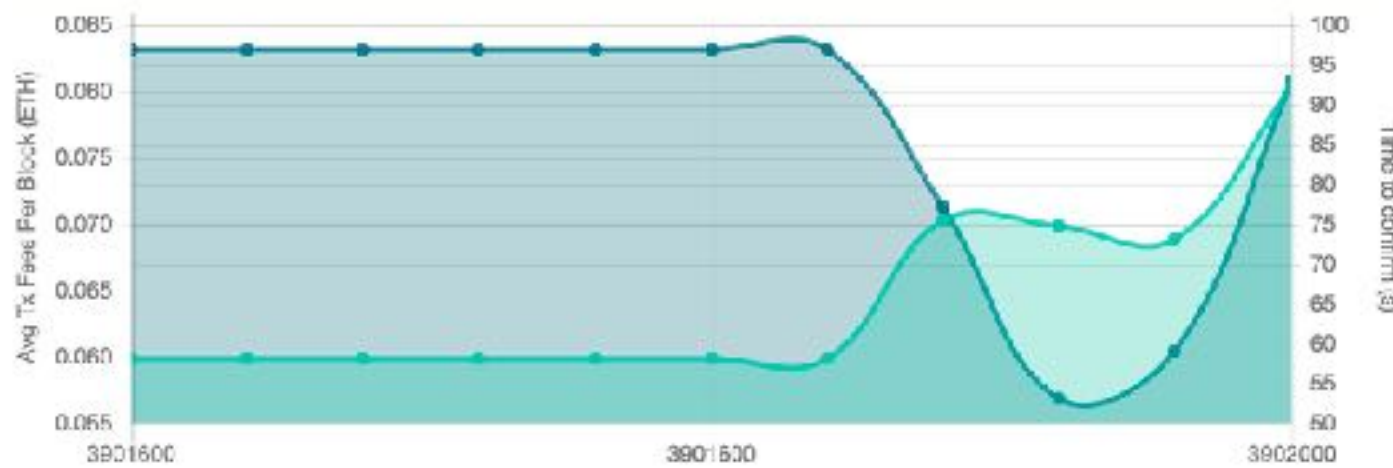
- Main Page
- Gas-Time Calculator
- Miner Stats
- Hash Power by Gas Price
- Low Gas Price Watch List
- Gas Profits
- Gas Burners
- FAQ
- External Links

Estimates over last 10,000 blocks - Last update: Block **3902000**

Change Currency

Median Cost for Transfer <b>\$0.152</b>	SafeLow Cost for Transfer <b>\$0.015</b>	Median Wait (s) <b>65</b>	Median Wait (blocks) <b>4</b>	Gas Price Mid (Gwei) <b>20</b>	Gas Price Low (Gwei) <b>0.501</b>
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Recent Network Activity: Gas Demand / Average Wait Time (100 block intervals)

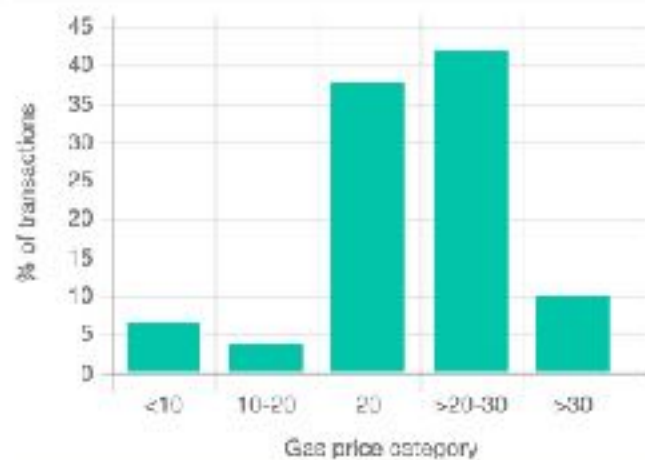


Real Time Gas Use: % Block Limit (last 10)

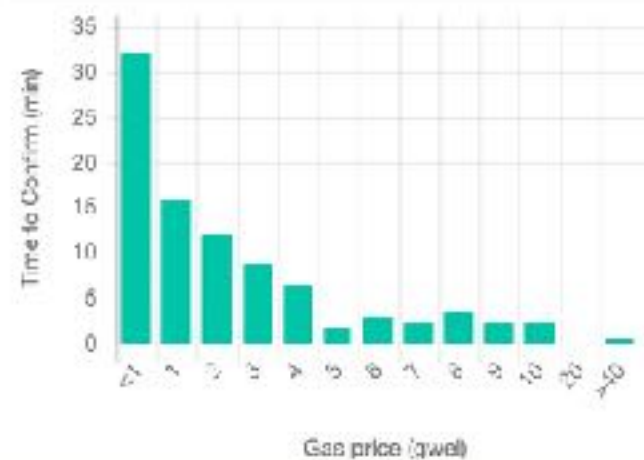


Last Block: 3902446

Transaction Count by Gas Price



Confirmation Time by Gas Price



Recommended User Gas Prices

Desired Tx Speed	Gas Price (gwei)	Average Wait (m)
Safe Low	2	0
Average	4	0
Fastest	27	0

Top 10 Miners by Blocks Mined: Support for user transactions

Misc Stats (Last 10,000 blocks)

# 簡易ツール: MyEtherWallet (CX)

必ずここに保管するすべてのお財布の「外部バックアップ」を作成してください。このChrome Extensionでは、再導入などで、データが保存されず消失することが頻繁に起こります。このエクステンションは容易な操作を提供するのみで、「バックアップ」は行いません。



MyEtherWallet CX

Open-Source & Client-Side Ether Wallet · v3.9.3.3

日本語

ETH (Etherscan.io)

[自分のお財布](#) [お財布の追加](#) [Ether/トークンの送付](#) [通貨の両替](#) [契約](#) [ENS](#) [ヘルプ](#)

## 自分のお財布



Augur2015

5.000 ETH



Godz

5.003 ETH



Metamask

6 ETH



Wallet

0 ETH



c6202c2c6153a22

3.3 SGT



MyEtherWallet

イサリアムお財布の作成とトランザクション実行のためのオープンソース、javascript、クライアントサイドツール。制作 [kvltnuke](#) & [tayvano](#).

[Support](#)

[Helpers & ENS Debugging](#)

[Sign Message](#)

[免責事項](#)



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Consider using our affiliate links to...

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[Buy a TREZOR](#)



Donations are always appreciated!

ETH: 0x7cB57B5A97eAbe94205C07090BE4c1aD31E486A8

BTC: 1MEWT2SGbqtz6mPCgFcnea8XmWV5Z4Wc6



トランスレーターにお恵みの投げ銭:

[sekisanchi](#)

ガス価格: **2 Gwei**



On the Web

[www.MyEtherWallet.com](http://www.MyEtherWallet.com)

[Github: MyEtherWallet.com](#)

[Github: MyEtherWallet v4+](#)

[Slack](#) · [Twitter](#) · [Facebook](#) · [Reddit](#)



**世界コンピューターは、**

**分散型自律組織が**

**合意形成プロトコルを用いて**

**スマート契約を実行するもの**

# 分散型自律組織先進例1: The DAO - 分散型自律ベンチャーファンド (2016)



[CREATION](#) [PROPOSALS](#) [MANIFESTO](#) [CURATOR](#) [PRINCIPLES](#) [VOTING](#) [FORUMS](#) [TERMS](#) [SUPPORT](#) [BLOG](#)

786.91 M  
DAO TOKENS CREATED

7.87 M  
TOTAL ETH

81.52 M  
USD EQUIVALENT



1.00  
CURRENT RATE  
ETH / 100 DAO TOKENS

11 hours  
UNTIL NEXT PRICE  
CHANGE

14 days  
LEFT  
ENDS 28 MAY 09:00 GMT

To obtain DAO tokens, follow the wizard below or send ETH from your [Ethereum Wallet](#) (NOT an exchange) to The DAO's address below. Note that sending ETH to the DAO's address signifies your acceptance of the [Terms](#)

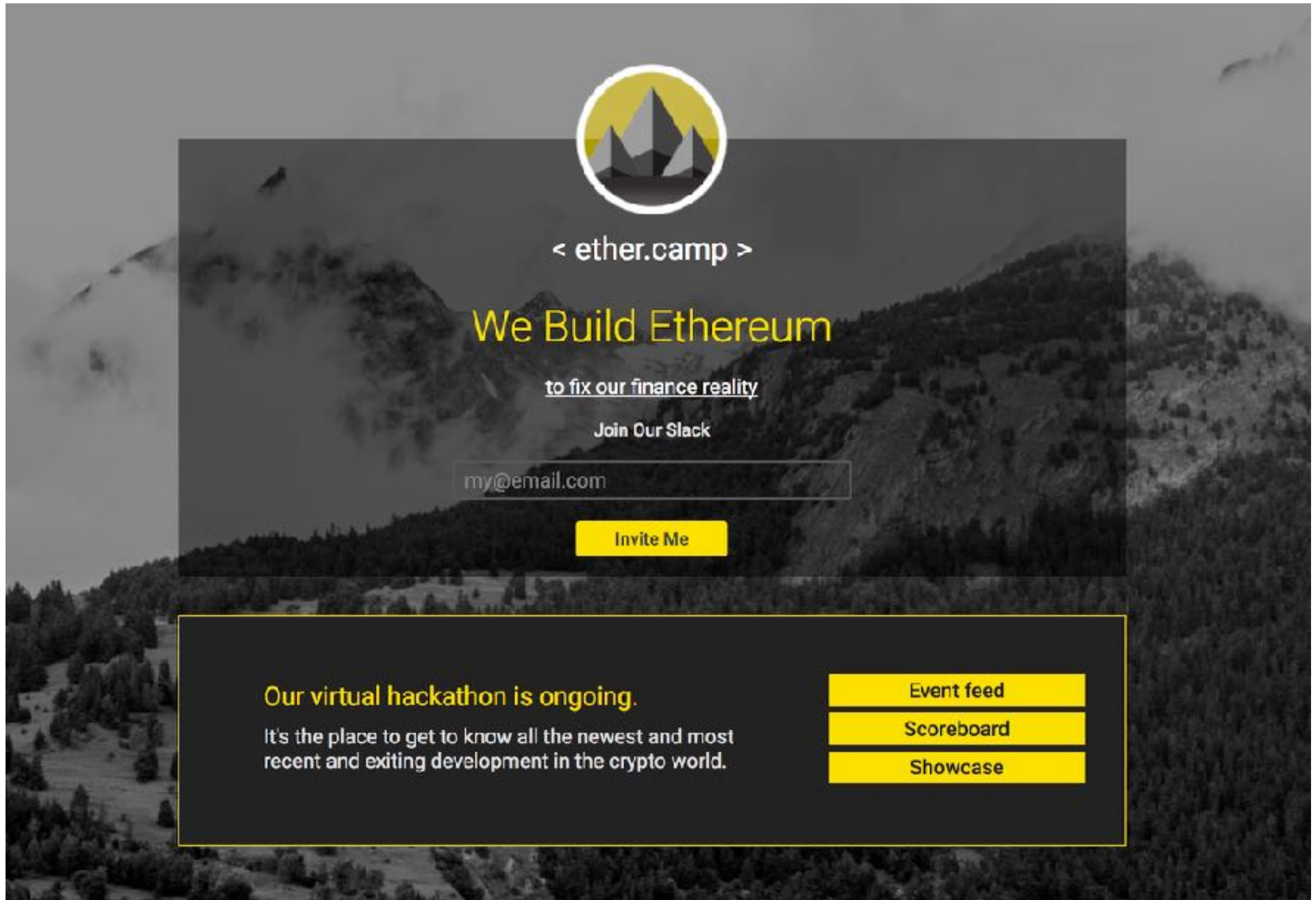
0xbb9bc244d798123fde783fcc1c72d3bb8c189413

DO NOT SEND ETH TO THIS ADDRESS DIRECTLY FROM AN EXCHANGE  
USE THE ETHEREUM WALLET OR FOLLOW THE WIZARD BELOW

START WIZARD



## 分散型自律組織先進例2: ether.camp - 分散型自律開発プラットフォーム (2016)

The image shows a screenshot of the ether.camp website. The background is a dark, grayscale photograph of a mountain range. At the top center is a circular logo with a yellow and grey mountain peak design. Below the logo, the text '< ether.camp >' is displayed in white. The main heading 'We Build Ethereum' is in a large, bold, yellow font. Underneath, the tagline 'to fix our finance reality' is in a smaller white font. A link 'Join Our Slack' is also in white. A text input field contains the placeholder 'my@email.com'. A prominent yellow button labeled 'Invite Me' is centered below the input field. At the bottom of the page, there is a dark grey box with a yellow border. On the left side of this box, the text 'Our virtual hackathon is ongoing.' is in yellow, followed by 'It's the place to get to know all the newest and most recent and exiting development in the crypto world.' in white. On the right side of this box, there are three stacked yellow buttons labeled 'Event feed', 'Scoreboard', and 'Showcase' in white text.

< ether.camp >

We Build Ethereum

to fix our finance reality

Join Our Slack

my@email.com

Invite Me

**Our virtual hackathon is ongoing.**

It's the place to get to know all the newest and most recent and exiting development in the crypto world.

Event feed


Scoreboard

Showcase

# 複合先進實驗例: Ethereum Name Service - Name Space Management / Auctions

The image shows a side-by-side comparison of the ENS website. The left side is a light grey version, and the right side is a dark theme version. The left side features the ENS logo (a green hexagon with 'ens' in white) and the text 'ethereum name service'. Below it, a paragraph states: 'ENS offers a secure and decentralised way to address resources both on and off the blockchain using simple, human-readable names.' The right side features three key features, each with an icon and a short description: 1. 'No more long addresses' with a crossed-out circle icon, explaining that ENS eliminates the need for long hexadecimal addresses. 2. 'Secure' with a padlock icon, stating that ENS is built on smart contracts on the Ethereum blockchain, making it more secure than the DNS system. 3. 'Truly Distributed' with a group of people icon, explaining that ENS operates in a distributed fashion for both infrastructure and governance.


ENS



ethereum  
name service


ENS offers a secure and decentralised way to address resources both on and off the blockchain using simple, human-readable names.

ENS




**No more long addresses**

ENS eliminates the need to copy - and worse, type - long hexadecimal addresses. With ENS, you'll be able to send money to your friend at 'aardvark.eth' instead of '0x4cbe58c50480...', interact with your favorite contract at 'mycontract.eth', or visit a Swarm-hosted site at 'swarmsite.eth'.



**Secure**

ENS is built on smart contracts on the Ethereum blockchain, meaning it doesn't suffer from the insecurity of the DNS system. You can be confident names you enter work the way their owner intended.



**Truly Distributed**

ENS operates in a distributed fashion for both its infrastructure and governance. Anyone can register a .eth domain name for themselves by participating in an auction process, mediated by the blockchain.




# ENS 登録



世界コンピュータ is owned

This name was registered at 2017-06-17. Owner offered to pay up to 0.0104509169 ether. No other bid was above the minimum of 0.01 ether.

Owned by:  9eef7aff387ad5... 3fc2945a

Needs to be renewed by: 2019-06-17

## RECORDS

Records are not enabled for this name (no resolver found).

[UNWATCH](#)

## ABOUT THIS NAME

0.01 ETHER  
locked in this name

- [architecture.e](#)
- [astroboy.eth](#)
- [auction.eth](#)
- [autonomous.e](#)
- [beijing2022.e](#)
- [bigsong.eth](#)
- [biometric.eth](#)
- [browser.eth](#)
- [capsule.eth](#)

# ENS検索

Etherscan  
The Ethereum Block Explorer

Search for Account, Tx Hash or Data

Ethereum Name Service Lookup (EWHOIS) [Home](#) / [ENS](#) / [ENS Lookup](#)

ENS is the [Ethereum Name Service](#) which is a distributed, extensible naming system based on the Ethereum blockchain that can be used to resolve a wide variety of resources such as Ethereum addresses.

世界コンピュータ.eth [Lookup](#)

🏠 世界コンピュータ.eth  
LabelHash (世界コンピュータ): 0x60Ca04bbe1b18770921b6d2a167f04c353d183afc5f2a0d86ad7c7c58e127

✖ The ENS Name '世界コンピュータ.eth' is **Not Available** for Reservation as it has been registered by someone else

Note : 0.01 Ether was locked up for this name and expires at 6/17/2019 9:57:34 PM (UTC)

ENS Info [世界コンピュータ.eth]

> Status	: Owned [2]
> Winning Deed	: <a href="#">0xc5ee83a1f3df08a7be6d20dda1b11aa54e17a513</a>
> Auction Started On	: 6/12/2017 9:57:34 PM (UTC)
> Submit Bids Before	: 6/15/2017 9:57:34 PM (UTC)
> Reveal Bids By	: 6/17/2017 9:57:34 PM (UTC)
> Value	: 0.01 Ether (\$3.19)
> Highest Bid	: 0.0104509169 Ether (\$3.33)

## 数字

New Wallet Send Ether & Tokens Swap Send Offline Contracts ENS View Wallet Info

Convert Ethererum Units (e.g. Ether <-> Wei)

Ether Wei Converter

1000000000000000000	wei
1000000000000000000	kwei
1000000000000000	mwei
1000000000	<b>gwei (shannon)</b>
1000000	szabo
1000	finney
1	<b>ether</b>
0.001	kether
0.000001	mether
0.000000001	gether
0.000000000001	tether

## 文字

NameHash [世界コンピュータ.eth]:

0xadc20746056ea82ac0344eb86ff01404587bf62  
02a2233a1c5ae3d3a342c9094

ENSによって、世界コンピュータは住所と数字の世界から、**文字の世界**へ突入した。



世界コンピュータでいつ何をするか？

**“We don’t trust people follow the rules, but trust people to know when to break them”**

*–Simon Sinek*



補足)

1. **タイトル文字に下線があるものは、紹介したサイトへ直接リンクされていますので、最新状況や詳細が確認いただけます。**
2. **ENS登録のサイトのみ、Metamask, MistあるいはParityが必要になります。**