

blockchains, which continue to evolve. Ethereum is currently trying to move from the slow, energy-intensive security scheme it has historically been to a sleeker approach that could make the platform more useful. Bitcoin has the Lightning Network, an experimental technology that enables cheaper payments by cutting down on some of

years, pending technological breakthroughs.

blockchains will replace notaries.

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Assets

my digital soul in the process.

from you.

starting point for building out all sorts of blockchain-based

applications. For example, Facebook says it's interested in exploring

things like digital identity tied to the Libra blockchain. At some point,

you might use that identity to log in to apps, open bank accounts, apply

for jobs, or prove that your emails or social-media messages are really

Those services could also be built on one of the original "public"

the intensive computations. Even Facebook has promised to begin

Advocates are particularly excited about the possibility of building

other financial services directly on the blockchain, an area known as

peer-to-peer loans, for example, without an overseeing authority, or

believe blockchains can also help automate many tasks now handled

stored in a blockchain. Or perhaps your will could be a smart contract

Bitcoin proved that it's possible to build an online service that operates

outside the control of any one company or organization. The task for

blockchain advocates now is proving that that's actually a good thing.

• The Ambitious Plan Behind Facebook's Cryptocurrency, Libra

Facebook has designed a blockchain and cryptocurrency that it

won't fully control, but that will uniquely benefit Facebook.

• New to Blockchain: Turning In-Game Virtual Goods into

that will automatically dole out your money to your heirs. Or maybe

even handle more complicated applications like insurance. Some

by lawyers or other professionals. For example, your will might be

"decentralized finance," or DeFi. Smart contracts could be used to issue

moving Libra toward a truly decentralized model within the next five

Companies like Forte and Animoca want to use blockchain technology to allow players to trade skins and other in-app purchases. • I Sold My Data for Crypto. Here's How Much I Made

• The Decentralized Internet Is Here, With Some Glitches

Hey, early adoption always comes with a cost.

Blockchain-based applications aren't vaporware: you can use

• A \$50 Million Hack Just Showed That the DAO Was All Too

them today. But they're often buggy, counter-intuitive, and risky.

The DAO heist didn't just show how human error can undermine

How I became my own data broker on the blockchain—and sold

automatic systems. The schism it caused in the Ethereum community shows how hard it is to remove messy human politics from software. • The Dark Web's Favorite Currency Is Less Untraceable Than It

Threat

Seems Bitcoin is encrypted, but that doesn't mean it's anonymous. Monero is one of several blockchain-based currencies trying to build a more private alternative, but don't count on being totally anonymous. Yet.

• Why Wall Street Is Embracing the Blockchain—Its Biggest

with blockchain applications when part of the idea of

It may seem weird that financial institutions are experimenting

blockchains is to make these companies obsolete. But it turns out that blockchains---or something like them---could make life easier for Wall Street. • An AI Hedge Fund Created a New Currency to Make Wall **Street Work Like Open Source** Traditionally, a hedge fund's trading methods are a closely

guarded secret. But the hedge fund Numerai is using a new

cryptocurrency to encourage data scientists to work together to

build algorithms that make the fund more valuable. This guide was last updated on July 7, 2019. Enjoyed this deep dive? Check out more WIRED Guides. Klint Finley is a contributing writer for WIRED covering tech policy,

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