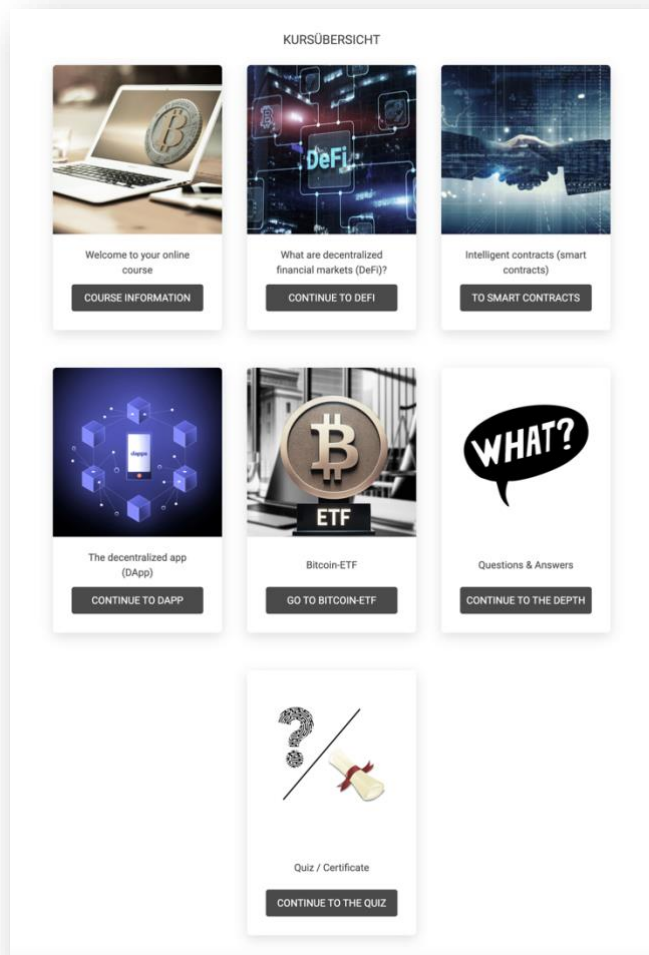**This picture gallery shows you the structure of the online courses.**

If you want to be successful in the crypto market, some basic knowledge is essential.

Screenshot 1

How does trading in NFTs work?

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What happens in the blockchain?
An NFT is a unique data record. This data record has a kind of "appendix" in which various information is recorded. For example, it states who created the NFT and what the NFT is supposed to represent.
For example, an artist can include a link to their artwork in the appendix of their NFT. In this way, the artwork and the NFT are firmly linked.
An NFT can be integrated into a smart contract and says, for example: "If person A hands over a product, person B pays a corresponding amount". NFT trading is not trading in a digital work of art, but an NFT to which a work of art belongs.

What does minting mean?
In order for an NFT to be bought or traded, it must first be placed on the blockchain. This process is known as "minting". A token is created and the digital artwork (or similar) is attached to it. This makes the artwork immutably "minted" as unique.

When a digital artwork is uploaded to an NFT trading platform, an NFT is created and a link to a database where the digital artwork is stored is added in the description.
Other information can also be included in the description, such as
- Who created the NFT?
- How often does the NFT exist?
- Is it a collector's item?
- What is the price?

This information is stored in the blockchain. This makes it possible to trace who sold the NFT to whom and for how much money at any time. The minting process transforms a data set that could previously be copied any number of times into a tradable digital and unique asset.

In the meantime, a large cross-blockchain ecosystem has emerged around NFTs, which is likely to become even more important in the coming years. There are many start-ups behind it that have specialized in different areas. Essentially, the ecosystem comprises the areas of infrastructure, digital collectibles, domains, the gaming industry, virtual reality and marketplaces.

Marketplaces
What exchanges are to cryptocurrencies, marketplaces are to NFTs. NFTs can be created and then traded there.
Probably the best known and largest marketplace is OpenSea, the "eBay" of NFT marketplaces. It is suitable for both beginners and advanced users. The marketplaces Rarible, SuperRare and Mintable are also interesting. All four of these marketplaces are compatible with Ethereum.
However, the number of marketplaces for NFTs that are also compatible with other blockchains is steadily increasing.

Future potential
In general, the tokenization of all physical assets and objects through NFTs can turn many industries upside down. Some even go so far as to predict a future in which almost all activities and economic activities are shifted to the internet. This is known as the **metaverse**, in which NFTs could play a central role. Initial approaches are already being made in the area of games and virtual worlds.

In a future financial world, for example, NFTs could serve as collateral for loans. This is already possible in DeFi, as the examples of NFTfi and ETNA Network show.
Of course, there are no guarantees for such future scenarios and there are still too many unanswered questions. However, it is unlikely that NFTs will disappear completely.
In the 1990s, few people believed that the Internet would become what it is today.

Screenshot 2

Difference between private key and public key

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While the **"private key"** is like the password for your bank account, the corresponding **"public key"** can be thought of as your personal IBAN number. Anyone who wants to send you cryptocurrencies must send them to your public key, which in turn is secured by your private key.

- Public keys can receive transactions from other people via your public address and can be passed on at will.
- Private keys should not be passed on under any circumstances. They serve as a PIN or confirmation code, so to speak. Together with the public key, you have access to your holdings in the blockchain.

Please note that the keys are not stored in the blockchain. Rather, they can be stored in an (encrypted) file that you can save anywhere and keep offline.

NEVER share your private keys with other people and keep them as secure as possible.

To understand how cryptocurrencies work, you should know what wallet addresses, public keys and private keys are.

- A wallet address is a sequence of randomly arranged numbers and letters
- The sequence usually consists of 26 to 35 alphanumeric characters (A-Z, 0-9)
- A wallet address is created by the wallet in the form of a link, which is ideally only used once
- Wallet addresses are used to send and receive cryptocurrencies
- Public and private keys are required to access the wallet addresses; several addresses can also be stored in one wallet.

Questions & answers I Links for in-depth information

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What is the difference between fundamental analysis and technical analysis?
Technical analysis looks at patterns in the charts to identify trends and make predictions about future market movements. Fundamental analysis is a holistic approach that looks at financial information, the user community and future benefits in the real world.

Can technical analysis accurately predict the chart trend?
No, this is not possible, but technical analysis helps to decide which trades might be suitable and when to enter or exit a market. Certain indicators in crypto trading show clear signals as to whether it is time to sell or buy.

What does Hodl mean?
Hodl is a meme that originated from a typo of the word "hold". It stands for the attitude of investors to hold a cryptocurrency such as Bitcoin permanently. So if cryptoassets are invested for the long term, these investors are called "hodlers".

What are the possibilities of Web 4.0?
The term Web 4.0 refers to the next evolutionary stage of the internet and encompasses a variety of technological, social and economic aspects. The most important components include intelligent agents (AI), the connection of physical objects with the virtual world and ubiquitous computing (assets and data can be organized, processed and retrieved).

What are the advantages of tokenization?
Above all, tokenization offers a very high level of security, as a blockchain records all transactions in a tamper-proof and transparent manner. The ownership structure can therefore be traced securely and quickly. For financial institutions, the blockchain therefore serves to minimize the risk of fraud.

Does tokenization have a future?
This is not absolutely necessary for shares, as the share register can be transferred to the blockchain. Registered shares are already being tokenized. The investment and financing model of tokenization opens up completely new perspectives and is sometimes seen as the future of investment.

Forbes - Why Technical Analysis Matters

TO THE ARTICLE

Artificial intelligence applied to the semantic web

TO THE ARTICLE

Finance 2.0: How Tokenization Will Change Everything for Businesses and Lenders alike

TO THE ARTICLE

You are now on the quiz page

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You have successfully completed the online course and are now ready for your quiz.

If you are on this page for the first time, click on the **"Done"** button to get to the quiz.

You can expect 10 questions on the various course topics.
You are considered to have passed if you answer 7 out of 10 questions correctly.

Only when you have completed all the questions and pressed the **"Submit"** button will you see your result and be able to leave the page.
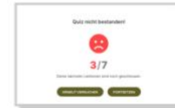
After passing the quiz
- **Show result** - you can go through your answers
- **Continue** - you will be taken to the certificate page
- **X top right** - you will be taken back to the quiz page

Quiz abgeschlossen!

10/7

Quiz not yet passed (not so bad)
- **Try again** - you can take the quiz again (this is also possible later)
- **Continue** - the certificate page is unfortunately still blocked
- **X top right** - you will be taken back to the quiz pag

Quiz nicht bestanden!

3/7

Certificate for the online course Money, Bitcoin and blockchain

Manuel Baur

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Completed

Manuel Baur
Founder

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