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Decentralized Finance's Influence on the Global Economy and Society

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Abstract

Decentralized finance (Defi) has the potential to be one of the most significant advances in the burgeoning digital economy. It can change financial intermediation, and its applications have the potential to democratize finance by providing a comparable level of competition among economic service and product suppliers. It aims to change the present centralized global financial infrastructure by proposing an internet-based decentralized approach based on open-source protocols rather than traditional financial mediators. Defi applications aim to provide traditional financial services, also known as Centralized Finance, in complete epicondyles, global, and transparent manner by embracing the vision of a financial system that operates without any conduits, such as banks, insurance companies, or financial institutions and is solely powered by the power of smart contracts. Defi is anticipated to have a substantial influence on how banks function in the future, with the potential to modify the structure of the whole financial system on a global scale. We will explore how it will disrupt society and the economy.

Keywords: Blockchain, Smart contracts, Cryptocurrencies, Stablecoins

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1. Introduction

Blockchain technology is used in decentralized finance as it is in cryptocurrencies. A blockchain is a distributed ledger or repository that is encrypted. dApps are programs that manage transactions and operate the blockchain. Transactions are recorded in blockchain blocks and then validated by other users. If these validators agree on a transaction, the block is closed and encrypted, and a new block is generated with information about the previous block. The information in each subsequent block "links" the blocks together, hence the term blockchain. There is no way to change a blockchain because the information in previous blocks cannot be changed without affecting subsequent blocks. This approach, along with other security procedures, contributes to the blockchain's security. A P2P Defi transaction occurs when two people agree to trade bitcoin for products or services without the involvement of a third party. Decentralized finance is still in its early phases of development. To begin with, it is unregulated, which means that the ecosystem is still rife with infrastructure errors, hacks, and frauds. Current legislation is founded on the concept of distinct financial jurisdictions, each with its own set of laws and norms. The potential of Defi to conduct borderless transactions raises critical issues for this form of regulation. Defi is still in its early phases of development, and institutions will serve a crucial role in

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shaping the ecosystem. There are revenue opportunities, including new services and products, as well as operational efficiency, to be realized by using the current Defi ecosystem and network. As this new financial landscape evolves, institutions that can accommodate and appreciate these developments will have tremendous growth prospects. Decentralized finance, also known as Defi, refers to financial systems and applications that are built on blockchain technology and operate without the intervention of any authority. Defi has the potential to disrupt financial systems and provide new avenues for people all over the world to access financial services (Sandner, 2021).

One of the main benefits of Defi is that it can provide financial services to people who may not have access to traditional financial institutions due to geographic, economic, or other barriers. For example, Defi can allow people in developing countries to access financial services through their smartphones, even if they do not have a bank account or live in an area without a local bank branch. Defi can also offer more transparency and security compared to traditional financial systems. Transactions on a blockchain are recorded in a public ledger, which can make it easier to track and verify financial activity. In addition, the decentralized nature of Defi can make it less vulnerable to fraud or manipulation, as there is no central point of control.

Another potential benefit of Defi is that it can enable new types of financial instruments and markets. For example, Defi platforms can allow users to create and trade customized financial instruments, such as derivatives or stablecoins, that are not offered by traditional financial institutions. Overall, Defi has the potential to significantly impact society and the global economy by providing greater access to financial services, increasing transparency and security, and enabling new types of financial instruments and markets. However, it is still an emerging technology, and it will likely take some time for its full potential to be realized (Caradonna, 2020; Wang et al., 2018; Mukherjee, 2022).

2. Methodology

Here is a general methodology for implementing smart contracts:

1. Define the problem or use case that the smart contract will address. This will help to determine the specific requirements and functionality of the contract.
2. Choose a blockchain platform. There are number of different blockchain platforms that support the development of smart contracts, such as Ethereum, EOS, and Hyperledger Fabric. It is important to choose a platform that meets the specific needs of the project, including the required level of security, scalability, and performance.
3. Design the smart contract. This includes defining the data structures, variables, and functions that will be included in the contract. It may be helpful to use a diagramming tool or visual modeling language to represent the contract design.
4. Write the smart contract code. This involves writing the code for the contract in the chosen programming language, such as Solidity for Ethereum or Go for Hyperledger Fabric. It is important to test the contract code thoroughly to ensure that it is functioning as intended.
5. Deploy the smart contract. This involves uploading the contract code to the blockchain platform and creating an instance of the contract on the blockchain.
6. Test the smart contract. Once the contract is deployed, it is important to thoroughly test it to ensure that it is functioning as intended and meeting the requirements defined in the design phase.
7. Monitor and maintain the smart contract. It is important to continuously monitor the contract to ensure that it is functioning correctly and to make any necessary updates or changes (Figure 1).

Smart contracts have a number of potential applications in the financial industry, including

1. Trading and Settlement: Smart contracts can be used to automate the trading and settlement of financial instruments, such as bonds, derivatives, and securities. This can help to reduce the time and cost associated with these processes, as well as increase the efficiency and transparency of the market.
2. Lending and Borrowing: Smart contracts can be used to facilitate peer-to-peer lending and borrowing, allowing individuals to lend or borrow money directly without the need for a traditional financial institution. Smart contracts can be used to automate the management of loan terms and conditions, including interest rates and repayment schedules.

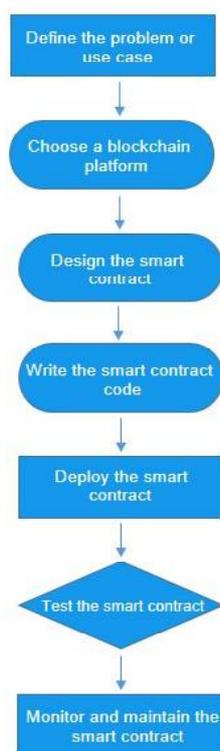


Figure 1: Flowchart

3. Insurtech: Smart contracts can be used to automate the underwriting and claims process in the insurance industry. For example, smart contracts could be used to automatically trigger the payment of an insurance claim when certain conditions are met, such as the occurrence of a natural disaster or the diagnosis of a covered medical condition.
4. Asset Management: Smart contracts can be used to automate the management of investment portfolios, including the buying and selling of assets and the distribution of profits or losses to investors.
5. Identity Verification: Smart contracts can be used to verify the identity of individuals or organizations, helping to reduce fraud and increase security in financial transactions.
6. IPOs: Smart contracts can be used to automate the process of issuing and tracking ownership of securities, allowing for more efficient and transparent management of the IPO.

On the whole, smart contracts in finance have the potential to increase efficiency, reduce costs, and improve the security and transparency of financial transactions.

3. Implementation of Smarts Contracts for Initial Public Offerings

Smart contracts can be used in Initial Public Offerings (IPOs) in a number of ways. One potential use case is in the distribution and management of securities during the IPO process. Smart contracts can be used to automate the process of issuing and tracking ownership of securities, allowing for more efficient and transparent management of the IPO. Another potential use case is in the management of the IPO fundraising process. Smart contracts can be used to facilitate the collection of funds from investors, ensure that the necessary regulatory requirements are met, and distribute the funds to the appropriate parties (Figure 2). Smart contracts can also be used to automate the management of investor rights and obligations, such as voting rights and dividend payments. This can help to streamline the IPO process and reduce the risk of errors or fraud.

```

1  pragma solidity ^0.8.7;
2  contract IPO {
3      // The address of the company issuing the IPO
4      address public issuer;
5      // The total number of shares being offered in the IPO
6      uint256 public totalShares;
7      // The price per share in the IPO
8      uint256 public pricePerShare;
9      // The start and end times of the IPO
10     uint256 public startTime;
11     uint256 public endTime;
12     // A mapping from investor addresses to the number of shares they have purchased
13     mapping(address -> uint256) public purchasedShares;
14     // The total number of shares sold so far
15     uint256 public totalSharesSold;
16     // The total amount of funds raised so far
17     uint256 public totalFundsRaised;
18     // An event that is triggered whenever a new share is purchased
19     event SharePurchased(address indexed investor, uint256 numShares, uint256 totalSharesSold, uint256 totalFundsRaised);
20     // Constructor function to initialize the contract with the issuer, total shares, price per share, and start and end times
21     constructor(address issuer, uint256 totalShares, uint256 pricePerShare, uint256 startTime, uint256 endTime) public {
22         issuer = issuer;
23         totalShares = totalShares;
24         pricePerShare = pricePerShare;
25         startTime = startTime;
26         endTime = endTime;
27     }
28     // Function to allow investors to purchase shares in the IPO
29     function purchaseShares(uint256 numShares) public payable {
30         // Ensure that the current time is within the start and end times of the IPO
31         //require(block.timestamp, "The IPO is not currently open for purchases.");
32         // Ensure that the investor has provided enough funds to cover the cost of the shares
33         require(numShares * pricePerShare <= msg.value, "Insufficient funds to purchase the requested number of shares.");
34         // Ensure that the requested number of shares is available
35         require(totalSharesSold + numShares <= totalShares, "The requested number of shares is not available.");
36         // Update the purchasedShares mapping and totalSharesSold variable
37         purchasedShares[msg.sender] += numShares;
38         totalSharesSold += numShares;
39         // Update the totalFundsRaised variable
40         totalFundsRaised += numShares * pricePerShare;
41         // Trigger the sharePurchased event
42         emit SharePurchased(msg.sender, numShares, totalSharesSold, totalFundsRaised);
43     }
44 }
45

```

Figure 2: Creating Smart Contract for IPO

```

1  from web3 import Web3
2
3  # Connect to the Ethereum network
4  w3 = Web3(Web3.HTTPProvider("http://localhost:8545"))
5  # Set the contract address
6  contract_address = "0x1234567890123456789012345678901234567890"
7  # Load the contract abi
8  abi = [{"constant":False,"inputs":[{"name":"quantity","type":"uint256"}],"name":"buy","outputs":[],"payable":True,"stateMutability":"payable"},
9  # Create the contract instance
10 contract = w3.eth.contract(address=contract_address, abi=abi)
11
12 # Set the account that will be used to interact with the contract
13 w3.eth.defaultAccount = w3.eth.accounts[0]
14
15 # Buy securities
16 tx_hash = contract.functions.buy(50).transact()
17 tx_receipt = w3.eth.waitForTransactionReceipt(tx_hash)
18
19 # Sell securities
20 tx_hash = contract.functions.sell(25).transact()
21 tx_receipt = w3.eth.waitForTransactionReceipt(tx_hash)
22
23 # Get the name of the security
24 name = contract.functions.name().call()
25
26 # Get the symbol of the security
27 symbol = contract.functions.symbol().call()
28
29 # Get the price of the security
30 price = contract.functions.price().call()
31
32 # Get the total supply of the security
33 total_supply = contract.functions.totalSupply().call()

```

Figure 3: Smart Contract for IPO

Overall, the use of smart contracts in IPOs has the potential to increase efficiency, transparency, and security, making the IPO process more streamlined and trustworthy for all involved parties (Halevi et al., 2019) (Figure 3).



Figure 4: Deploying Smart Contract for IPO

3.1. Deployment

This smart contract allows investors to purchase shares in an IPO using Ethereum. It includes a mapping of investor addresses to the number of shares they have purchased, as well as variables to track the total number of shares sold and the total amount of funds raised. The contract also includes a function to allow investors to purchase shares and an event that is triggered whenever a new share is purchased. To use this contract, you would first need to deploy it to the Ethereum blockchain and then call the “purchaseShares” function from an Ethereum wallet or other Ethereum client (Figure 4). The “purchaseShares” function takes the number of shares that the investor wants to purchase as an argument, and the investor must also include enough Ether to cover the cost.

This smart contract defines a contract on the Ethereum blockchain with the address contract_address and the Application Binary Interface (ABI) abi. The contract has functions for buying and selling securities, as well as functions for accessing the name, symbol, price, and total supply of the securities. To interact with the contract, the web3 library is used to connect to the Ethereum network and create an instance of the contract. The default Ethereum account is set, and the contract functions can be called using the “transact” method. The transaction hash and receipt can be obtained using the waitForTransactionReceipt method. The contract functions can also be called using the call method to retrieve the contract state

4. The Global Economical Consequences of Defi

Decentralized finance (Defi) is a financial system built on blockchain technology that allows for the creation of financial applications and services that are decentralized and operate outside of traditional financial intermediaries such as banks and credit card companies. Defi has the potential to disrupt traditional financial systems and bring financial services to people who may not have access to them through traditional channels. One of the main global economic consequences of Defi is that it has the potential to increase financial inclusion by making financial services more accessible to a wider range of people. Defi platforms and applications can be accessed by anyone with an internet connection, regardless of their location or financial status. This can be particularly beneficial for individuals in developing countries or underbanked regions where access to traditional financial services may be limited. Another potential global economic consequence of Defi is that it could lead to the creation of new financial instruments and services. Defi platforms and applications can be built on top of blockchain technology, which allows for the creation of new types of financial assets and

services that may not be possible with traditional financial systems. This could potentially lead to the development of new markets and the introduction of new investment opportunities. However, it is important to note that Defi is still a relatively new and rapidly evolving area, and the full extent of its global economic consequences is not yet fully understood. It is possible that Defi could also have negative consequences, such as increased financial instability or reduced trust in traditional financial institutions. It will be important to carefully monitor the development of Defi and its impact on the global economy as it continues to grow and evolve.

The impact of Defi on society and the global economy is still developing and evolving, but it has the potential to bring significant changes to the way financial systems operate. Some potential benefits of Defi include **Increased accessibility**: Defi can potentially make financial services more accessible to people who may not have access to traditional financial institutions, such as those in developing countries or those who are unbanked or underbanked.

Greater Transparency: Defi applications are built on top of blockchain technology, which is a transparent and decentralized ledger that allows for transparent and verifiable transactions. This can help to reduce the risk of fraud and increase trust in the financial system.

Lower Barriers to Entry: Defi can potentially lower barriers to entry for new financial services providers, as it allows anyone to build and offer financial services on top of blockchain technology. This could lead to greater competition and innovation in the financial sector.

Increased Financial Inclusion: Defi can potentially enable more people to participate in the global economy by providing access to financial services that were previously out of reach.

It is important to note that Defi is still in its early stages and it is not yet clear how it will ultimately impact society and the global economy. However, it has the potential to bring about significant changes to the way financial systems operate, and it will be interesting to see how it develops in the coming years (Sandner, 2021; Chen and Cristiano, 2020).

Defi has the potential to significantly impact society and the global economy by providing greater access to financial services and increasing financial inclusion. In particular, Defi can benefit individuals and businesses in areas with underdeveloped or non-existent traditional financial systems, as well as those who are unbanked or underbanked. By enabling peer-to-peer transactions and reducing the need for intermediaries, Defi can also potentially reduce the cost of financial services and increase the speed and efficiency of financial transactions. Additionally, Defi can provide better openness and security by exploiting blockchain technology's transparency and immutability. This can assist to minimize fraud risk and boost confidence in financial systems. Overall, Defi has the potential to destabilize established financial institutions and significantly alter how financial services are offered and obtained. It remains to be seen how these developments will play out in the long term, but it is clear that Defi has the potential to have a significant impact on society and the global economy.

4.1. Central Banks, Commercial and Investment Banks

Central Bank Digital Currencies (CBDCs) are being tested in various phases, partially as a response to stablecoins. These private tokens are linked to an official unit of currency (such as the dollar), providing crypto investors with a less volatile alternative to Bitcoin or Ether. However, stablecoins do not imply safety. Because stablecoins invest in hazardous assets, it's logical for the Bank of Global Transactions, the central bank's bank, to investigate if these tokens are indeed required for Defi liquidity. Allowing consumers to purchase digital assets using CBDCs, which are immediate claims on financial jurisdiction, eliminates the prospect of a stablecoin going bankrupt. Commercial banks' principal business strategy is to collect deposits and make loans to their customers. Lenders and creditors are fundamental components of an effective financial system because fund holders have an opportunity to supply liquidity to the marketplace in exchange for a return on otherwise inefficient securities (Sandner, 2021; Mukherjee, 2022). During the inaugural period, Defi protocols are supported for large-scale borrowing and lending between unknown individuals with no intermediaries. These programs connect lenders and borrowers and dynamically establish interest rates based on supply and demand. Furthermore, those protocols are inclusive, since anybody, at any time, out of any position, and having whatsoever quantity may engage with them. Indeed, the recent buzz around Defi apps has been fueled in large part by the evolution of borrowing and lending protocols such as Compound. Unlike traditional finance, loans in Defi are frequently backed by over-collateralization. Investment banks' business models often include financial transaction advising. Investment banks are also responsible for the design or trading of

complicated financial instruments, as well as asset management. Defi protocols currently provide comparable items. Synthetix, for instance, is a derivatives issuance protocol that allows for the decentralized generation and trading of derivatives on assets like stocks, currencies, and commodities. Decentralized asset management for cryptocurrencies is also emerging. Yearn Finance, for example, is an autonomous protocol that looks for the greatest returns in the Defi space and invests for its subscribers automatically (Caradonna, 2020).

4.2. Exchanges and Insurances

Crypto assets may be traded simultaneously on centralized exchanges and decentralized exchanges. The former is built on identical foundations to their traditional equivalents. Limit order books are off-chain recordings of unsettled orders issued by traders stored by centralized exchanges. Decentralized exchanges, on the other hand, operate in a very different manner, matching the counterparties in a transaction using so-called automated market-maker protocols and employing mathematical algorithms to calculate pricing based on transaction volumes, as well as employing incentives to encourage liquidity provision. It also considers their vulnerability to market manipulation. Defi protocol for decentralized insurance applications to improve insurance transaction efficiency, cut costs, and increase transparency. The portal is a community for insurance products and services, and the standards and rules apply to anyone. A decentralized insurance platform that is accountable for smart contract coverage can be implemented on Ethereum. It consists of a risk-sharing pool administered by members, with entity tokens serving as membership rights, and it allows members to purchase insurance on Ethereum smart contracts at any public level. It functions as an independent platform that protects against hacking and eliminates the need for a middleman and intermediary fees during transactions.

5. The Social Implications of Decentralized Finance

One of the main social implications of Defi is that it has the potential to increase financial inclusion by making financial services more accessible to a wider range of people. Defi platforms and applications can be accessed by anyone with an internet connection, regardless of their location or financial status. This can be particularly beneficial for individuals in developing countries or underbanked regions where access to traditional financial services may be limited. Another potential social implication of Defi is that it could lead to the creation of new financial instruments and services. Defi platforms and applications can be built on top of blockchain technology, which allows for the creation of new types of financial assets and services that may not be possible with traditional financial systems. This could potentially lead to the development of new markets and the introduction of new investment opportunities. However, it is important to note that Defi is still a relatively new and rapidly evolving area, and the full extent of its social implications is not yet fully understood. It is possible that Defi could also have negative social consequences, such as increased financial instability or reduced trust in traditional financial institutions. It will be important to carefully monitor the development of Defi and its impact on society as it continues to grow and evolve.

The implementation of blockchain technology does indeed have social effect implications, including transparency, supply chain management, digital identity, personal data security, legitimacy, and adherence. In contrast, IT firms keep their algorithms hidden, but blockchain's selling point is transparency and unassailable record keeping. Because of blockchain's alternative trust-based, peer-to-peer networks, some engineers believe blockchain and cryptocurrencies can reorient the economy. Decentralized systems may fuel new models for change, expanding knowledge and assisting social groups in creating common systems of record that meet the needs of corporate funders (Chen and Cristiano, 2020).

Several corporate entities, governments, and Non-Governmental Organizations (NGOs) are already utilizing blockchain to make a positive impact on the world. The use of blockchain to create a transparent goods supply chain. This enhances brand trust, and people can check to see whether the labels and packaging are correct. People can track every stage of the supply chain to check if chemicals were used and where the food was grown if it is local. By merging real-time delivery and payment information, it helps to simplify grain supply networks between producers and dealers. Customers can utilize the blockchain to verify product claims of ecology or provenance by translating data from supply chain tracking systems.

Businesses must back up their positive impact claims as a result of decentralization. Customers may utilize accurate information to choose trustworthy and reputable providers for their money. By adopting blockchain to provide financial aid to individuals in disaster zones, the charity and NGO industry may save money on bank costs. There are several uses for decentralized systems. Government spending and financial activities for

anything from paying taxes to taxes on earnings may be recorded and made public. In terms of healthcare, your medical information and treatments may be safely stored and quickly made available to specialists in the case of an emergency.

6. Smart Contracts as Reinforcement for Self-Governance

Smart contracts are self-executing contracts with the terms of the agreement between buyer and seller being directly written into lines of code. The code and the agreements contained therein are stored and replicated on a blockchain network. Smart contracts can potentially be used as a reinforcement for self-governance in certain situations. For example, smart contracts could be used to automate the enforcement of rules and regulations within a community or organization. For example, a smart contract could be set up to automatically enforce certain rules within an online forum, such as banning users who violate the forum's terms of service. This can help to ensure that the rules of the forum are consistently and fairly enforced, without the need for human intervention. However, it is important to note that smart contracts are only as effective as the code that underlies them, and there is a potential for errors or vulnerabilities to be present in the code. As such, it is important to carefully review and test smart contracts before using them for any important tasks. Smart contracts can be used to facilitate, verify, and enforce the negotiation or performance of a contract. They can be particularly useful in situations where self-governance is important, as they can help to automate certain processes and enforce rules and regulations without the need for external oversight. For example, a smart contract could be used to govern the rules of a Decentralized Autonomous Organization (DAO), a type of organization that is run entirely by code and operates on a blockchain. In general, smart contracts can help to promote self-governance by providing a transparent, immutable, and automated system for enforcing rules and regulations. However, it is important to note that smart contracts are not a panacea and they are not without limitations. For example, they can only enforce rules that can be encoded into the contract, and they may not be able to handle more complex or nuanced situations. Additionally, smart contracts rely on the underlying blockchain infrastructure, which must be secure and reliable for the contracts to function as intended.

7. Consequences: Benefits and III Effects

One potential consequence of the use of smart contracts as a reinforcement for self-governance is that they could potentially reduce the need for intermediaries, such as lawyers or other third parties, to facilitate or enforce the terms of a contract. This could potentially lead to cost savings and increased efficiency. Another consequence could be that the use of smart contracts could increase the transparency and accountability of the parties involved in a contract, as the terms of the contract are stored on a decentralized, immutable blockchain network. This could potentially improve the overall trust and confidence in the contract and the parties involved.

However, it is important to note that smart contracts are still a relatively new technology and there are potential risks and challenges associated with their use. These include the potential for errors in the code of the contract, the lack of legal recognition in some jurisdictions, and the potential for disputes to arise if the terms of the contract are unclear or open to interpretation.

It is difficult to say whether the use of smart contracts as a reinforcement for self-governance is inherently good or bad, as it depends on the specific context and how they are being used.

On the one hand, the use of smart contracts could potentially bring about several benefits, such as increased efficiency, cost savings, and increased transparency and accountability. These benefits could potentially lead to a more effective and efficient system of self-governance.

On the other hand, there are also potential risks and challenges associated with the use of smart contracts. These include the potential for errors in the code of the contract, the lack of legal recognition in some jurisdictions, and the potential for disputes to arise if the terms of the contract are unclear or open to interpretation. Ultimately, the use of smart contracts as a reinforcement for self-governance will depend on the specific context and how they are being used. It is important to carefully consider the potential risks and benefits of using smart contracts in any given situation.

8. Conclusion

The impact of Defi on society and the global economy is still developing and evolving, but it has the potential to bring significant changes to the way financial systems operate. Some potential benefits of Defi include

Increased accessibility: Defi can potentially make financial services more accessible to people who may not have access to traditional financial institutions, such as those in developing countries or those who are unbanked or underbanked. The major financial system is emerging without the need for middlemen. Up to this point, Defi apps cannot compete with traditional banking solutions concerning security, speed, and convenience of use. However, It has created genuine, operational apps that have already attracted billions of dollars. These resources will be used in the future to create more competitive and user-friendly applications. However, it has largely gone undetected that the infusion of funding via initial coin offerings has enabled the blockchain community to advance the technology to the next evolutionary step. Recently, substantial quantities of money have been invested in blockchain technology. In contrast, apps have previously been built and are in use. While we may be on the cusp of a new peak, we may also be at the start of a new major development phase for Decentralization. these Decentralized financial services are proving to be a more transparent, secure, and efficient alternative to traditional financial services. By removing the need for centralized financial institutions, an open and trustworthy financial system is formed. Although we are accustomed to everything passing via a bank or other financial organizations, decentralization creates a system that may act remotely.

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