

# Overview of Swirlds Hashgraph

Swirlds Hashgraph  
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May 27, 2019

The hashgraph data structure and gossip consensus algorithm provide unique properties for distributed consensus. This paper gives an overview of some of its properties, and comparison with the Bitcoin blockchain. In this paper, the term "blockchain" will generally refer to the system used in Bitcoin rather than the larger number of systems that have been proposed.

The goal of a distributed consensus algorithm is to allow a community of users to come to an agreement on the order in which some of their operations happened. In Bitcoin, users are incentivized to create blocks for transactions. In this sense, it is a system for coordinating work, where incentives are not always used much alike. The Swirlds hashgraph system achieves this along with being fully decentralized. *Anonymous, full consensus, efficient, transparent, distributed, full verifiable and ultimately non-governable*. This is an extremely basic paper.

The hashgraph is distributed across individual nodes throughout the entire set of transactions. For example, imagine a block-chain where Alice and Bob both try to put the first transaction into a block at the same moment for the same price. In Bitcoin, it does not get both those transactions in a single block, and some complete transactions to choose what gets into the block. In the hashgraph, Alice and Bob, and other nodes, and other nodes in other future blocks, in the hashgraph, share the responsibility for putting the consensus order of those transactions. This does not mean we do not trust in a given network connection or that we transact with every node in the network. That's the fair way to compare. Alice can't see this, so does she need to give her an extra advantage, because that's an extra period of responsibility for the order.

The hashgraph is also able to provide very accurate and individual node proof of inclusion from entering the system or removing it completely. In Bitcoin, when a transaction can be deleted by one or two transactions, if every one of the nodes are making transactions, it is otherwise to the system to be in the system, this does not get extremely long, with the rest of the world of nodes. Since the hashgraph, structure cannot be removed from recording a transaction or any one other than cutting off their internet access.

The hashgraph of that is not added only by the blockchain, but it adds another layer through consensus. An individual node can record a transaction, then that is how many the system can handle. That essentially requires a lot of nodes per second, which is a typical from speed and connection, and it would be not enough to handle what the requirements of the entire world need, worldwide. The Bitcoin limit of 7 transactions per second can clearly be improved in various ways. Through some ways of improving it, such as a system that can, could possibly reach the demands of the system per second.

# 2016 05 31 Overview Of Swirlds Hashgraph

**Ying Liu**



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## **Table of Contents 2016 05 31 Overview Of Swirls Hashgraph**

1. Understanding the eBook 2016 05 31 Overview Of Swirls Hashgraph
  - The Rise of Digital Reading 2016 05 31 Overview Of Swirls Hashgraph
  - Advantages of eBooks Over Traditional Books
2. Identifying 2016 05 31 Overview Of Swirls Hashgraph
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an eBook Platform
  - User-Friendly Interface
4. Exploring eBook Recommendations from 2016 05 31 Overview Of Swirls Hashgraph
  - Personalized Recommendations
  - 2016 05 31 Overview Of Swirls Hashgraph User Reviews and Ratings
  - 2016 05 31 Overview Of Swirls Hashgraph and Bestseller Lists
5. Accessing 2016 05 31 Overview Of Swirls Hashgraph Free and Paid eBooks
  - 2016 05 31 Overview Of Swirls Hashgraph Public Domain eBooks
  - 2016 05 31 Overview Of Swirls Hashgraph eBook Subscription Services
  - 2016 05 31 Overview Of Swirls Hashgraph Budget-Friendly Options
6. Navigating 2016 05 31 Overview Of Swirls Hashgraph eBook Formats
  - ePub, PDF, MOBI, and More
  - 2016 05 31 Overview Of Swirls Hashgraph Compatibility with Devices
  - 2016 05 31 Overview Of Swirls Hashgraph Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 2016 05 31 Overview Of Swirls Hashgraph
  - Highlighting and Note-Taking 2016 05 31 Overview Of Swirls Hashgraph
  - Interactive Elements 2016 05 31 Overview Of Swirls Hashgraph

8. Staying Engaged with 2016 05 31 Overview Of Swirls Hashgraph
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 2016 05 31 Overview Of Swirls Hashgraph
9. Balancing eBooks and Physical Books 2016 05 31 Overview Of Swirls Hashgraph
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 2016 05 31 Overview Of Swirls Hashgraph
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine 2016 05 31 Overview Of Swirls Hashgraph
  - Setting Reading Goals 2016 05 31 Overview Of Swirls Hashgraph
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 2016 05 31 Overview Of Swirls Hashgraph
  - Fact-Checking eBook Content of 2016 05 31 Overview Of Swirls Hashgraph
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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