



Online-Appendix zu

„The State of the Art in Cryptocurrencies“

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Appendix A. Cryptographic Hash Function

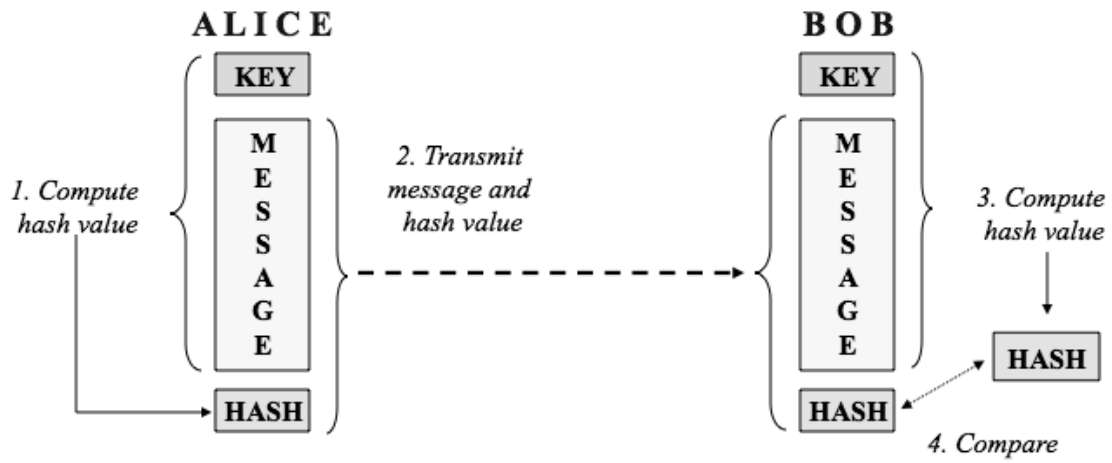


Figure 1: Cryptographic Hashing [Kess00]

Appendix B. Public Key Encryption

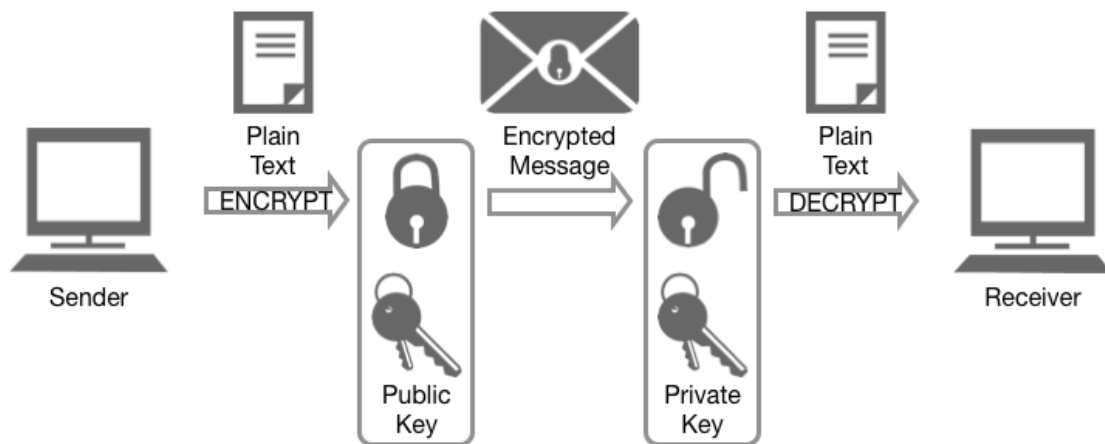


Figure 2: Public Key Encryption [Craw16]

Appendix C. Bitcoin

Traditional Privacy Model



New Privacy Model

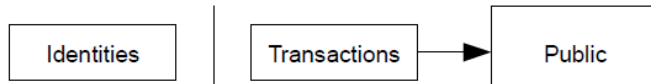


Figure 3: Decentralization in Bitcoin [Naka08]

Appendix D. Extended Overview on Ethereum-Based Dapps

Category	Name	Feature	Website
Financial	Digix	Asset (Gold) Backed Tokens	https://digix.io/
	Giveth	Crowd Funded Donation Dapp	http://www.giveth.io/
	WeTrust	Trusted Lending Circles	https://www.wetrust.io/
Semi-Financial	Augur	Prediction Market for Real-World Events	https://augur.net/
	ChronoBank	Labor Hour Stable Coins	http://chronobank.io/
	Golem	Distributed Computing Power	https://golem.network/
	ICONOMI	Digital Asset Management Platform	https://iconomi.net/
	SingularDTV	Rights Management and Video On-Demand	https://singulardtv.com/
Non-Monetary	Akasha	Social Media Platform	http://akasha.world/
	Aragon	DAO Management	https://aragon.one/
	FirstBlood	Decentralized E-Sports Rewards Platform	https://firstblood.io/
	UjoMusic	Decentralized Music Platform	https://ujomusic.com/
	uPort	Self-Sovereign Identity	https://www.uport.me/

Table 1: Summary of Decentralized Applications [00h]