

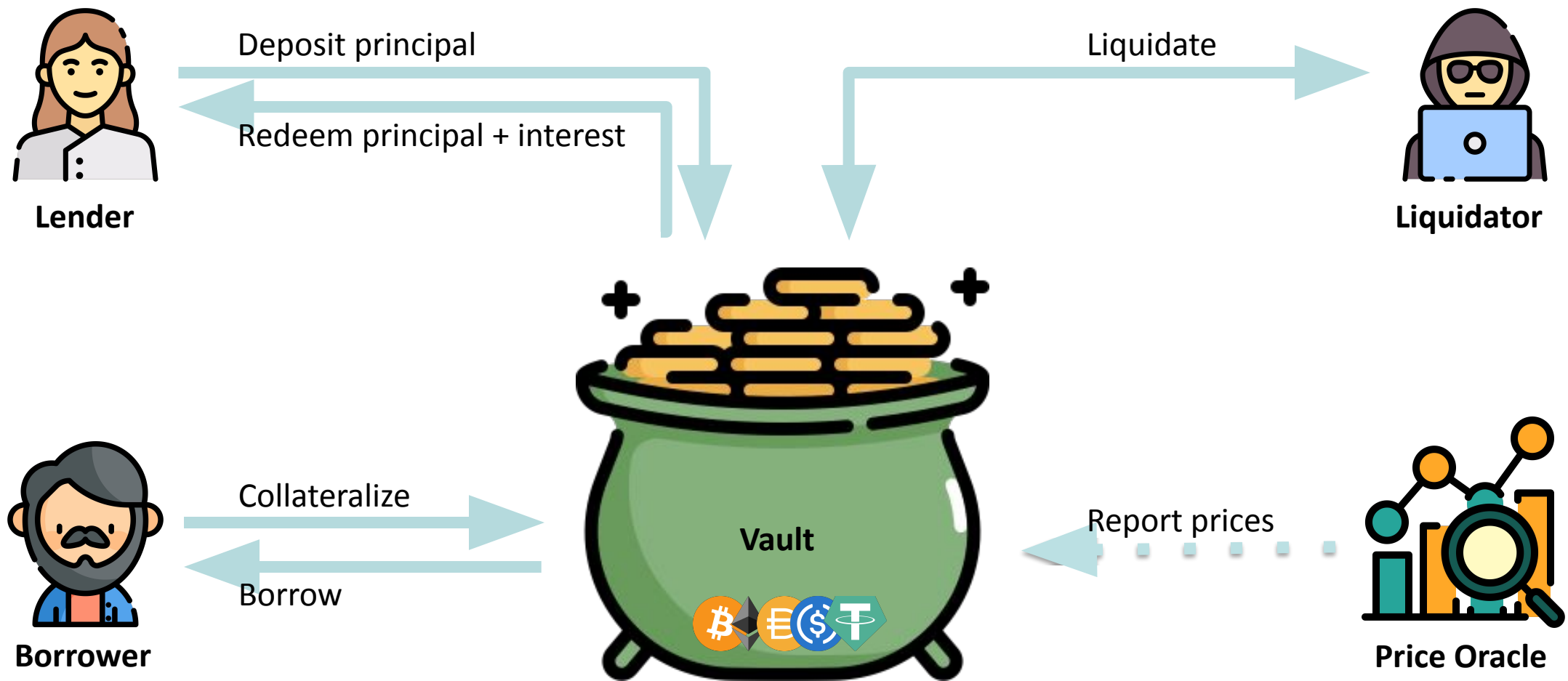
Decentralized Finance

Recap - Lending and Borrowing

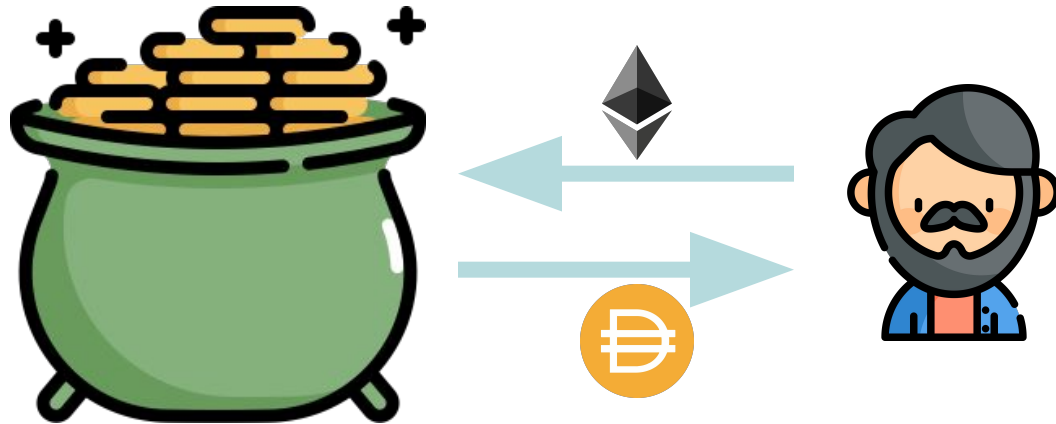
Instructors: Dan Boneh, Arthur Gervais, Andrew Miller, Christine Parlour, Dawn Song



On-Chain Lending & Borrowing



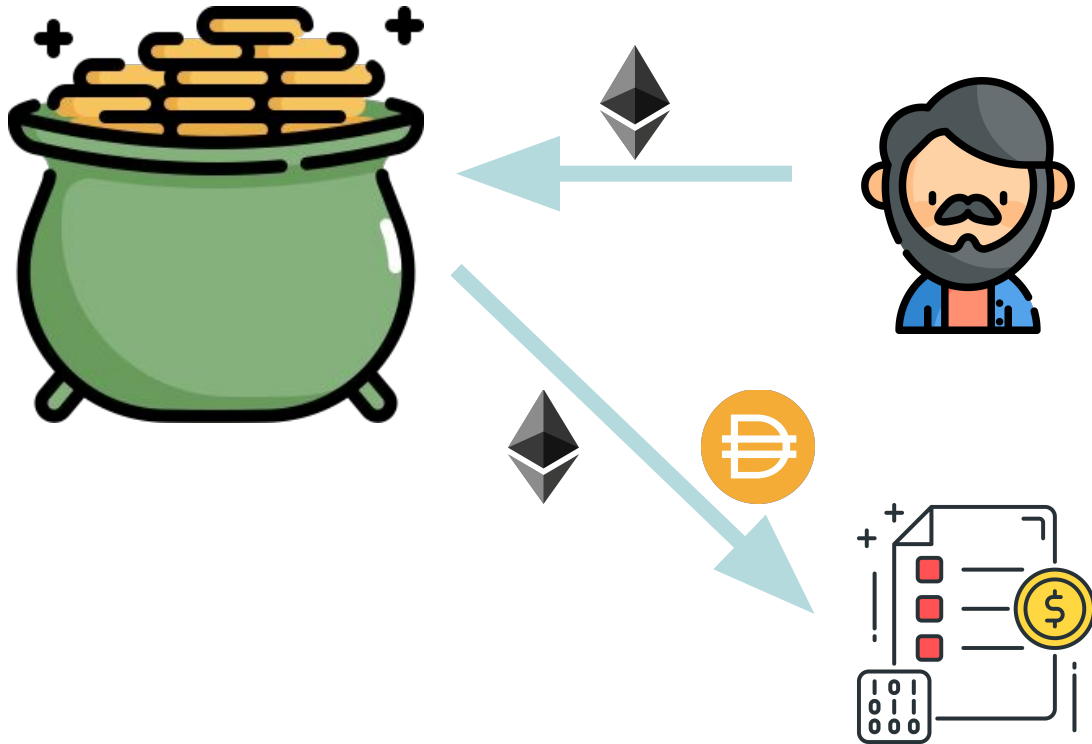
Over-collateralized Borrowing



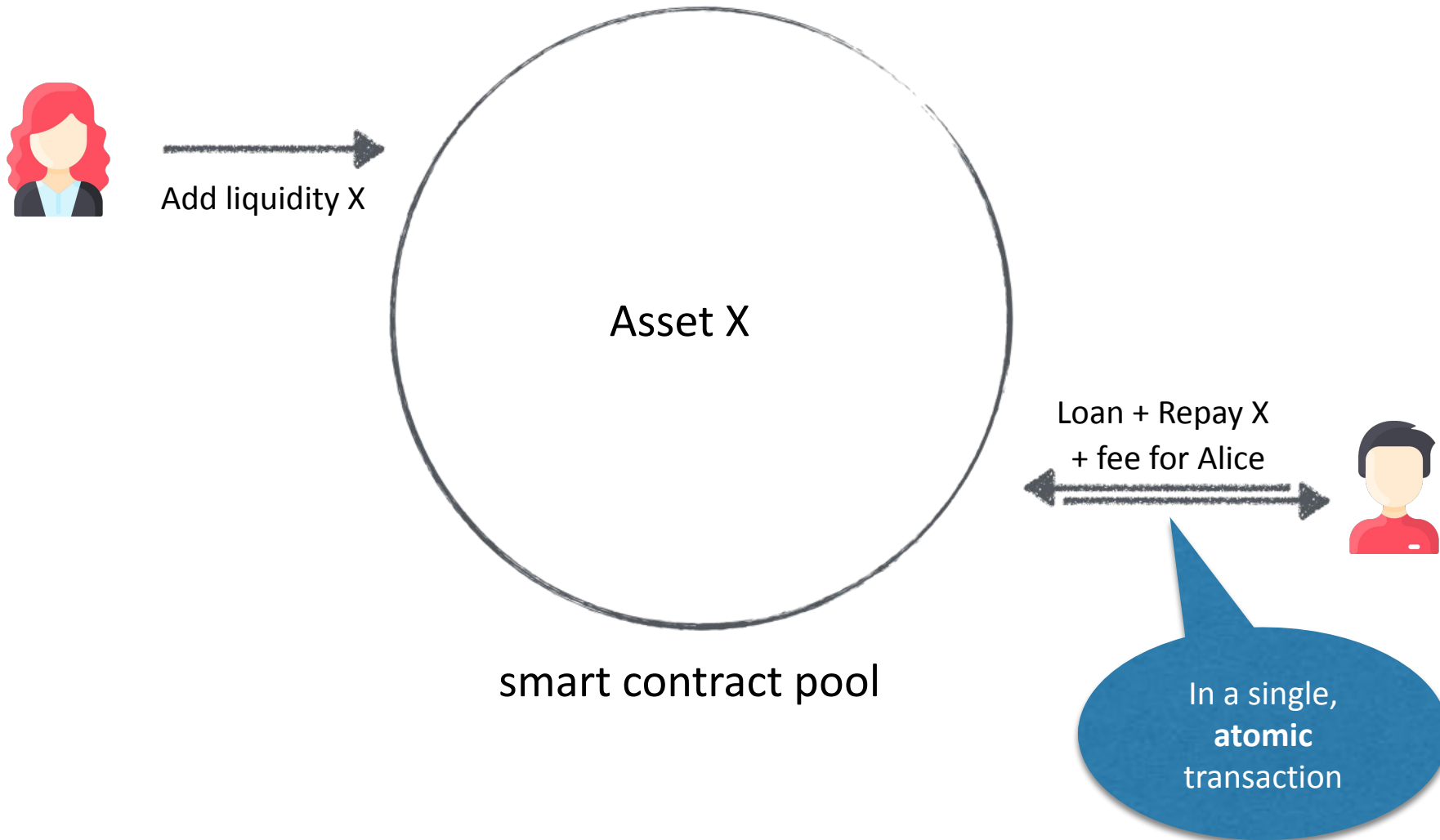
- The borrower can use the borrowed DAI arbitrarily/freely

Under-collateralized Borrowing

- The vault remains in control of all assets.



Flash Loan

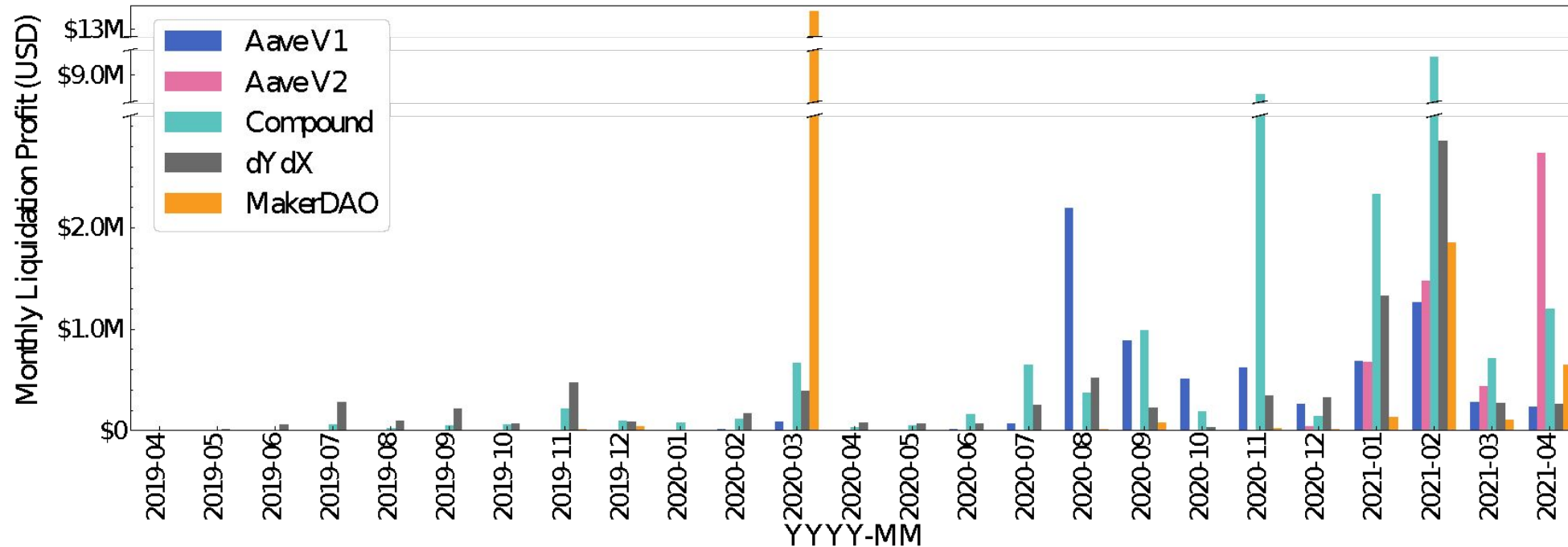


Flash Loan Use Cases

- (Risk-free) Arbitrage
- DeFi attacks
 - Price Oracle Manipulation
 - Pump and Dump
- Washtrading
- Flash Minting
- Collateral swapping

Liquidations

- Total profit: 63.59M USD
- MakerDAO outlier in March 2020, caused by bot failure.



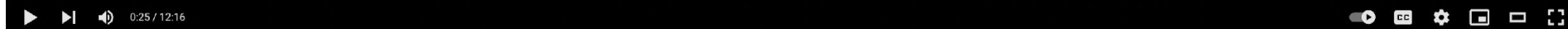
Guest Lecture

Decentralized Finance

Case Study: Uniswap



Guest Lecture: **Dan Robinson** (Paradigm)



Uniswap (Guest Lecture by Dan Robinson)

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Fire Side Chats
