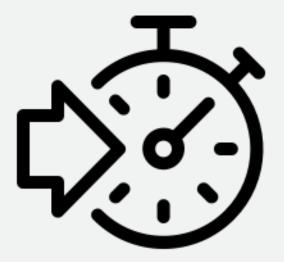
Too Fast: The Greed of Speed 馬健原 Jeffrey Ma, 林鈞樂 Jules Linden

- What is the speed of market?
- Disadvantage of too fast: stock trading
- Benefit of a faster market: Victorian Internet
- Law clerk example
- Conclusion

What is the speed of market?

Speed is an indicator of a market, measuring if transactions in the market fast or slow.



What is the speed of market?

Speed can influence the thickness of a market.

Moreover, speed can make a market thrive or tear it apart.

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- "First come, first serve"
- By sending trade order faster, traders can make higher profit.
- Thus, people started to seek high speed channel to send their order.



• However, speed chasing caused several problem.....

The market's liquidity becomes worse

Trading with high speed channels is like a kind of arbitrage, so professional traders will do less trade to avoid loss.

A risk of losing control

There were several incidents that people couldn't completely control their trading machine and caused harm.

How to solve these problem?

A better market design. Speed chasing is a way with low efficiency (Just like queuing), so a system that higher bid wins is more effective.



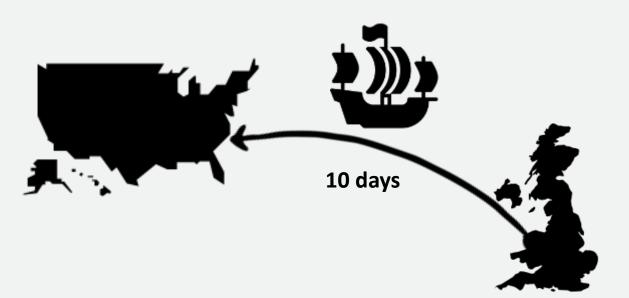
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Benefit of a faster market: Victorian Internet

- Beneficial to slow down markets to human speed
- Speed needs to be able to reflect changes in the world

Benefit of a faster market: Victorian Internet

- 19th century cotton market
- Information traveled slow
- Matching D&S was difficult



Benefit of a faster market: Victorian Internet

Solution: Telegraph

- Allowed to exchange information within hours
- Supply of cotton better matched the Demand
- Prices became less volatile



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- Last week: making decisions to early creates bad matches
- What about making decision to fast?



I received the offer via voicemail while I was in flight to my second interview. The judge actually left three messages. First, to **make the offer**. Second, to tell me that I should respond soon. Third, to **rescind the offer**. It was a **35 minute** flight.

• -2005 applicant for a Federal Judicial Clerkship

- Exploding offers
- Moving to early? Set up rules: earliest offering dates
- Congestion: Not enough time to consider all options

Why exploding offers?

- Judges made offers fast
- Leave offer open for too long, the next best clerk might be gone

Who benefits most from exploding offers?

- Low-prestige judges?
- Top-prestige judges?
- Almost-top judges!!





Consequences:

- Top students may not be allocated to Top courts
- Students have to make uninformed choices under timepressure
- Rules are broken

Changes in design fail if they address the <u>symptoms</u> and not the <u>cause</u> of market failure



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Conclusion

Even when the market was thick and offers were made at the same time



- Exploding offers:
- Force to decide before receiving other offers
- Without full information
- Rules were not sufficient

Conclusion

How to allow different offers to be made and considered at the same time?

- Without congestion
- Without exploding offers