PWC G8 Gals @Technology

CREDIT CARD

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Going Cashless – Epay and Electronic Signature

July 20, 2020

- Massive Twitter Hack
 - Musk, Bezos, Gates and other highprofile targets
 - Fake Bitcoin deal
 - Looks like inside job. Employee got paid to help hackers get access to internal tools
- US, UK, and Canadian security officials present details of activity by Russian hacking group called APT29 (aka "the Dukes" or "Cozy Bear") targeting COVID vaccine research and development organizations.





New Windows 10 utility – Windows File Recovery

- Command-line app that can be used to try to recover files that have been deleted and can't be restored from the Recycle Bin.
- Used "Signature Mode" to recover content such as photos, documents, spreadsheets, etc.
- Bad news is it is in Windows 10 2004 Feature Update which is still having problems



You're up to date Last checked: Today, 12:14

Check for updates

Feature update to Windows 10, version 2004

The Windows 10 May 2020 Update is on its way. We're offering this update to compatible devices, but your device isn't quite ready for it. Once your device is ready, you'll see the update available on this page. There's nothing you need to do at this time.

Learn more



Visit Advanced options to change the pause period

New iOS 14 features

- Tags in Messages (@personname)
- Pin a conversation to the top of Messages
- Translate app now built in
- More organized Home screen
- Widgets have a new look and home
- Picture-in-picture now convenient tool

https://www.cnet.com/how-to/6features-apple-ios-14-public-beta-willmake-you-love-your-iphone-more



Home Router Study Shows MANY issues

- 186 routers from 14 different vendors
- 83% had firmware vulnerabilities with an average of 172 vulnerabilities per router!
- More than 30% are running 2011 system kernels





Why A Cashless Economy?



- Benefits
 - Lower crime rates because there is no tangible money to steal
 - Less money laundering because there is always a digital paper trail
 - Less time associated with handling, storing, and depositing paper money
 - Easier currency exchange while traveling internationally
- Disadvantages
 - Exposes your personal information to possible data breaches
 - If hacker drains your funds, you'll have no other source of money
 - Those without bank accounts will struggle
 - Some may find it harder to control spending without physical cash



CASH NOT ACCEPTED

Where in the World?

- Sweden signs often seen. Cash accounts for just 1% of consumer transactions.
- India 2016 the government banned 500 and 1,000 rupee notes. Cash is still heavily used.



Why Go Cashless?

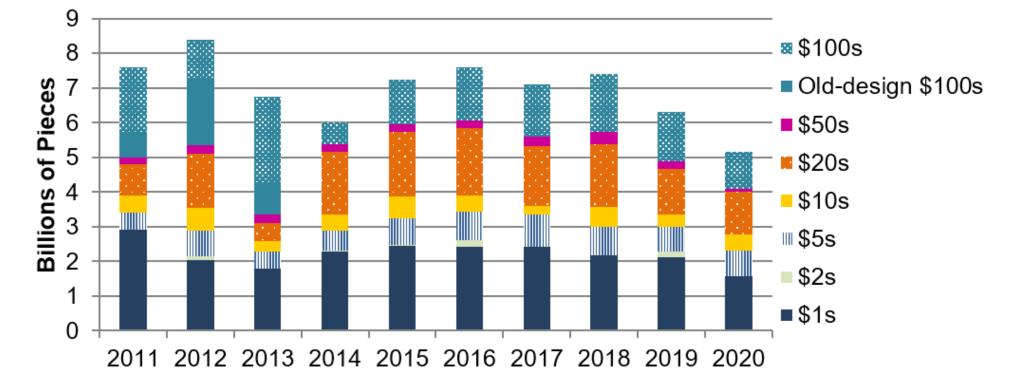
What's in it for me?

- Less expensive for all. US "cash infrastructure" costs more than \$5 Billion/yr
- It is "greener" fewer physical resources wasted
- Cash-free payments are faster and more convenient
- Better tracking tools
- Cashless transactions can improve your credit score

Cash Isn't Going Away Any Time Soon

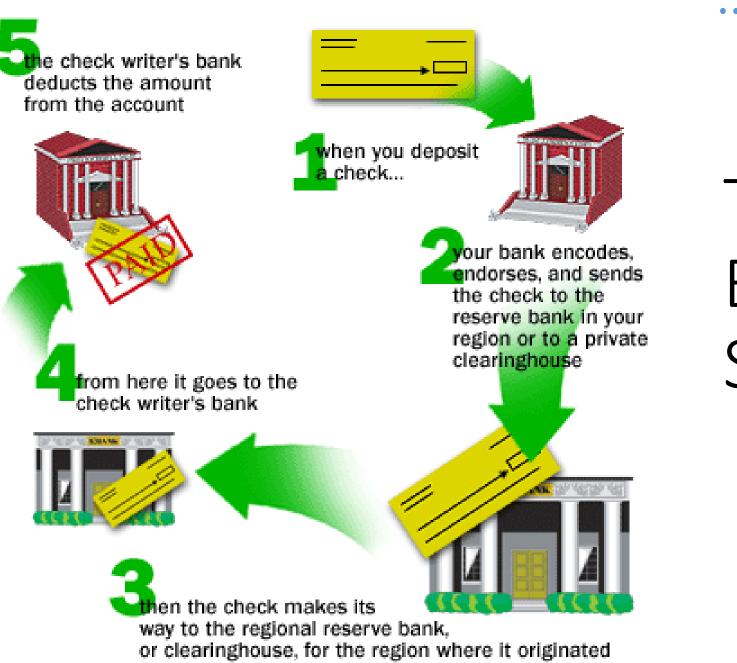
As of July 8, 2020 – there was \$1.93 Trillion worth of Federal Reserve notes in circulation



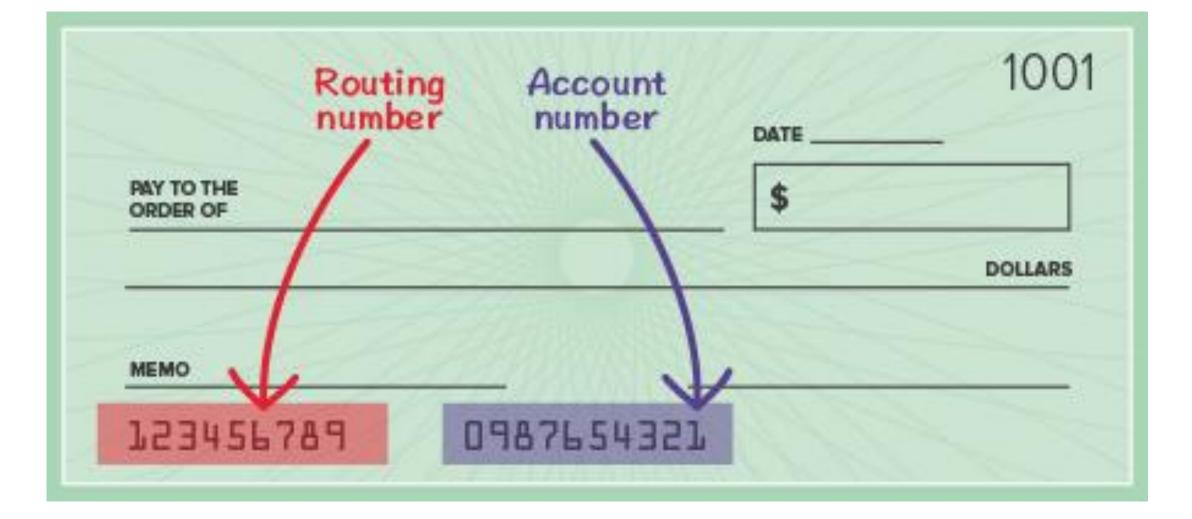


There Has To Be Real Value Somewhere!

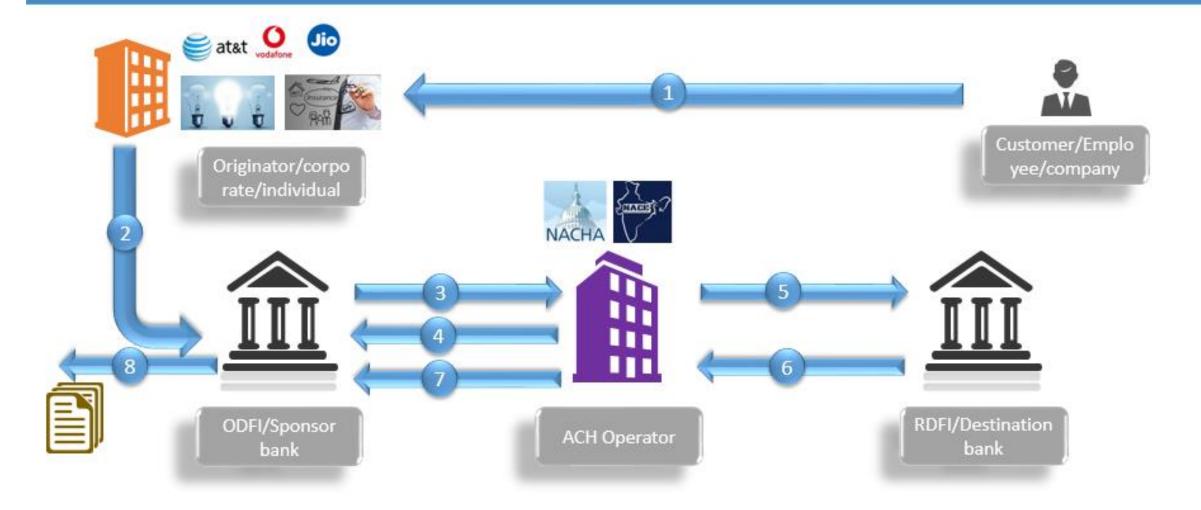
BALVAS



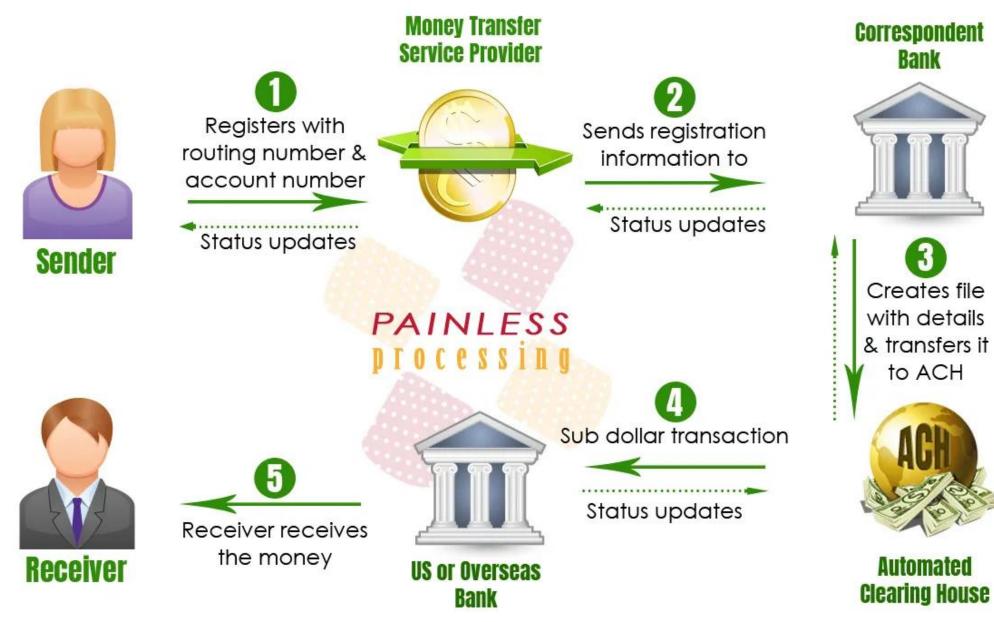
Traditional Banking System



Introduction of ACH network(ACH Debit)



ACH PAYMENT PROCESSING





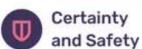
AUTOMATED CLEARING HOUSE

WIRE TRANSFERS

⇒	Transfer Speed	Typically takes two to three business days to complete.	
U	Certainty and Safety	ACH transfers are also quite safe, but ACH transfers into your account can be reversed.	
\$	Cost	ACH transfers are almost always free for consumers—especially if you're receiving funds in your account.	



Wire transfers move funds from one bank to another within one business day.



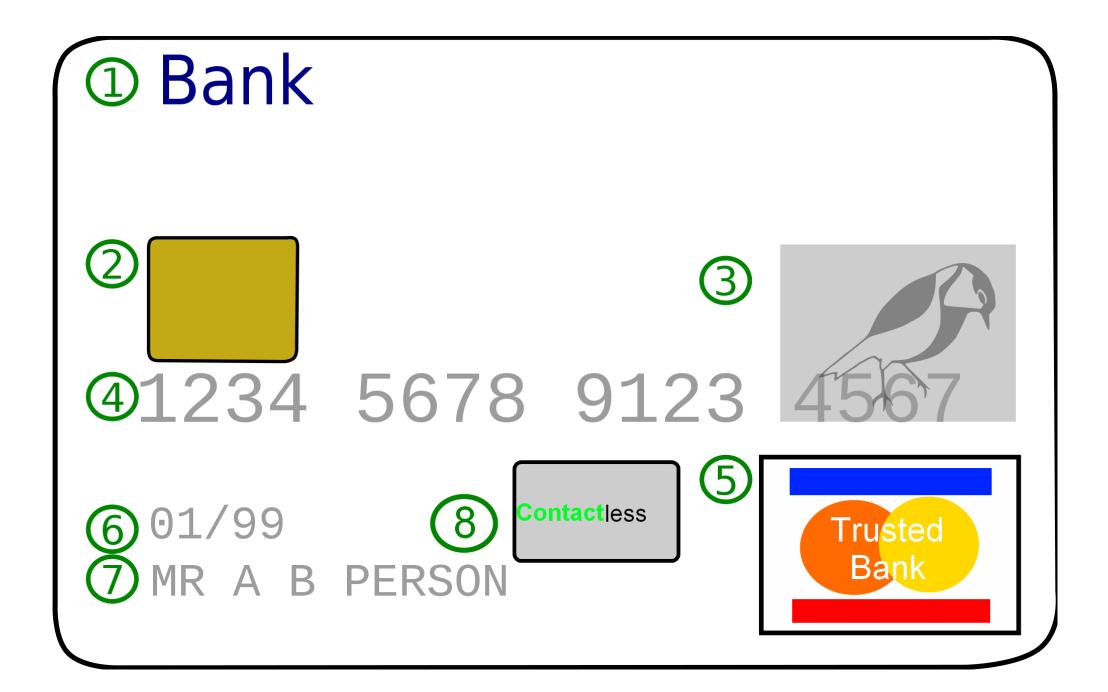
Cost

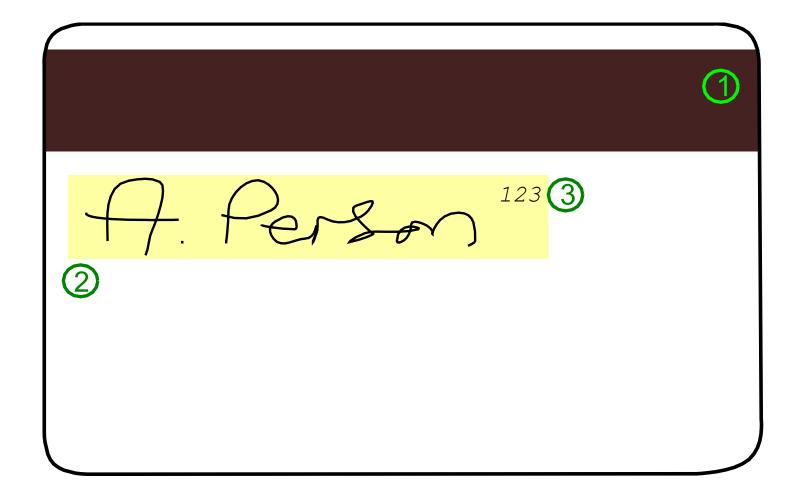
Wire transfers are a relatively safe way to get paid, and unlike cashier's checks, they aren't often faked.

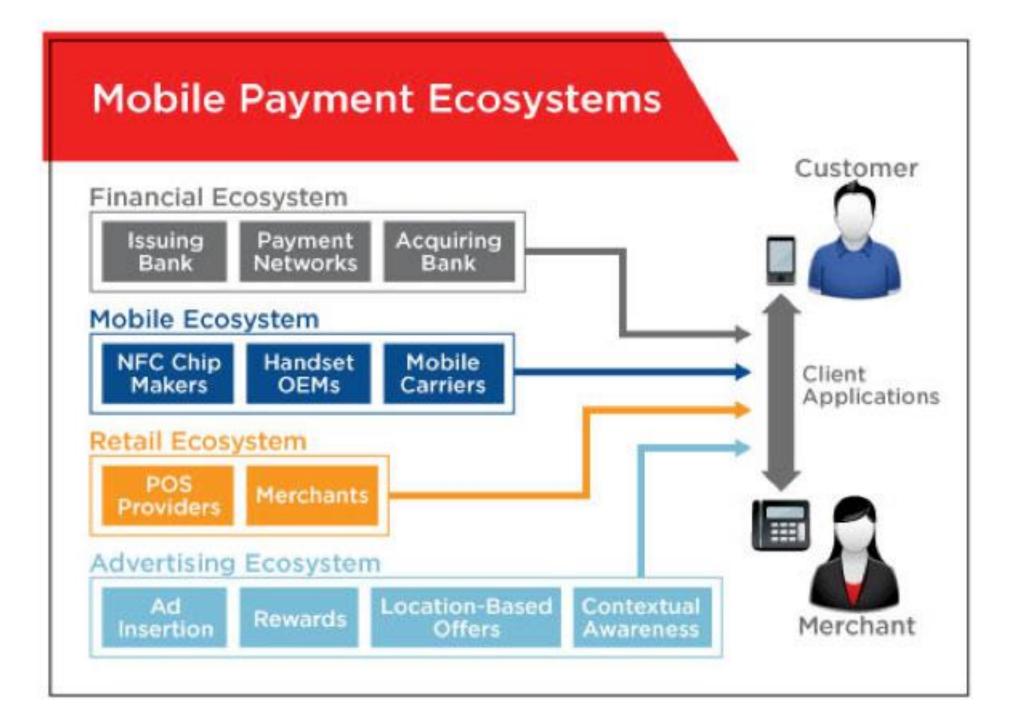
Banks and credit unions typically charge between \$10 to \$35 to send a wire within the United States, and international transfers cost more.

the balance



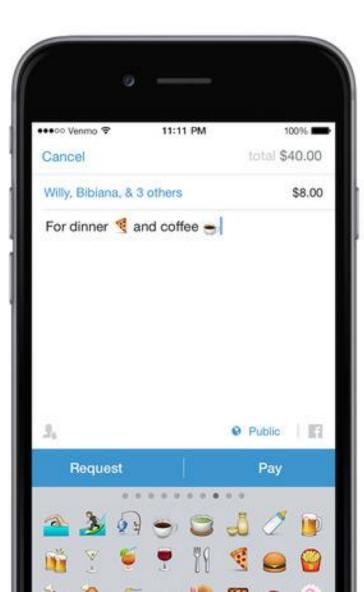








Request money from multiple people at once



See payments your friends share



Have fun with friends on Venmo



But Are They Safe?

- Many experts consider mobile payments more secure than cardswipes or cash
- Nothing is entirely hacker-proof
- Many apps have now added 2-Factor Authentication (2FA) a good thing!!
- <u>Most importantly</u> use a limited access method for backing your electronic payments (credit card or limited funds bank account)



MOBILE PAYMENTS COMPARISON TABLE

	PEER-TO-PEER PAYMENTS?	IN-STORE PURCHASES?	ONLINE PURCHASES?	LOYALTY PROGRAM?
<u>Square Cash</u>	\checkmark	×	×	\checkmark
<u>Apple Pay</u>	✔ (via Apple Pay Cash)	\checkmark	\checkmark	√
<u>Google Pay</u>	✔ (via Google Pay Send)	\checkmark	\checkmark	\checkmark
<u>Venmo</u>	\checkmark	×	~	√
<u>Samsung</u> <u>Pay</u>	\checkmark	\checkmark	×	√
<u>PayPal One-</u> <u>Touch</u>	\checkmark	×	\checkmark	\checkmark
<u>Xoom</u>	\checkmark (International)	×	×	×
<u>Zelle</u>	\checkmark	×	×	×
<u>Circle</u>	\checkmark (International)	×	×	×



A Moment About Electronic vs Digital Signatures

- Identity verification
- Positive acknowledgement by both parties
- International body of law

