Digital Locks and the Future of Security

Hello Internet, we need to talk about locks, physical and digital.

In the physical world, locks, aren't as good as you think they are. The

~~bolt~~ ~~lock~~ on your ~~front~~ door is ~~more~~ for your piece of mind ~~than actual~~ *not*

security — as two minutes of searching will reveal, ~~probably it's also~~

~~cheap~~. Spend more, get more — but there's no unbreakable lock. All locks

fail with time and tools enough.

But that locks are bad at locking [in the physical world], mostly doesn't

matter, because burglar are constrained by the physical world.

A burglar ~~has to~~ *must* cruise the neighborhood and pick a target — Which ~~is~~ *To*

~~why having~~ *makes that* a house *look* secure ~~is~~ most of the way ~~to making it~~ *Toward being* secure.

But digital is different. On The Internet ~~the appearance of security~~

~~counts for nothing because~~ a digital lock ~~has to~~ must protected you not just from

~~from~~ an burglar in ~~your~~ the neighborhood but all the burglars... everywhere —

for, on the Internet, there's no such thing as distance. Every burglar

can be at your door simultaneously — ~~in fact,~~ at everyone's door because

digital burglars don't crack the locks themselves, ~~they~~ but build burglar

bots to try billions of locks billions of times to ~~just~~ see what opens. A sending them

Thanks to Math

~~Fortunately, digital locks are different~~. Digital locks can be made 'un'

Burglar bots are fast guessers

breakable. ~~This is why websites pester you about passwords: they want~~

but a secure password

~~you to make something burglar bots won't crack — and a~~ {Q} password will

take longer than the heat death of the universe to crack. Functionally,

unbreakable.

Well-designed digital locks work even if a burglar gets their hands on

your phone: no matter how much of leet hacker your mom is, she can't see

your browser history. ~~While this is the greatest good possible:~~ it's *which might just be the greatest favor math has ever done mankind*

But it ↓

easy to imagine unbreakable digital locks as bad news:

Maximum lazy: ticking time bomb — the location and off code of which are *uncrackable phone*

~~lock~~ed on a dead man's phone.

Were the information on a piece of paper ~~in his house~~ *, no problem.*, ~~this wouldn't be~~

~~a problem:~~ society agrees this ~~is a~~ *under* reasonable ~~time to have~~ *for to* police break

scenario its

a ~~door~~ lock~~s~~ *real-world locks*

~~Interestingly~~ this means ~~the lock isn't weak~~ just physically but also

aren't *mech* *weak*

legally — We could live in a world ~~where police weren't allowed~~ *that forbids police* to break

locks, no matter how flimsy, but we don't, cuz that'd be dumb.

under all circumstances

~~Now~~ this ~~is where~~ gears ~~start~~ turning in governmental heads: if digital

legal weakness is what stops

locks are physically invulnerable, ~~then~~ maybe ~~we can make them~~ *legally*

they can be made

weak — to required that digital locks ~~are~~ built with a keyhole — highly

be

secure, top secret, for emergencies only, surely — but a keyhole

nonetheless. This is an idea that many, many governments are interested

in. *(To make selling or owning flawless locks illegal and to require)*

And governments rightly draw the parallel to physical locks: if a

warrant lets police into your house it should let police into your

phone. If your home is your castle, but the need pressing enough, ~~they~~ *the police*

~~ca~~n bring a battering ram. But there is no battering ram ~~that will~~ *to* crack

open the phone — not in a helpful way. *So legally require it.*

~~The legal maneuver here is to require all castles have backdoors, and~~

all locks have a ~~second keyhole~~. And while it's easy to see when this

but

would be useful, when it would save lives, we must now remember that

digital is different and that on the Internet there's no such thing as

distance — so digital locks must stand up to every threat in the world.

Even if your Xanadu government is a bureaucracy of the seraphim

incorruptible — nonetheless phones and computers manufactured there ~~are~~ *would have a keyhole the whole rest*
~~weak to the attacks of others.~~ *of the world will try to pick .*

The strength of digital locks is the foundation upon which the whole of

the Internet is built: banking, buying, blogging, vloging, tweeting,

beating, meeting all of this ~~stuff can happen securely~~ *is safe* because of

digital locks.

There's no way to have locks that only angels can open and demons

cannot. Those who tell you otherwise do so because they think you a

child to manipulate with a fairy tale.

The nature of keyhole**s** is to be cracked ~~and it matters not who installed~~

~~them.~~

Either our digital locks ~~can be~~ *are* made unbreakable or they ~~cannot not.~~ *are not*

There is no in between.