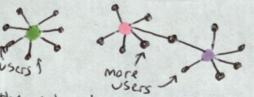
JONATHAN ZITTRAIN TALKS ABOUT THE INTERNET

E JE (not to be confued with Bayonce's husband)

he works at the Berkman Center For Internet & society (in Fact he co- Founded it) and dues a lot of Internet/law/policy WORK .

proprietary network

model IF you had phone line & compuserve subscription you could access proprietary compuserve services, essentially no 3rd-party tinkering. model = lots of proprietary networks (centralized) w/ little to no interconnectedness.



(the colored dots are the mainframes belonging to compuserve & Its ilk)

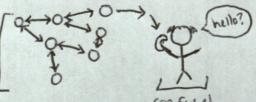
It's weird to think about an online experience w/o user-generated contenta huge Fraction of content on the internet not news outlets, corporations "regular people"or famous (Internet or IRL) people.

PC- to-PC networks

BBS - builterin board software, any computer can run it. callers to the computer hosting the board can both provide & consume info. only I user/line - users try to minimize time connected,

Suntil FIDOnet - every PC W/FIDONET is part of distributed network -posts eventually distributed to all network. didn't scale well (misdials to very confused old people) but demonstrated how effective ama teur innovation could be.

w/ FIDOnet



confused called by mistake)

legal provision for generativity AT&T has a monopoly on both phones and phone nerwork in early 1900s.

C) sues maker of Hush-a-phone (prevents eaverdropping); court rules that customers can physically alter phone handsets if those alterations don't harm phone system itself.

> 1959 - Carterfone (hook up radio to telephone) invented; AT ET sues; that rock up to the create / modify devias that hook up to the network result => DIAL-UP MODEM LEGAL (much later).

* FCC & other govit regulation of telecom is very important to openniss, neutrality, & generativity of the Internet 2 on the Flip side, Internet

this 15 WHERE I rant about my summer

700.

E) & this

15 me

some places in the U.S. Unlike say, south Korea, we haven't invested in broad band infrastructure (Fiber backbones & last-mill connections are good examples) on a national level. Because of explicit legislative regulation, municipalities in Mass, with 1FFY internet can build a administrate their own fiber networks. Part of the difficulty in getting this to happen is getting the governments OF SMAll towns in western mass, to see the Internet as vital in Frastructure, it's arguably something we haven't figured out yet on the national level yet either.

- Yay end-to-end-ness? It means (here) that the person browsing the Internet has to be that arbiter of their own experience - not composerve. or its ilk. which means you scroll through a lot of the same meme on Tumber, but it also means (theoretically) anyone can get heard on the internet. Even the time cube quy,

the Internet

cobblid together From university networks, US goit research units, telecom researchers. purpose was to connect anyone on the network to anyone else. since creators a were the people they were designing for,..

4) rough consensus in disputes (Jon Postel advocated for a "hum of consensus" in the room when making a decision)

4) little concern about malicious users

4) people didn't bant to work on making/maintaining things until actually necessary.

wow design is hard 1991 - Internet begins to accept commercial interconnections. tradeoffs are a function of how -Initially PCs didn't have functionality accessible endpoint device is to to connect to internet, but Peter 3rd party coding. Tattam released trumpet winsock less openness to 3rd party software > For point-to-point connectivity, simplicity, optimization to a purpose, - as people got onto the wider internet, proprietary model died. The companies but hard to adapt to new uses. Switched to ISP model - "on-ramp" to more generative - easier innovation. simples initial platform; broad Design assumptions of Internet range of applications" but must included the assumption that the users trust end user & inconsistent user had pretly much the same background experience. & values (Declaration of Independence WOF (yburspace). Used to be a Internet was made simple & John generative because! norming period ("eternal September") Perry Barlow when college Freshmen would get - procrastination principle: ajain. on the Internet & the people who problems w/ network can be solved later or by people who were already there had to deal are not me. nitwork shouldn't with their despiness, and influx of people into Internet became constant & concern itself w/ things users can unrelentingly large, this wasn't reasible. deal with Norms exist in smaller communities, 4) 18 4 CLARK, REED, SAITZER but not so much on the wider Internet, end-to-end paper I think. How do communities enforce * modularity & generativity. norms? even ecodiscuss has something approaching implicit rolls of engagement 4) trust for users (because of roots of 1 think ... Internet as built by engineers for engineers?) - low barrow to access; - how did the Internet not collapse under its generativity all data packets equal but hard to identify wrongoous or guarantee timely & unrestricted sharing. is it still true to its roots? packet delivery Ly can isps prioritize packets? book written in 18 - Foreshafows CI can't net neutrality debate. 9 Lan) agres have layers a so does the Internet i'm not going to recreate the pictures because I'm lazy, but partitioning the network or the computer into latters with nicely defined boundaries means that someone making a thing doesn't have to know how everything INEVERY layer works - they just mud to worry about I layer. IP (internet protocol) means that it's easy

(device & midium-wise) to get an internet connection.

Can even use carrier pigeons to transmit info, (RFC #1149) maximizes furibility for uses the people who built it couldn't invision