

CSC300

Computers in Society

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Who am I?

- I'm a software engineer, specializing in compilers.
 - BAsC, 1983 (Eng Sci computer option)
 - MASc, 1984 (Human Factors Engineering)
 - PhD, 2008 (JIT compilation)
- Have worked mostly in optimizing compilers since 1986
- Currently employed at Intel, working in Android for Atom 2.
 - Down to part time to teach this class. Why this course you ask?
- NOT professor. Call me "Mr" if you must. "Dr" if absolutely insist.
 - "Mathew" is preferred.

Who are you?

- HCI specialists?
- Other students of CS?
- Engineering students?
- Non CS or engineering?
- Sociology students?
- Philosophy students?
- Future Lawyers?
- Anybody else that wants to self-identify?

Basic Info

General Information

Lectures: L0101 Wed 3-5pm SS2127

Tutorials: Wed 5-6

SS2127 (if combined)

T0101a SS1084

T0101b SS1086

Office Hours

(let's discuss)

Website

(discuss)

Rough Plan

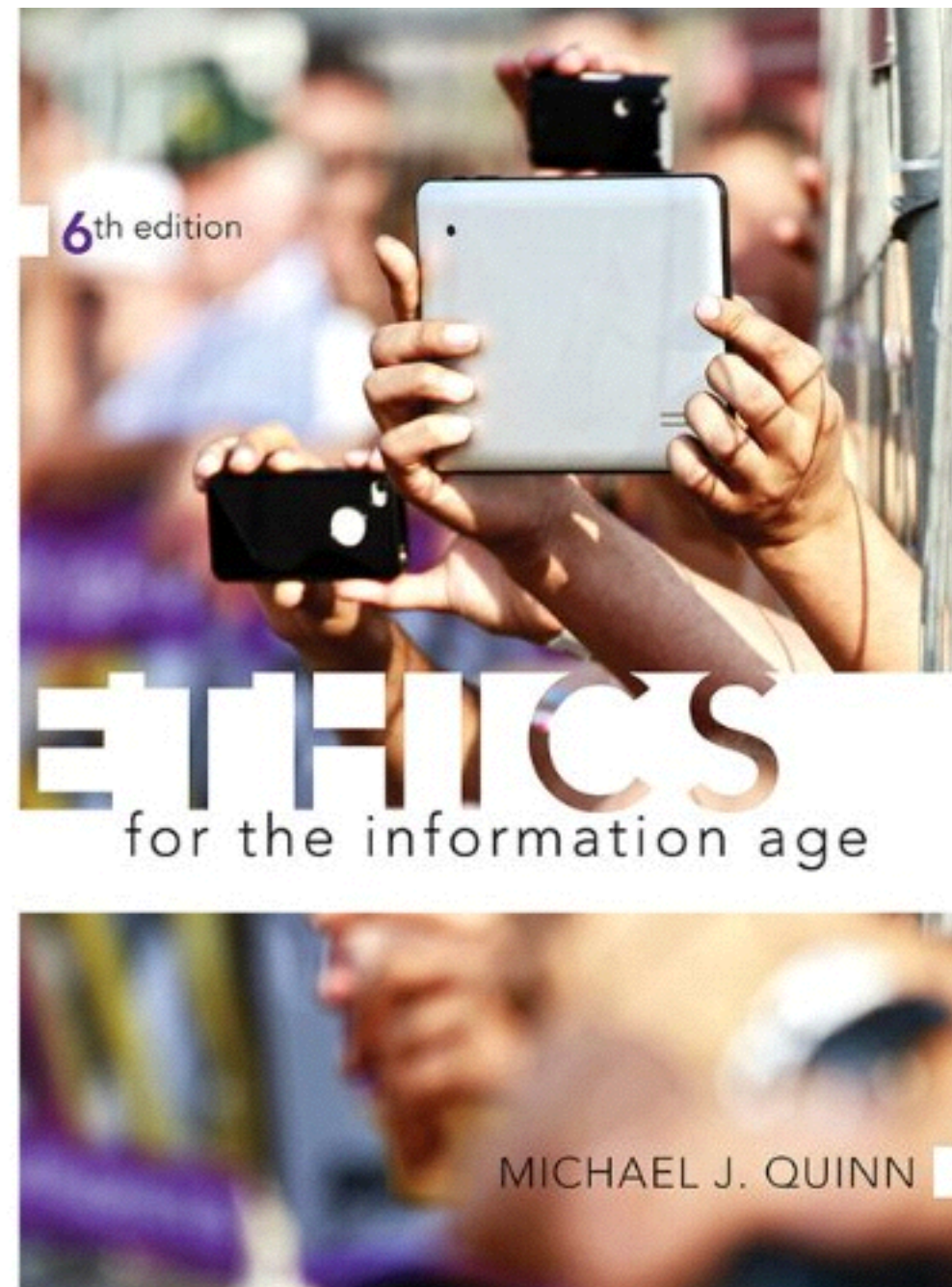
- Readings are important.
 - Lectures will not even vaguely stand on their own
- Real, honest to goodness, essay
 - TA Alicia Grub is literacy specialist
- Debates in tutorial
 - Typically, morals of real world scenarios will be debated
- 3 hour written question exam

Mark breakdown

	Weight	Out	Due
Participation	10%		
Mid-Term Debate	20%		Oct 22/29
Essay I - Proposal	10%	Oct 1	Oct 8
Essay II - Ethical Framework	15%	Oct 8	Oct 29
Essay III - Final Report	15%	Nov 5	Nov 19
Final Exam	30%		

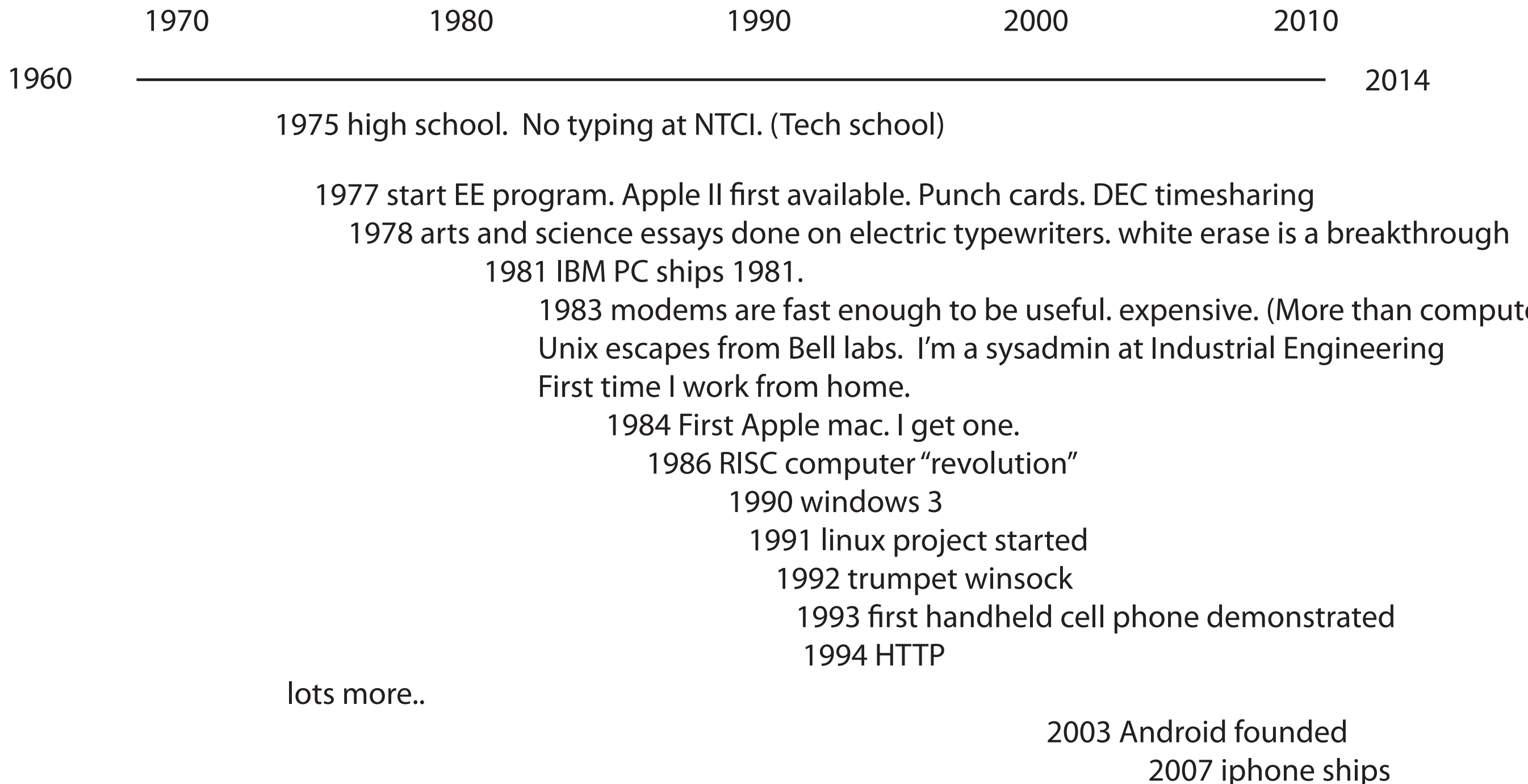
what do you-all think of “clickers”?

Quinn M, Ethics for the Information Age, Pearson



NB 180 day rental [coursesmart.com](https://www.coursesmart.com)

The technology wave hit my cohort hard



Goals

- We can discuss this right now! What do you want to learn?
- Ethics? How to decide what is right vs wrong?
- Intellectual property, digital rights management
- Copyright. *Really?*
 - Tradeoff between encouraging new product and what's right
- Open source vs proprietary
- Writing prose argument

Arpanet

- US Department of Defense - 1969
- Opened to commercial interests in late 80s

Internet - the 80s

- UNIX / C / sockets
- Mail, Bitnet, Usenet, DNS

World Wide Web

- HTTP by Tim Berners-Lee in 1989
 - No browser or https until ~1994
- CERN: looking for a way to *share* information
- Collection of standard protocols for moving content
- Managed by the W3C

Internet - the 90s

- Netscape - 1995
- Javascript
 - Javascript is NOT java!
- Sessions -> first web apps
- Web Services -> distributed systems
- XML -> data on the web

Internet - the 00s

- APIs
- Distributed Systems
- Vertical Integration
- Social Web

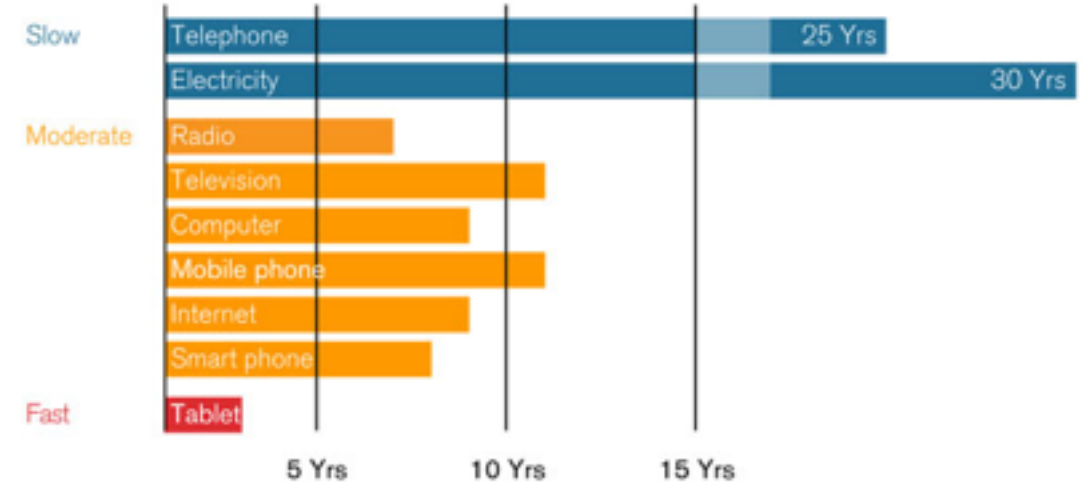
Mobile

- iPhone
- sensors
- cloud services

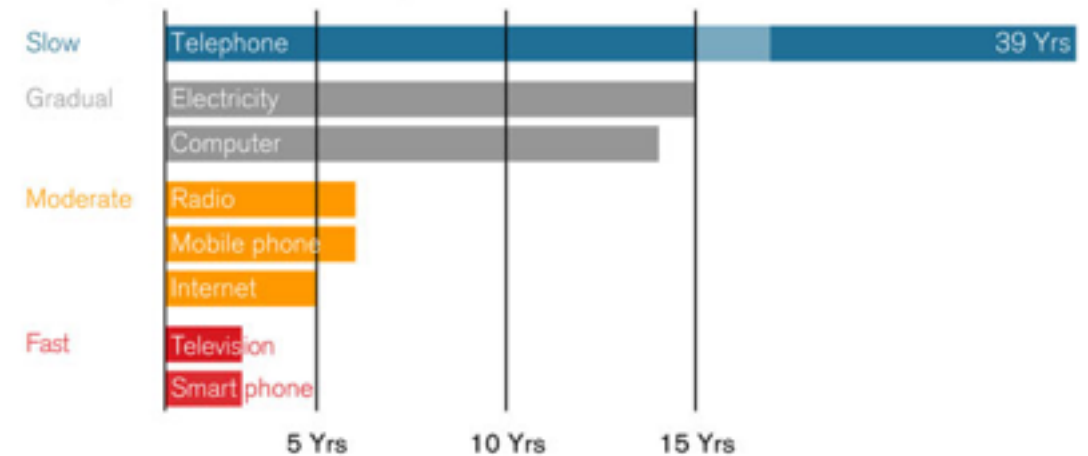
U.S. Technology Adoption Rates

U.S. market penetration for nine technologies shows the speed at which they gained traction, reached maturity, and achieved saturation. Data through 2010.

Traction: Time from consumer availability to 10% penetration

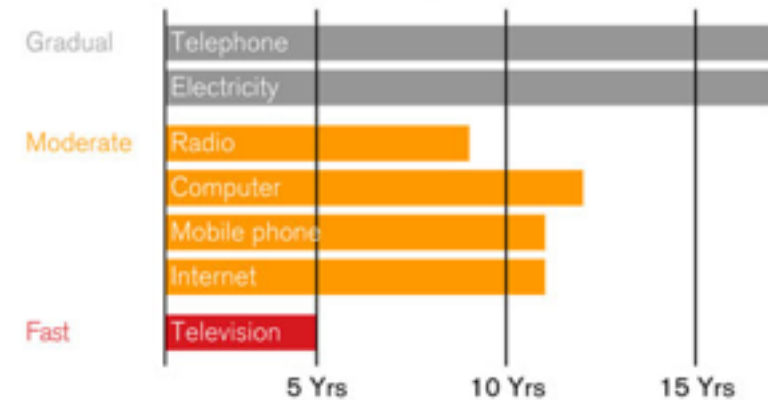


Maturity: Time from 10% to 40% penetration



Tablets are omitted, having achieved the 10% traction threshold in 2011.

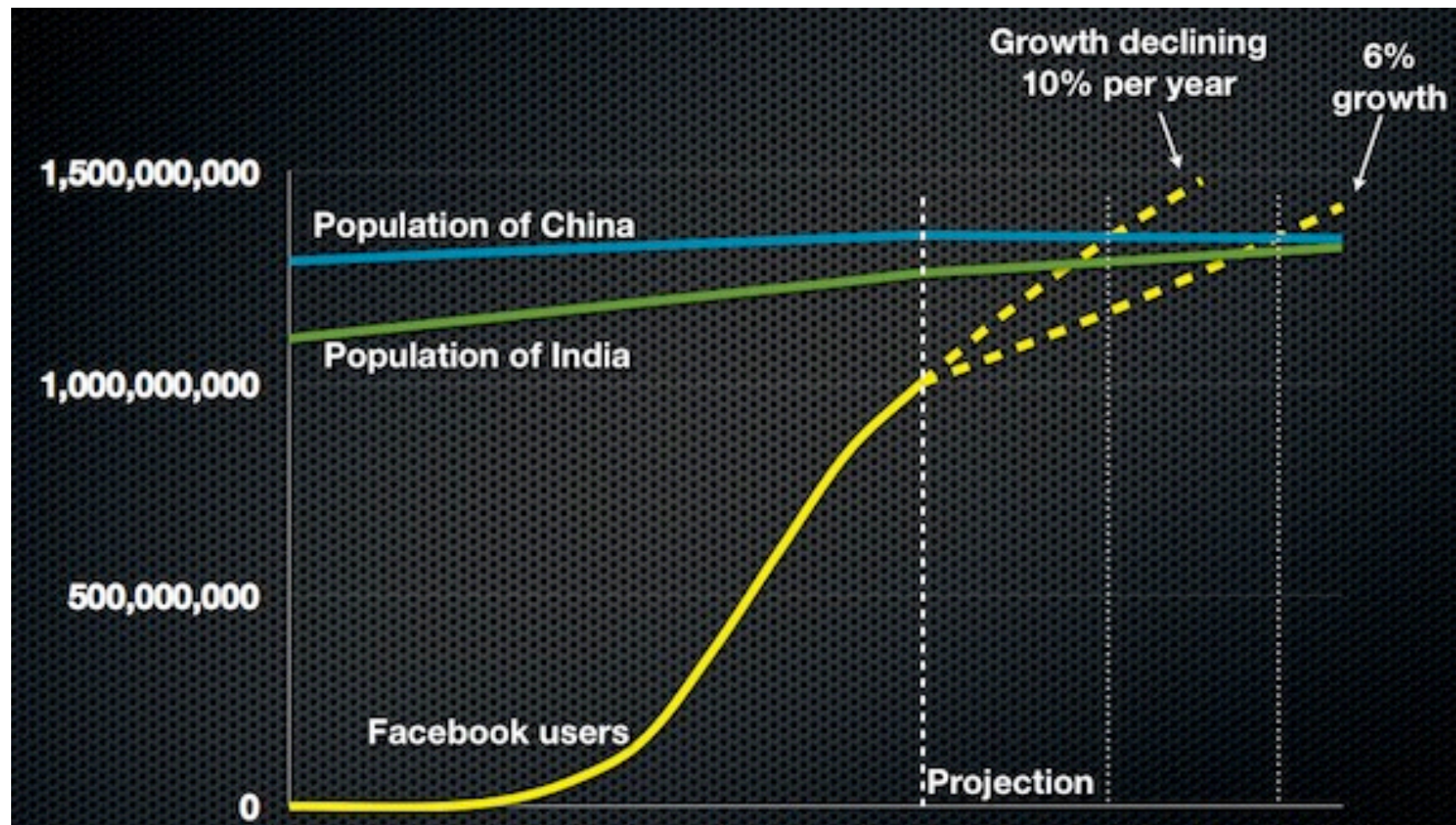
Saturation: Time from 40% to 75% penetration



Smart phones are omitted, having achieved the 40% maturity threshold in 2011.

Sources: ITU, New York Times, Pew, Wall Street Journal, U.S. Census Bureau

*Market penetration is percent of U.S. households (telephone, electricity, radio, TV, Internet) or percent of U.S. consumers (smart phone, tablet).



<http://royal.pingdom.com/2013/02/05/facebook-2016/>