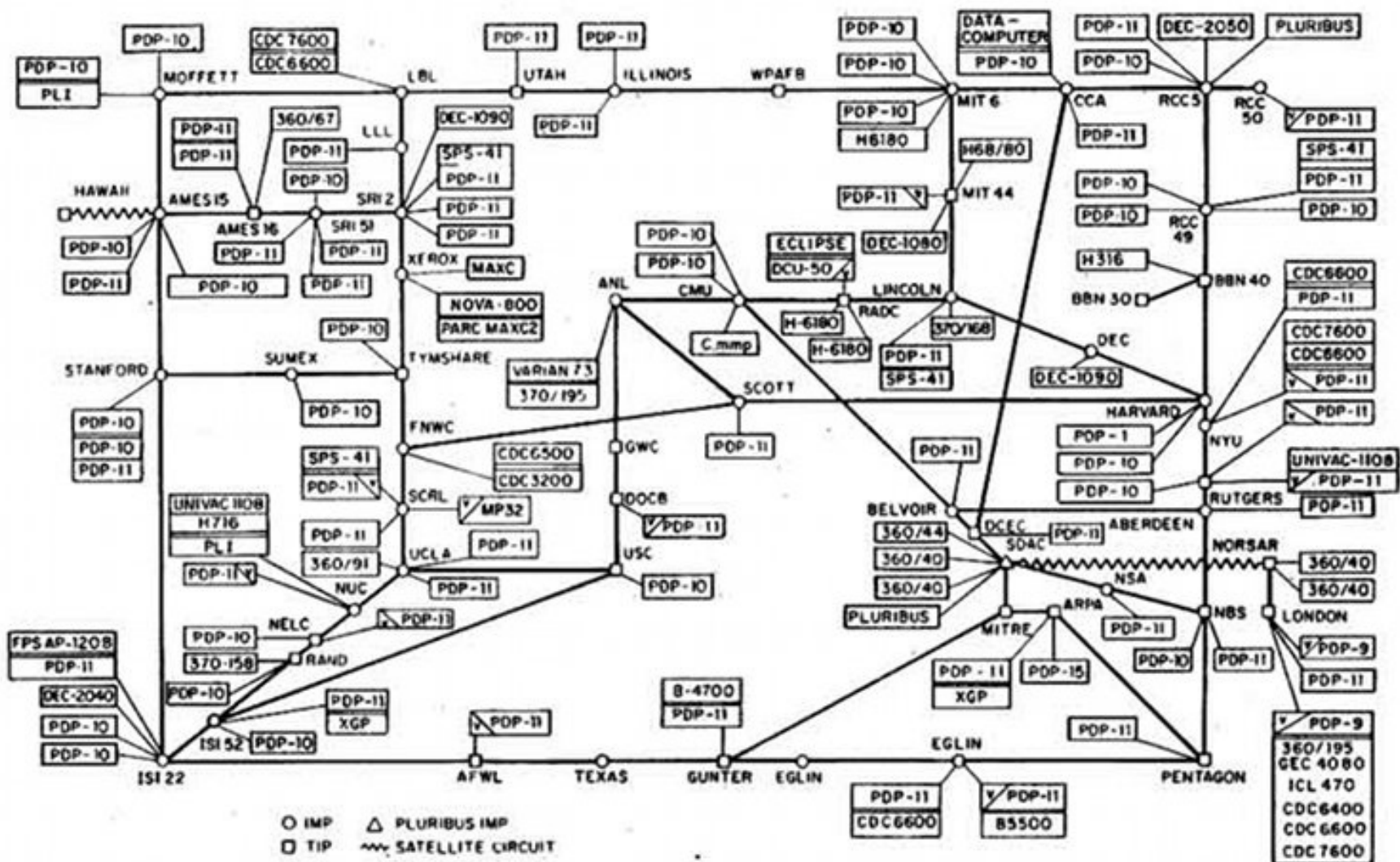


Optimism and
stupidity are
nearly
synonymous.

Hyman G. Rickover

meetville.com

ARPANET LOGICAL MAP, MARCH 1977



(PLEASE NOTE THAT WHILE THIS MAP SHOWS THE HOST POPULATION OF THE NETWORK ACCORDING TO THE BEST INFORMATION OBTAINABLE, NO CLAIM CAN BE MADE FOR ITS ACCURACY)

NAMES SHOWN ARE IMP NAMES, NOT (NECESSARILY) HOST NAMES

And Future Growth is Staggering

Activity	Value
639,800 GB of global IP data transferred	(Main path start)
Botnet infections	135
New Wikipedia articles published	6
New mobile users	1,300
Emails sent	204 million
New victims of identity theft	20
Apps	47,000
Amazon (in sales)	583,000
Pandora	(Block present, no value)
LinkedIn (New LinkedIn accounts)	100+
Flickr (Logins)	277,000
Twitter (Facebook views)	6 million
Facebook (Search queries)	2+ million
Google	(Block present, no value)
YouTube (Video views)	1.3 million
Hours of music	61,141
Photo views	20 million
New Twitter accounts	320+
New tweets	100,000
Photo uploads	3,000
Hours of video uploaded	30

intel

The infographic is divided into two main sections. The left section, titled 'Networked devices', compares the current number of networked devices to the global population (represented by a person icon on a globe) and projects a doubling by 2015 (indicated by a '2x' multiplier). The right section, titled 'IP network traffic', shows a large red arrow pointing right, labeled 'IP', indicating the volume of traffic, and states that it would take 5 years to view all video crossing IP networks each second.

Networked devices

Today, the number of networked devices = the global population

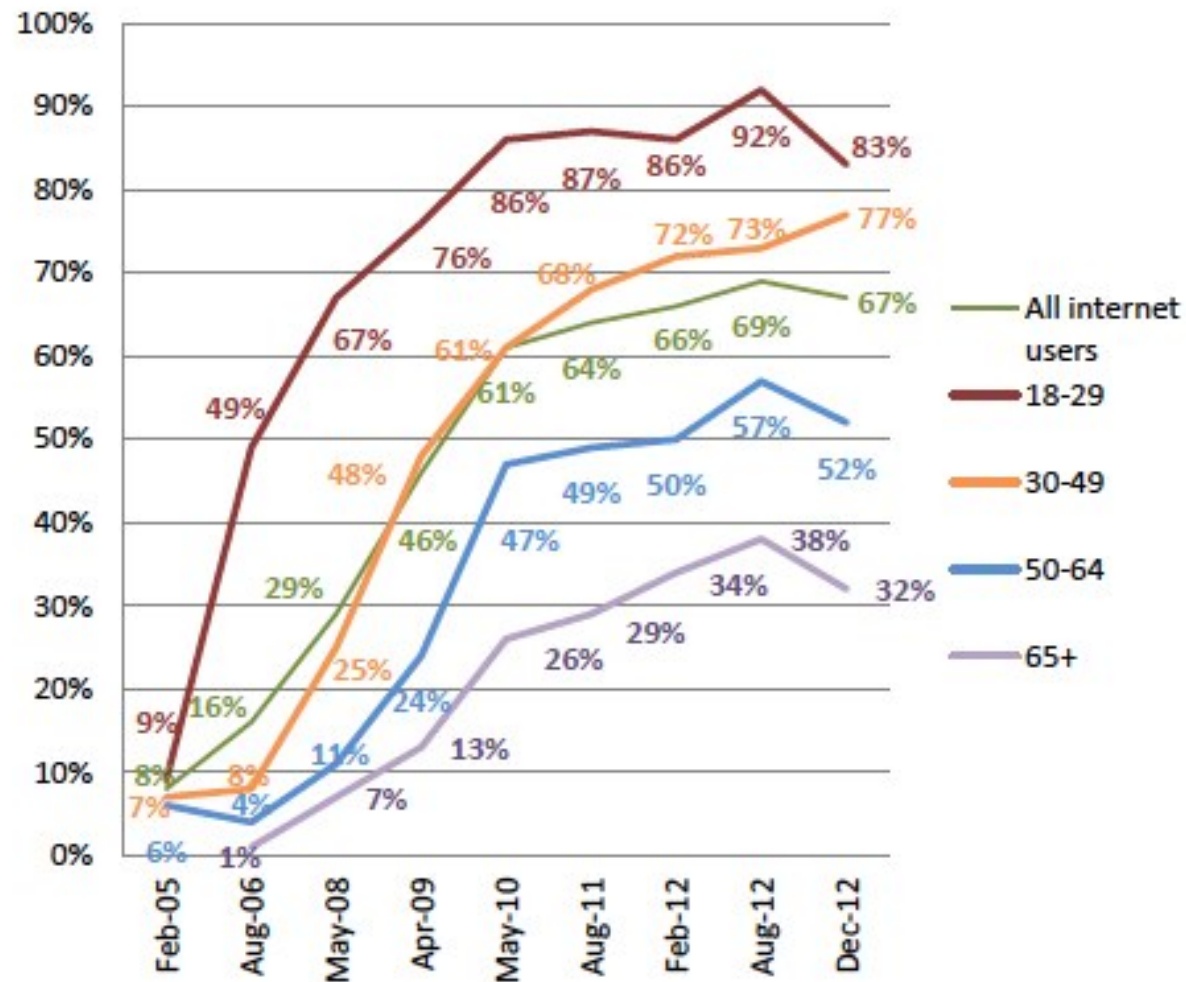
By 2015, the number of networked devices = 2x the global population

IP network traffic

In 2015, it would take you 5 years to view all video crossing IP networks each second

Social Networking Site Use by Age Group, 2005-2012

% of internet users in each age group who use social networking sites

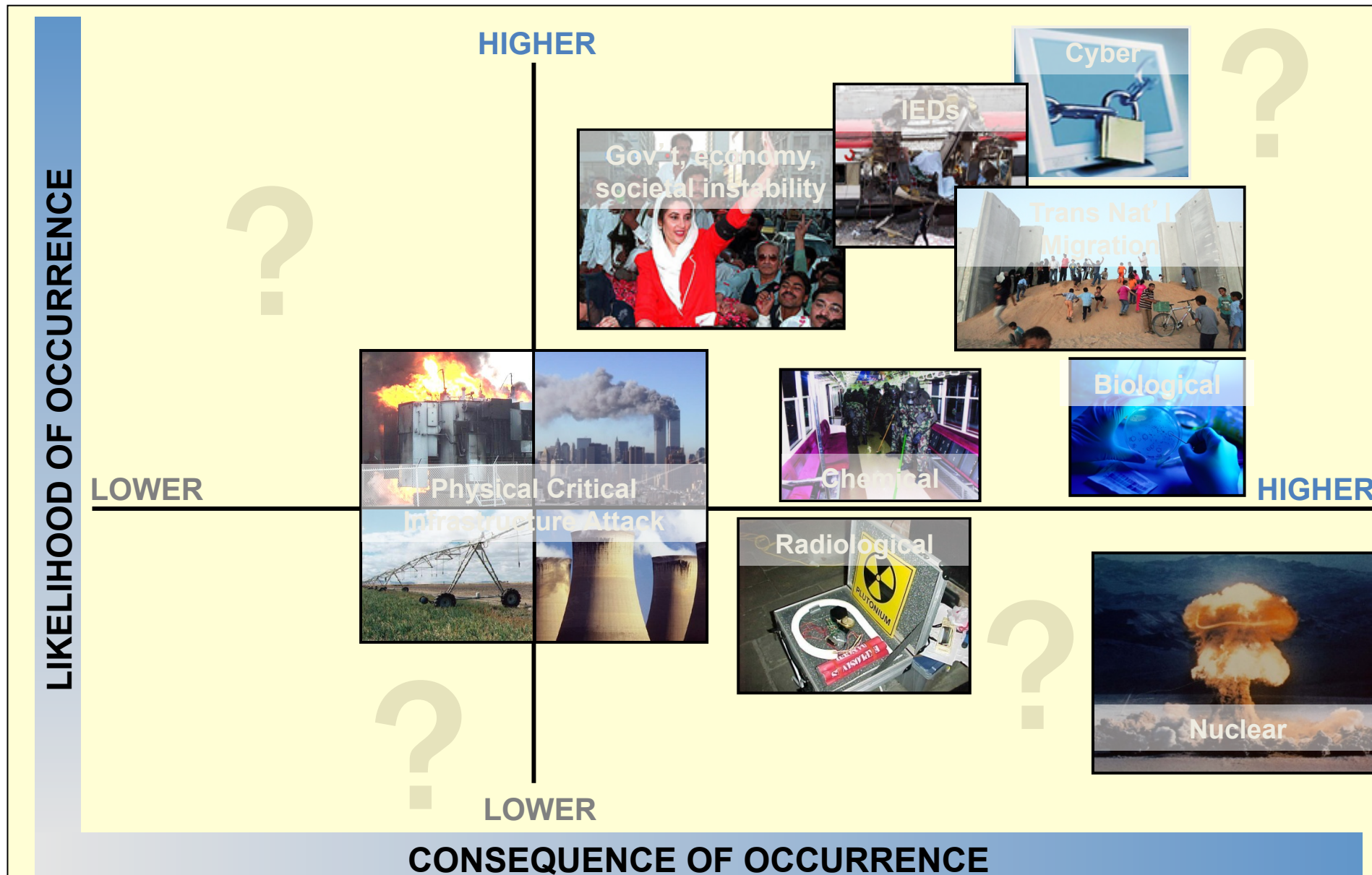


Source: Pew Research Center's Internet & American Life Project surveys, 2005-2012

“As a futurist, I try to think beyond the designers notes when it comes to the impacts of emerging technologies. I find that it’s often useful to imagine the unintended, seedy, improper, or illicit uses of new tools and systems. How might Invention X be hacked? How could it facilitate a user having disproportionate power over another person? How will it be used to help the user have sex? How would it enable someone to commit a crime? Thinking along those lines can help to uncover the more subtle connections between a new technology and incumbent systems, spot hidden security flaws, or even reveal markets for a product that the developer had ignored.”

- See more at: <http://www.henshall.com/stuart/2013/07/16/to-predict-the-future-of-technology-figure-out-how-people-will-use-it-illegally-always-unintended-consequences/#sthash.fcSvjrrH.dpuf>

TERRORIST ROADMAP



BOMBS, BORDERS, BUGS, AND BUSINESS

Your government at work....



If you are going to
sin, sin against God,
not the bureaucracy.
God will forgive you
but the bureaucracy
won't.

meetville.com

Hyman G. Rickover

Patchwork Statutory Environment

Statute

- Title II, Homeland Security Act (Title II, Public Law 107-296)
- Federal Information Security Management Act (FISMA)
- Section 706, Communications Act of 1934, as amended (47 U.S.C. 606)
- Defense Production Act of 1950, as amended

Executive Order

- Executive Order 12382: *President's National Security Telecommunications Advisory Committee*
- Executive Order 13618: *Assignment of National Security and Emergency Preparedness Communications Functions*
 - Executive Order 12656 "Assignment of Emergency Preparedness Responsibilities" (November 18, 1988)
- E.O. 13286 "An Amendment of Executive Orders and Other Actions in Connection with the Transfer of Functions to the Secretary of Homeland Security" (February 28, 2003)

Presidential Directive

- HSPD-7: *Critical Infrastructure Identification, Prioritization, and Protection*
- National Security Presidential Directive (NSPD) 51/HSPD-20: *National Continuity Policy*
 - NSPD-54/HSPD-23: *Cybersecurity Policy*

Policy Order

- Quadrennial Homeland Security Review (QHSR) identified securing cyberspace as one of the DHS top 5 mission areas
 - Cyberspace Policy Review
 - National Infrastructure Protection Plan

Memo of Delegation

- Office of Management and Budget Guidance on FISMA M-04-25
- OMB Guidance on Trusted Internet Connections initiative M-08-05
- OMB M 10-28: Clarifying Cybersecurity Responsibilities and Activities of the Executive Office of the President and the Department of Homeland Security (DHS)

President's IT Budget for FY 2015

Agency	IT Spending (\$ Millions)			FY 14 to FY 15 Change	
	2013 (PY)	2014 (CY)	2015 (BY)	\$ Millions	% Change
U.S. Army Corps of Engineers	\$478	\$445	\$634	\$189	42.38%
Department of Commerce	\$1,819	\$1,890	\$1,990	\$100	5.29%
Department of Education	\$590	\$683	\$697	\$14	2.10%
Department of Veterans Affairs	\$3,485	\$3,852	\$4,032	\$180	4.67%
Department of the Treasury	\$3,448	\$3,503	\$3,971	\$468	13.36%
Environmental Protection Agency	\$392	\$402	\$441	\$38	9.50%
Office of Personnel Management	\$85	\$96	\$95	(\$)	-0.45%
Department of Labor	\$552	\$581	\$611	\$31	5.20%
Department of Homeland Security	\$5,343	\$5,816	\$5,813	(\$3)	-0.06%
Small Business Administration	\$100	\$102	\$109	\$7	7.05%
Department of State	\$1,354	\$1,427	\$1,460	\$33	2.28%
Department of Transportation	\$3,060	\$3,290	\$3,283	(\$7)	-0.20%
National Science Foundation	\$98	\$99	\$103	\$4	3.86%
Smithsonian Institution	\$60	\$60	\$63	\$2	4.10%
Social Security Administration	\$1,489	\$1,667	\$1,538	(\$129)	-7.74%
Department of Agriculture	\$2,592	\$2,580	\$2,611	\$30	1.18%
National Aeronautics and Space Administration	\$1,432	\$1,399	\$1,442	\$42	3.01%
U.S. Agency for International Development	\$125	\$117	\$126	\$9	7.46%
Department of Health and Human Services	\$8,576	\$9,596	\$8,627	(\$968)	-10.09%
Department of Justice	\$2,523	\$2,493	\$2,470	(\$23)	-0.91%
Department of the Interior	\$1,015	\$1,022	\$989	(\$32)	-3.14%
Department of Energy	\$1,498	\$1,497	\$1,453	(\$44)	-2.96%
Nuclear Regulatory Commission	\$161	\$152	\$152	\$0	0.02%
General Services Administration	\$698	\$593	\$572	(\$21)	-3.53%
National Archives and Records Administration	\$118	\$102	\$93	(\$9)	-8.81%
Department of Housing and Urban Development	\$381	\$290	\$281	(\$9)	-2.97%
Subtotal for Major Civilian Agencies	\$41,273	\$43,754	\$43,655	(\$99)	-0.23%
Department of Defense	\$36,624	\$37,644	\$35,370	(\$2,275)	-6.04%
Total IT Investments for Federal Government	\$77,897	\$81,398	\$79,025	(\$2,374)	-2.92%



<https://www.itdashboard.gov/trends>

Follow the Money!

State revenues and budgets are projected to increase in FY 2014 and into the near future as states continue along their road of recovery and growth. As a result of steadily improving financials, there is additional good news regarding IT budgets and spending in the states.

State IT budgets are back on the rise, after some tumultuous times during the recession and recovery. Quite simply, states are restoring IT spending, re-funding old projects and approving new projects. This growth is in stark contrast to federal spending and will provide some relief to contractors willing to engage with the states

http://www.defensedaily.com/verizons-annual-breach-report-finds-92-percent-of-attacks-follow-nine-basic-patterns/?hq_e=el&hq_m=2872845&hq_l=5&hq_v=01a9fd4cc9

TEN SKILLS FOR THE FUTURE WORKFORCE



1 SENSE-MAKING

DEFINITION: *ability to determine the deeper meaning or significance of what is being expressed*



3 NOVEL & ADAPTIVE THINKING

DEFINITION: *proficiency at thinking and coming up with solutions and responses beyond that which is rote or rule-based*



5 COMPUTATIONAL THINKING

DEFINITION: *ability to translate vast amounts of data into abstract concepts and to understand data-based reasoning*



7 TRANSDISCIPLINARITY

DEFINITION: *literacy in and ability to understand concepts across multiple disciplines*



9 COGNITIVE LOAD MANAGEMENT

DEFINITION: *ability to discriminate and filter information for importance, and to understand how to maximize cognitive functioning using a variety of tools and techniques*



2 SOCIAL INTELLIGENCE

DEFINITION: *ability to connect to others in a deep and direct way, to sense and stimulate reactions and desired interactions*



4 CROSS-CULTURAL COMPETENCY

DEFINITION: *ability to operate in different cultural settings*



6 NEW-MEDIA LITERACY

DEFINITION: *ability to critically assess and develop content that uses new media forms, and to leverage these media for persuasive communication*



8 DESIGN MINDSET

DEFINITION: *ability to represent and develop tasks and work processes for desired outcomes*



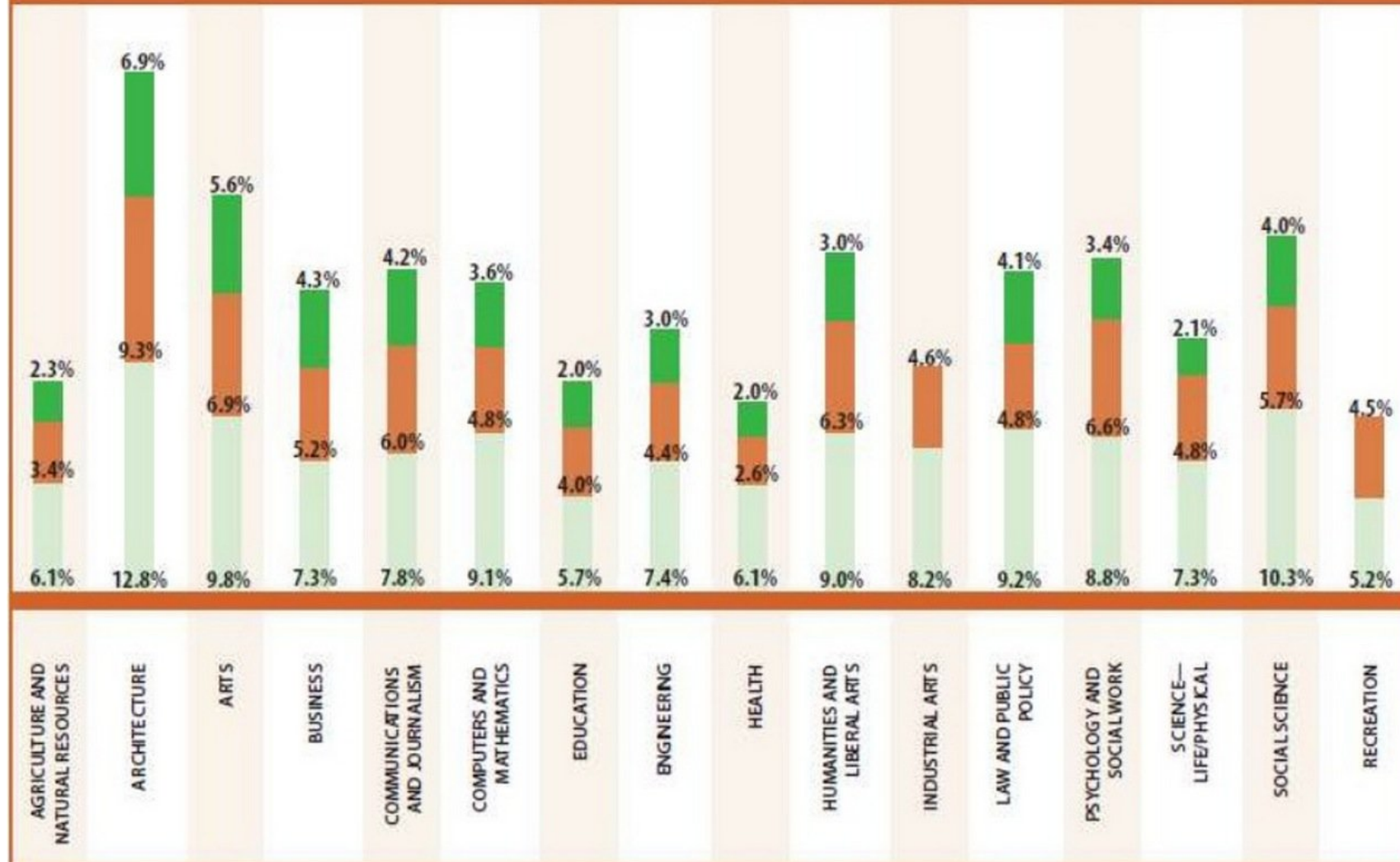
10 VIRTUAL COLLABORATION

DEFINITION: *ability to work productively, drive engagement, and demonstrate presence as a member of a virtual team.*

MEDIAN EARNINGS, 2010-2011



UNEMPLOYMENT RATES, 2010-2011

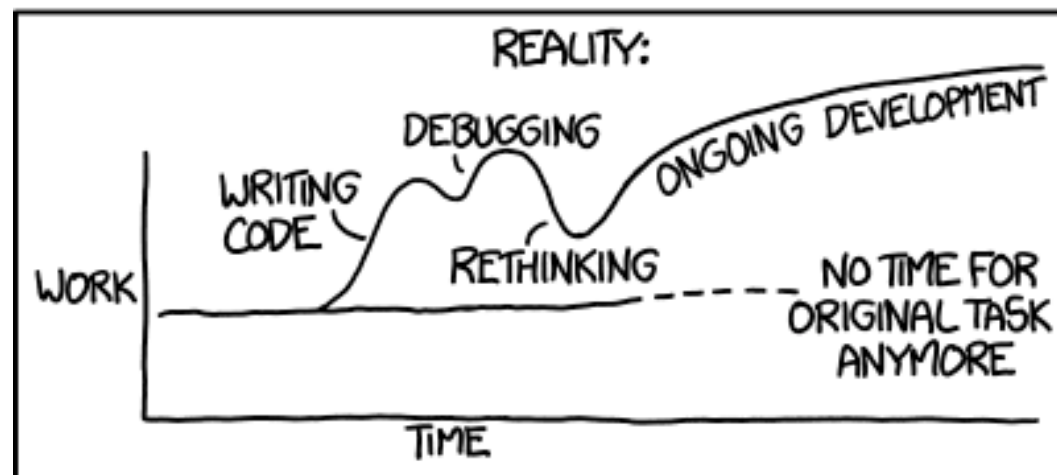
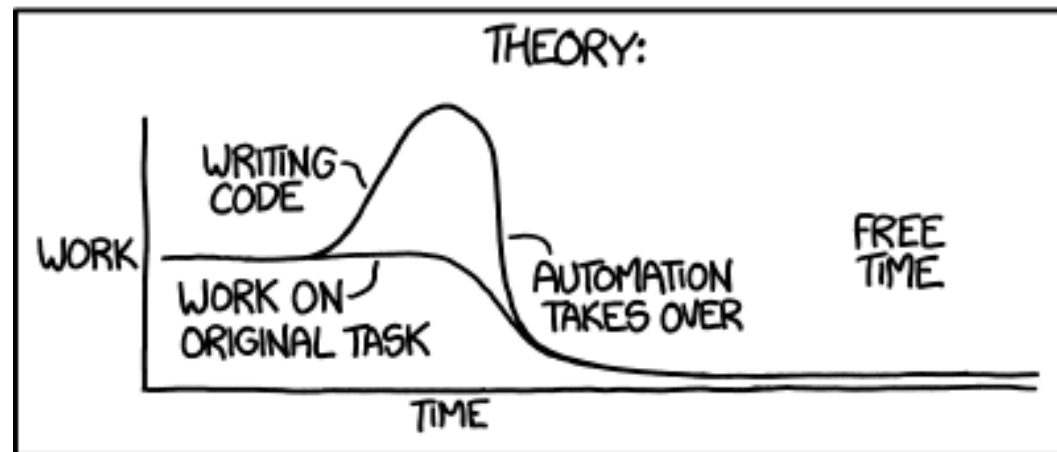


RECENT COLLEGE GRADUATE

EXPERIENCED COLLEGE GRADUATE

GRADUATE DEGREE HOLDER

"I SPEND A LOT OF TIME ON THIS TASK.
I SHOULD WRITE A PROGRAM AUTOMATING IT!"



Top Ten Strategic Technology Trends for 2014 :

- Mobile Device Diversity and Management
- Mobile Apps and Applications
- The Internet of Everything
- Hybrid Cloud and IT as Service Broker
- Cloud/Client Architecture
- The Era of Personal Cloud
- Software Defined Anything
- Web-Scale IT
- Smart Machines
- 3-D Printing

The Devil is in
the details,
but so is
salvation.

Hyman G. Rickover

meetville.com

Murphy's OTHER 15 Laws

1. Light travels faster than sound. This is why some people appear bright until you hear them speak.
2. A fine is a tax for doing wrong. A tax is a fine for doing well.
3. He who laughs last, thinks slowest.
4. A day without sunshine is like, well, night.
5. Change is inevitable, except from a vending machine.
6. Those who live by the sword get shot by those who don't.
7. Nothing is foolproof to a sufficiently talented fool.
8. The 50-50-90 rule: Anytime you have a 50-50 chance of getting something right, there's a 90% probability you'll get it wrong.
9. It is said that if you line up all the cars in the world end-to-end, someone from California would be stupid enough to try to pass them.
10. If the shoe fits, get another one just like it.
11. The things that come to those who wait, may be the things left by those who got there first.
12. Give a man a fish and he will eat for a day. Teach a man to fish and he will sit in a boat all day drinking beer.
13. Flashlight: A case for holding dead batteries.
- 14 . God gave you toes as a device for finding furniture in the dark.
15. When you go into court, you are putting yourself in the hands of twelve people, who weren't smart enough to get out of jury duty.

“Flexibility is the Key to Success!”

