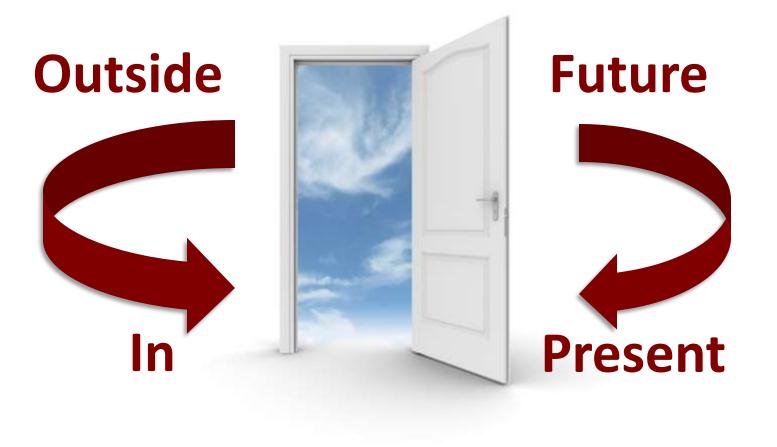
Become the Employee of the Future



Designed by Garry Golden Forward Elements, Inc **Designed for** Brooklyn College

> **PDF Copy of Presentation:** www.garrygolden.net/BC2013



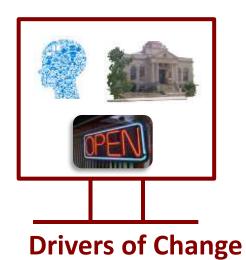


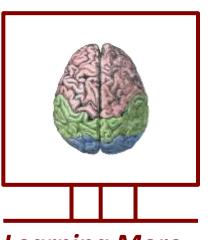
Mission: Get a Degree <u>Outputs</u> focus on Courses & Degree

Mission: Become a Learner Outcomes focused on Behavior Change around Skills-building

Start







Learning More

Not Changing?





Who is this Futurist' guy?



You will inherit a large sum of money





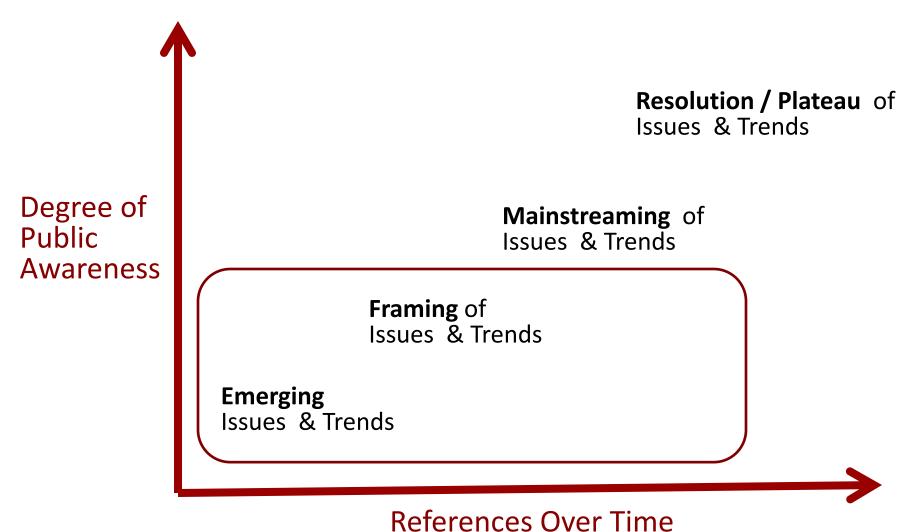
WAIT FOR IT

......Wait for it.....

SMORE DIFFICULT LESS DIFFICULT \$ 9/22/1

Every day I make an effort to go toward what I don't understand. Yo-Yo Ma

Understanding Trend Diffusion within Society



Understanding Trend Diffusion within Society



The Harvard Crimson

2004

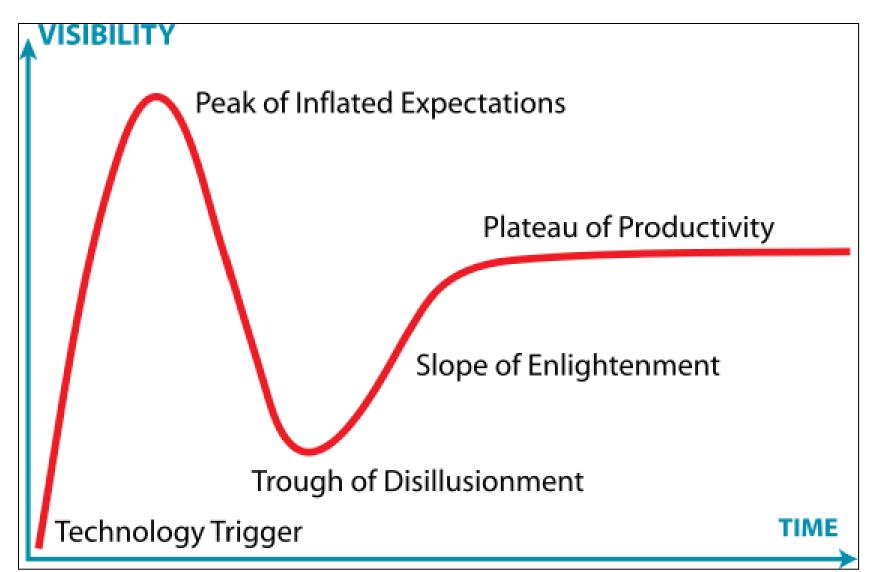
Hundreds Register for New Facebook Website

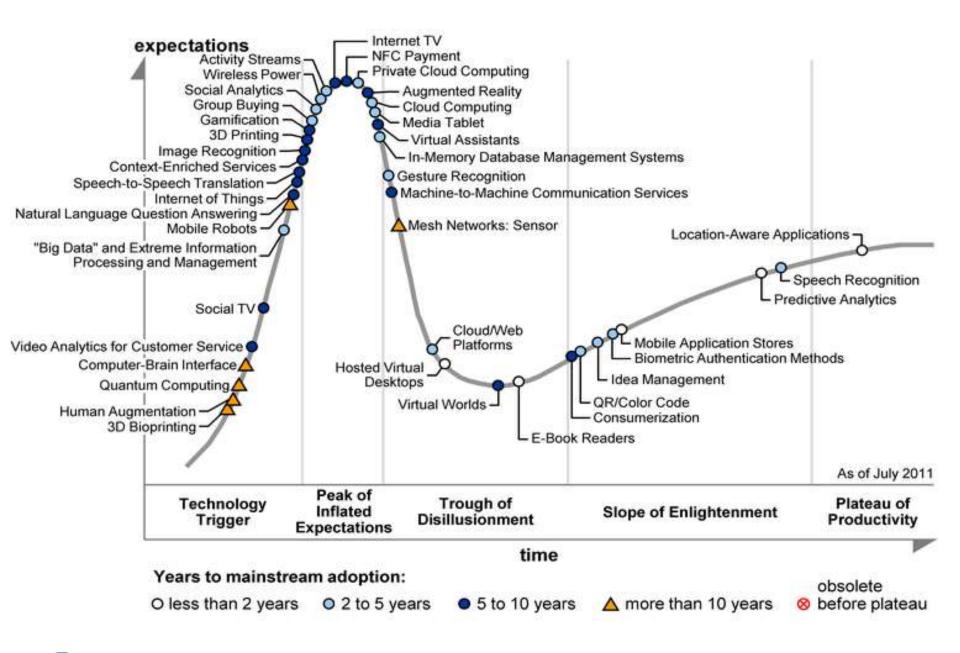
Facemash creator seeks new reputation with latest online project

By ALAN J. TABAK, CRIMSON STAFF WRITER Published: Monday, February 09, 2004

Translating Signals of Change

Gartner. Hype Cycle™





Gartner. Learn More: <u>http://www.gartner.com/technology/research/hype-cycles/</u>

What are the things we do not understand about the Future of Work?



High Uncertainty & High Impact

- Globalization
- Demographic Transitions (Aging / Youth Surge)
- Level of Employer / Employee Loyalty
- Level of Collaboration (Humans / Machines)
- Key Skills vs On-Demand Learning
- Types of Jobs
- Disruptive Technologies (Information; Cognitive; Neuro-; Bio-)

Beyond 2015 South to South Economy = Global Interdependence

1950s-1990 West to West Economy = National Independence 1990s-2000s East to West = Low Cost Outsourcing

The Upsides & Downsides of an Aging of Society

Demographics (Part One)

MoneyGame A Chart of the Day Percent Job Losses In Post WWII Recessions Percent Job Losses Relative To Peak Employment Month -1948 - 1953 - 1957 - 1960 - 1969 - 1974 - 1980 - 1981 - 1990 - 2001 - 20071.0% 0.0% -1.0% Jobs Market -2.0% -3.0% -4.0% -5.0% Current Employment **Dotted Line** -6.0% Recession ex-Census Hiring -7.0% 0 10 46 48 50

Number of Months After Peak Employment http://www.calculatedriskblog.com/

Work & Digital Fluency 1995 – 2010 & Beyond



Lotus Notes 4.0







Learning Systems









Web 3.0 Services & Behavior Change

Tip #1: Prepare for Uncertainties & Dynamics Changes in a Global Age of Work





In the News

The visionary entrepreneur has leaked plans on –what Esquire is calling - *Galactic Inner Space*: retreat centers aimed at individuals seeking

How do we bring new mindset and habits to managing stress in workplace?



True

False

The Manufacturing Institute intends to create a National Manufacturing Badge System, recognizing the wide range of skills, competencies, capacities, qualities and achievements students and workers based to be successful in today's How do we rethink the role of certifications in showing our commitment to lifelong learning?

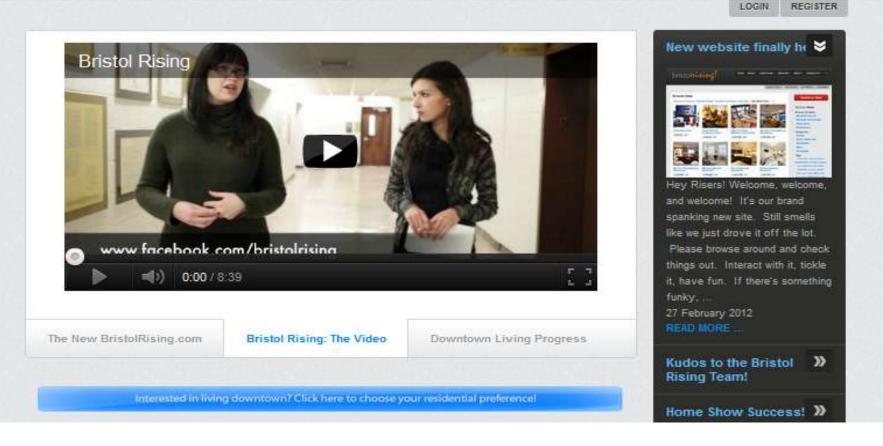












HOME





A Verizon employee was recently caught outsourcing his daily work to a software programmer in China whom he paid directly from his own salary.







False

What are the ways we can sell our 21st Century skill sets and mindsets?



Tip #2: Going Beyond the Resume

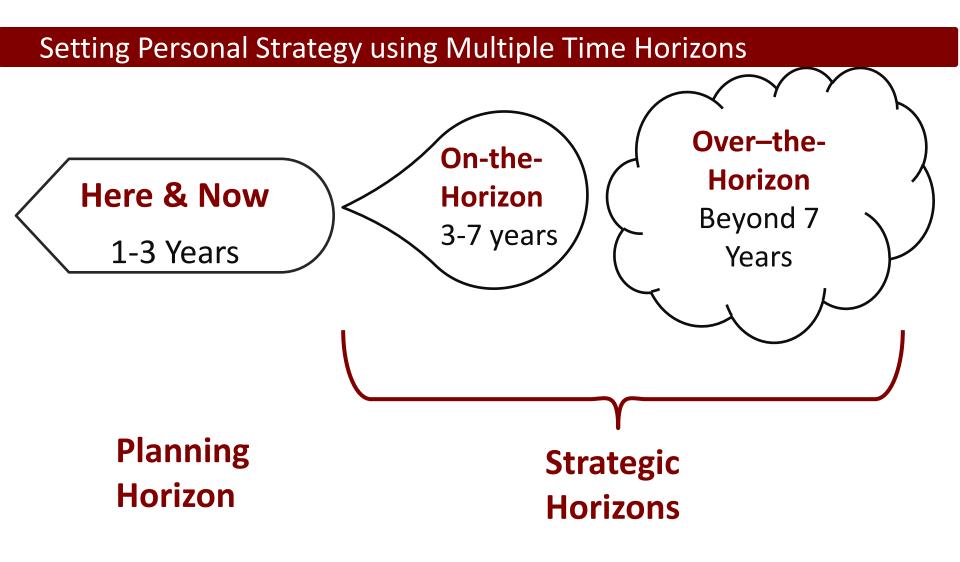


Tip #3: Show Your Breadth of Skills

Ability to Apply Broadly Across Situations & Disciplines

Depth of Subject Expertise

Example of Breadth of T-Shaped Communication / Presentation / **Storytelling Collaboration Experiences** Ethnography / Sociology Data Science & Visualization Analytics & Modeling **Psychology / Behavior Change** User Experience Design Arts Education



Employee of the Future I am someone who can...

- Reframe Problems
- Stand at Intersections of Change
- Collaborate & Automate
 - (= Be Transparent & Accountable)
- Turn Data into Knowledge & Wisdom
- Tell Stories

Redefining the Problem





Reframe this Problem







Flip the Learning Experience







Era of Apprenticeship

Era of Institution Era of Learner



Disruptions of Books & Industrial Work Disruptions of Web & Knowledge Economy



Saul Kaplan @skap5 18K applied to MIT 1600 were admitted. Flip the tunnel. 155K signed up for EdX Circuits & Electronics class. Agarwal # NEBHE







Massive Open Online Courses MOOCs

UDUCITY

The Learning & Mastery Marketplace

Community-led Learning Experience

SKILLSHARE

A platform to learn anything, from anyone.



Web-based MOOC **Massive Open Online Courses**



JOUCITY



134.588



Line 🎙 datis Game P 404

24,105 +

Tip #1: Prepare for Uncertainty in Age of Globalization Tip #2: Going Beyond the Resume: Portfolios & Presence Tip #3: Show Your 'T-Shaped' Breadth of Skills **Tip #4:**

Expand Your Base of Teachers & Learning Communities









Reframe this Problem



Cost of Ownership vs Access



zipcars

live in your neighborhood



Drive by the hour or day from \$9/hr! Gas, parking and insurance included.

GM vehicle owners can rent out their vehicle with RelayRides

OnStar

GM



RelayRides



I have a car:

Enroll: A GM car owner decides to enroll his car in RelayRides

Schedule: He sets both the car's availability and the rates

Drive: He sits back, and makes the easiest cash he's ever earned



I need a car:

Enroll: A woman living without a car signs up with RelayRides to gain access to affordable wheels in her neighborhood

Schedule: She searches RelayRides' online marketplace for available cars that meet her needs

Drive: She can use an application* on her phone to unlock the car through OnStar technology

Everybody Wins: He earns some much needed cash. She gets access to wheels when she needs them. Everybody wins!





2008

Today





What problems would you redefine?



Employee of the Future I am someone who can...

- Reframe Problems
- Stand at Intersections of Change
- Collaborate & Automate
 - (= Be Transparent & Accountable)
- Outcomes-Focused
 Turn Data into Knowledge & Wisdom
 Toll Storios
- Tell Stories



Intersection of

Robotics & Warehouse (Logistics & Fulfillment)







Intersection of Fashion & Wearable Technologies & Behavior Change





Intersections [Fill in the blank] + [Fill in the Blank]

Intersections with Aging Baby Boomers +

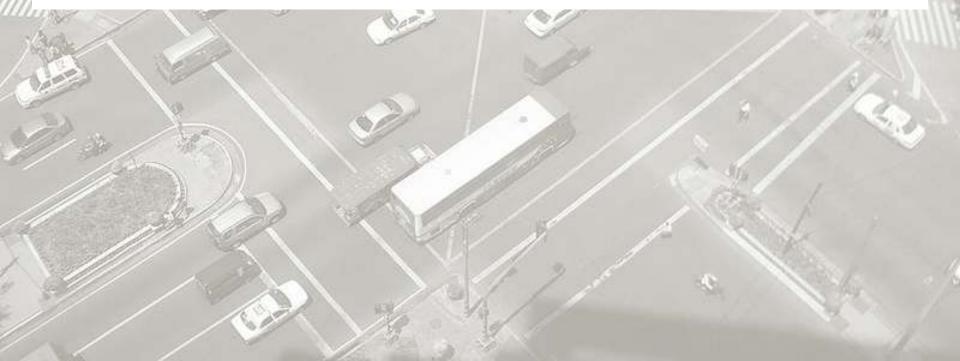
Intersections with Mobile Technology + _

Intersections with Food +



Tip #1: Prepare for Uncertainty in Age of Globalization Tip #2: Going Beyond the Resume: Portfolios & Presence Tip #3: Show Your 'T-Shaped' Breadth of Skills Tip #4: Expand Your Base of Teachers & Learning Communities **Tip #5:**

Describe Your Future Work Opportunities Around Intersections of Change



Employee of the Future I am someone who can...

- Reframe Problems
- Stand at Intersections of Change
- Collaborate & Automate
 - (= Be Transparent & Accountable)
- Outcomes-Focused
 Turn Data into Knowledge & Wisdom
 Tell Stories

Employee of Future Outcomes Focused Approach to Data



2:16

Healthcare

eopardy 2011, IBM



1:54

SHARE

Finance

See how leaders in analytics think the DeepG technology that powers. Watson could mansfo how the financial industry does business.

e génerated eveny day son, the ISM computer on Jéopárdy), has the services is information."

SHARE





SHARE

Customer Services

"Imagine if you had a system where you just called Walson. asked a question, and you get the answer in real time."

Net Technology Officer to





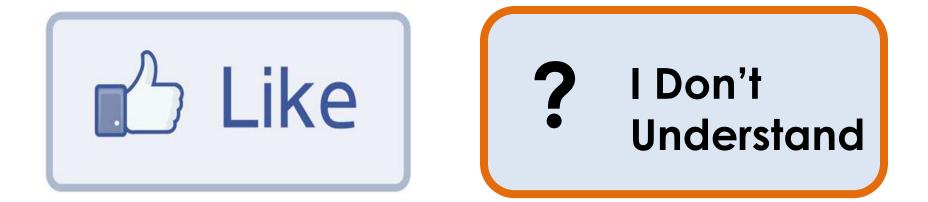
teta, journais and research documents natural language - a language hat nanay saruggies binateritana. A system vers à single, predise answer from tresse

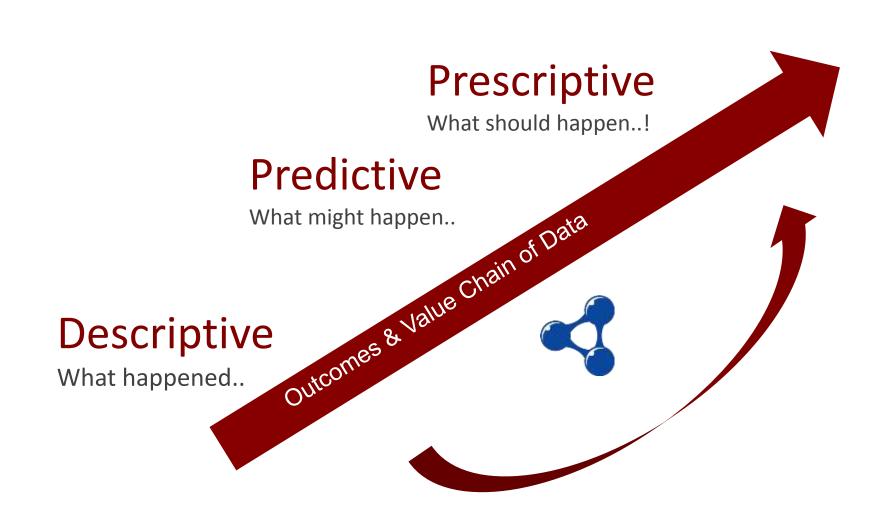
eaters including Dr. Herbert Chase, Professor I Medicine at Columbia University, School of a soft Surgeons, share their Houghts on how 2A lecthology that powers Waters could impact

False

Data (Personal & Work) = Biggest Asset?







Data as Source of Innovation

Employee of Future Goals & Achievement

How might the future or work / careers look like:



'Gaming Mechanics' Design Principles:

- Rules & Rewards
- Challenges & Goals
- Badges & Recognition
 - ('Level up' Stages of Mastery)
- Reputation Management
- Teamwork & Strategy
- Continual Micro-experiences



Goal of Outcomes: Novice to Master Level Skills



Ford Hybrid Fusion: Leaderboards, Points, and Status



PRODUCT TOUR STO

SUPPORT

ED D

THE SMART WAY TO A BETTER YOU

Basis is a device that tracks heartbeats and more to paint the most useful picture of your health. Stay motivated by accumulating points and praise for your progress.

RESERVE NOW

Like 510 > Tweet 214

+1 173 people



Track calories, lose weight



Advanced sensors capture heartbeats and more to paint a picture of your health that's richer than motion-based devices. No chest straps, no headbands. Just Basis



Work or play, rain or shine, Basis is with you in all walks of life. Attractive, comfortable, customizable... you'll look great wearing it.

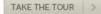


Monitor daily, weekly, and monthly progress...right down to the calorie, step or minute of sleep. No fiddling with exercise or sleep "modes" like other devices. Just put it on and go. We'll do the rest.



Share your milestones with friends. Stay motivated by accumulating points and praise for your progress. Smile! Fitness feels good.

TAKE THE TOUR



TAKE THE TOUR

TAKE THE TOUR



Gamess For Tearning Institute "4 out of 5 stars" $\mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x}$ - NYU G4LI

SUPPORT

🖂 E 🏭 🖬

WELCOME TO PLAYGROUND A NEW GENERATION OF PIANO LESSONS Choose a hit song from contemporary artists and start playing piano immediately. Download Software 1 First Look Plug in a Keyboard 2 Start Playing and Learning 3 DOWNLOAD FREE TRIAL EXPLORE THE PLAYGROUND

PLAY LIKE DAVID SIDES



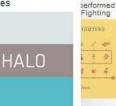
You may not be a selftaught virtuoso like David, but with Playground Sessions you don't have to be. Play along, learn with ease, and have fun as he shares his methods.

Apologize Originally performed by Halo Because of OneRepublic

LEARN PIANO BY PLAYING THE SONGS YOU LOVE



Written by Beyonce Knowles



WATCH & LEARN MORE

SEE FULL LIBRARY

Playgro by Playgrou	ound Sessions: 30 days to play indPiano	
	First day on a plano, EVER! And only 29 days to the concert	
-		k
•	2:29 /2:52	

mozilla

Open Badges

Get public recognition for your skills and achievements



Mozilla's Open Badges infrastructure makes it easy to issue, display and manage badges across the web -- opening new ways to show your skills and achievements to the world.

Open Badges is a project of Mozilla with support from the MacArthur Foundation.

MacArthur Foundation

- Tip #1: Prepare for Uncertainty in Age of Globalization Tip #2: Going Beyond the Resume: Portfolios & Presence Tip #3: Show Your 'T-Shaped' Breadth of Skills Tip #4: Expand Your Base of Teachers & Learning Communities Tip #5: Describe Your Opportunities at Intersections of Change **Tip #6:** Get Involved in Skills-building Experiences that Teach Transparency & Accountability
- (Gamification of Work Experiences)

Employee of the Future I am someone who can...

- Reframe Problems
- Stand at Intersections of Change
- Collaborate & Automate
 - (= Be Transparent & Accountable)
- Outcomes-Focused
 - Turn Data into Knowledge & Wisdom
- **Tell Stories**





Communicate via the Video Camera!







Design A Portfolio/Presence that Tell Your Story

Who's your top follower? What was your top tweet?

SEE YOUR YEAR ON TWITTER

FAST. EASY. FREE. SIGN UP NOW! SIGN IN

A personal website powered by your data

Plug in your social media sites and Vizify creates a series of interactive infographics that show the best of you.

SHOW ME MINE!

Vizify



See how others are using Vizify

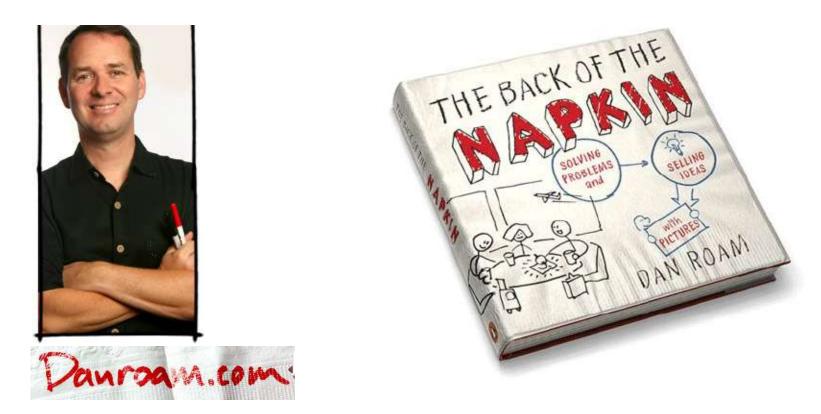
Design Product Interfaces that Tell Stories



LucidDesignGroup

1(857)	17 days, 4 hours remaining	Feb 28 (PST) Competitions
Buildings' Savings So Far	All Groups All Buildings Your Buildings	Total S reduction •
5 3894		37% reduction
How are you consending?		35:
Better turn off that Quale server under your bet,		3450
the energy in this building, manual, 2 maps		
To: Hallway lights account for =20% of electric loads. formediat, climer age	HORTH HALL DVA	۵ ۵
Current competition standings: Obertin in 3xt place, Hamilton in 3nd pater (37 days remaining) Compressioned and a sec	500TH HALL (2007) 227	
Dre hanging my stattes out to dry today, value 10, 2 have upo		@

Learning from Masters of Storytelling



Nancy Duarte: The secret structure of great talks





Nancy Duarte **Duarte Design**







Neil deGrasse Tyson





Neil deGrasse Tyson - World to End In 2012...or Not

Complete video at: fora tv Author and astrophysicist Neil deGrasse Tyson dismisses the popular internet doomsday theory that a "Planet χ^* aka ...

by ForaTv 3 years ago 613,493 views



10 Questions for Neil deGrasse Tyson

LISTEN TO FULL AUDIO: tinyun com Tyson is the director of the Hayden Planetarium at the American Museum of Natural History and host of NOVA ...

by TimeMagazine 3 years ago 321,457 views



Stephen Colbert Interviews Neil deGrasse Tyson at Montclair... Jump to 6.15 for the start of the interview. Now with captions! Took me three days to transcribe -P Download captions: sites google com if you ...

CC by tendon 3 months ago 491,536 views



Authors@Google: Neil deGrasse Tyson

The Authors@Google program welcomed Neil deGrasse Tyson to Google's New York office to discuss his book, "The Pluto Files" About the Book, "The ... by AtGoogleTalks: 2 years ago: 104,108 years

1

Neil DeGrasse Tyson - Greatest Sermon Ever

2006 Neit deGrasse Tyson closes the three day lecture series with an excelent final "sermon" on cosmic perspective and the impact of science ...

by playd76 2 years ago 175,522 views



The Most Astounding Fact (Neil deGrasse Tyson)

Please subscribe abovel Watch on Vimeo, com Astrophysicist Dr. Nell DeGrasse Tyson was asked by a reader of TIME magazine. "What is the most ...

HD CC by MaxSchlick 1 week ago 1,712,541 views

Tip #1: Prepare for Uncertainty in Age of Globalization Tip #2: Going Beyond the Resume: Portfolios & Presence Tip #3: Show Your 'T-Shaped' Breadth of Skills Tip #4: Expand Your Base of Teachers & Learning Communities Tip #5: Describe Your Opportunities at Intersections of Change **Tip #6:**

Become a Student in the Art of Storytelling

Introducing TED-Ed: Short lessons for teachers and students to spark curiosity



9 - 41 MALES





Neil deGrasse Tyson

Nancy Duarte

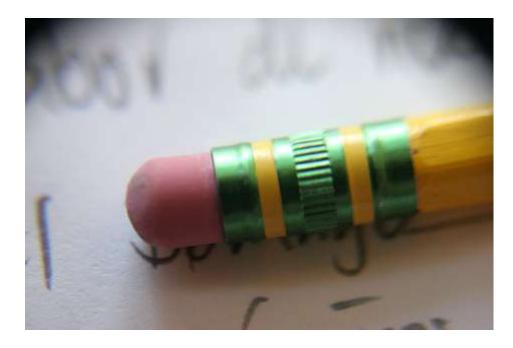
I don't like the future...







Tip #7 Embrace Mistakes





Tip #8 Follow Passionate People & Smart Conversations







Tim O'Reilly

Nancy Duarte



Hans Rosling



Neil deGrasse Tyson

VIBRANT DATA PROJECT

the **CONNECTED** STATES of AMERICA













Tip #1: Prepare for Uncertainty in Age of Globalization Tip #2: Going Beyond the Resume: Portfolios & Presence Tip #3: Show Your 'T-Shaped' Breadth of Skills **Tip #4: Expand Base of Teachers & Learning Communities Tip #5: Describe Opportunities at Intersections of Change** Tip #6: Become a Student in the Art of Storytelling Tip #7: Embrace Failure / Fail Fast & Forward **Tip #8: Follow Smart Passionate Conversations**

Garry Golden (Two Rs) garrygolden@gmail.com 347-463-7412 Twitter: garrygolden PDF Copy of Presentation: www.garrygolden.net/BC2013

- Most uncomfortable = Most Inspired =
- Biggest Opportunity = Biggest Risk =

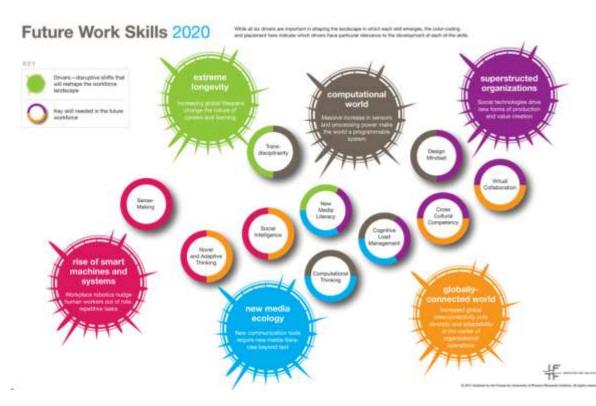


H BUREAU OF LABOR STATISTICS

Industry description	Sector
Fastest growing	
Home health care services	Health care and social assistance
Individual and family services	Health care and social assistance
Management, scientific, and technical consulting services	Professional and business services
Veneer, plywood, and engineered wood product manufacturing	Manufacturing
Computer systems design and related services	Professional and business services
Cement and concrete product manufacturing	Manufacturing
Outpatient, laboratory, and other ambulatory care services	Health care and social assistance
Offices of health practitioners	Health care and social assistance
Software publishers	Information
Construction	Construction
Commercial and industrial machinery and equipment rental and leasing	Financial activities
Other professional, scientific, and technical services	Professional and business services
Facilities support services	Professional and business services
Community and vocational rehabilitation services	Health care and social assistance
Lessors of nonfinancial intangible assets (except copyrighted works)	Financial activities
Other educational services	Educational services
Automotive repair and maintenance	Leisure and hospitality
Grantmaking and giving services and social advocacy organizations	Other services
Sawmills and wood preservation	Manufacturing
Child day care services	Health care and social assistance

Most Rapidly declining	
Apparel knitting mills	Manufacturing
Leather and hide tanning and finishing, and other leather and allied product manufacturing	Manufacturing
Postal Service	Federal government
Communications equipment manufacturing	Manufacturing
Computer and peripheral equipment manufacturing	Manufacturing
Pipeline transportation	Transportation and Warehousing
Metal ore mining	Mining
Pesticide, fertilizer, and other agricultural chemical manufacturing	Manufacturing
Federal enterprises except the Postal Service and electric utilities	Federal government
Other miscellaneous manufacturing	Manufacturing
Other chemical product and preparation manufacturing	Manufacturing
Metalworking machinery manufacturing	Manufacturing
Glass and glass product manufacturing	Manufacturing
Basic chemical manufacturing	Manufacturing
Electrical equipment manufacturing	Manufacturing
Pulp, paper, and paperboard mills	Manufacturing
Fiber, yarn, and thread mills	Manufacturing
Iron and steel mills and ferroalloy manufacturing	Manufacturing
Petroleum and coal products manufacturing	Manufacturing
Newspaper, periodical, book, and directory publishers	Information
Source: Employment Projections program, U.S. Department of Labor, U.	.S. Bureau of Labor Stati





Additional Resource: Strategic Questions to Consider The following strategic questions are helpful in engaging colleagues conversations about the future.

Trends are slow changes over time; they reveal direction & momentum.

- □ Which trends are most likely to *converge*?
- □ Which trends are most likely to have the greatest impact?
- Which trends have the most uncertainty in terms of implications/outcomes/solutions?

Events are moments that can amplify or lead to discontinuities of existing trends. With your colleagues, list and describe potential implications of:
Scheduled Events (e.g. Elections; Civic/Cultural Events; Campus events)
Plausible Events (e.g. End of 501c3; Student Financial Aid Legislation]
Wildcard Events – High impact, low probability (e.g. Bio; Cyber attack)

Choices reflect investments and actions towards a preferred future. With your colleagues, list and describe potential implications of:

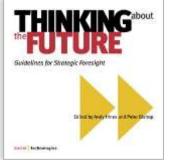
- Institutional Choices (e.g. Capital Campaigns; Academic Programs; Staff Training)
- Plausible Events
- □ Wildcard Events High impact, low probability (e.g. Bio; Cyber attack)

Additional Resource: Learning More

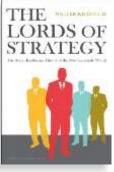
Books

Teaching about the Future (Textbook)
 Thinking about the Future
 By Andy Hines & Peter Bishop
 The Five Futures Glasses
 By Pero Micic
 The Lords of Strategy
 By Walter Kiechel









Executive Level Foresight Training

University of Houston Studies of Future Program

Foresight Education and Research Network (FERN)

Additional Resource: Foresight Tools & Frameworks

Qualitative Focus:

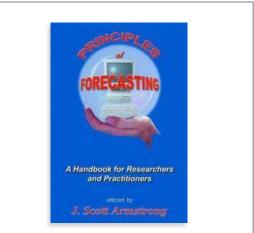
Qual-Quan Hybrid

Scanning Scenarios Simulations & Games Backcasting **Genius Forecasting Morphological Analysis Role-playing Ambient Futures Casual Layered Analysis Futures Wheel Relevance Tree Appreciative Inquiry**

Delphi Survey Cross Impact Analysis Survey / Focus Group **Agent Modeling** CA Systems Modeling **Decision Modeling** Gartner Hype Cycle Text Mining **S-Curve Analysis Field Anomaly Relaxation** Roadmapping **Fisher-Pry Analysis**

Quantitative

<u>Trend Extrapolation</u> <u>Benchmarking</u> Patent Analysis Systems Dynamics Probability Forecasting Monte Carlo Models



Principles of Forecasting By Scott Armstrong