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# Digital Natives-Digital Immigrants Engaging the Google Generation

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# Finding a Pathway to Citizenship in this Digital World

*( Engaging the Bing Babies )*

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Executive Director – ISIS
Michael R. Ross Phd
College of St. Benedict/St. John's University

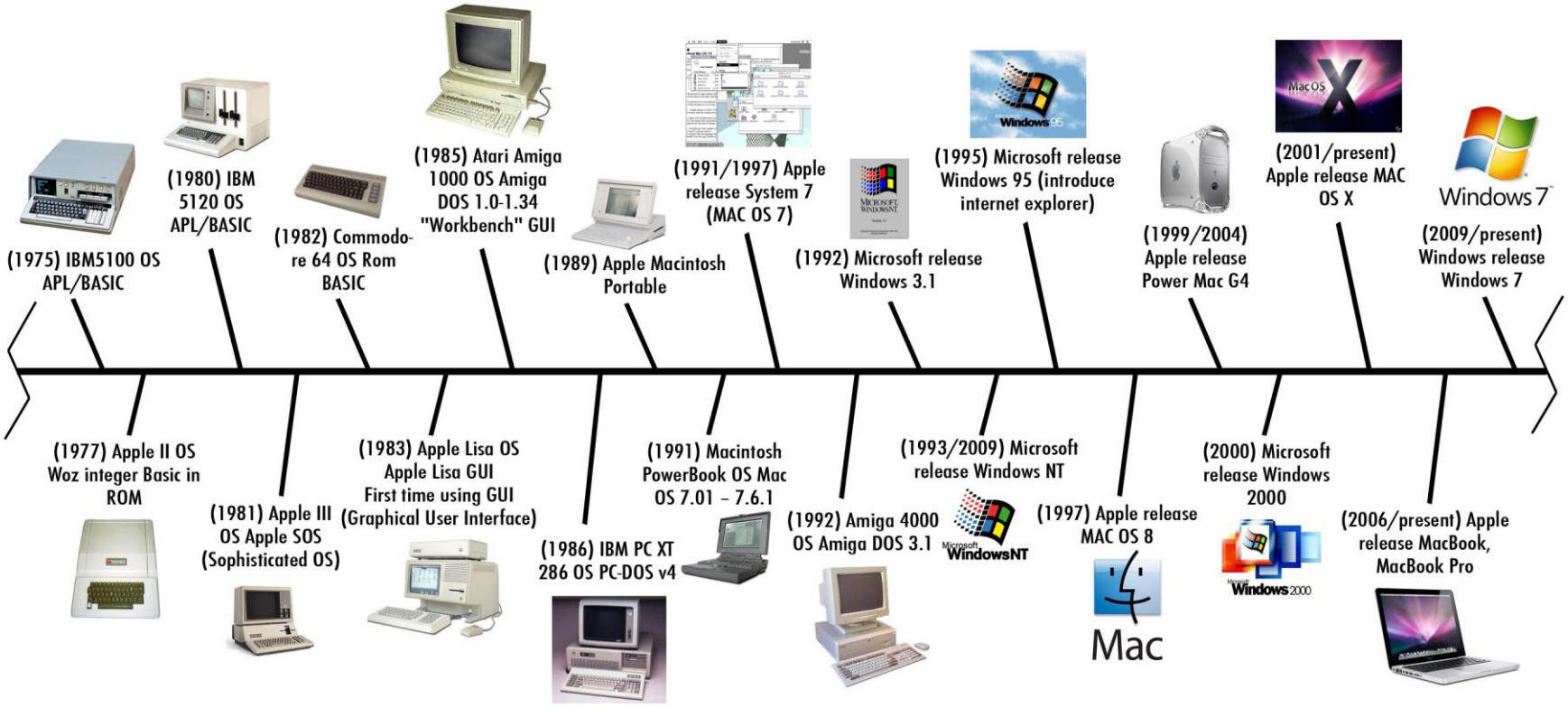
a s d f j k l ;

The World is Changing

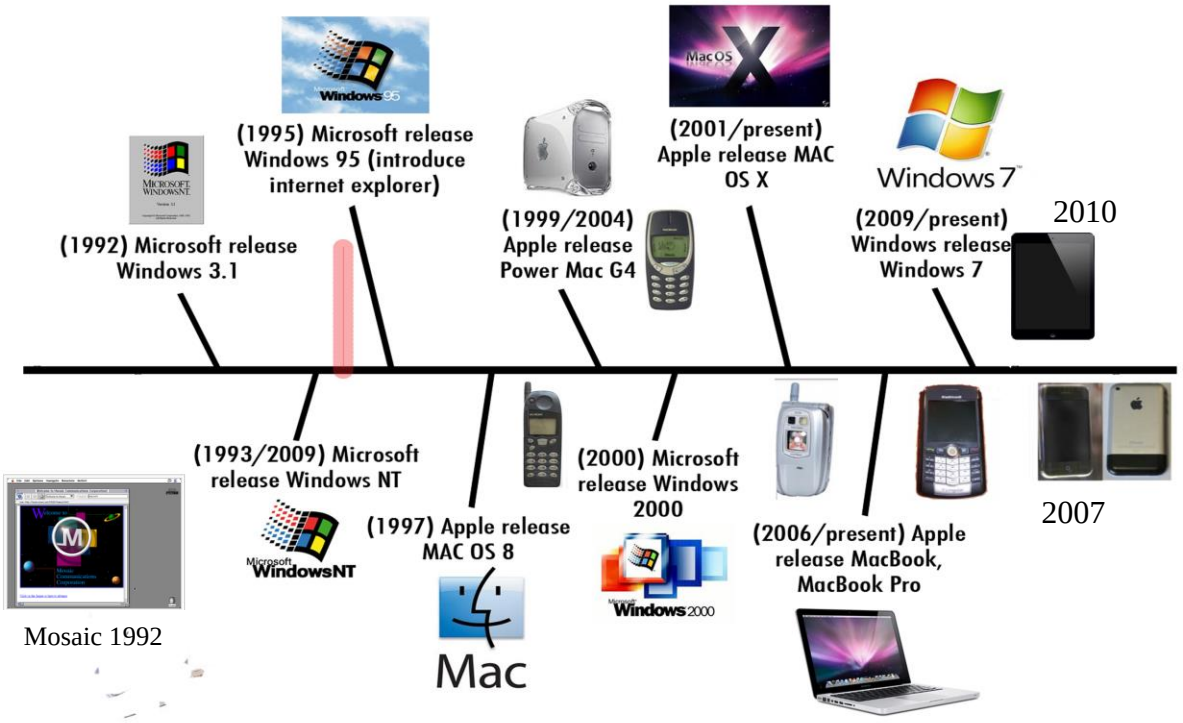
The World is Changing

# Driving Force

## Timeline

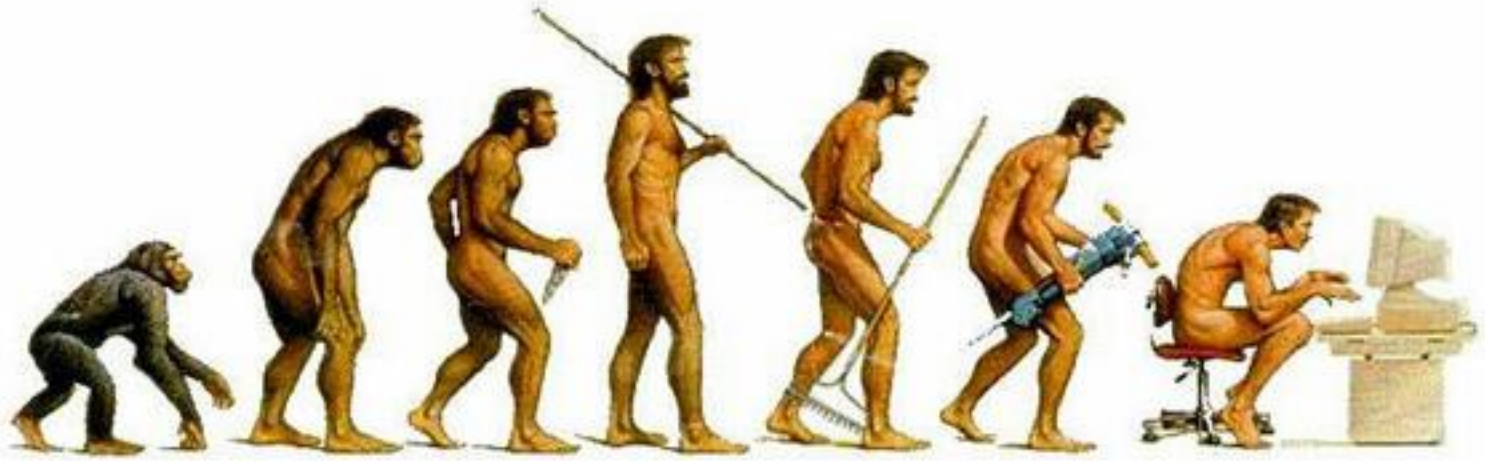


# Since our students were Born



Rarely has there been a time when the field of education has had to accommodate learners with such a broad spectrum of technological skills

- or lack there of -



# Disruptive Technologies

Other Examples

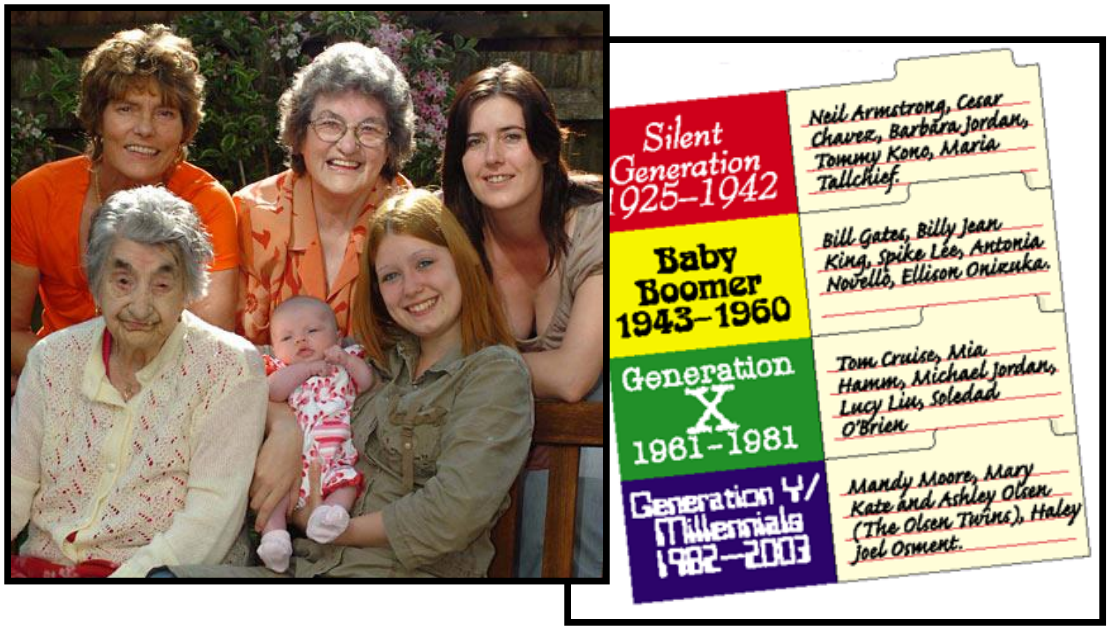
| | | |
|---|---|---|
| Railroad | over | Horse and Buggy |
| Automobile | over | Horse and Buggy and Railroad |
| Telephone | over | Conversation and Telegraphy |
| Plastic | over | Metal and Wood |
| Internet/ Mobile Devices | over | Telephone/Fax |
| E-print | over | Print Journalism, Books |
| Pod-Casting | over | Classrooms |
| 'Ubiquitous Computing'/ 'Crowd Sourcing' | over | Libraries, Text Books |

Text excerpted from the Wikipedia article *Disruptive technology*. 21 May 2007

Life is Full of Change

How you respond to change will determine how happy, satisfied, fulfilled you are going to be

The only question will be, are you going to respond to it and be happy or not




**How Are Generations Formed?**
**What Make Generations Act As They Do?**

Defining World Events
Parenting Trends
Life-Span
New Technologies

# Generations of the Western World

Lost Generation – born before 1900, those who fought in WWI

Greatest Generation – GI generation, born 1900-1920, came of age during the Great Depression, Stock Market collapse, bread lines, veterans of WWII

Silent Generation – born 1925-1945, fought in WWII, Victory gardens, quiet, hard-working Traditionalists, Rosie the Riveter, parents of early baby boomers

Baby Boomer Generation – born 1946-1964, Howdy Doody, Radical 1960's counter culture, civil rights, equality for women, rock and roll, Woodstock, the Beatles, Elvis, Vietnam, first man on the moon, JFK, workaholics, service oriented, optimistic delayed gratification

Stuck between generations

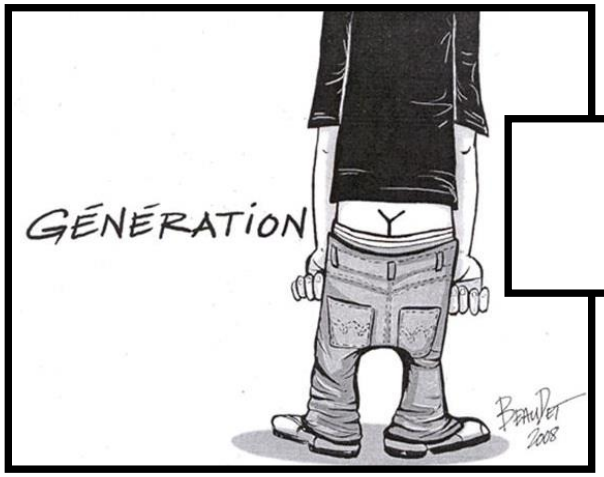
COVER STORY

Not boomers, not Xers, they are Tweeners

Taiwan ballot to heighten China's ire

Tweener Jones Generation – born between 1964-1968, 'tweeners' between the boomers and the X'ers, computer pioneers like Bill Gates, conspicuous consumption, first Yuppies, Pong, Jiffy Pop, Forest Gump

X Gens – born between1968-1977, fall of Berlin Wall, children of baby boomers, self reliant, individualistic, cynical outsiders, latch key, kids remote control, hate rules, dislike authority, MTV, home computers, video games, hip hop, Desert Storm, grunge music cable TV, slackers



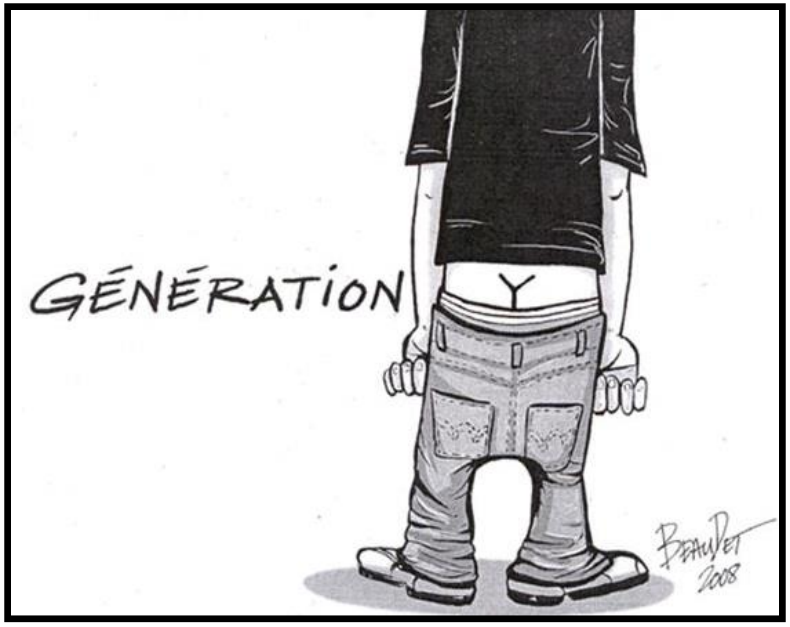

Y – born between 1978-1995, Techno Revolution, team players, overindulged by parents, rule followers, close to their parents

# “Millennials”

Z Gens – born between 1995-20??, Hurricane Katrina, Jonas Brothers, grew up on Internet, expected to be individualistic, self directed, excel at rapid information processing, places less priority of work, multitaskers, green environmentalists

# Who are the Millenials?

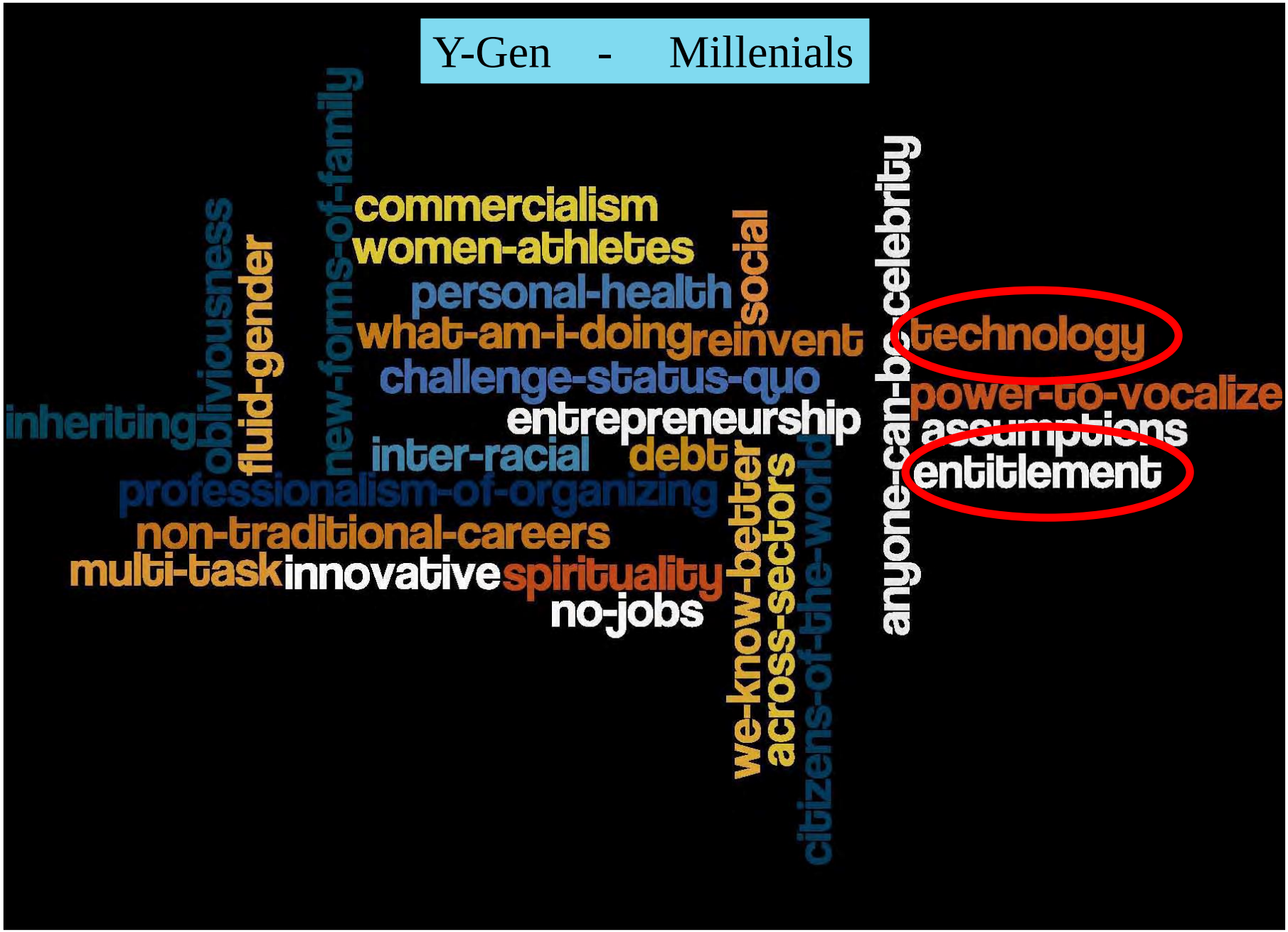
- Generation “Y”
- “Me” Generation
- Internet Generation
- Echo Booms
- Boomerangs
- Baby Boomlets
- Generation Waking up
- Generation Now



# Millennials (1977 –1995)

- Make up the majority of current students
- Most culturally diverse generation
- Technology is necessary
- Bookends: Challenger disaster and 9/11
- Value public safety and saving money
- Civic-minded and highly-educated
- “Soccer moms” and “helicopter parents”

# Y-Gen - Millenials



# The Millenials and NetGen – Dark Side

They're dumber than we were at their age

They're screenagers, Net addicted, losing social skills

They have no shame

Because their parents have coddled them they are adrift, afraid to chose a path

They steal

They're bullying friends online

They're violent

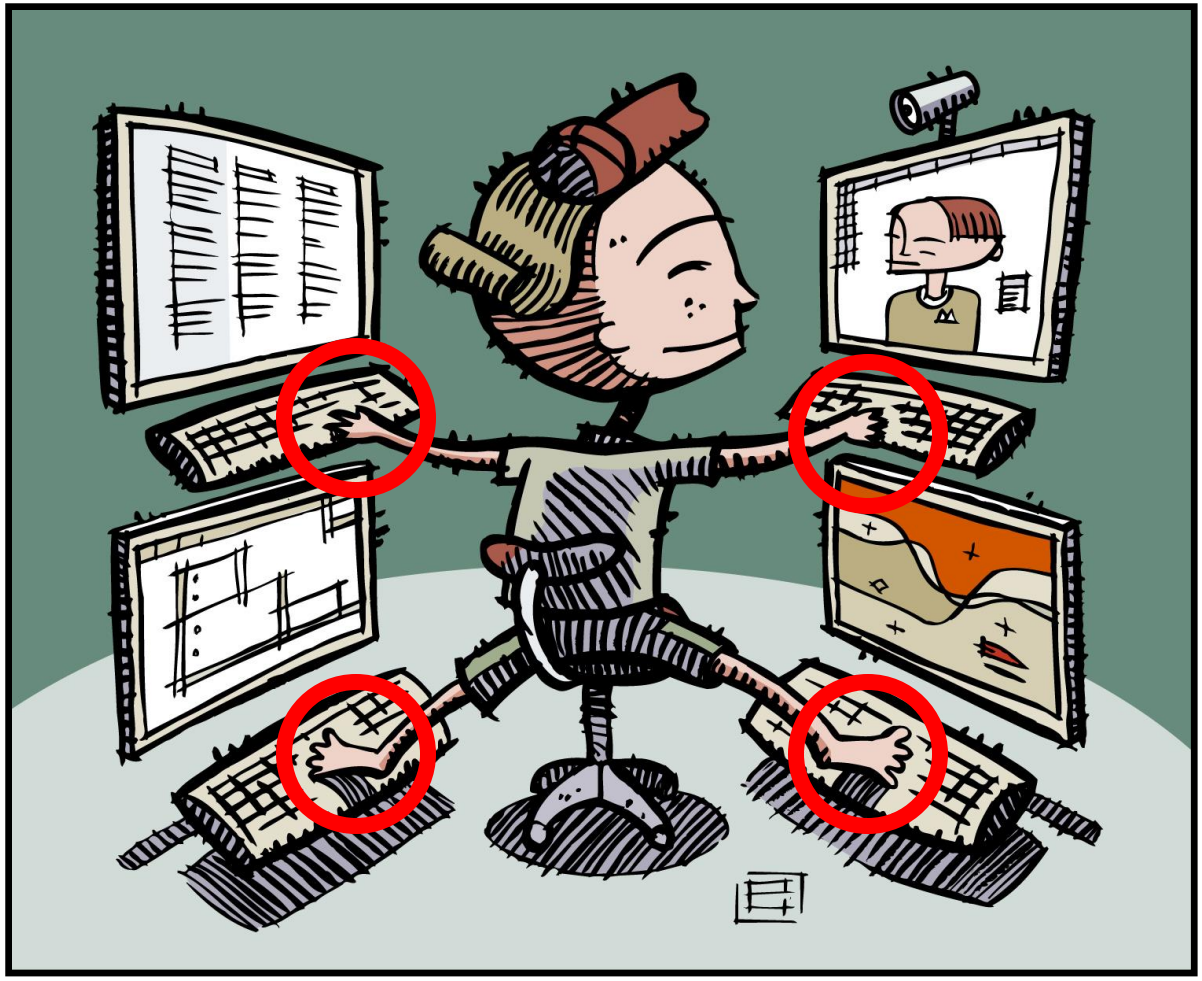
They have no work ethic and will be bad employees

This is the latest narcissistic "me" generation

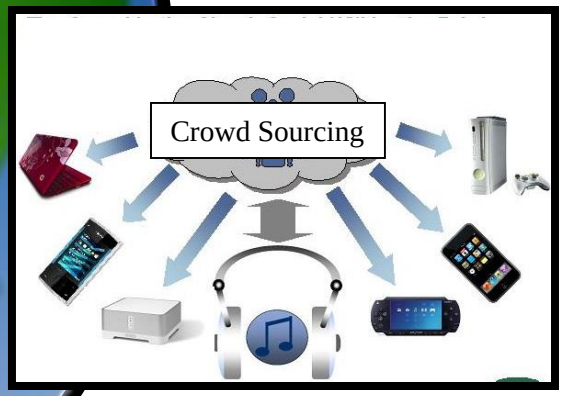
They don't give a damn

# The New Digital World

# The New Digital World



# The New Di The New Digital World l Connections



# The New Digital World and Its Digital Connections

## Where Are They Going ?

# The New Digital World and Its Digital Connections

## Where Are They Going ?

44
State of
disbelief

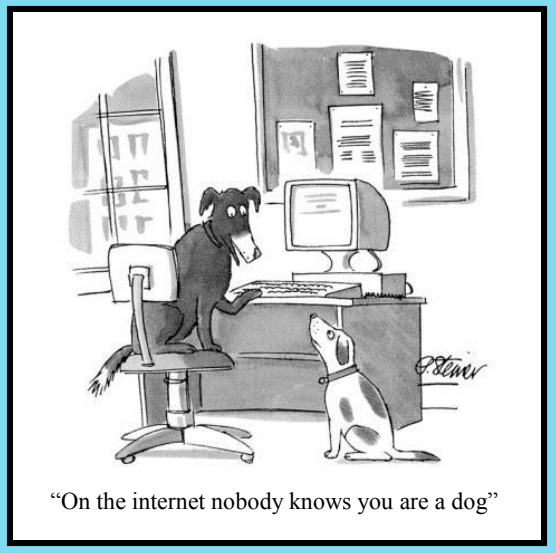
44
State of
disbelief

# Vetting the Internet

**Why?**

**How ?**

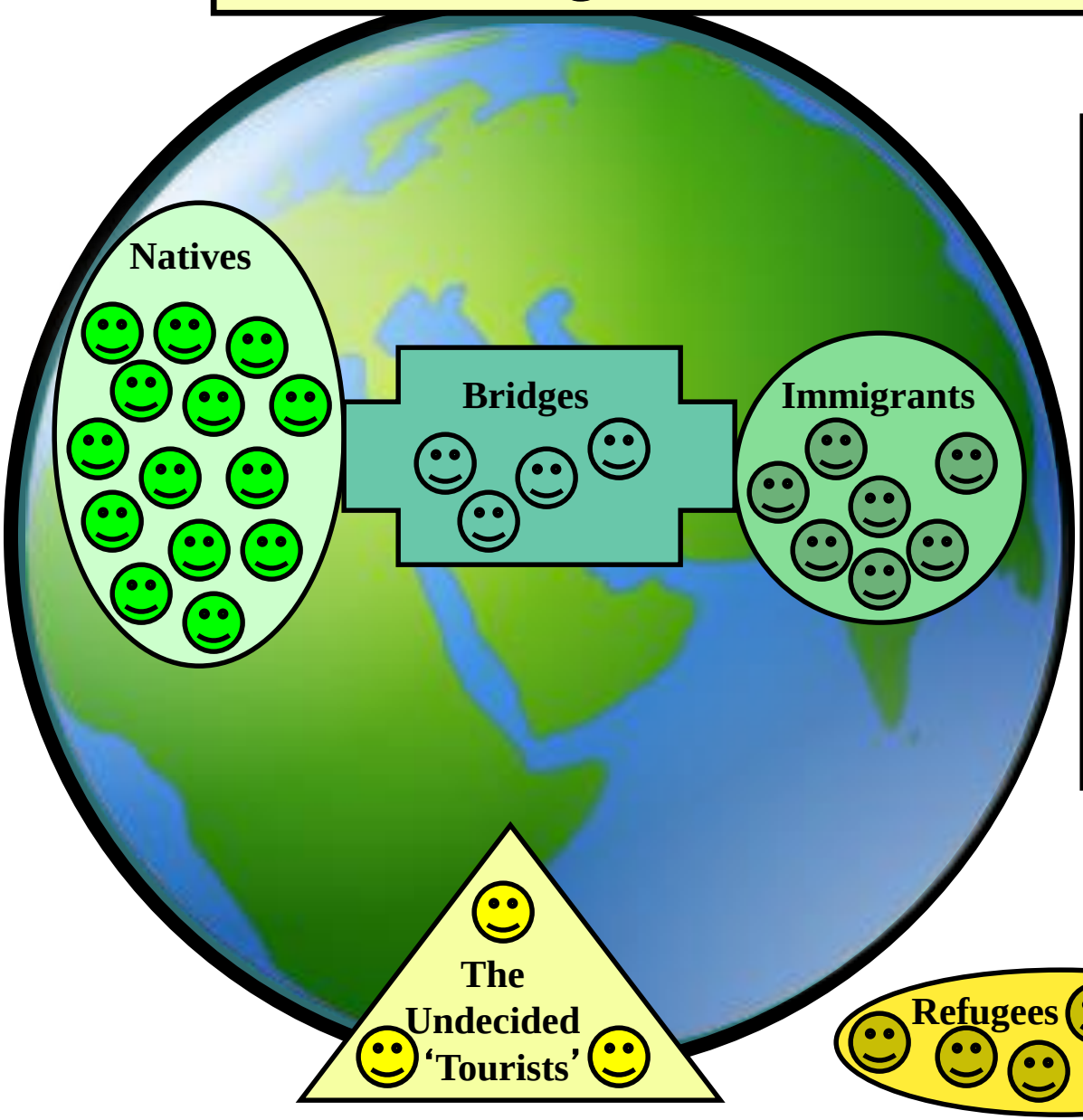
- *employ a series of techniques*
- *ask a series of questions*



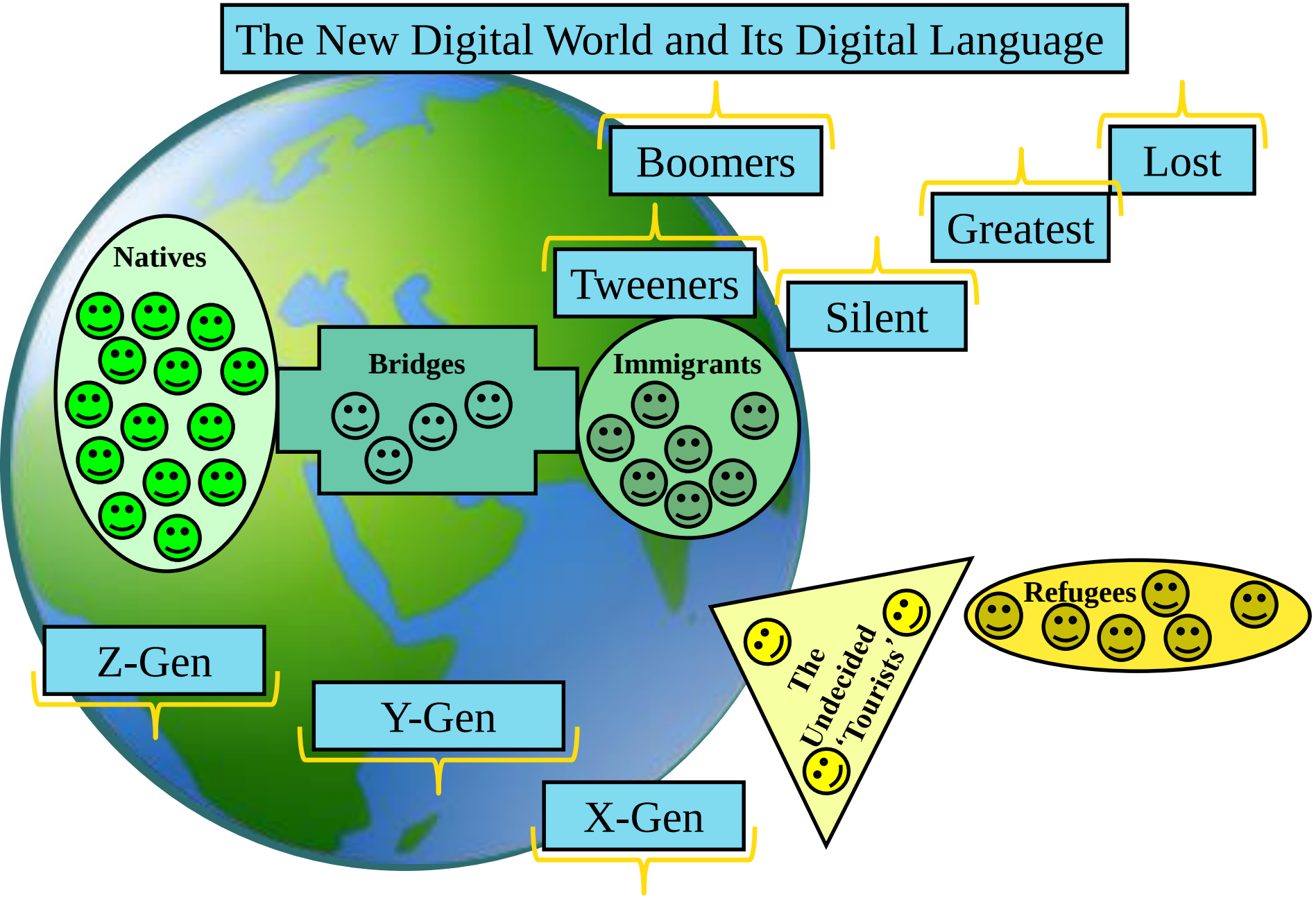
"On the internet nobody knows you are a dog"

1. What can the URL tell you ?
2. Scan the perimeter of the page.
3. Look for indicators of quality of information
4. What do others say ?
5. Does it all add up ?

# The New Digital World and Its Digital Language




**The Refugees**: The older adults in society who have chosen to flee rather than integrate into the native culture. Digital refugees often feel lost in a threatening and dangerous environment, and perceive themselves to be homeless. They have chosen to flee rather than remain immigrants, and may actively work against the goals and interests of both the digital natives and the digital immigrants. The refugees are primarily motivated by fear and a staunch desire to not only resist change but actively oppose it, deny the existence of a changed environment, and/or ignore it.

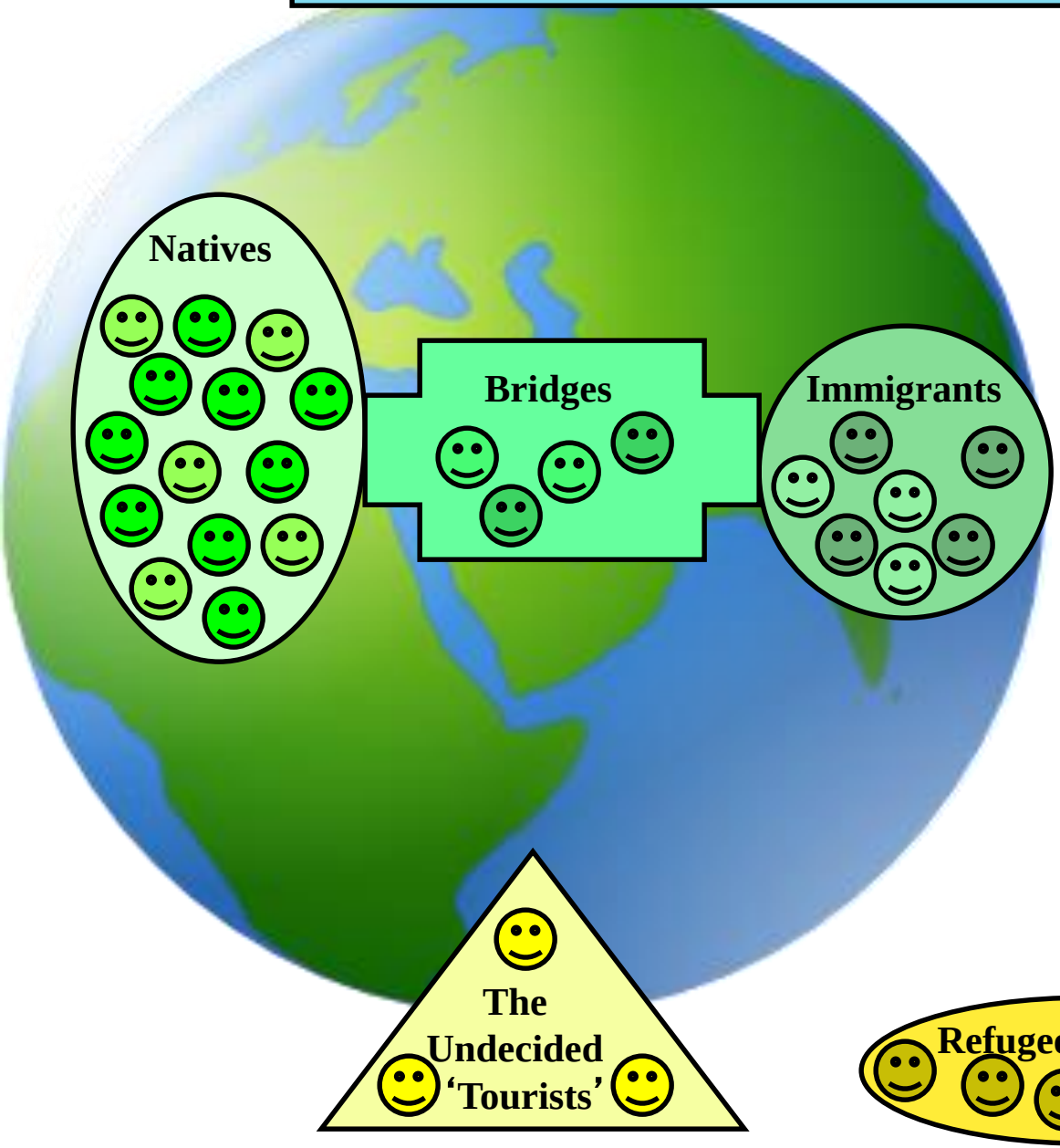

The New Digital World and Its Digital Language
Boomers
Lost
Greatest
Tweeners
Silent
Natives
Bridges
Immigrants
Refugees
The Undecided 'Tourists'
Z-Gen
Y-Gen
X-Gen

# Digital World Vocabulary

| “Millennial Language” | Translation for Everyone Else |
|---|---|
| omg | Oh My God ! |
| bon | Believe It Or Not |
| *$ | Starbucks |
| mos | Mom Over Shoulder |
| g2g | Got to Go ! |
| f2f | Face to Face |
| ttul | Talk To You Later |
| btw | By The Way … |
| rumof | Are You Male or Female ? |
| rofl | Rolling On The Floor Laughing |
| idk | I Don’t Know |
| hbu | How About You |

| Digital Natives | vs | Digital Immigrants |
|---|---|---|
| Prefer receiving information quickly from multiple sources | | Prefer slow and controlled release of information from limited sources |
| Prefer parallel processing and multitasking | | Prefer singular processing and single or limited tasking |
| Prefer processing pictures, sounds, and video before text | | Prefer to provide text before pictures, sounds, and video |
| Prefer random access to hyperlinked multimedia information | | Prefer to provide information linearly, logically and sequentially |
| Prefer to interact/network simultaneously with many others | | Prefer students to work independently rather than network and interact |
| Prefer to learn "just-in-time" from multiple sources | | Prefer to teach "just-in-case" (it's on the exam) |
| Prefer instant gratification and instant rewards | | Prefer deferred gratification and deferred rewards |
| Prefer learning that is relevant, instantly useful and fun | | Prefer to teach to the curriculum guide and standardized tests |

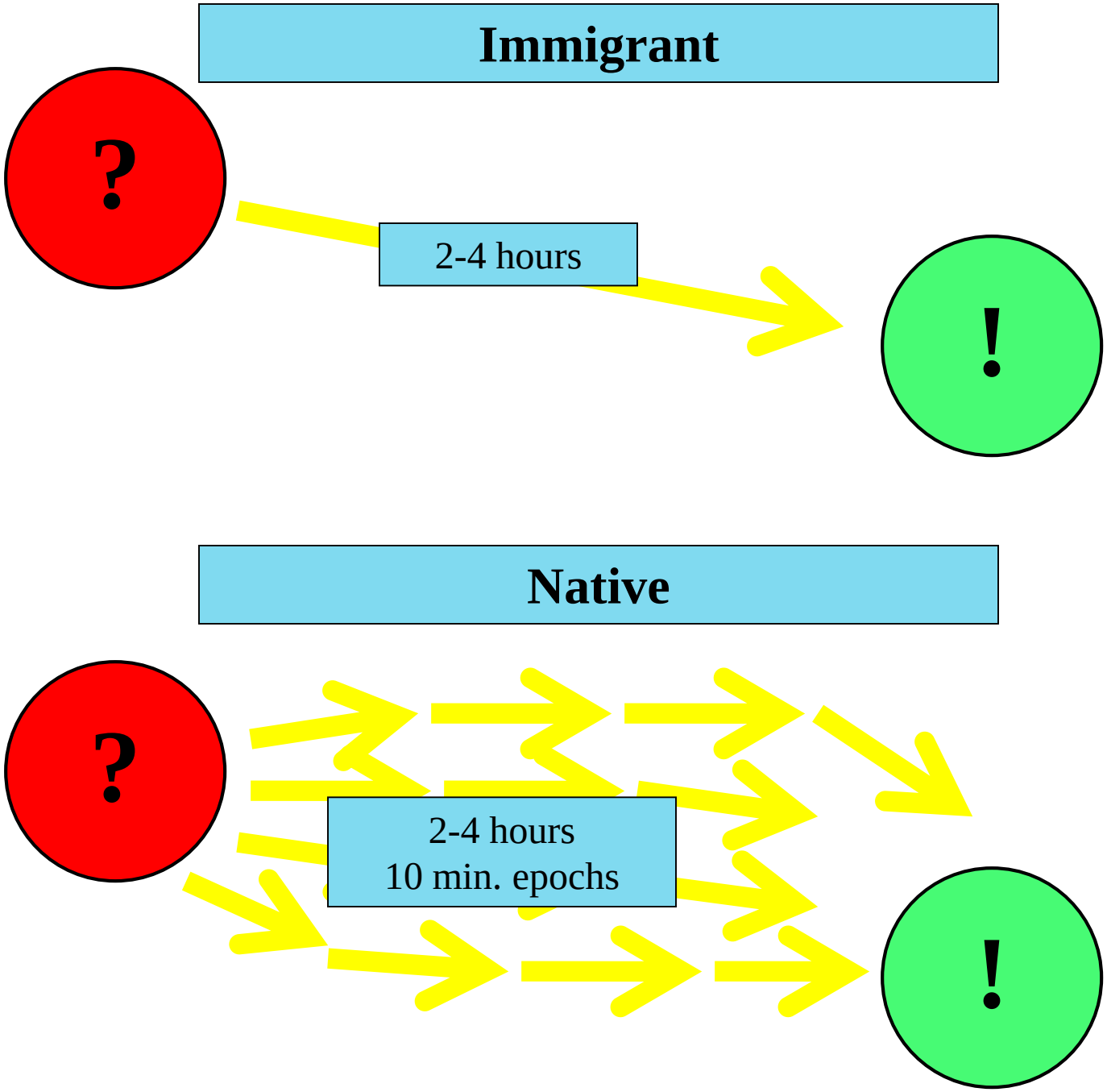
# The New Digital World and Its Digital Language




Natives and Immigrants are not homogenous populations

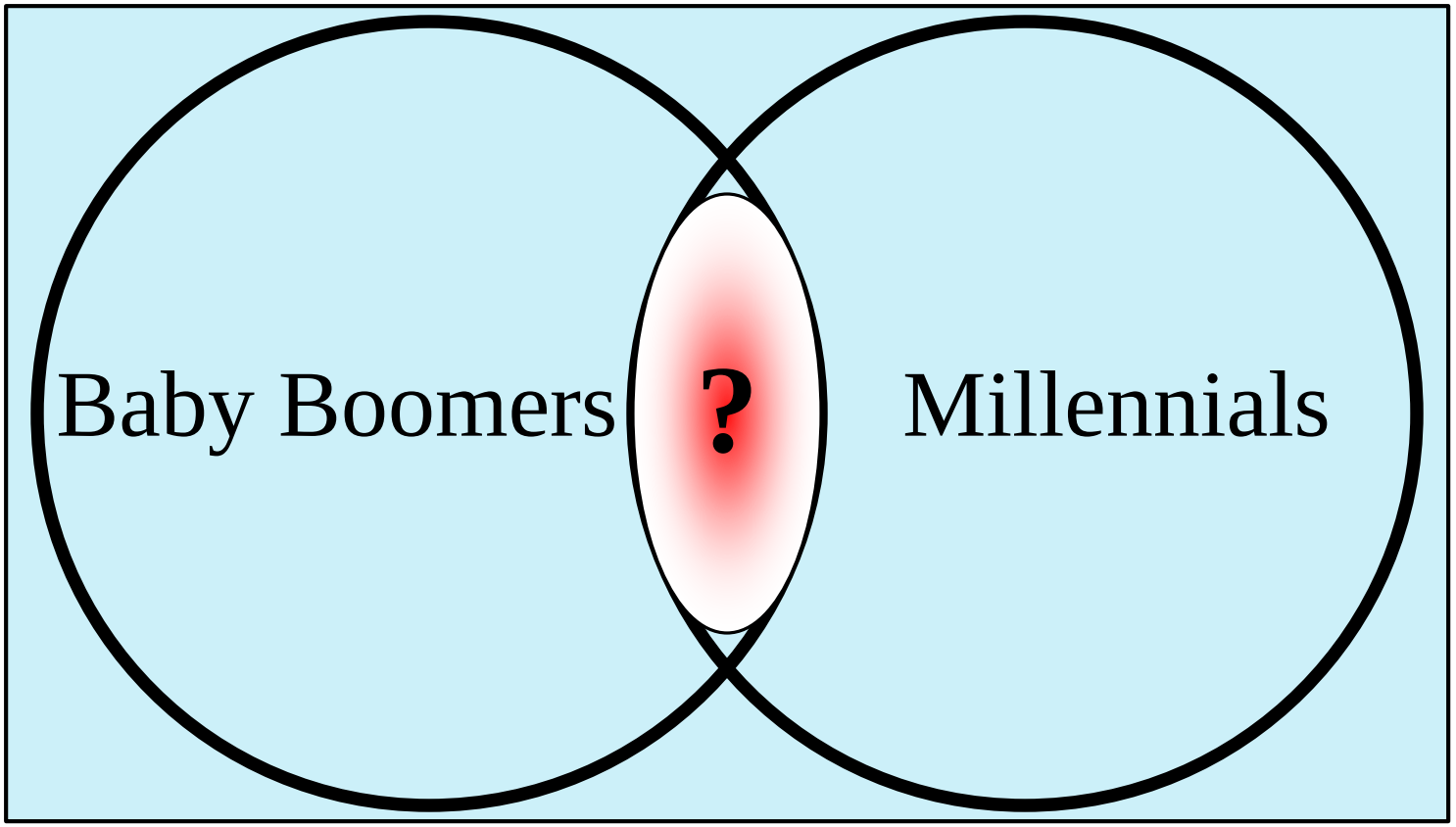
They are variably fluent in this new language

**Natives**, **regardless** of their fluency do not speak with an accents

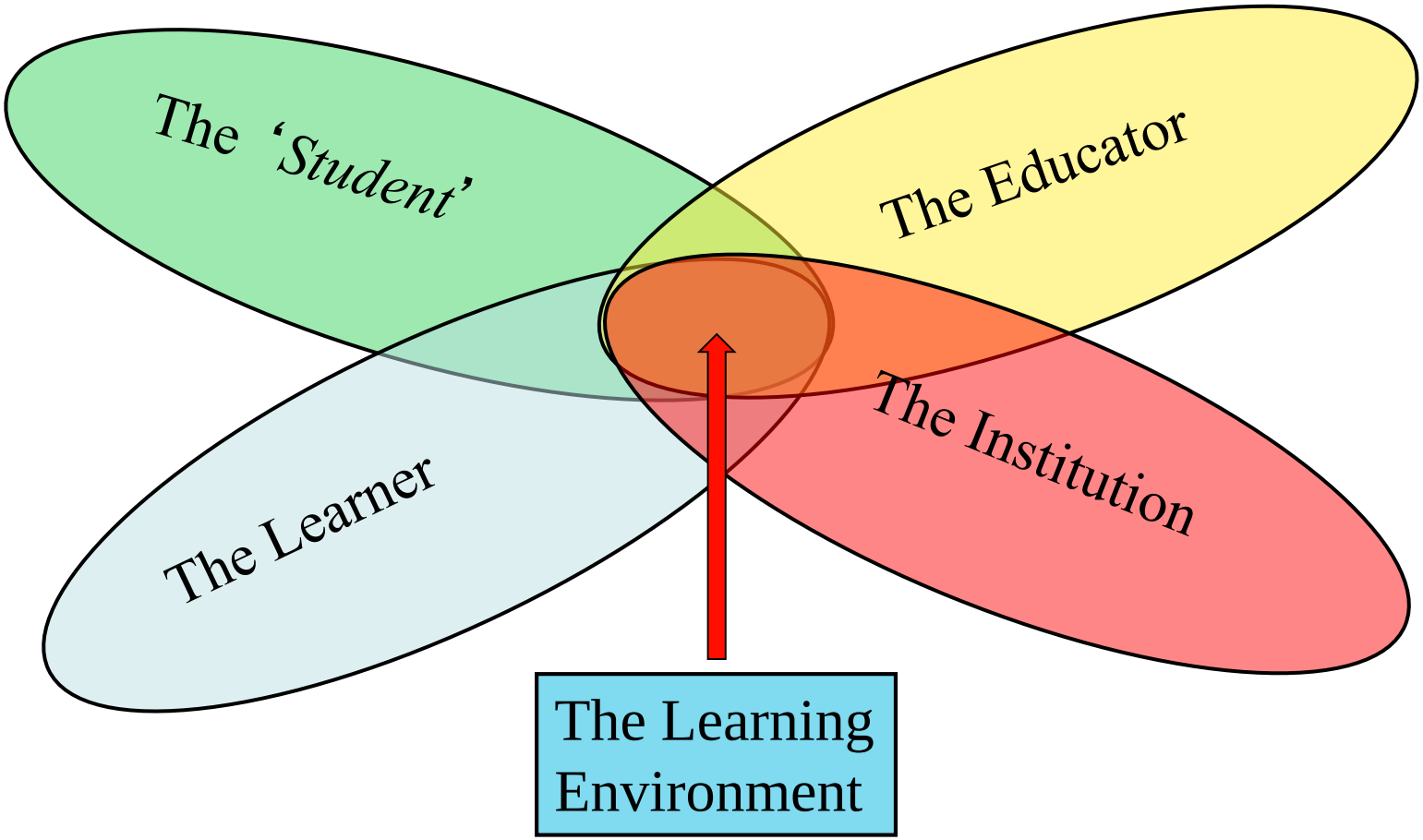

Immigrant
?
2-4 hours
!
Native
?
2-4 hours
10 min. epochs
!

# Bridging the Generational Gap

Millennials learn best from explanation
Mentoring provides a customized learning environment
Transparency enhances relationship-building



# Educational Environment



# What Can We Do ? "Think Out of the Box"

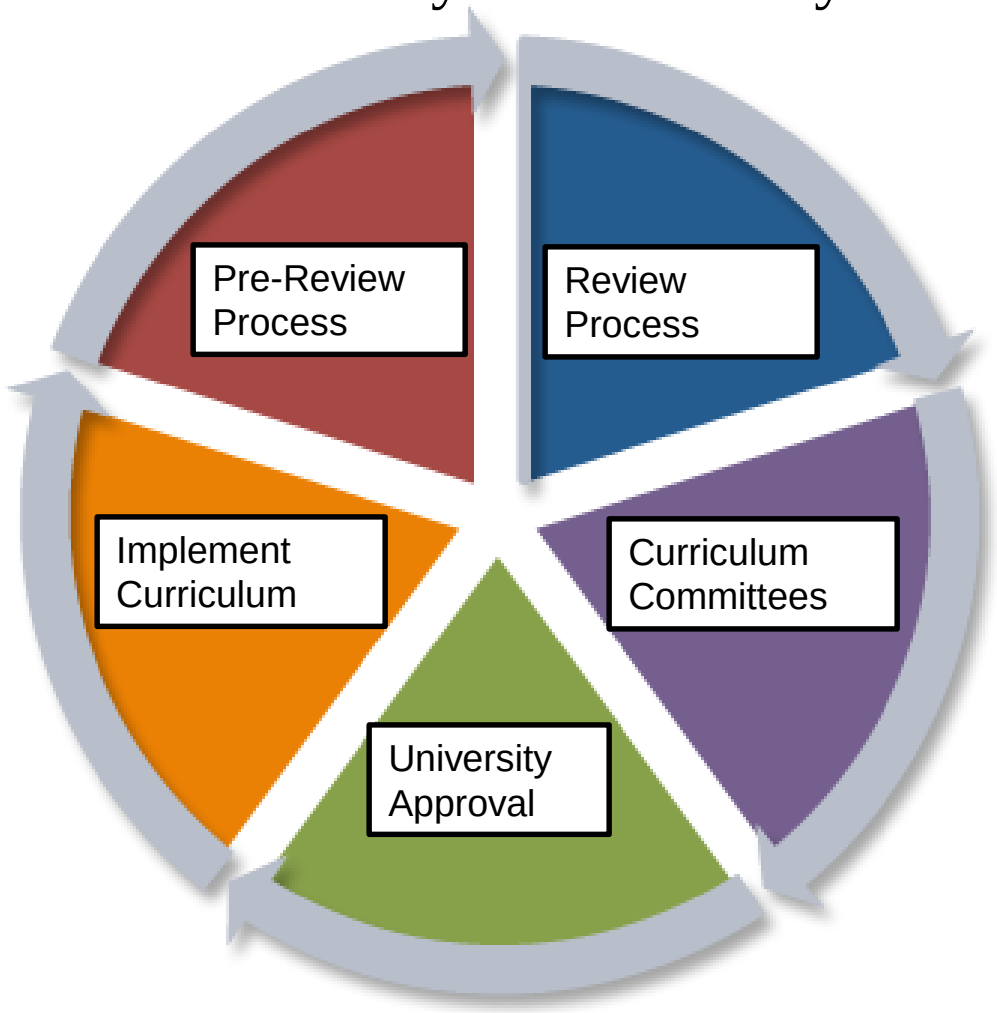
- Enhance ppt/lectures, laboratories with interactive technologies
  - **Flipping the classroom**
  - Poll Everywhere
  - Padlet
  - Wiki's
  - "Back channeling" – blogs
  - Group documents

- Focus groups with trainees regarding technologies
  - 'ubiquitous computing'
  - information gathering
  - social networking - crowd sourcing

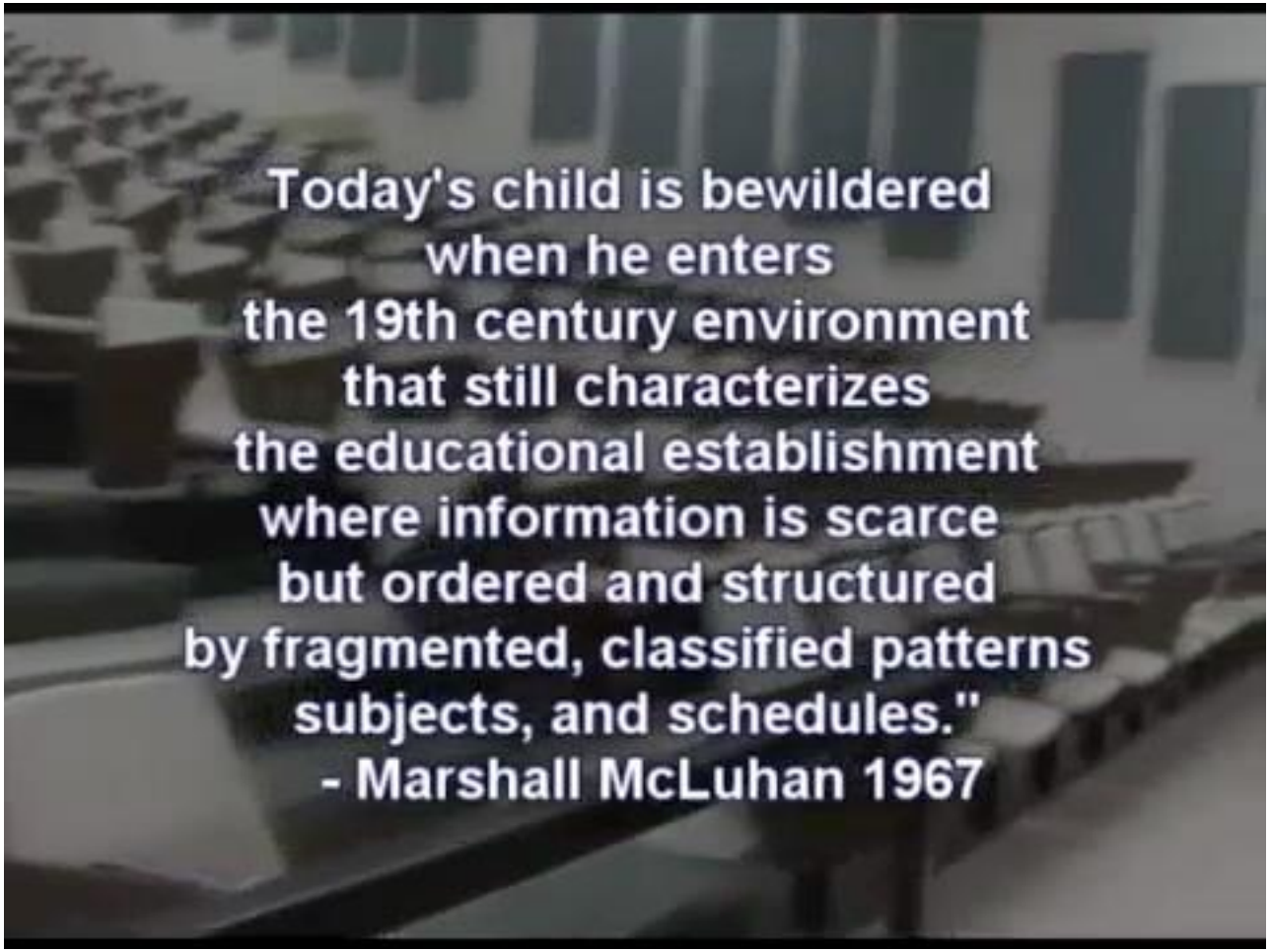
- Training on how to vet internet sites.

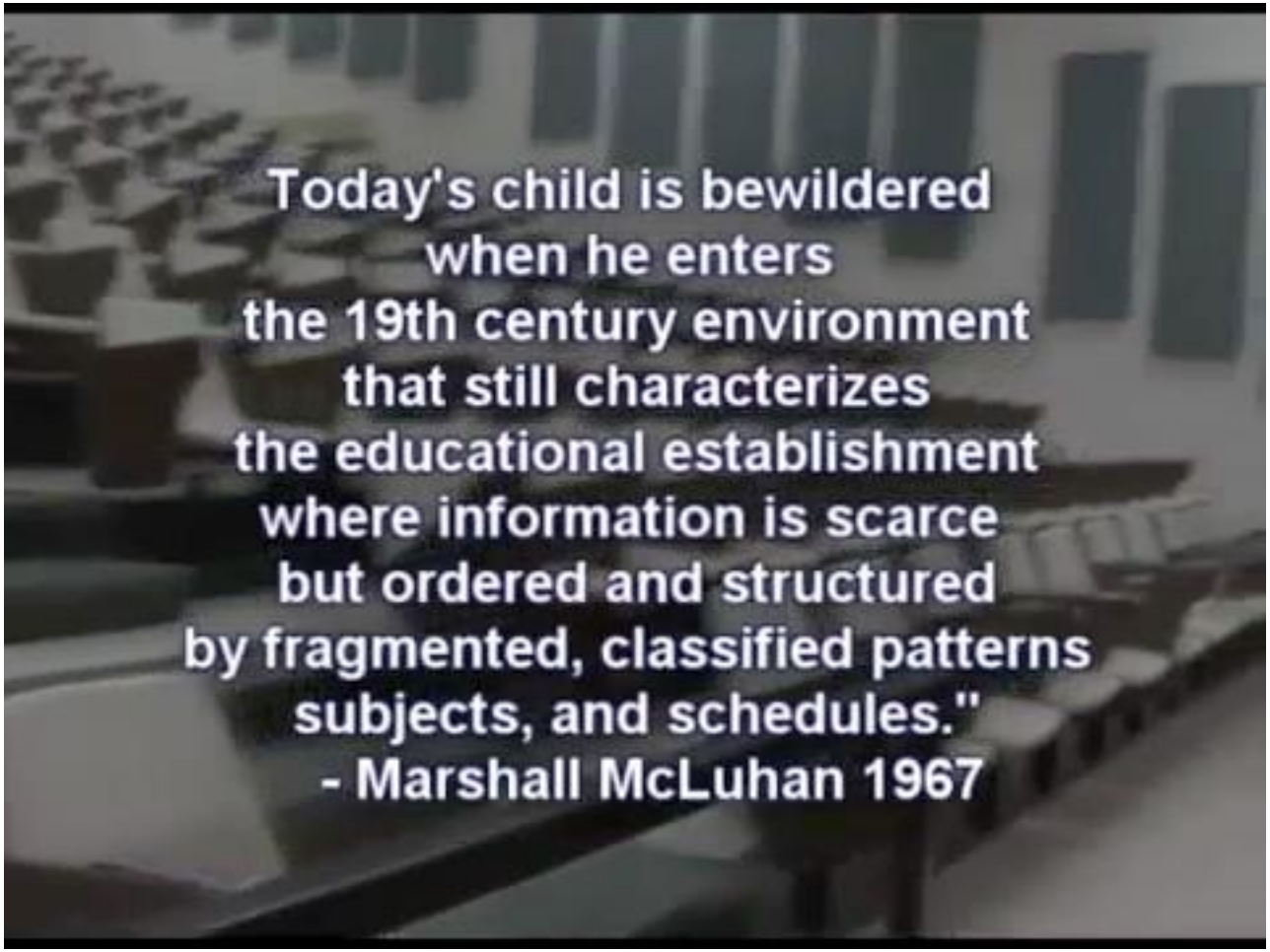
# Curriculum Review Process

Previous Cycle Rate – 10 years




New Cycle Rate – May Need To Be 2-3 years or Every Year


Today's child is bewildered
when he enters
the 19th century environment
that still characterizes
the educational establishment
where information is scarce
but ordered and structured
by fragmented, classified patterns
subjects, and schedules."
- Marshall McLuhan 1967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- Marshall McLuhan 1967

# Where Can We Go ?

- Move away from ppt/lectures

- Bring simulation into first and second year classes creating an immediately useful curriculum

- Class for entering students on how to vet internet sites.

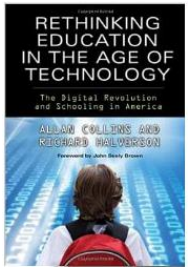
- Think out of the box with new ideas
  - focus groups with entering students on digital technologies they use
  - consider using social networking technologies for PBL's
    - Facebook, Linkedin, Twitter, Myspace
    - Google Docs
  - 'crowd sourcing'
  - mobile/ubiquitous computing
  - webinars
  - gaming 'philosophy', not necessarily gaming to medical education

# What If We Do Nothing ?

**Digital Natives, Digital Immigrants;** By Marc Prensky *On the Horizon* (MCB University Press, Vol. 9 No. 5, October 2001)

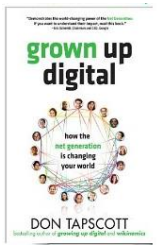
Born Digital
Understanding the First Generation of Digital Natives
John Palfrey, Urs Gasser

Publication Date 2008



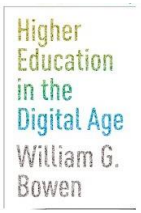

Rethinking Education in the Age of Technology: The Digital Revolution and Schooling in America (Technology, Education--Connections)
**Allan Collins,**
**Richard Halverson**

**Publication Date 2009**




**Grown Up Digital: How the Net Generation is Changing Your World**
**Don Tapscott**

**Publication Date 2008**




**Publication Date 2013**

# Discussion