



COMMONWEALTH
of LEARNING

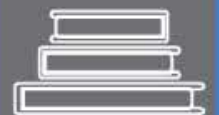
Teacher
Education

Teacher**Futures**

eLearning Design

ANALYSIS + DESIGN

Presenter: Melisa Achoko Allela





Scenario

Boyie, the principal, has decided that eLearning is a good option for covering some training needs.

Georgie, the teacher educator, is in charge of initiating and coordinating an eLearning project involving teacher trainers and teachers from various parts of the country. The eLearning initiatives should consider the institutions' low level of ICT penetration

Georgie needs to know the process to follow and the resources required to develop eLearning content and deliver the course through the Internet.

Formats

Formats

- **Self-paced:** self-paced and facilitated/instructor-led.
- **Instructor Led/Facilitated**

Communication



Synchronous

Time dependent: Chat and Instant Messaging, Video and audio conference, Live webcasting



Asynchronous

Time independent: E-mail, Discussion forum, Wiki, Blog, Webcasting



Components

- eLearning content
- Collaborative learning
- Virtual learning environment
- Digital resources e.g. interactive e-lessons, videos, simulations

Instructional Design

‘Learning is facilitated when:

1. Learners are engaged in solving real-world problems.
2. Existing knowledge is activated as a foundation for new knowledge.
3. New knowledge is demonstrated to the learner.
4. New knowledge is applied.
5. New knowledge is integrated into the learner’s world

Merrill, D. (2002). First principles of instruction.

Educational Technology Research and Development 50, 3, pp. 43–59

Instructional design

Systematic development of specifications using learning and instructional theory to

‘Learning is facilitated when:

1. Learners are engaged in solving real-world problems.
2. Existing knowledge is activated as a foundation for new knowledge.
3. New knowledge is demonstrated to the learner.
4. New knowledge is applied.
5. New knowledge is integrated into the learner’s world

Merrill, D. (2002). First principles of instruction.

Educational Technology Research and Development 50, 3, pp. 43–59



Instructional Design

- Good design and planning is critical for successful e-learning projects
- carefully crafting learning objectives at a level appropriate for the knowledge and skills that are being developed.
- Aligning learning objectives to learning activities and assessment.
- designing learning activities that help learners to develop their understanding of the content and to develop the skills that are being taught
- Re-use

ANALYSIS

DESIGN

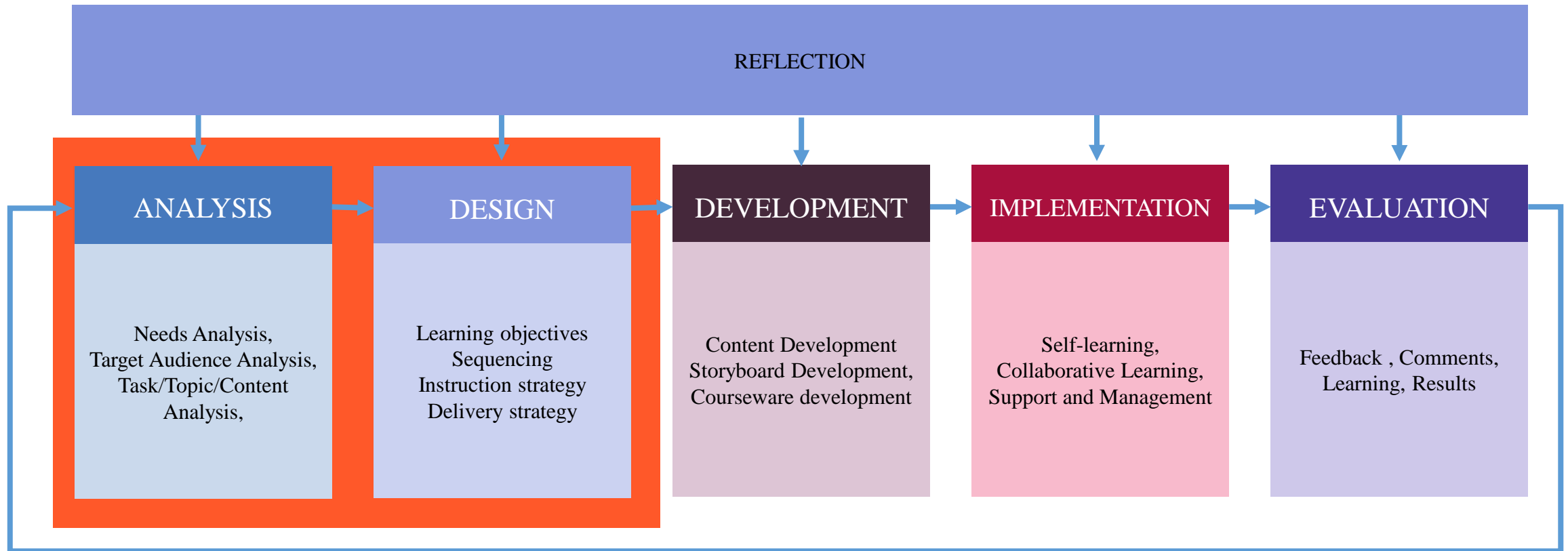


DEVELOPMENT

EVALUATION

IMPLEMENTATION

ADDIE



Scenario

“Which topics will the course cover? And in which order?”



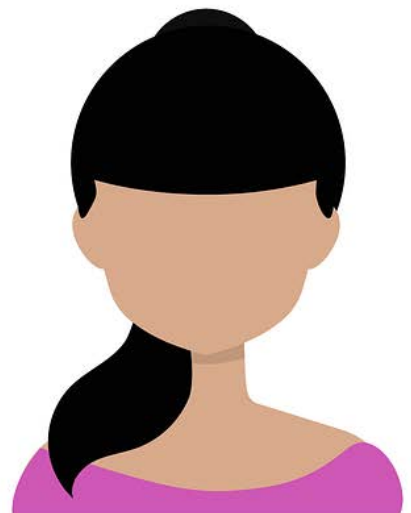
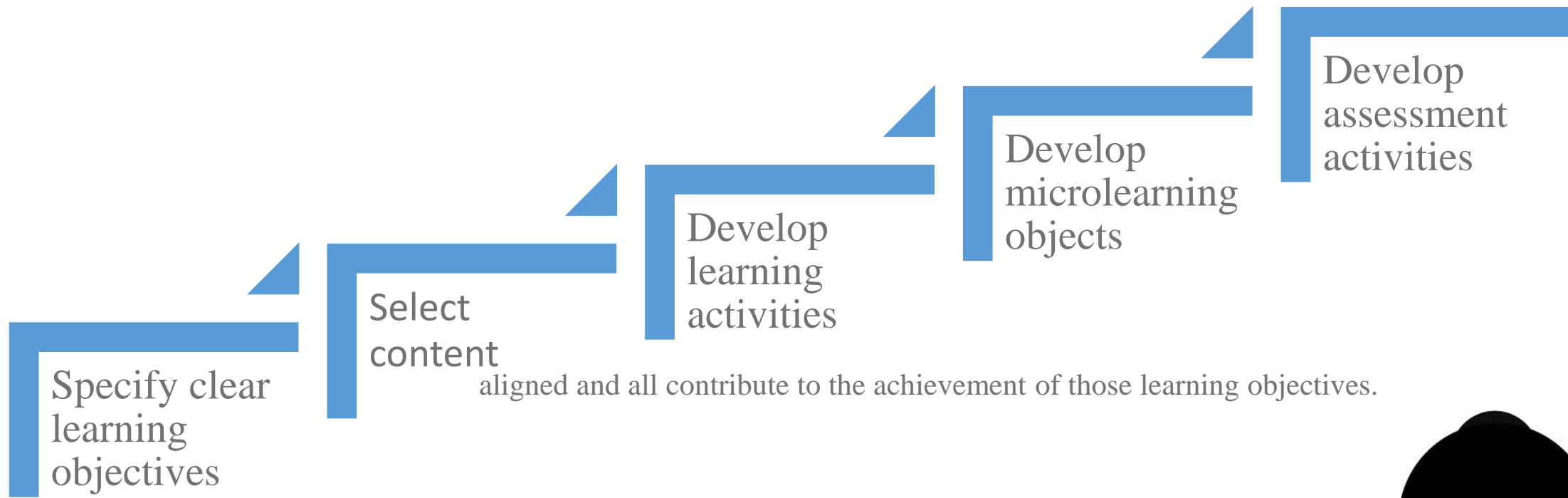
Issa the teacher educator and Petra, the Instructional Designer, are brainstorming about which topics to cover in an eLearning course aimed at English Language teaching.

Petra asserts that there are several crucial topics – ranging from listening for pronunciation practice to listening for communication purpose– that are relevant to the course objective. However, not all of them can be covered by a single course and probably not all of them are really needed.

LEARNER CENTERED
“what do you want my students to learn?”
“what do you want students to be able to do at the end of this course”



Petra suggests a few methods to prioritize the content and organize it into a logical flow.



1. Analysis

- TARGET AUDIENCE (Learner Characteristics)
- CONTEXT ANALYSIS
- TASK AND TOPIC ANALYSIS

Prior knowledge

Motivation

Expectations

Group characteristics

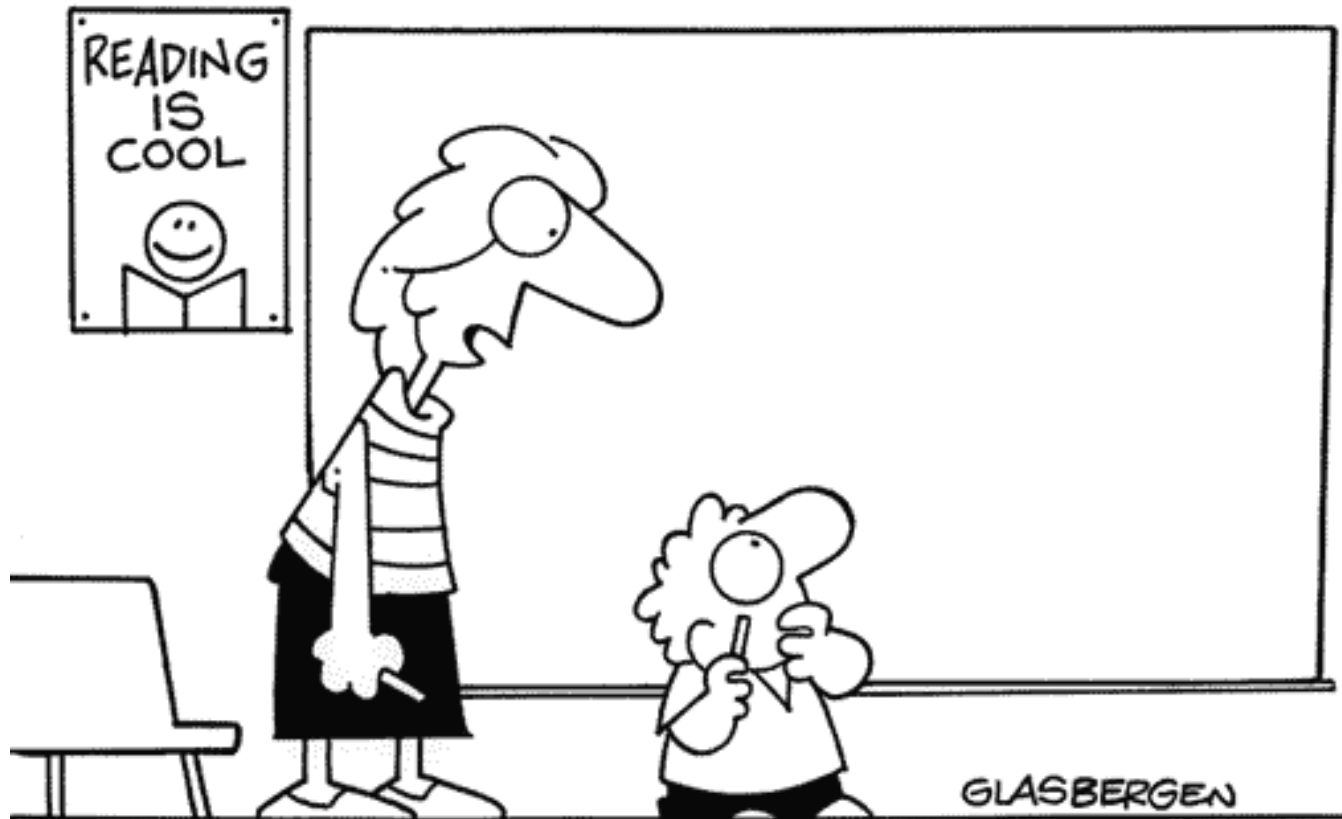
Background

Level of self regulated learning

...

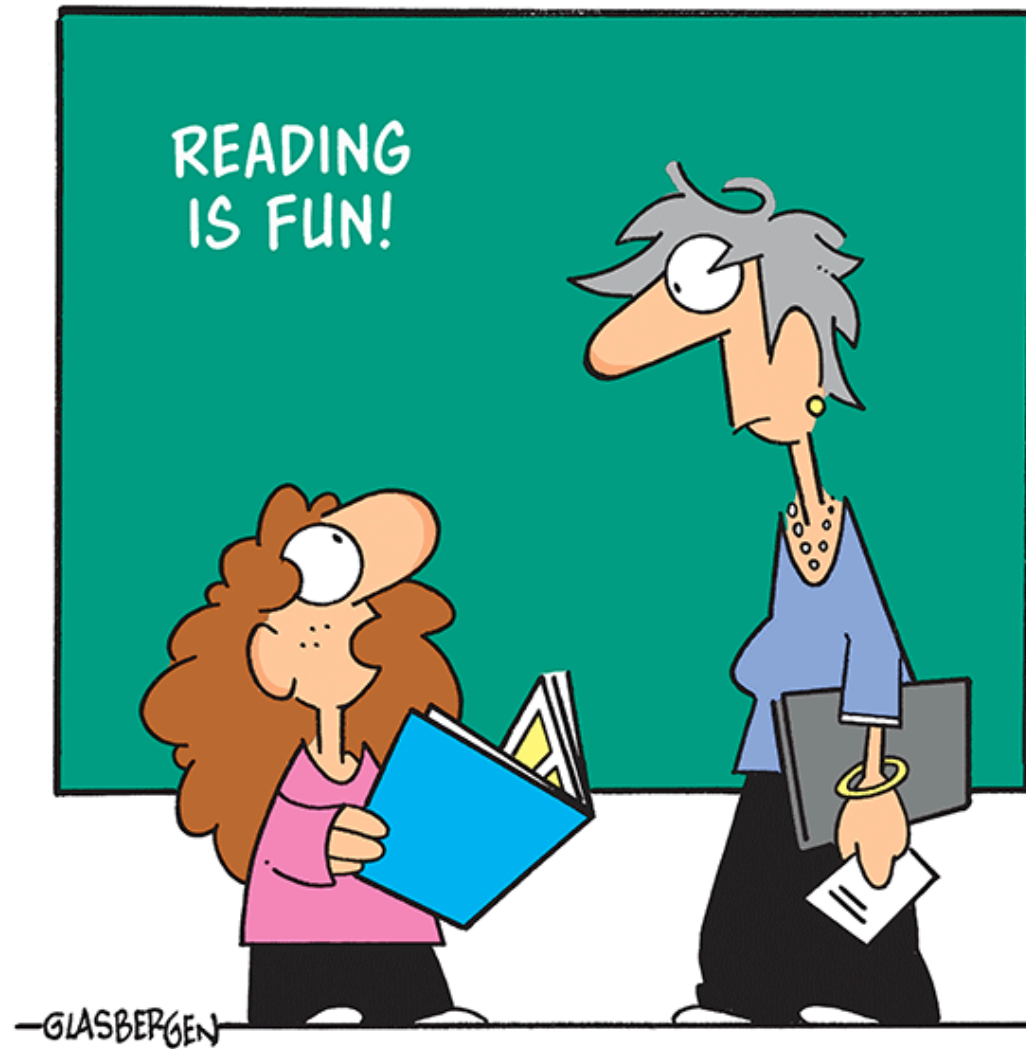
Digital natives

Copyright 1996 Randy Glasbergen. www.glasbergen.com



ICT-minded
Multitasking
Media literate
A-linear, a-synchronous
Explorative, interactive
With a positive attitude
Target oriented
Social, connected
As partners with educators
...

“There aren’t any icons to click. It’s a chalk board.”



"I tapped the page, but nothing happened!"

UNI DEGREES

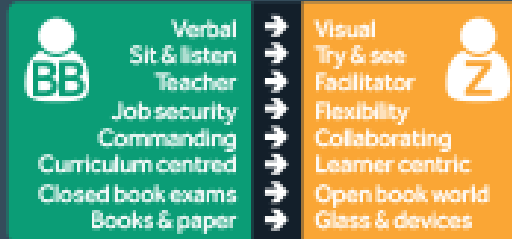


MOBILITY



IN A LIFETIME*

EFFECTIVE ENGAGEMENT



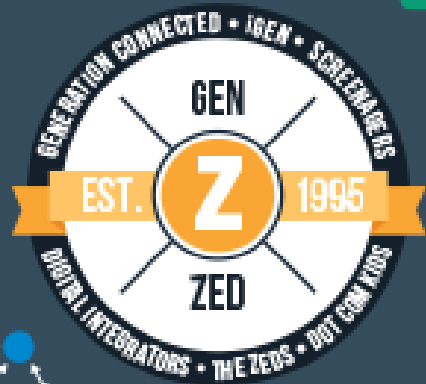
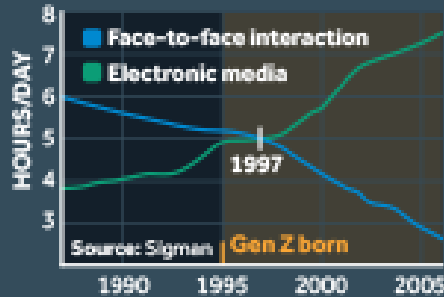
TOP NAMES

- | | | |
|---------|---|-----------|
| Oliver | 1 | Charlotte |
| William | 2 | Olivia |
| Jack | 3 | Amelia |
| Noah | 4 | Ava |
| Thomas | 5 | Mia |



2,500,000 Gen Alphas born globally each week

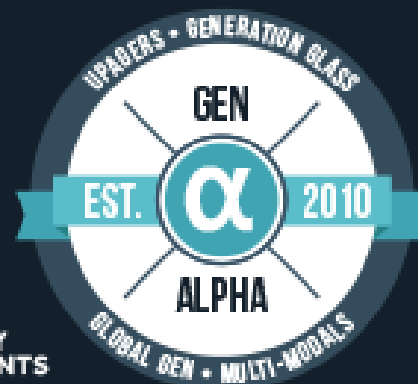
SCREENAGERS



TOP 6 POPULATIONS...

...if social media sites were countries

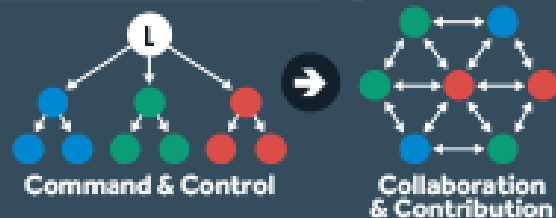
- | | | |
|---|---------------|-----------|
| 1 | Facebook | 1600 mil. |
| 2 | China | 1380 mil. |
| 3 | India | 1320 mil. |
| 4 | Instagram | 400 mil. |
| 5 | United States | 325 mil. |
| 6 | Twitter | 320 mil. |



GEN Y PARENTS



LEADERSHIP STYLES



GLOBAL 2,000,000,000 2 BILLION GEN Zs

REDEFINED LIFESTAGES



WORKFORCE OF 2025

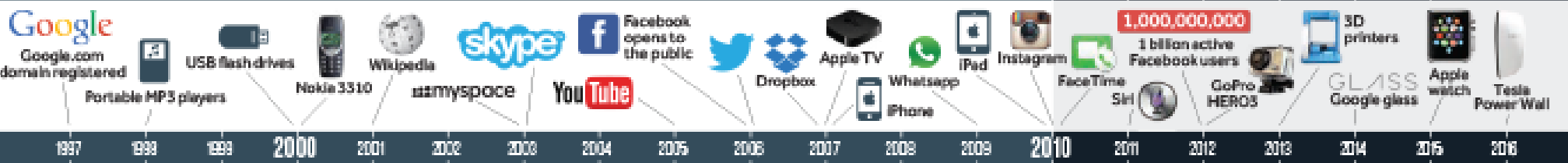


MEME OF THE YEAR

- Photo-bombing Planking Gangnam Style The Fox Icebucket Challenge Blue & Black/White & Gold

WORD OF THE YEAR

- App Cloud Hashtag Selfie YOLO



Context Analysis

Accessibility

Mobility

Size of the group

Infrastructure

Culture

Resistance to technology

context

/ˈkɒntekst/ 

noun

the circumstances that form the setting for an event, statement, or idea, and in terms of which it can be fully understood.

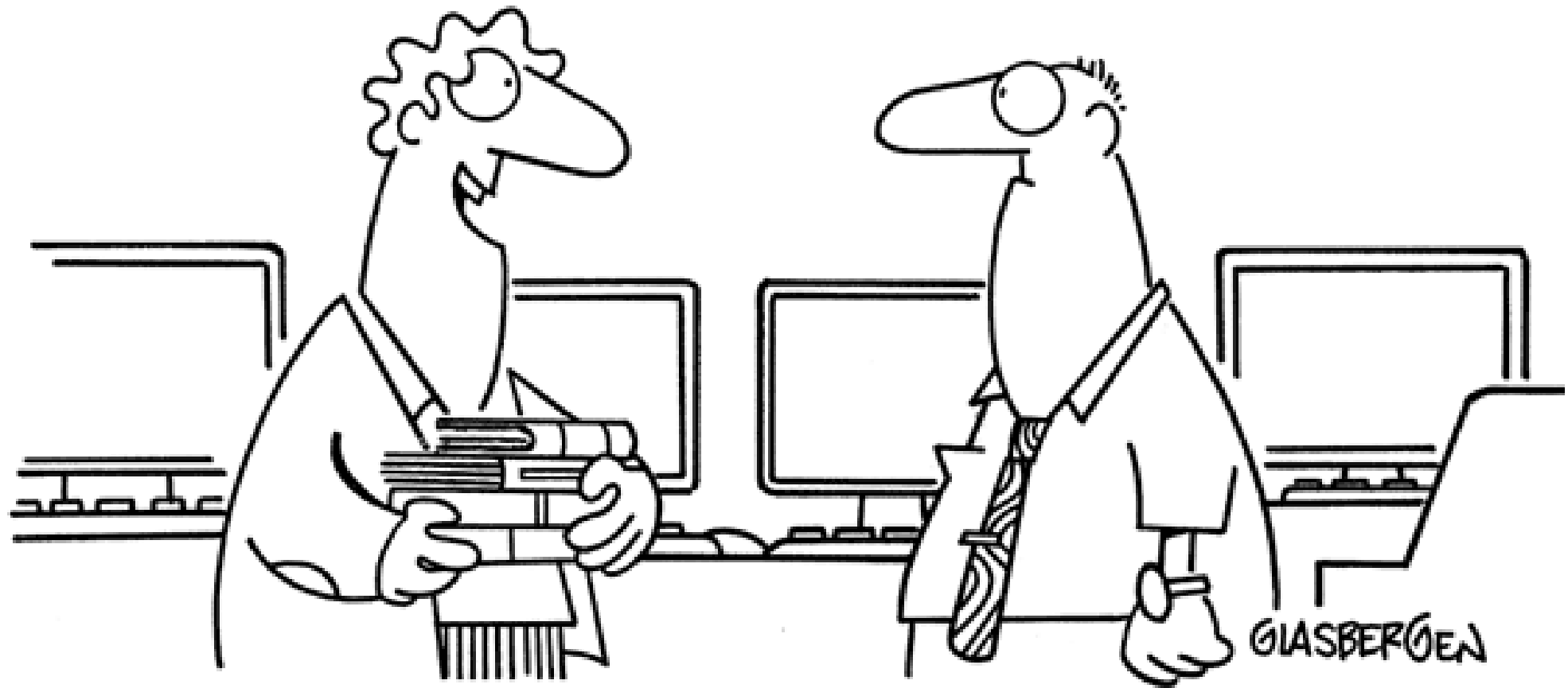
"the proposals need to be considered in the context of new European directives"

synonyms: circumstances, conditions, [surroundings](#), factors, state of affairs; [More](#)

- the parts of something written or spoken that immediately precede and follow a word or passage and clarify its meaning.

"skilled readers use context to construct meaning from words as they are read"

© Randy Glasbergen.
www.glasbergen.com



"I'm taking an innovative approach to teaching this semester. I'm using books!"

SWOT

Relevance of the content and course objectives for the learner

Do they meet existing needs?

Type of learning activities offered by the course

are they interesting, inspiring and well-matched to the level of the participants?

Course duration, timing and number of hours to be invested

do they fit with the participants' availability?

Technical aspects

is the technical solution appropriate to learners? Are the technical elements (e.g. the learning platform and its functions) clear and understandable to participants?

2. Design

- Teaching Methods
- Learning Activities



Bloom's Digital Taxonomy

	Bloom's taxonomy	Bloom's modified taxonomy	Bloom's extended digital taxonomy	Functional Levels	Activities with digital tools	
Disseminating learned information			Sharing	Publicly sharing, publishing, broadcasting	Contributing to open social networks, publishing, broadcasting, networking	Higher Order Thinking Skills ↑
Putting elements together to form a new function whole	Evaluation	Creating	Creating	Designing, constructing, planning, producing, inventing, devising, making	Programming, filming, animating, blogging, video blogging, mixing, re-mixing, wiki-ing, videocasting, podcasting, directing	
Make judgements based on criteria or standards	Synthesis	Evaluating	Evaluating	Checking, hypothesising, critiquing, experimenting, judging, testing, detecting, monitoring	Blog commenting, reviewing, posting, moderating, collaborating, refactoring, testing	
Break concepts into parts, determine how parts interrelate	Analysis	Analyzing	Conceptualizing	Comparing, organising, deconstructing, attributing, outlining, finding, structuring, integrating	Hacking, mashing, linking, validating, reverse engineering, cracking	
Use learned information	Application	Applying	Applying	Implementing, carrying out, using, executing	Running, loading, playing, operating, uploading, sharing with group, editing	
Constructing meaning from different forms	Comprehension	Understanding	Connecting	Interpreting, summarizing, inferring, paraphrasing, classifying, comparing, explaining, exemplifying	Boolean searches, advanced searches, blog journaling, tweeting, categorizing, tagging, commenting, annotating, subscribing	
Memory to recollect facts, produce definitions, retrieve material	Knowledge	Remembering	Doing	Recognizing, listing, describing, identifying, retrieving, naming, locating, finding	Bullet pointing, highlighting, bookmarking, group networking, shared bookmarking, searching	Lower Order Thinking Skills ↓

Reflection (Journal entry)

1. Which teaching methods are you using in your course?
2. Which teaching methods do you want to use in your project/course?
3. Can you imagine an appropriate teaching method for each level in the Bloom's digital taxonomy?

Top tools for learning

TOP TOOLS FOR LEARNING 2016

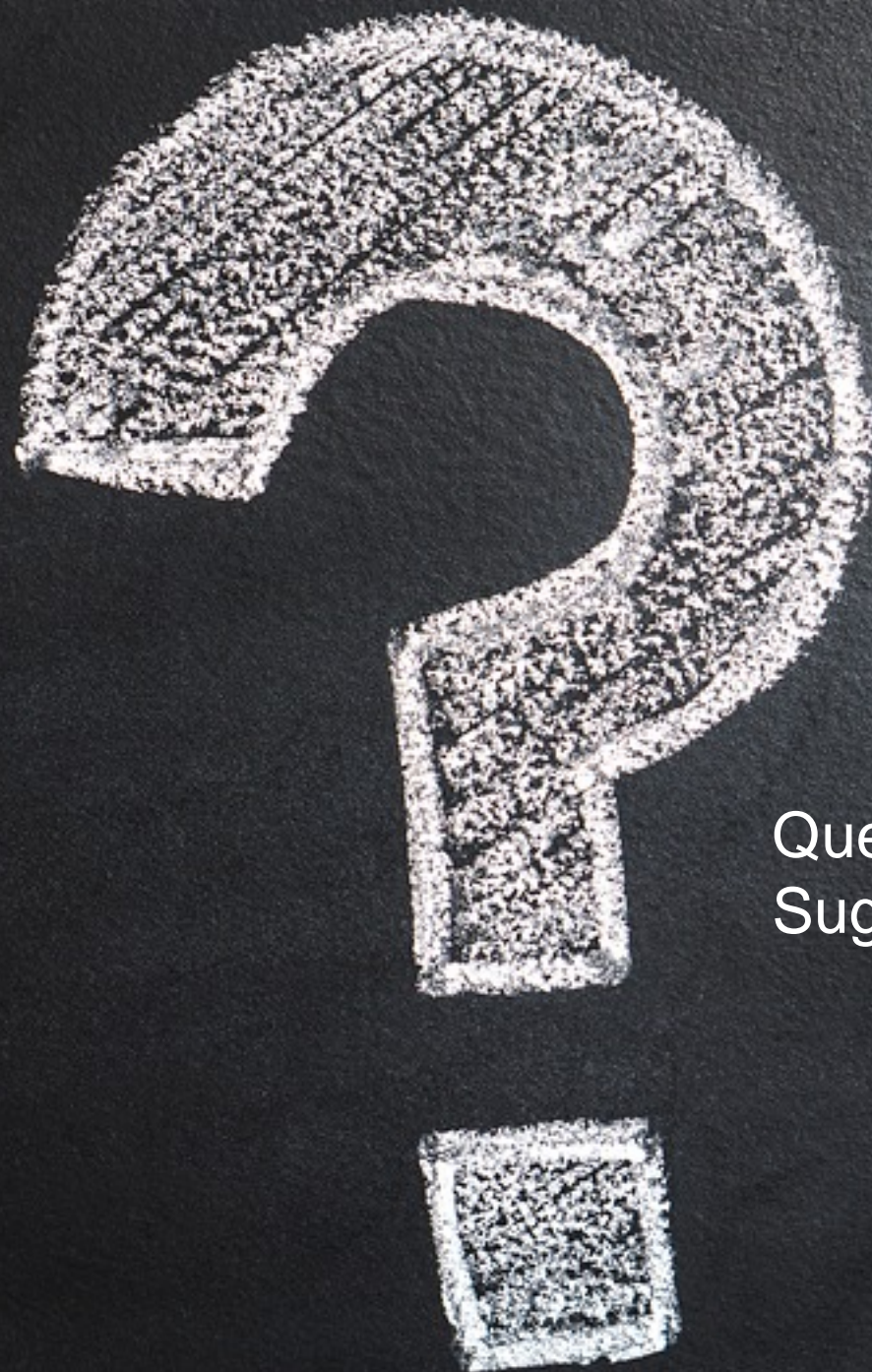
ABOUT ▾ TOP TOOLS LISTS ▾ VOTE 2017 C4LPT ▾ 🔍

Here are the 2016 Top 200 Tools for Learning list compiled by Jane Hart of the Centre for Learning & Performance Technologies. How are all these tools being used for learning? Take a look at the [Best of Breed 2016](#) list where I categorise the different tools, or the 3 sub-lists [Top 100 Tools for Personal Learning 2016](#), [Top 100 Tools for Workplace Learning 2016](#) and the [Top 100 Tools for Education 2016](#). To get an overview of how the tools in these 3 Top 100 lists fit into the Top 200 list, see the [Comparison View](#). Analysis of this year's list appears beneath the list.

1. YouTube	51. EasyGenerator	101. Pixabay 🌟	151. Notability
2. Google Search	52. Khan Academy	102. Confluence 🌟	152. Delicious
3. Twitter	53. Quizlet	103. OneDrive	153. aNewSpring 🌟
4. PowerPoint	54. Diigo	104. MindManager	154. Bing
5. Google Docs/Drive	55. Socrative	105. FutureLearn 🌟	155. Kaltura 🌟
6. Facebook	56. Blogger	106. XMind 🌟	156. Moovly
7. Skype	57. Canva	107. Adobe Illustrator 🌟	157. Explaindio 🌟
8. LinkedIn	58. iPad & Apps	108. Desire2Learn (D2L) 🌟	158. Zeetings 🌟
9. WordPress	59. Sway	109. Jing	159. ILIAS 🌟
10. Dropbox	60. Google Scholar	110. Nearpod	160. Remind 🌟
11. Wikipedia	61. Udutu	111. Wordle	161. WeVideo 🌟
12. Yammer	62. Adobe Connect	112. Wix 🌟	162. Showbie 🌟
13. WhatsApp	63. iTunes & iTunesU	113. Branchtrack 🌟	163. PlayPosit 🌟
14. Prezi	64. Keynote	114. eXe	164. Codecademy 🌟
15. Kahoot	65. Firefox	115. Animoto	165. Periscope 🌟
16. Word	66. Zoom 🌟	116. Adobe Premiere 🌟	166. Vrideo 🌟
17. Evernote	67. Canvas	117. LibreOffice 🌟	167. Claro 🌟

Privacy & Cookies Policy

Learning activities	Teaching method	Media/tools
<p>Instruction: T presents, S listen</p>	<p>Lecture Demo</p>	<p>Audio/video recordings Screencasting Webcolleges Video communication</p>
<p>Interaction: T interacts/ communicates, S communicate with each other</p>	<p>Brainstorm Discussion Debate Role play</p>	<p>Mindmapping Forum Weblog Edugames Virtual world Video communication</p>
<p>Collaboration : T guides / coaches S work together</p>	<p>Project Group work</p>	<p>Virtual classroom Collaborative workspace Social media ePortfolio</p>



Questions?
Suggestions?