

Marc Prensky's Digital Natives

Do you speak technology with an accent?

Changing profile of today's learners

Marc Prensky "Digital Natives/Digital Immigrants" <http://www.marcprensky.com/>



Marc Prensky's Digital Natives

“Today’s students – K through college – represent the first generations to grow up with this new technology. They have spent their entire lives surrounded by and using computers, videogames, digital music players, video cams, cell phones, and all the other toys and tools of the digital age. Today’s average college grads have spent less than 5,000 hours of their lives reading, but over 10,000 hours playing video games (not to mention 20,000 hours watching TV). Computer games, email, the Internet, cell phones and instant messaging are integral parts of their lives.”

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Games and Learning



Games and Learning

Marc Prensky's Digital Natives

Characteristics of games that keep user attention

- Engagement
- Action
- Problem solving
- Visible results

Strategies to include active participation

Computer games as a serious training tool



Audio tools - and podcasting

Why include audio files?

- Portability
- Learning reinforcement
- Meet the needs of the audio learner

Types of audio files

- wav, mov, ogg, mp3
- mp3 files can be highly compressed and maintain good audio quality



Audio tools

- Sound quality and file size issues
- The bitrate of an audio file is a key indicator of the quality level of that file.
- 2 minutes of audio
 - 128K 2MB CD quality
 - 64K 1MB FM radio
 - 32K .5MB AM radio



Audio tools

- Hardware to produce audio files
- Computer
- Microphone



Audio tools

- Software to produce audio files
 - Audacity
- Subscribing to audio files
 - RSS creation – either using Notepad or feedburner.com
 - Bloglines/Google Reader
- Getting the files from your computer to someplace else (mp3 player, CD)



Audio tools

VoIP – Voice over Internet Protocol

Skype, GoogleTalk

Bandwidth issues



Podcasting



Podcasting

Maagnursing

<http://www.maagnursing.com/podcast/>

Nursing Spectrum

<http://nursingspectrum.netstation.us/>

Federal Websites

[http://www.firstgov.gov/Topics/Reference_Shelf/
Libraries/Podcasts.shtml](http://www.firstgov.gov/Topics/Reference_Shelf/Libraries/Podcasts.shtml)



Visual tools

- PowerPoint and Open Office Impress
- Adding audio to PowerPoint/Impress
- Adding video to PowerPoint/Impress



Visual tools

- Another option: PowerBullet
 - <http://powerbullet.com/>
 - Flash based application
 - Images, animation and audio
- Enhanced Podcasts
 - Podcasts with pictures
 - Currently need a Mac to produce
- Video Blogs – vlog
 - Podcasts using video files



Video tools

- Videoconferencing using Skype/Eyeballchat
 - * Skype (www.skype.com)
 - * Google talk (www.google.com/talk)
 - * Gizmo (www.gizmoproject.com)
 - * Free Conference Calling (www.freeconference.com/)



Kinaesthetic

Blogs (web logs), podcasts, and wikis constitute a sub-set of what are commonly described as Web 2.0 or social networking tools.

They increasingly provide international online communication and collaboration among nurses and health informaticians.

Many applications are available as libre/free and open source software and will run on all operating systems – eg GNU/Linux, Mac OS ... (and Windoze if you must).



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Blogs – some basics

A blog (or weblog) is a website in which messages are posted and displayed with the newest at the top ... blogs often focus on a particular subject ... Some blogs function as online diaries. A typical blog combines text, images, and links to other blogs, web pages, and other media related to its topic.

<http://en.wikipedia.org/wiki/Blog>



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Blogs – structure

A blog is usually edited, organised and published using a Content Management System (CMS) ... many of are built with Linux/Apache/MySQL/PHP (LAMP) architecture.

Blogger (www.blogger.com) - owned by Google

WordPress (www.wordpress.com) - FLOSS

Serendipity (s9y.org) - FLOSS



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Blogs – structure

And then it starts to get interesting ;-))

Other embellishments we have used:

- * automatic podcasts with text-to-speech software
eg Talkr, feed2podcast
- * RSS feeds – Feedburner, etc.
- * tags –Technorati, etc
- * added swickis and other things



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Blogs and wikis

- Asynchronous collaborative documents
- Wikis can be challenging due to specialized syntax
- Simpler versions can be found
 - <http://www.jot.com>
 - <http://www.writeboard.com>
 - <http://www.pbwiki.com>
 - <http://www.zohowiki.com>



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Tests, surveys and visual outlines

- What is the goal?
 - documentation of completion or assessment of retained information?
- Integrated into LMS such as Moodle
- Mind Maps
 - http://en.wikipedia.org/wiki/List_of_Mind_Mapping_software



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Tests and surveys

<http://surveymonkey.com> (great survey tool)

- Home grown options
 - Email
 - Simple javascript quizzes
 - Testing engines and question banks
- Commercial options



Free/libre and open source applications

Audio: Audacity: <http://audacity.sourceforge.net/>

Graphics: GIMP: <http://www.gimp.org/>

LMS Moodle: <http://www.moodle.org/>

Office Suite: Open Office: <http://openoffice.org/>

Visual: PowerBullet: <http://powerbullet.com/>

VOIP: Skype: <http://www.skype.com/>

Videoconference: Eyeballchat



And now, the end is near ...

General discussion

What didn't we cover?

What do you want to discuss, look back at, argue about?



Closing

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Closing

