# iPad in Education

Implementing ihe Apple iPad in teaching and learning environments

THOUGHTS ON PEDAGOGY



EMBODIED EMBEDDED COGNITION



- \* BRAIN, BODY AND MIND INTERPLAY
- \* SITUATED COGNITION AND LEARNING
- \* LEARNING IS A JOURNEY
- \* THE STUDENT IS NOT AN EMPTY CONTAINER TO BE FILLED
- \*STUDENT SEEKS STATES OF CHANGE AND STIMULUS TO ACT
- \*DYNAMIC SYSTEMS THEORY

PROCESS AND PRODUCTS NOT TOOLS AND MEDIA

FACILITATE TRANSFORMATION

PROMOTE A CHANGE IN STATE

SIMPLE NOT COMPLEX

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# APPROPRIATE USE

- \* WILL NOT REPLACE LAPTOPS OR DESKTOPS ... NOT YET
- \* IS AN ADJUNCT TO THE PERSON
- \* EACH USER INTERACTS WITH THESE DEVICES DIFFERENTLY



# IN THE FIELD



## WORKING WITH THE IPAD

- \* BYOD
- \* BYOA
- \* MAKE THE DEVICE "DISAPPEAR"
- \* MODEL THE OUTCOMES
- \* BE "DEVICE INDEPENDENT"

- \* PLAY
- \* EXPERIMENT
- \* SHARE YOUR DISCOVERIES
- \* ASK
- \* ENCOURAGE EXPERTS

## TYPICAL QUESTIONS

- \* WHERE IS THE HARD DRIVE ICON?
- \* WHERE ARE THE FILES AND FOLDERS?!
- \* HOW COME IT DOES NOT WORK LIKE A THUMB DRIVE?
- \* HOW DO I EJECT IT?

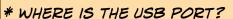
- \* WHERE ARE THE FILES?
- \* WHERE ARE THE FOLDERS?
- \* HOW DO YOU UPLOAD?
- \* HOW DO YOU DOWNLOAD?
- \* I CAN ONLY SEE APPS ...



#### LOOK AT ALL THESE APPS!!!

- \* SOME APPS ARE FREE
- \* SOME APPS ARE NOT FREE
- \* FREE DOES NOT EQUATE WITH GOOD
- \* VAST MAJORITY OF APPS ARE USELESS
- \* FEW APPS ARE PRACTICAL

- \* NO MOUSE
- \* NO KEYBOARD
- \* NO HARD DRIVE CASE
- \* NO TOWER
- \* NO CABLES



- \* WHERE IS THE VGA PORT?
- \* WHERE IS THE DVD DRIVE?
- \* HOW DO I ADD PHOTOGRAPHS?
- \* HOW DO I ADD DOCUMENTS?
- \* WHERE IS THE KEYBOARD?



## IMPLEMENTATION

IPAD OWNERSHIP: INSTITUTION OR STUDENTS?

APP PURCHASE: INSTITUTION OR STUDENTS?

POWER SUPPLY: INSTITUTION OR STUDENTS?

SAFEKEEPING: INSTITUTION OR STUDENTS?

MAINTENANCE: INSTITUTION OR STUDENTS?

NETWORK ACCESS: INSTITUTION OR STUDENTS?





- \* INVESTIGATE A COST MODEL FOR INFRASTRUCTURE, TECHNOLOGY AND SERVICES.
- \* STUDY THE REQUIREMENTS OF ALL THOSE INVOLVED IN THE USE OF THE TECHNOLOGY (LEARNERS, TEACHERS, CONTENT CREATORS) TO ENSURE IT IS USABLE AND ACCEPTABLE.
- \* ASSESS THAT THE TECHNOLOGY IS SUITED TO THE LEARNING TASK AND



- \* **ASSIGN** THE NECESSARY ROLES FOR INITIATING AND THEREAFTER SUPPORTING MOBILE LEARNING
- \* **DEVELOP** PROCEDURES AND STRATEGIES FOR THE MANAGEMENT OF EQUIPMENT WHEN IT IS PROVIDED BY THE INSTITUTION
- \* **PROVIDE** TRAINING AND (ONGOING) TECHNICAL SUPPORT TO THE TEACHERS TO ENABLE STAFF TO USE MOBILE TECHNOLOGIES TO ENHANCE CURRENT AND TO ENABLE NEW INSTRUCTIONAL ACTIVITIES.



- \* CONSIDER THE USE OF MOBILE TECHNOLOGIES FOR STUDENT ADMINISTRATION TASKS
- \* **PLAN** THE USE OF MOBILE TECHNOLOGIES TO SUPPORT COLLABORATIVE AND GROUP LEARNING.
- \* **DISCOVER** AND ADOPT SUITABLE APPLICATIONS THAT MATCH THE NEEDS OF YOUR SPECIFIC CLASSROOM AND MAP DIRECTLY TO YOUR CURRICULUM NEEDS-
- \* ENSURE SECURITY AND PRIVACY FOR THE END USERS.

## PROGRAMMING LESSONS

#### TRY DIFFERING APPROACHES

- \* CURRICULUM MAPPING ~ MATRICES
- \* SHORT SHARP UNITS OR TOPICS
- \* SEMESTER LENGTH STUDIES
- \* COLLABORATIONS



#### CONSIDER THE ...

- \* URGENCY OF THE LEARNING NEED
- \* NEED FOR KNOWLEDGE ACQUISITION
- \* MOBILITY OF THE LEARNING SETTING
- \* INTERACTIVITY OF THE LEARNING PROCESS
- \* SITUATION OF THE INSTRUCTIONAL ACTIVITIES
- \* INTEGRATION OF INSTRUCTIONAL CONTENT

### PREPARATION

- \* BRAINSTORM OR MAP OUT YOUR LESSON IDEA
- \* DEVELOP A STORYBOARD
- GATHER YOUR DIGITAL RESOURCES



- \* IMAGES
- \* AUDIO
- \* VIDEO
- FTEXT





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- Background Music
- John\_Larkin's Playlist
- Listening Exam
- Protest Songs
- Relaxation Relaxation Activities
- Sound FX

- ▼ Door Opening And Closing
- ▼ Electrical Lock (Footsteps Exit/Enter)
- 25 V Small Motor Cycle In Traffic
- 26 Creaking Door Opens
- ✓ Creaking Door Close 27
- √ Jail Door Open, Close
- 29 ▼ Door Slamming
- ✓ Footsteps Up Steps, Key In Lock, Door.... 30





Hunger City People

## PROGRAMMING LESSONS

#### CHOOSE AN APP

#### WHICH OUTPUT DO YOU PREFER?

- \* GRAPHIC STORY: COMIC LIFE
- \* HYPERTEXT STORY: COMPOSER
- \* NEVER-ENDING STORY: POSTEROUS
- \* TWO MINUTE MOVIE: REEL DIRECTORS, IMOVIE, SPLICE
- \* PHOTOGRAPHIC STORY: REEL DIRECTOR
- \* ORAL HISTORY: GARAGEBAND, QUICKVOICE
- \* COLLABORATIVE STORY: WORDPRESS, POSTEROUS





## POSITIVES AND NEGATIVES

- \* ANYTIME, ANYWHERE
- \* ENHANCED INTERACTIONS BETWEEN STUDENTS AND INSTRUCTORS
- \* PERFORMANCE SUPPORT OPPORTUNITIES
- APPEAL TO TECH SAWY STUDENTS
- \* SUPPORT DIFFERENTIATED LEARNING STYLES

FACILITATE COLLABORATION



- \* TRUE MOBILITY
- \* PERSONALISED LEARNING
- \* NOT ALWAYS RELIANT ON NETWORKS IF APP IS SELF CONTAINED
- \* RELIEVE THE ROLE OF ICT IN INSTITUTIONS
- \* REPURPOSE COMPUTER LABS
- \* REKINDLE INTEREST IN READING?
- \* A SOLUTION TO HEAVY STUDENT BACK-PACKS?
- \* REDUCE TEXT-BOOK COSTS IN THE LONG TERM?
- \* A NEW HUMAN COMPUTER INTERFACE PARADIGM ...
- \* LACK OF FLASH SUPPORT ~ TRY SKYFIRE APP (\$2.99)
- \* NO CAMERA
- \* NO SD CARD OR TRADITIONAL USB SLOT
- \* MANY POOR QUALITY APPS ~ PROMISE MUCH ~ DELIVER LITTLE
- \* PASSCODE LOCKS



- \* DESIGNED FOR AN INDIVIDUAL
- \* NOT MEANT TO BE "SHARED"

MULTIPLE USER ACCOUNTS NOT POSSIBLE

- \* DOES NOT MOUNT AS A VOLUME OR DISK
- \* INCONSISTENT APPROACH TO FILE TRANSFER
- \* LIMITED VGA OUTPUT SUPPORT ON IPAD1

- \* IT IS A CLOSED DEVICE
- \* PROPRIETARY APPLE ENVIRONMENT
- \* ADDED COST OF PERIPHERALS
- \* NO SENSE OF OWNERSHIP CANNOT "PLAY" OR "EXPLORE" THE SYSTEM
- \* CANNOT PULL IT APART
- \* SOME FEEL IT IS PURELY A GLORIFIED TEXTBOOK