Roxina Filrang
Educational Technology
Graduate Student
University of Hawaii, Manoa

Digital Storybooks:
Where Stories Come to Life!
Instructional Design

❖ Digital Book
  - photography &
  - bookmaking skills

❖ Digital Storybook
  - literacy instruction
What is a digital storybook?

Story + Multimedia = Digital Storybook

learner

Interactivity
Kosrae: “Island of the Sleeping Lady”

Children embrace wisdom and knowledge imparted from elders.
“Learn by Doing” (Kinesthetic Learning)

- listen, observe & practice
- “model” or demonstrate
- otwof (weave)
- ahng (ginger)
- oak (canoe)

hands-on learning
Colonial influence has changed our social structure leaving our Kosraean population at risk for chronic diseases.
Culturally Responsive Instruction

❖ “Traditional Learning”
- aural & visual
- hands-on

hands-on learning

A child exploring technology in a classroom without walls.
Inspiration

❖ Weave
- Pacific Islanders’ storytelling art
- 21st century digital art
❖ Incorporate
- digital images
- videos
- audio recordings
Participants

- 17 College Students
  - assistive technology course
  - digital natives
  - education related majors
  - “novice” teachers

Every participant completed the 1 and 1/2 hour evaluation session with a positive attitude.
Methods

❖ Multiple Choice Tests
  - pre-, practice & post tests
❖ Survey
  - module and delivery
❖ Hands-on Practice Exercise
  - elicit performance (Gagne #6)
What is a slide?

A slide is a digital page in your storybook. It is a platform where the text is enriched with your media files.
Basic Elements of a Digital Book

Multimedia
- text, audio, photograph & video

Framework
- presentation software (e.g., Keynote or PowerPoint), slide, layout & transition

Digitization
- digital file, format, type & import
Quantitative Results

Overall Average Performance for Participants.

<table>
<thead>
<tr>
<th>Scores (%)</th>
<th>Pre-Test</th>
<th>Practice Test</th>
<th>Post Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>61%</td>
<td>80%</td>
<td>78%</td>
<td></td>
</tr>
</tbody>
</table>

These results suggest that the digital storybook module was successful in helping the participants both learn and retain the information.
## Quantitative Results

### Overall Group Performance

<table>
<thead>
<tr>
<th>Question</th>
<th>Learning Objective</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Slide Dimensions</td>
</tr>
<tr>
<td>7</td>
<td>File Formats</td>
</tr>
<tr>
<td>14</td>
<td>Import</td>
</tr>
<tr>
<td>16</td>
<td>File Organization</td>
</tr>
</tbody>
</table>

Learning was highest in these four areas.
Quantitative Results

**Participants' Overall Performance**

- Pre-Test
- Practice Test
- Post Test

Scores

1. Story Elements
2. Slide Dimensions
3. Font Size
4. Digital...
5. Media Elements
6. Camera Shots
7. File Formats
8. File Types
9. Slide "Digital...
10. Slide Layout
11. Storyboard
12. Digitization
13. Technology...
14. Import
15. Photo...
16. File...
17. Order of...

Learning Objectives
Qualitative Results

❖ Attitudinal Survey
❖ Video Reflections
  - hands-on exercise
❖ Laulima
  - class discussion

The participants were given several different opportunities to express their feelings and observations regarding the module.
Qualitative Results

❖ Module Design
- simple, informative
& professional

“Roxina’s digital storybook was informative, interactive, and professional, and I was highly impressed by her organization and presentation of her work.”

“The whole process of learning through a Keynote presentation, taking the pre and post tests, and the survey, was a great way to learn the proper way of making a digital storybook...”
Qualitative Results

❖ Module Delivery
- cordial & enlightening

“I also thought that Roxina’s storybook was interactive and also visually appealing. I like how much she incorporated her culture into teaching about how to make a digital storybook.”
The use of digital storybooks in education can enhance student engagement and learning.
Opening Story

- Short Autobiography
  - gain attention
  - demonstration

“"The module was very informative and it was nice to see a story connected to the information.”

Sleeping Lady of Kosrae

kahto (beautiful)
Collaboration

❖ Support System
- on-site
- Dr. Skouge & sister Roxianna

akacruhi (teamwork)

Dr. Skouge
Traditional Dish

❖ Kosraean Soup
- fish &
- coconut milk

Roxianna (sister)

ik olwol (tuna fish)
kaki (coconut milk)
Closing Message

❖ Instructional Tool
  - planning and design
❖ Implement Digital Storybook
  - NOT limited to entertainment
Closing Message

❖ Fundamental Purpose
- think critically
- work collaboratively
- construct knowledge
- communicate
Insights

❖ What I learned from this experience?
Kuloh Na Ma Luhlahp (Thank You)!

Kuloh na ma luhlahp to the children in Utwe Village for taking these beautiful pictures of Kosrae.

Roxina Filrang  roxina@hawaii.edu  http://etec.hawaii.edu/proceedings/masters/2013/index.html