

THE UNIVERSITY OF HONG KONG  
FACULTY OF EDUCATION  
Master of Science in Library and Information Management

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Interactive Representations of Information and Knowledge

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Topic of assignment : Please submit one page MS Word document with link to your Blog by 28th of May, 2007. Ensure that by that time your blog contains all reflections, completed tasks, your final interactive representation, your instructions how it can be used, your roles in the team that designed the representation and the source code of your representation.

Assignment due date : 28<sup>th</sup> May, 2007.

Before attending this module, I mainly use PowerPoint for teaching and use Dreamweave to design website for my school library. Now I discover that **PowerPoint** is powerful since we can present a lot of information in a small screen space and communicate complex ideas through visual simplicity. **Flash (Macromedia Flash Professional 8)** is an effective learning tool and can catch viewers' attention. My technical skills have been improved gradually, since I have paid much efforts to do all activities and tasks. I now have more confidence to use drawing tool, timeline, action scripts, import images, create buttons, design sliders, add sound effect (**Music** "John Williams, Schindler's List Theme") and create animations to design and make effective visual and interactive representations. With Action Script, a flash application can provide a high level of interactivity. I can use **Photo Story 3** to design educationally effective digital stories with user-friendly technologies: "My school library", "Beijing Tour" and "Cambodia Tour". I learnt how to make "**Interactive Map** of Beijing" and "Interactive Map of Cambodia" by Flash. **Slider** is effective for creating interactive visual representations in Flash: "Development of Housing in Hong Kong", "History of Cambodia" and "Changes of Children in Cambodia". I also find that **Blog** can facilitate and contribute to my learning. All of the above have educational and communicative values.

This module gives me a framework of how visual representations affect the decision processes and how interactive visual representations to restructure information. Gershon, N., Stephen G. Eick, S.G., & Card, S. (). *Information visualization. Interactions, March, 9-15.* "Visualization is the process of transforming data, information, and knowledge into visual form making use of human's natural visual capabilities", p9. <http://en.wikipedia.org/wiki/Infographic> "Information graphics are visual representations of information, data or knowledge". I believe that visualization of abstract data is not straightforward. We need to find a good way to map data values to screen space.

As a teacher librarian, I should design the appropriate visual and interactive representations for teaching. As different people may have different interpretation for the same visual thing. Information should not be misleading and making a student to construct misconceptions. Application of information visualization on the computer involves providing means to transform and represent data in a form that allows and encourages students interaction. Lidia and I play an important role in design and doing our final assignment "The Daily Life of Children in Cambodia" of visual and interactive representations which are good resources and teaching aids for the lesson of Life Education ~ Although we can't change the world, we can change the attitude of our students towards poverty. We always contribute and share our ideas and technical skills each other. We understand that visual representations are not like PowerPoint presentations. There is always a single slide and all information is row to the user who can then interrogate it and interact with it. We consider to use animation if it is informative and not just to make thing move for fun. We use pictures and words which are qualitatively different; however, they can complement each other. We put visuals and text together in order to take advantage of the full capacity of students for processing of information. We have to try to present the visual in an attractive way so as to catch the students' attention and attract them to look closely. We hope our visual and interactive representations can allow our students to freely explore its content.

Daniel said (5<sup>th</sup> March, 2007) "Visualization allows us to go beyond information. Picture helps memorizing of information. These activities can be used in many different subject areas". PowerPoint and Flash play an important role in application of information visualization. Students can analyze by exploration and develop understanding. I am sure I can apply my learning from this module to my secondary school, school library and lessons. My students will get a great benefit from my learning.

## Appendix:

My partner, Lidia HO and I (Candy YIU) have paid much effort, energy and time to do our final assignment. Our contribution and sharing of technical skills and ideas are worth and will be a great benefit to our secondary schools.

1. We use “**Report by Flash**” to show the following information:

-Title, Subject, Target, Aim, Objective, Why do we choose this topic, How to Use.

<http://iln.cite.hku.hk/com/1374/users/klyiu2/Report.swf>

<http://iln.cite.hku.hk/com/1374/users/klyiu2/Report.html>

## 2. Supplementary resources of Final Assignment:

- (a) **Introduction of Cambodia Tour by Digital PhotoStory**: Our secondary school teachers, students and parents will be invited to joint a 5-day tour from Hong Kong to Cambodia in 2007 Christmas.

<http://iln.cite.hku.hk/com/1374/users/klyiu2/CambodiaTour3.wmv>

- (b) **More information about the Children in Cambodia by Digital PhotoStory**:

[http://iln.cite.hku.hk/com/1374/users/klyiu2/ChildrenInCambodia\\_2.wmv](http://iln.cite.hku.hk/com/1374/users/klyiu2/ChildrenInCambodia_2.wmv)

- (c) **Interactive Map of Cambodia**:

<http://iln.cite.hku.hk/com/1374/users/klyiu2/Cambodia.swf>

<http://iln.cite.hku.hk/com/1374/users/klyiu2/Cambodia.html>

## 3. Other Resources for my school and students:

- (a) **Introduction of My School Library by Digital PhotoStory**: It is a good resource for introducing the functions, facilities and activities of my school library to new students and teachers. I will use it for the new 200 Secondary One students in September 2007.

- (b) **Development of Housing in Hong Kong by Slider (Flash)**: It is a useful Project Learning resource for Secondary Two students in October, 2007. There will be a Collaborative Project Learning Activity about the “Development of Housing in Hong Kong” organized by Liberal Studies and School Library. Student will be motivated to work more.

- (c) **Introduction of Beijing Tour by Digital PhotoStory**: Students are eager to know more about Beijing before the Beijing 2008 Olympic Games. After the Final Term Examination, my students will be arranged and invited to watch this Digital PhotoStory about Beijing and search the website <http://en.beijing2008.cn/> for more information about the 2008 Olympic Games in June 2007. I think it will be one of the most attractive activities.

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Brad Hill. Author of *Google for Dummies*. *Blogging for Dummies*

Peter Kuhns & Adrienne Crew. *Blogosphere: Best of Blogs*  
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<http://www.microsoft.com/photostory/>

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<http://www.graphic.org/goindex.html>

<http://www.bestpricecomputers.co.uk/glossary/mind-mapping-software.htm>

<http://www.learnactivity.com/lo/>

[http://www.infovis-wiki.net/index.php/Information\\_Visualization](http://www.infovis-wiki.net/index.php/Information_Visualization)

[http://en.wikipedia.org/wiki/Phnom\\_Penh](http://en.wikipedia.org/wiki/Phnom_Penh)

<http://www.worldatlas.com/webimage/countrys/asia/lgcolor/khcolor.htm>

<http://en.beijing2008.cn/>