

Curation Learning: Educational Innovation by Leveraging Web-Based Content

Yuko Okubo

Fujitsu Laboratories of America

World Academy Forum on Global Higher Education

October 2-3, 2013

Table of Contents

- About Us
- Curation Learning
- Case Studies

About Us

- Who We Are
- Our Innovations
- Fujitsu Laboratories of America
- Our Vision: Human-Centric Intelligent Society

Who We Are

**Japan's largest IT services provider and
No. 4 in the world. ***

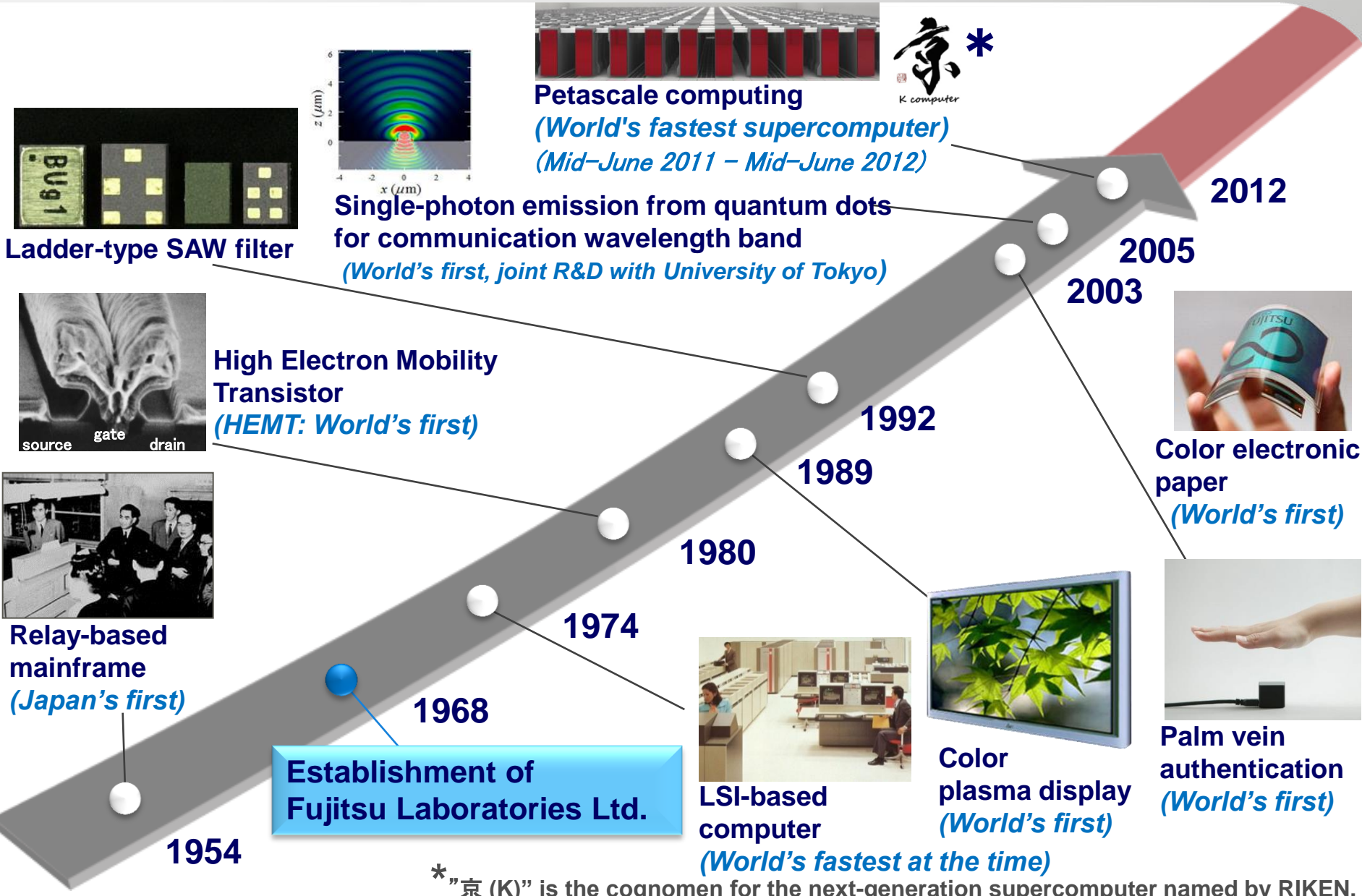
**We do everything in ICT. We use our
experience and the power of ICT to
shape the future of society with our
customers.**

**Approximately 170,000 Fujitsu people
support customers in more than 100
countries.**

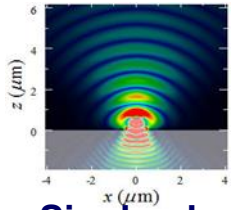
**FORTUNE named Fujitsu as one of 'the
World's Most Admired Companies' in
2013.**

***2012 IT Services Vendor Revenue. Source: Gartner,
"Market Share: IT Services, 2012" 29 March 2013 (GJ13188)**

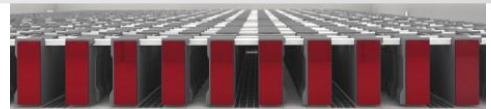
Our Innovations



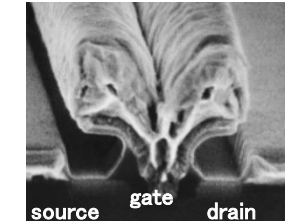
Ladder-type SAW filter



Single-photon emission from quantum dots for communication wavelength band
(World's first, joint R&D with University of Tokyo)



Petascale computing
(World's fastest supercomputer)
(Mid-June 2011 – Mid-June 2012)



High Electron Mobility Transistor
(HEMT: World's first)



Relay-based mainframe
(Japan's first)

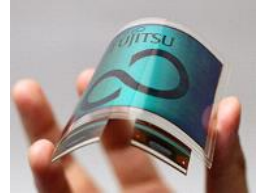
Establishment of Fujitsu Laboratories Ltd.



LSI-based computer
(World's fastest at the time)



Color plasma display
(World's first)



Color electronic paper
(World's first)



Palm vein authentication
(World's first)

1954

1968

1974

1980

1989

1992

2003

2005

2012

*"京 (K)" is the cognomen for the next-generation supercomputer named by RIKEN.

Fujitsu Laboratories are Leading the Innovation Charge

Fujitsu Laboratories of Europe Ltd. (FLE)

Fujitsu Research and Development Center, China (FRDC)

Fujitsu Laboratories Ltd. (Estab. 1968)

Sunnyvale



Texas



Fujitsu Laboratories of America, Inc. (FLA)
(Estab. 1993)

15+ R&D projects
70 Researchers from 15 countries

STANFORD UNIVERSITY

MIT Massachusetts Institute of Technology

Berkeley UNIVERSITY OF CALIFORNIA

parc Palo Alto Research Center

Enabling a Human-Centric Intelligent Society

- Food
- Environment
- Energy
- Health
- Safety
- Security
- Education



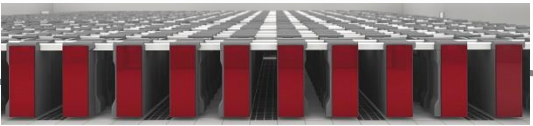
Real world



Various Kinds of Information from Human Awareness and Sensing Devices

New Services & Solutions

New Services & Solutions



Cloud Fusion

Curation Learning

- Why Curation Learning?
- Curation Learning
- Acquiring 21st Century Skills from Curation Learning

Why Curation Learning?

■ Open Content

- A large volume of open content on education/learning exists, but is scattered.

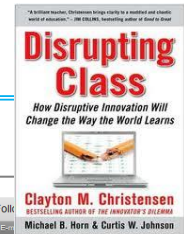
■ Informal Learning

- In rapidly changing information society, job market, and everyday life, informal learning complements formal learning in obtaining information/knowledge.

■ Shift in educational discourse

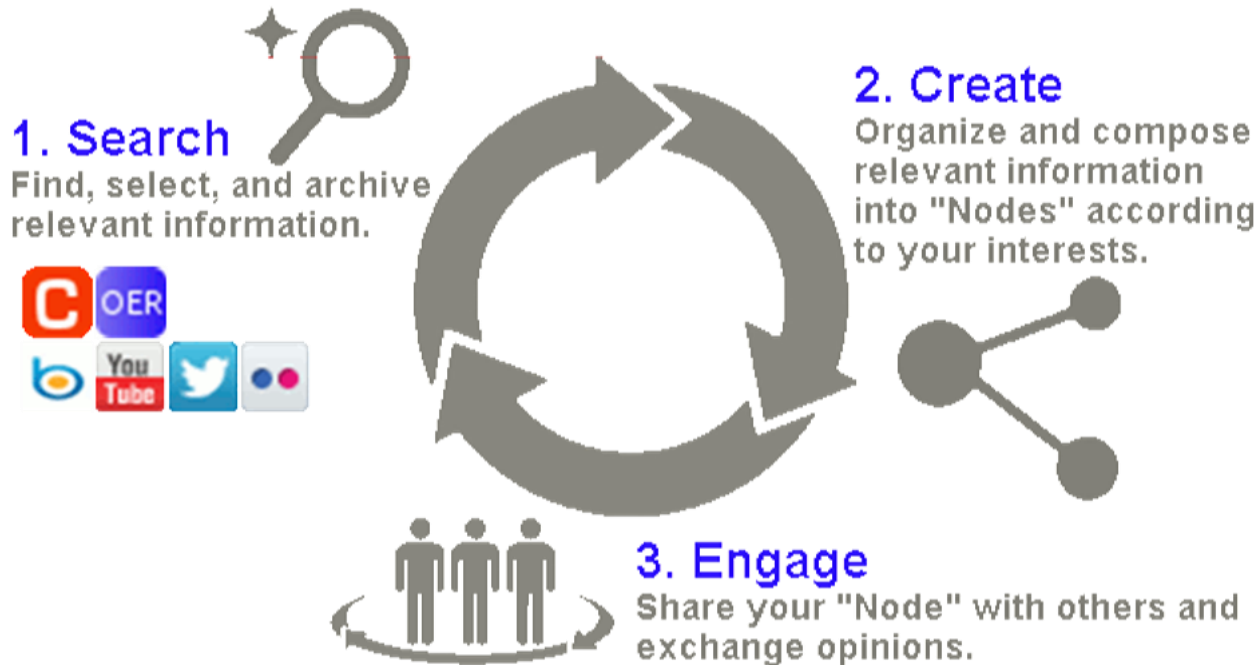
- Learning, not teaching
- Learning as a process
- Education not only for transmitting knowledge/information, but for developing skills
- More “personalized” and “social” learning

For several years, most teachers and students will still have conventional textbooks. But little by little, textbooks will give way to computer-based online courses—increasingly augmented by **user-generated student-centric learning tools**. The second, or student-centric stage of this disruption will move to the mainstream when users and teachers start **piecing together enough tool modules** to create entire courses designed for each type of learner.
(C. Christensen: Disrupting Class)



The screenshot shows the OECD website interface. At the top, there is the OECD logo and navigation tabs for Home, About, Countries, Topics, Statistics, and Newsroom. The main content area is titled 'Higher education and adult learning' and 'Recognition of Non-formal and Informal Learning - Home'. It features a sidebar with a menu of topics including 'Higher education and adult learning', 'Education, economy and society', 'Labour markets, human capital and inequality', and 'Research and knowledge management'. The main text area contains a section titled 'Now available: Recognising Non-Formal and Informal Learning: Outcomes, Policies and Practices' with a link to 'Recognition of Non-formal and Informal Learning Pointers for policy development'. Below this, there is a paragraph of text starting with 'People are constantly learning everywhere and at all times...' and another paragraph starting with 'However, learning that occurs outside the formal learning system is not well understood...'. At the bottom of the page, there is a red text overlay that reads: 'International organizations such as OECD focus on informal learning'.

- Curation Learning is a learning concept, method, and practice via Content Curation, a value-added practice by combining new perspectives with existing content
- Three Steps for Curation Learning



- Our Expectations
 - Enrich learning materials / Offer engaging learning experience / Develop skills / Use for knowledge management

Curation Learning

LEARNING PORTAL HOME twatanabe Profile Help Contact LOGOUT Search Create

Filter Results

Authors

- KevinLee(4)
- jwang(4)
- twatanabe(3)
- yokubo(3)
- kanji(2)
- putonghuaheyuhuh(2)
- tonym(2)
- wj_facebook(2)
- kenken(1)
- raymond(1)
- sophiaargueta(1)

Tags

- education(10)
- asc tutoring(6)
- LMS(2)
- learning(2)
- technology(2)
- uc berkeley(2)
- "Tea Pouring"(1)
- "household"(1)
- "truth"(1)
- Ainu(1)
- CASTE(1)
- EdSurge(1)
- Emiko Ohnuki-Tierney(1)
- FREETERS RULE(1)
- HAmADA(1)
- Hokkaido(1)
- IBM report(1)
- IMF(1)
- IN: OL(1)
- ITUTION(1)

More...

Clusters

Search

education Search Results per page: 10

Search Result 25 results found in 1226 ms

by updated time by relevancy

Prev 1 2 3 Next

Sustainable Design KevinLee - 2013/09/06 14:07:56 [More Like This](#)

Tutoring Writing tonym - 2013/07/10 12:12:44 [More Like This](#)

Statistics: Module 7.1 Basic Concepts in Hypothesis Testing KevinLee - 2013/06/17 15:37:32 [More Like This](#)

Plato's Philosopher and the Cave KevinLee - 2013/06/17 12:46:24 [More Like This](#)

Positive Black Athletes raymond - 2013/06/09 23:30:04 [More Like This](#)

What are tags and tag clouds, and why use [More Like This](#)

Clipboard

All Clear Category: moocs Back Category

INSIDE HIGHER ED EdX and Google to develop open-source MOOC platform | Inside Higher Ed [×](#)

2013/10/01 15:18:00

EdX, the online course provider created by Harvard University and the Massachusetts Institute for Technology, sees an open-source future for massive online courses. On Tuesday, the company announced l...more <http://www.insidehighered.com/news/2013/09/11/edx-and-google-develop-open-source-mooc-platform> [moocs](#)

Bernie Callaghan: MOOCs spark a revolution in education world - Bernie Callaghan - Journal Live [×](#)

2013/10/01 15:17:18

The introduction of disruptive technology, and increasing competition from public and private entities around the globe, are certainly a challenge for UK universities. However, we should not lose sigh...more <http://www.thejournal.co.uk/business/bernie-callaghan-moocs-spark-revolution-6102190> [moocs](#)

MOOCs: Top 10 Sites for Free Education With Elite Universities [×](#)

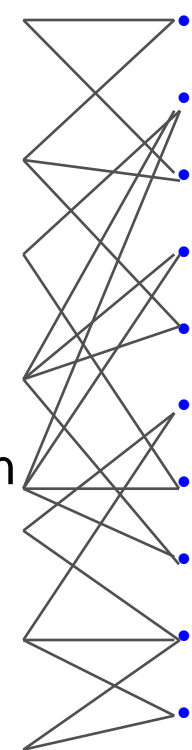
2013/10/01 15:16:11

MOOC stands for Massive Open Online Courses. Although

■ 21st Century Skills and Curation Learning

- Many skills listed as 21st Century Skills are related with the process of content curation. Curation learning can be a means for developing these skills.

■ 8 Steps of Content Curation (Weisgerber 2011) and 21st Century Skills (Institute for the Future 2011)

- **Find**: find relevant information from a vast amount of resources
 - **Select**: select interesting information that is usable
 - **Editorialize**: add our perspectives and contexts to data
 - **Arrange**: combine data and give meanings as a whole
 - **Create**: synthesize as a piece of information
 - **Share**: share curated contents to other learners with similar interests
 - **Engage**: create space for discussion and facilitate discussion
 - **Track**: improve curated results based on comments and discussions
- 
- Sense making,
 - Computational thinking
 - New media literacy
 - Transdisciplinarity
 - Cognitive load management
 - Social Intelligence
 - Novel and adaptive thinking
 - Design mindset
 - Cross-cultural competency
 - Virtual Collaboration

Case Studies

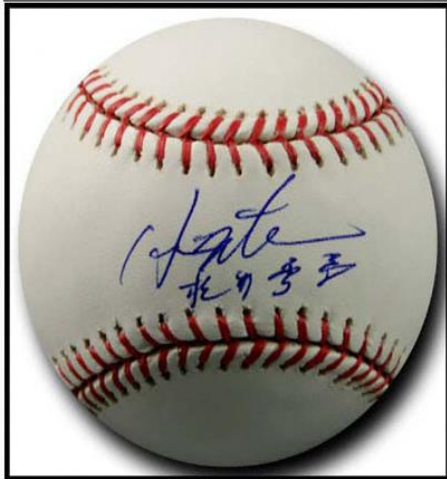
- Experiment Sites
- Course Assignment
 - Traveling to Japan
 - Group Project & Presentation
 - Content Curation
- Insights

■ Examination of the Effectiveness of Curation Learning

Site	Summary	Period	Number of Participants	Goal
UCB Athletic Study Center tutoring	Peer tutoring for athlete students Tutorial Program at College	Since	20 tutors	To examine how Curation Learning Platform can support tutoring for athlete students, who are academically challenged and not so motivated.
Online Tutoring	Online peer tutoring project Online Tutorial Program	Since	10-12	To examine whether Curation Learning Platform is serviceable as an online tutoring platform'; and whether curation based learning occurred.
Bay Area (mainly at UCB)	Study group using LMS and Curation Learning Platform. Met Met Berkeley Face-to-Face Extracurricular Activity	October-December	About 30 signed up, at weekly meeting.	To examine how Curation Learning Platform can support extracurricular combined with LMS.
Course at Public University	Hybrid Seminar using LMS and Curation Learning Platform. Met provided assignment online. Hybrid Course at College	January-	About 25	To examine how Curation Learning Platform can support Blended Learning combined with LMS in a course and classroom setting.
Guest Lecture at Private University	Seminar with much discussion. Regular Course at College	February 2012	6-7 students	To examine how Curation Learning Platform can be used to deepen thought process and facilitate discussion.

Course Assignment

■ Traveling to Japan



<http://c-product.images.fansedge.com/44-46/44-46553-Y.jpg>

Introduction

Baseball and Good Food!

For my trip to Japan i will be visiting Tokyo and Hiroshima for seven days, starting on March 29th (Friday) and ending on April 4th (Thursday).
I enjoy the sport of Baseball very much so i am excited to attend two games while i am in Japan.
One game at the Toyko Dome to see the Yomiuri Giants and another game at the Mazda Zoom Zoom Stadium to see the Hiroshima Carp.
I also intend to enjoy the wonderful cuisine Japan has to offer.

- ① Introduction with an overview of the trip.
- ② Images and texts combined.

Day 7- April 4th Thursday

Rent an Electric Bicycle and Visit Fudojin Temple

10:00am Walk to Hotel Granvia and rent electric bicycle \$10.00
11:00am Lunch at Gohanya Hiroshimasangyou Kaikan
1:00pm Visit Fudojin Temple
4:00pm Ride back to Granvia Hotel
5:00pm Walk to Urban Executive Hotel
7:00pm Walk to Sakanaichiba Hiroshimaekikit Aguchit

④ Conclusion with reflection on the trip/experience.

Fudojin Temple

http://placestovisitinjapan.com/images/fudojin_temple.jpg

Day 1- March 29th Friday

Conclusion

Explored Toyko Dome City

What an eye opening experience. The transportation systems in Japan are pretty unique and it was cool to take the extra time to look into routes/cost etc.

Stayed at Toyko Dome Hotel

My total trip expenses while in Japan came to \$1,612.60.

9:30am Buffet Breakfast @ R

Though this is an assignment and we are pretending to have a seven day fantasy trip, it started to become very real for me and now i really want to go!

11:00am Walk to the Baseba

2:00pm Snack @ Garden Te

2:30pm Visit Toyko Dome Bowling Center; played two games \$11.00

4:00pm Walk to Toyko-Subway Station, go to Shinjuku using Marunouchi Line \$1.90

5:00pm Dinner at Kozue at The Park Hyatt Hotel; full course dinner \$120.00

7:00pm Drinks upstairs at Grill Bar \$50.00

10:00pm Marunouchi Line back to Toyko Dome Hotel \$1.90

Toyko Dome City



③ Adequate search on daily expenses.

■ Group Project & Presentation

① Shows some engagement with assigned readings.

Upon reading Miller's excerpt, he mainly focused on male teenagers and adolescence

- In America, teenage boys hesitate from fixing any physical feature they have.
- But in Japan, the younger generation of males like getting their eyebrows plucked, facials, hair removal remedies, etc.
- The young men in Japan aren't afraid to do any of these as they have "Male salons" that an individual can attend
- Though when a survey was done, these men were reluctant to admit that they get these services done



② Combines visual materials and notes to demonstrate their views.

Arguments

A few of the arguments that we found are as follows:

- Changes in Gender Roles
(Does it make a difference in society if a man is seen wearing makeup?)
- Female masculinity without lesbianism
(Females can act as warriors in families without having sex being placed upon them)
- How far can a man go without being labeled as gay/queer?



③ Creates a note covering the argument of the readings, concluding with the examination of the topic, referring to the question.



■ Content Curation – Convini (Popular Culture)

コンビニ (Convini)

Convenience store is very popular in Japan and it seems like majority of people in Japan can not live without having convenience stores around them. They are literally every where so you would not have any trouble finding them.



<http://www.allinjapan.org/wp-content/uploads/2011/07/convenience-store.jpg>

7Eleven / Family Mart / Lawson
they are top 3 convenience store chains in Japan



Comments:

harinder 2013/03/17 19:20:54

I liked the way you explained your views on how the Japanese con...
keep displaying the new products in the store which are available

hannahmar10 2013/03/17 22:35:48

It's really interesting to see the difference in stock... American culture is iconically consumerist. Gives a better glimpse for how Japanes...
possibly be on the same level

③ Comments from other students

① Combines images, videos and notes on Convini

Why is it so popular?

Japanese convenience stores are truly convenient. You will be surprised to see the wide variety of food/drink selections, daily necessities and services that they provide when it compared to American convenience stores. Let me list the essential goods and services that you can find in Japanese convenience store:

- medical gear
- magazines/comics
- onigiri (rice balls)
- toiletries
- seasonal clothes/gear
- beers
- make up
- salad
- frozen food
- kitchen selection
- juice/milk
- sweets
- detergents
- bento box
- toys, cards, figures
- ATM
- cold/hot drinks
- hot gods/meant buns
- instant noodles
- ice cream
- buy plane/concert tickets
- deserts
- photo copier/fax
- gift cards
- first aid
- fresh veggie/fruits
- pay bills (electricity, water, gas, tax, etc)
- snacks
- alcohol

What's a Japanese Convenience Store Like? (7Eleven)

This is what a Japanese convenience store looks like on the inside.



② Contains the creator's views in Introduction, Conclusion, and a perspective on Japan comparing American and Japanese convenience stores.

Innovation in On-Line Learning

- Issue: How can education be better attuned to meet human needs and develop human potential?

Insights

- Curation Learning is engaging, works for finding interesting topics and themes with ease.
 - Course Assignment
 - Self-learning

- Curation Learning can be used for an engagement trigger to capture student attention in an interactive lecture by
 - organizing presentation materials combining images, visuals and notes
 - sharing materials that enable students to analyze/interpret the information
 - posing questions in-between and afterwards

- How we incorporate Curation Learning in learning environment is important.
 - Instructional Design
 - Instructions
 - Assessment

Materials for Interactive Lecture and Discussion on Foreign Populations in Japan

Foreign Residents in Japan: Prefecture Comparisons
Foreign Residents in Japan from Statistics Japan site, 2010. <http://stats-japan.com/t/category/50009>


Transition of the Numbers of Foreign Residents in Japan, 1986-2008
This graph shows the transition of the numbers of foreign residents in Japan from China, Korea, Brazil, Philippines, and Peru, the five major countries. Questions: Why is it that the number of Koreans is dropping? Why is it that the number of Chinese is increasing rapidly?

Year	China	Korea	Brazil	Philippine	Peru
1986	~50,000	~680,000	~10,000	~10,000	~10,000
1989	~100,000	~680,000	~20,000	~20,000	~20,000
1992	~200,000	~670,000	~50,000	~50,000	~30,000
1995	~250,000	~650,000	~100,000	~80,000	~40,000
1998	~400,000	~630,000	~150,000	~100,000	~50,000
2002	~450,000	~620,000	~200,000	~120,000	~60,000
2003	~480,000	~610,000	~250,000	~130,000	~65,000
2004	~500,000	~600,000	~280,000	~140,000	~70,000
2005	~520,000	~590,000	~300,000	~150,000	~75,000
2006	~550,000	~580,000	~310,000	~160,000	~80,000
2007	~580,000	~570,000	~320,000	~170,000	~85,000
2008	~650,000	~560,000	~330,000	~180,000	~90,000

http://upload.wikimedia.org/wikipedia/commons/0/03/Transition_of_Foreigners_in_Japan.png

Zainichi Koreans
How are they socially and culturally integrated into Japan?
A majority of Korean nationals are resident Koreans, who can trace their roots to the Japanese colonial era in Korea, 1910-1945. How and how many Zainichi Koreans intend to returning, voluntarily, their own independent, democratic homeland of the country? Are they socially and culturally integrated into Japanese society?

3 Generations of Life as a Zainichi Korean (1/4)
This old Korean film, self-approach, from my own history, by one people, the Zainichi. Documentary on a 3 generation Zainichi family in small town Shimane's Green Hill Koreatown, Little Pinak. Chronicles their history as well as the history of the town and the Kangju Ferry which brought some of the Zainichi over to Japan. The documentary takes us back to the history of Korean migration to Japan, their lives under the colonial rule and after the liberation are exposed through the memories of 1st and 2nd generation Zainichi Koreans in Shimane. The film then takes a turn to the 3rd generation Zainichi Koreans who cross the strait, from Japan to Korea as an exchanged student.



FUJITSU

shaping tomorrow with you