'glish: Designing an interactive environment for global language learning

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Motivation for 'glish

- Experiences of rural children and teachers
- Training and expertise of teachers 3rd world library facilities •
- 500 m Globish speakers vs 300 m first language English speakers Jean Paul's story
- · Library skills in a new context
- ==>> use cases for 'glish

Experiences of rural children and teachers

- · Most of the resources are for first-world kids and draw on their experiences
- · Most of the resources are, in fact, not really usable on all devices (not adaptable to teachers' needs)
- · Most suitable resources expect users to pay to use them

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Use case 1

 Akiko-san is a typical teacher. She wants a story that she can read to her children; that they can listen to when she is busy; that she can ask them to read; that she can ask them to illustrate; that she can combine with their images to download on their MP4 players, and that they will be able to re-tell in their own words.

Training and expertise of teachers

- · Teaching in 3rd world countries is usually very didactic and reinforces socio-political structures - students are not taught to take initiative, they are not encouraged to become investigative, they are not taught to solve problems.
- Critical, creative, informed thinkers are needed everywhere but especially in 3rd world countries

Use case 2

· Amito-san is a Japanese person who supports a remote rural school that has local teachers working in it. She knows that they need help in the classroom because their teaching skills are very weak. She has supplied them with computers, but she does not know how to train and support the teachers remotely.

3rd world library facilities

- · In the Hanoi University Library, a few years
- ago, students sat for days at a large table waiting for their turn to read a single book.
- In the Phnom Penh Library today, there is no proper catalogue of the few books, many of which have been donated (discarded) by ex-patriots returning home, and there is no access to global catalogues.

3rd world library facilities

- In the Ulaan Bataar Library, ancient manuscripts are piled high in open-air storage facilities and
- · too few librarians struggle to serve the needs of too many library visitors

Use case 3

 Building libraries and supplying them with books is an impossibly expensive exercise for poor countries. Many people cannot travel to libraries. Sugimoro-san has re-usable books (cheap computers) and wants to find suitable texts and also help with the lack of literacy in such regions.

500 m Globish speakers vs 300 m first language English

- 800 m people share a single language (it sounds very different when they speak!)
- 'globish' speakers use their hands and faces, they repeat what they say, they wait ..
- There is no formal recognition for a simplified version of English
- Globish might become a de facto standa.

500 m Globish speakers vs 300 m first language English

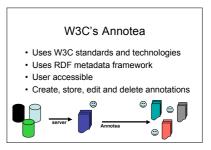
- Voice of America operates with 1500
 base words and some special extras.
- Publishers of books for language/literacy learners use limited 'head words'. ESL speakers do not need more than a functional set of grammar and vocabulary.

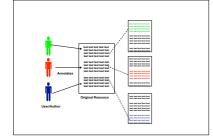
Use case 4

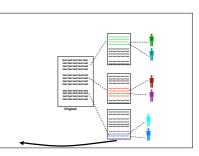
· Pi-san reads and re-writes classic Japanese stories in English for adolescent readers. He does not know which words to use to be sure the students have a clear vocabulary list so he can use it, and add definitions for extra words he uses.

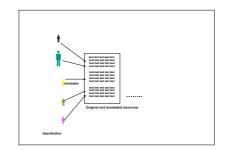
Annotation

- Often we'd like to annotate an existing Web page without touching the original page
- Teachers and kids want to make use of content without doing permanent damage (and to stay within electronic environment)
- Significantly, teachers and kids often need to use preferred languages to support learning









AccessForAll - user-centred approach

- Users have a range of needs including some from permanent disabilities, some from device or location changes
- Resources need to adapt to the user's needs, not expect the user to adapt to them
 'AccessForAll' metadata strategy TILE
- Accessionali metadata strate
 ISO/IEC JTC1 2008:N24571
 Dublin Core, CEN, AGLS,

Dublin Core, CEN, AGLS, .



E-learning environment that enables learner-centric transformation of learning content and delivery • Authoring support for transformable content and Metadata

Browser

Learning Object Repository
 Learner Preference System





My Tutor × Customize	Metric Prefi	xes	
Current Users:			ase units, modified by prefixes that lue by factors divisible by 10.
	Prefix	Symbol	Multiplication Factor
	mega	М	10 ⁶ = 1,000,000
BD RJ PW	lalo	k	10 ³ = 1,000
hat:	hecto	h	$10^2 = 100$
BD> I guess the most important part is emembering the structure. Which	deka	da 🗖	$10^1 = 10$
refixes are above and which are	deci	d	$10^{-1} = 0.1$
Rub 1 find the deka and deci to be the	centi	c	$10^{-2} = 0.01$
nost difficult to remember.	milli	m	10 ⁻³ = 0.001
-PVI- I remember by associating deci with centi which is also smaller than 1.	micro	μ	$10^{-6} = 0.000,001$
	nano	n	10 ⁻⁹ = 0.000,000,001

	http://tile-stasia.atrc.storonto.ca/tile/serviet/view	Search
CResources CReference Djava	BarrierFree/A SH4A-my-bugs Still Flugs - all STILE Search DTILE S	TrexEC CAnastasia
Reading & Note-Taking: Textbooks	CONTENTS PREV NEXT TOC NO TOC TOOLBAR NO TOOLBAR REMOVE FROM CLASSIFOOM	Consider subject matter *before* reading!!
1 Reading and	Reading & Note-Taking: Textbooks	Remove
Note-Taking: Textbooks 1.1 Read text on reading	Survey the Chapter	Add an annotation:
1.2 Survey the chapter 1.3 Formulating a question 1.3 Formulating a question 1.5 Underlining / highlighting rams ideas 1.7 Moderlining / highlighting any words vourself 1.9 Reviewing what you have learned 1.10 Take a processor have learned 1.10 Take a processor into the rest 1.11 Review your answers 1.12 Links on Reading 1.13 Finish	UNDER A per of the Reading process, it is abivited to the strengt of the strengt of the strengt set by any set of the strengt of the strengt set of the strengt set by any set of th	Add Docineury Search Desarse: Search Search
2 Taking Notes	a whiper impossible constructions and the source of the	



Reading & Note-Taking:	CONTENTS PREV NEXT TOC NO TOC TOOLBAR NO TOOLBAR	Add an annotation:
Textbooks	REMOVE FROM CLASSROOM	
Reading and	Reading & Note-Taking: Textbooks	
lote-Taking: extbooks	Reading	
1.1 Read-text		
on reading 🗸	Read the Passage	
1.2 Survey the chapter	SOIRIBR	
1.3 Formulating		Add
a question	With your question(s) in mind, read the following passage:	
	ionowing passage:	Dictionary:
1.5 Answer	2004 100 100 100 100 100 100 100 100 100	
your questions 1.6 Underlining	Defining the Family	Search
/ highlighting	Before we examine the diverse	Thesaurus:
main ideas	forms a family can take, we	
1.7 Identifying	need a definition of the family	Search
any words you didn't know	that gives us a common starting point for analysis. We can say	
1.8 Reading	that a "family" consists of a group of people who are related	





In summary, a digital library ..

- · To provide teachers and kids with books' that can be used in many formats
 reading/writing activities
- speaking and listening opportunities and offer
- discovery support via a catalogue (metadata)
 protection by referral (not in catalogue = not available)
 community development (taggers, content developers, forums, and cataloguers)
 Web services (local or by referral)

Social networking

- the down-sides

- Protection of children
 - Privacy etc as a moral issue
 Privacy as security in a life-safety sense - Filtering of unacceptable content
- · Engaging but so far not very useful
- Metadata generation Solutions?
- Proxy servers
 Extend AccessForAll and TILE
 Engage with FLUID

- Technical design
- · There's a long list of requirements but so far no obvious way to realise them.
- I need help!!!!

Educational perspective

- 'Creativity' is a strong driver in education and very important for children in authoritative, under-serviced regions of the world.
- Effective 'education' is lifelong and requires lasting learning practices.
- Epistemologically, this is a 'constructivist' era that calls for 'constructionist' education

Constructivist education

- Requires teachers to provide students with what they need to build effective knowledge - not necessarily the 'knowledge' itself.
- In fact, providing the 'what you need to know' often detracts from students' ability to determine and learn in a meaningful and permanent way.

'glish as a constructionist site

· Activities to

- attract kids
- support kids and teachers
- provide constructive stimulus
 extend kids' capabilities within 'proximal zone

exemplify active learning and constructionist teaching

Learning as a 'side-effect'

Alan Kay talks about the benefit to children of making the toys with which they later play ..

Learning as a 'side-effect'

- The children have built an electronic toy and now they are playing with it.
- They took photos of themselves, edited and integrated them into the Scratch environment, wrote a program to control their images and now they can play with them - and share them with the world.
- http://scratch.mit.edu

Where do these children live?



Motivating and facilitating learning

- The MIT Media Lab's LLK group is working on the idea of extending kindergarten that period when we learn naturally by safe . exploration
- Electronic environments can provide equivalent opportunities to older people with 'microworlds'
- Microworlds do not specify activities so much as provide context for them users take what they can/need

Rich microworlds

- · Electronic environments in which one learns inevitably eg compare a Logo turtle with the real world:
- On the screen FD 100 RT 0 FD 100 results in a neat angle 5

Rich microworlds

- · Electronic environments in which one learns inevitably eg compare a Logo turtle with the real world:
- On the road, FD 100 RT 90 FD 100 has dire consequences



Man'glish

- Take advantage of Japanese experience with manga as a form of communication across domains and ages (and languages?)
- Support manga authors with grammar and imagery (using Scratch??)

Scratch

- Microworld (computer science plus...)
- Interactive multimedia
- · Collaborative practices Internationalisation
- · Creativity based on systematic thinking

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- Fun
- Literacy.....

But....



- and hardware ...

Research collaboration...

Across

- ages
 domains

- Jonuages and cultures

 national borders

 Please if you have or know of interested students or have an interest yourself come and loin unit. and join us!

See <u>http://glish.org</u>

and finally, to make all this happen .



