## e-learning Strategies in Lifelong Learning from Learning 2.0 to Learning 3.0

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#### Yeonpyeong Island (2010,11.23)





## November in Korea

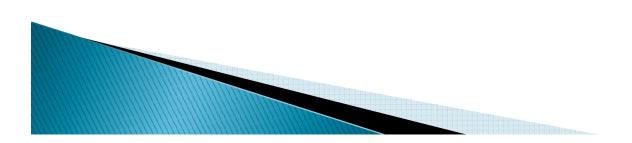


## lssues

## Reasons to Change

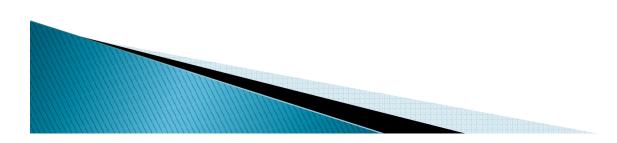
## Ways to Change

## Discussions



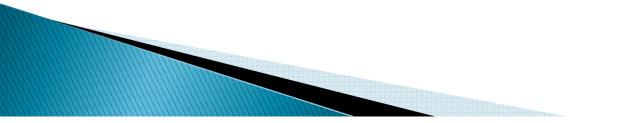
## Reasons to Change

- Society
- Knowledge
- Technology
- Education



## Society

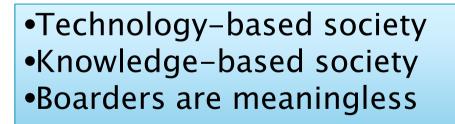
- Knowledge as Social Capital
  - Knowing how: Procedural knowledge
  - Usable knowledge: critical & creative thinking, problem solving
- Cultural Diversity
  - Ensure harmonious interactions among people and groups
  - Equip with interpersonal skills: communication, collaboration, awareness of cultural differences and conflict-resolution

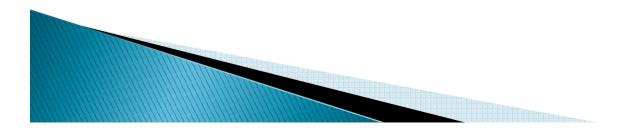


## Society

#### Future Society

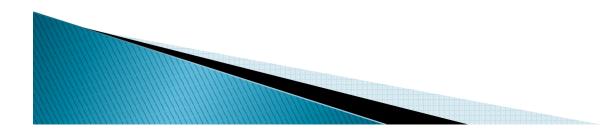
- Blocked and global economy: EU, APEC, e-ASEM
- Global community/collaboration/ cooperation
- Multi-cultural and diverse society





## Knowledge

- Shrinking half-life cycle of knowledge
- Knowledge doubles in every 18 months
- Knowledge is distributed and shared
- Consumer and producer of knowledge are the same one, 'Prosumer'



## Technology

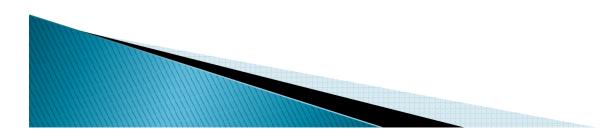
- Wired/Wireless
- Multimedia
- Various platforms
   (phone, pad, netbook, pc, etc.)



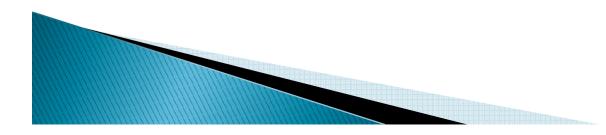
- Networked
- Speed
- Transparent
- User–friendly
- Ubiquitous
- Smart ecological environment human nature

#### Emergence of Lifelong Learning

- Plan and assess their own learning process and products
- Be active in searching and organizing the information
- Learn in both formal as well as informal settings
- Learn from their peers, mentors, experts
- Be involved actively in socio-cultural exchanges
- Be able to harmonize learning with working



- Digital Natives, Generation-D (digital), Nintendo Kids, MTV Generation, NML, etc.
  - Grown up with an unprecedented access to and appetite for technology and new media
  - Perceive technology as their friend and rely on it to study, work, play, relax, and communicate

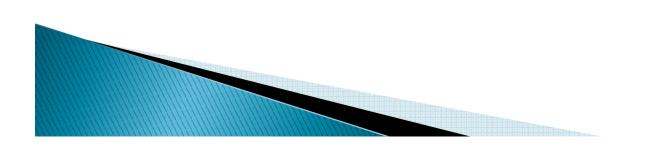


- Power, Passion, Participation, Pure
  - Active vs Passive
  - Play vs Work
  - Payoff vs Patience
  - Fantasy vs Reality
  - Technology as Friend vs Technology as Foe

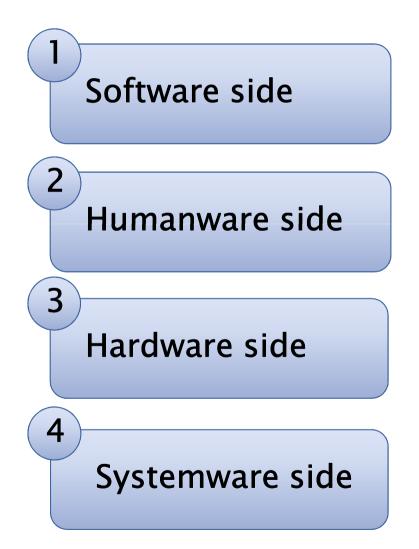
- Power, Passion, Participation, Pure
  - Twitch speed vs Conventional speed
  - Parallel processing vs Linear processing
  - Random thinking vs Linear thinking
    - Graphics first vs Text first
- Connected vs Stand-alone

#### Learning Environment

- Blending formal and informal learning
- Commonizing lifelong learning
- Teaching through the cyber-infrastructure
- Communicating among learners
- Learning in the borderless classrooms



### Ways to Change: Four Aspects for Successful e-learning



#### Software side

Humanware side

2

3 Hardware side

4 Systemware side

- Learning contents (quality)
- Teaching & learning support
- Teaching & learning activities
- Class management

#### Software side

#### 2 Humanware side

Hardware side

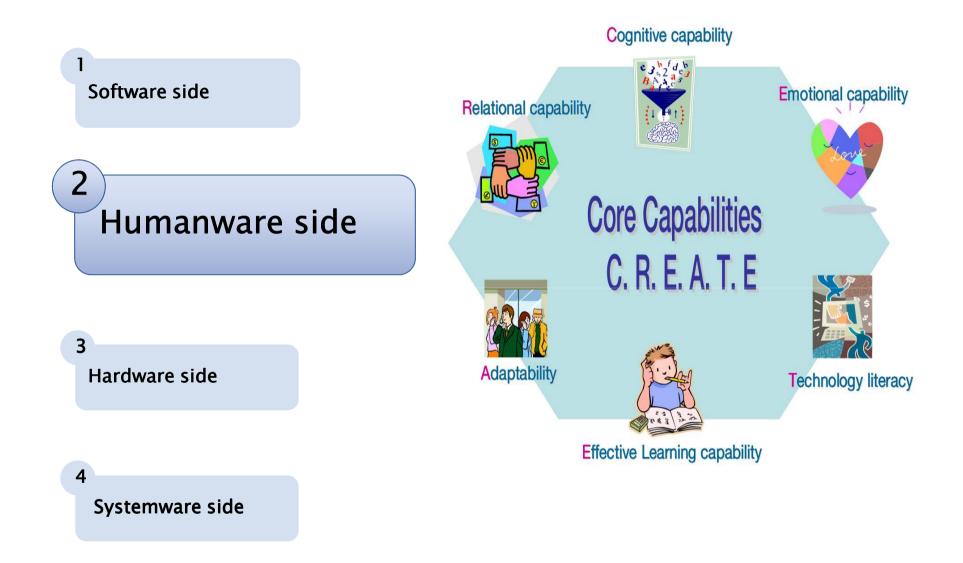
3

4

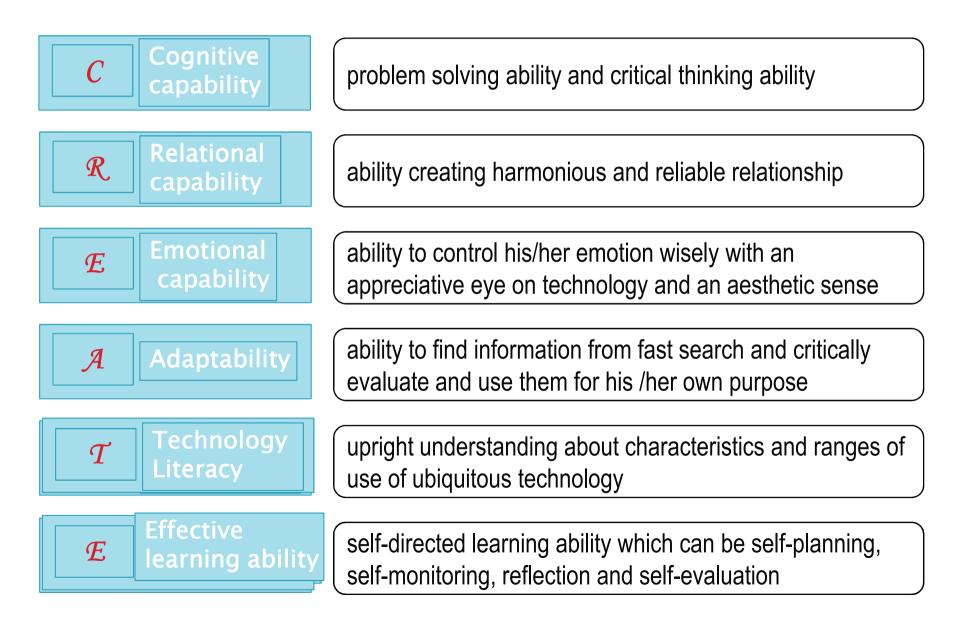
Systemware side

- Aspects of learners
- Aspects of instructors
- Aspects of educational administrators
- Aspects of community leaders

**Training** 



### **Core capabilities required in u-era**



#### Software side

Humanware side

2

3

4

#### Hardware side

Systemware side

- Appropriateness of devices
- Speed of wireless network
- Appropriateness of server
- Speed of after service

#### **Changes of Educational Devices**



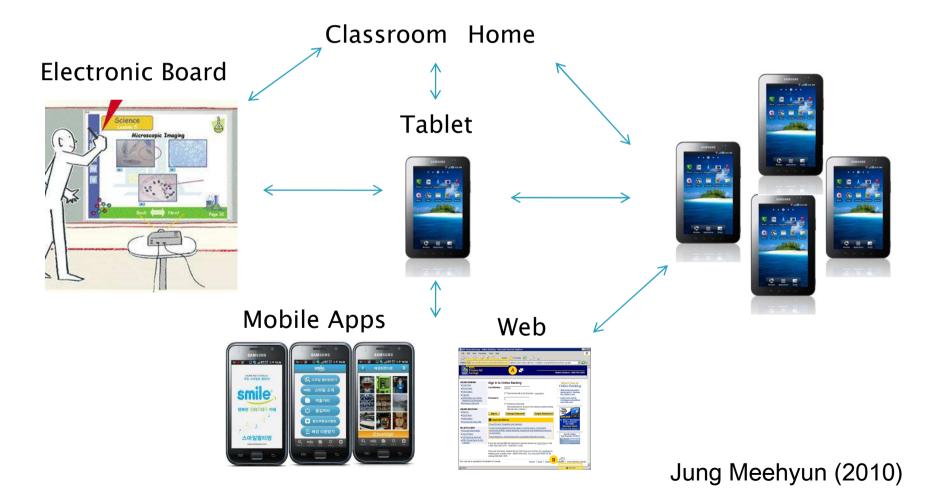
Jung Meehyun (2010)

## Smart devices

- Paperless
- Customized LMS
- 1 to 1 learning
- Live Class
- Social learning
- Edutainment
- Interactive books
- Flash animation

## **Creative Learning Environment**

 Interactions among peers and teachers through openness, sharing, and collaboration



## M-learning platforms of Blackboard

 Blackboard which provides e-learning platforms for university develops mobile platforms

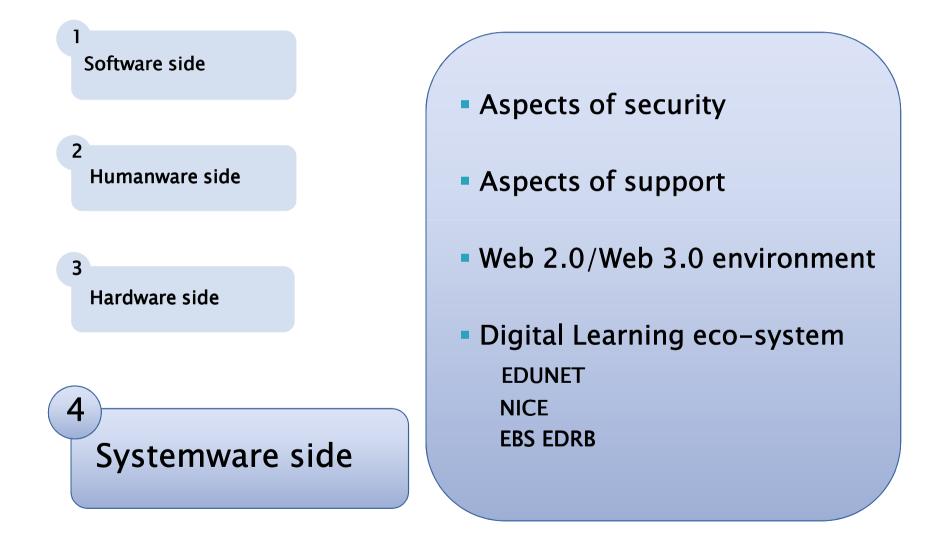


ipad platform

iphone platform

Android platform

### Ways to Change: Four Aspects for Successful e-learning



### e-learning 1.0 to e-learning 3.0

e-learning 1.0

e-learning 2.0

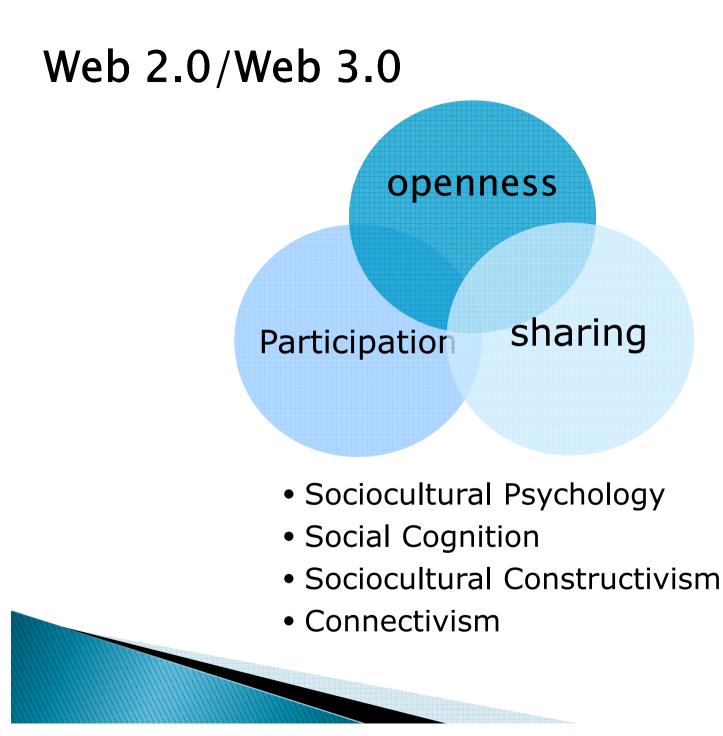
Personal Learning Environment e-learning 3.0

Static
 Web 2.0 technologies
 Course centric
 and social Learning
 Interactive learning
 Instructor-centered
 Collaborative learning
 Dre way comm.
 Learner-centered
 User created contents
 Super created contents

Learners customize
their own learning
environment based on
pedagogical and
personal choices
Supports informal
learning by extending
PLEs
Facilitates lifelonglearning

Continues
throughout life in
different contexts
and settings
New information
system by linking
and integrating
data sources

Alotaibi, S. (2010)

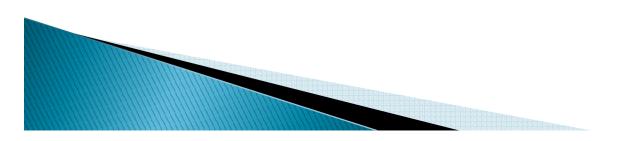


## e-learning 2.0/3.0

- Web 2.0
- Web 3.0-connecting and sharing human brain to brain

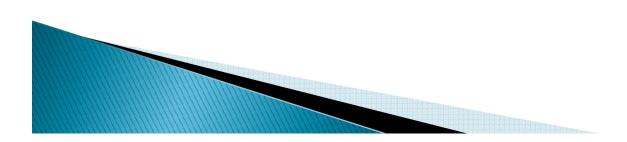
#### Social media is a type of a platform which

- Is based on Internet, communication, video and web
- Can create, produce and spread everything you want
- Is open to public and shares all the information



### Social media is

Online tools and platforms people use to share their opinions, ideas, experiences, and perspectives expressed in various types such as text, image, audio, and video.



### **Emergence of Social Media :**

#### 1) Participation of Consumers

: Consumers start to participate in providing ideas about marketing and producing digital contents

#### 2) Sharing Information and Networking

: Due to the development of web-based technology, information sharing and networking become possible

#### 3) Promoting Community Culture

- : Changes of mass selling into personalized marketing and sales
- : Personalization supports creating community culture

Minjung song (2010)

## **Types of Social Media**

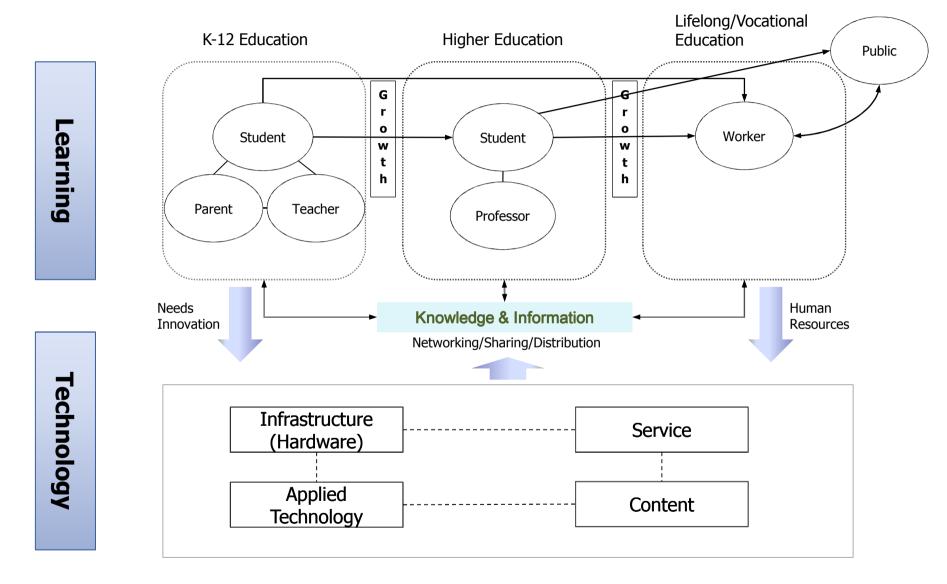
Service Type	International Websites	Korean Websites
Blog	Blogger, LiveJournanl, Open Diary, TypePad, Wordpress, Vox, ExpressionEngine	Portal Blog, Egloos, T-story
Micro Blog	Twitter, Plurk, Jaiku	Metoday, Tosee, Playtalk
Social Networking	Bebo, Facebook, LinkedIn, Myspace, Orkut, Skyrock, Hi5, Elgg, FreindFeed	Cyworld, lloveschool
Event Networking	Upcoming, Eventful, Meetup	

Minjae Choi (2009)

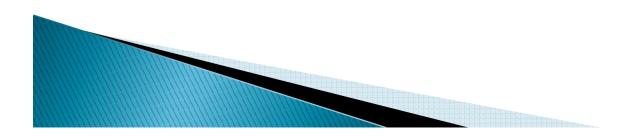
#### Web.2.0 vs Web 3.0

	Web 2.0	Web 3.0
Era	2000~2010	2010~2020
Interaction	Read and write	Read, write and execute
Keyword	Participation, openness, and sharing	Context recognition
Users of information	Human	Human and machine
Authority of Information	Expansion and concentration	Selection of information
How to use contents	Users are in charge of producing, spreading, and consuming	Intelligent web provides the contents users want (personal customization)
Search	Open to resources on many websites	User customized search
Technology	Broadband, server management	Semantic web, context recognition, cloud computing

## Digital learning eco-system



Participation Sharing Trust Empathy





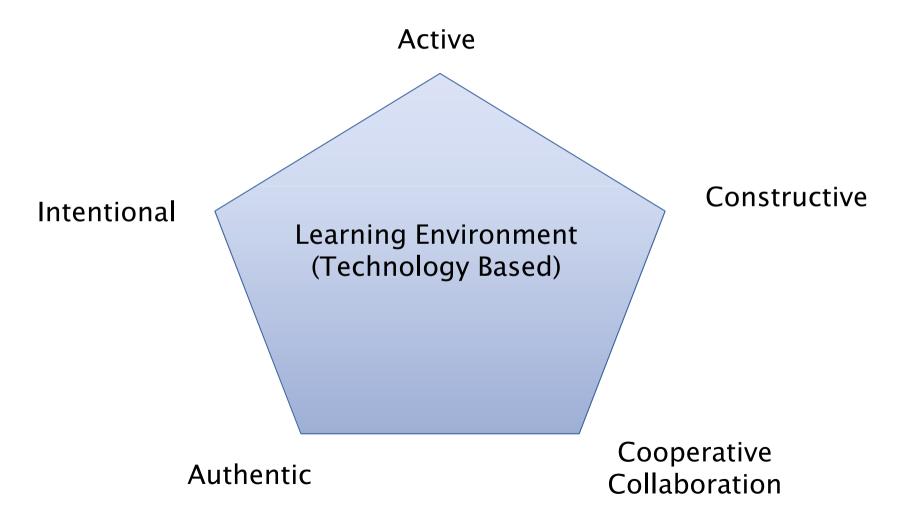
# For authentic communication Not emotional but logical Not logical but emotional

## Discussion

- How should we communicate with learners?
- Should we incorporate emotional communication into teaching subjects?
- How should we improve teaching and learning?
- How should we solve major problems of e-learning?

### Discussion

#### A New Strategy: teaching and learning



## Discussion

- How should we solve major problems of e-learning?
  - **Deficiency in learning content**: The information may not inspire the users successfully
  - Lack of personalization: Different learning platforms are needed to meet a variety of learning demands
  - Narrowness: E-learning systems are applied by small and specific groups

Dhotre & Patil. (2010)

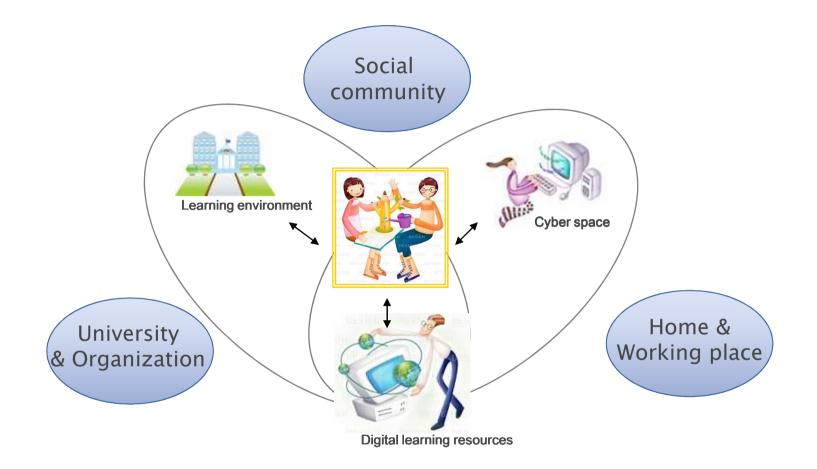
#### What we need to consider

: e-learning strategies in life long learning

e-learning implementation and its evaluation must be accomplished in systematic approaches in order to successfully assist in establishing a lifelong education society while requiring comprehensive quality management at the same time

Even though infrastructures and systems are recognized as the critical factors, its expert training programs are required to qualify the human resources

It should be realized that to meet the needs of education means more than education methodology changes



Active e-learning to build a learning community and achieve a national human resources development program.

## What's the Education?

**Education is Love** 

**Education is Touch** 

**Education is Relationship** 

**Education is Repetition** 

**Education is Change** 

**Education is Communication** 

"Technology matters, but good teachers and good teaching matter more."

#### All things are difficult, before they are easy.

#### Thank you

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