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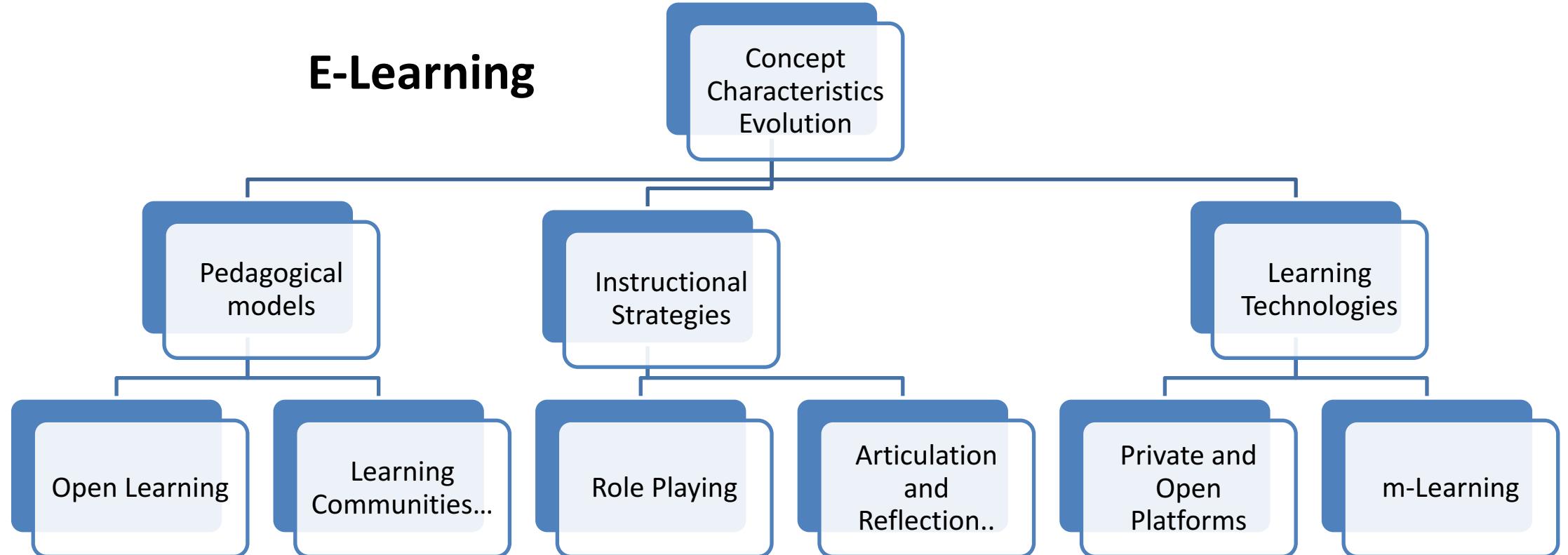
Knowledge construction through e-learning platforms

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Berlin, Germany. January 6th, 2017

Introduction



e-Learning

Definition

Pedagogical Models

Instructional Strategies

Learning Technologies

E-Learning

Can be defined as an open and distributed learning environment that utilizes pedagogical tools, enabled by Internet and Web-based technologies, to facilitate learning and knowledge building through meaningful action and interaction (Dabbagh, 2005)

e-Learning

Definition

Pedagogical Models

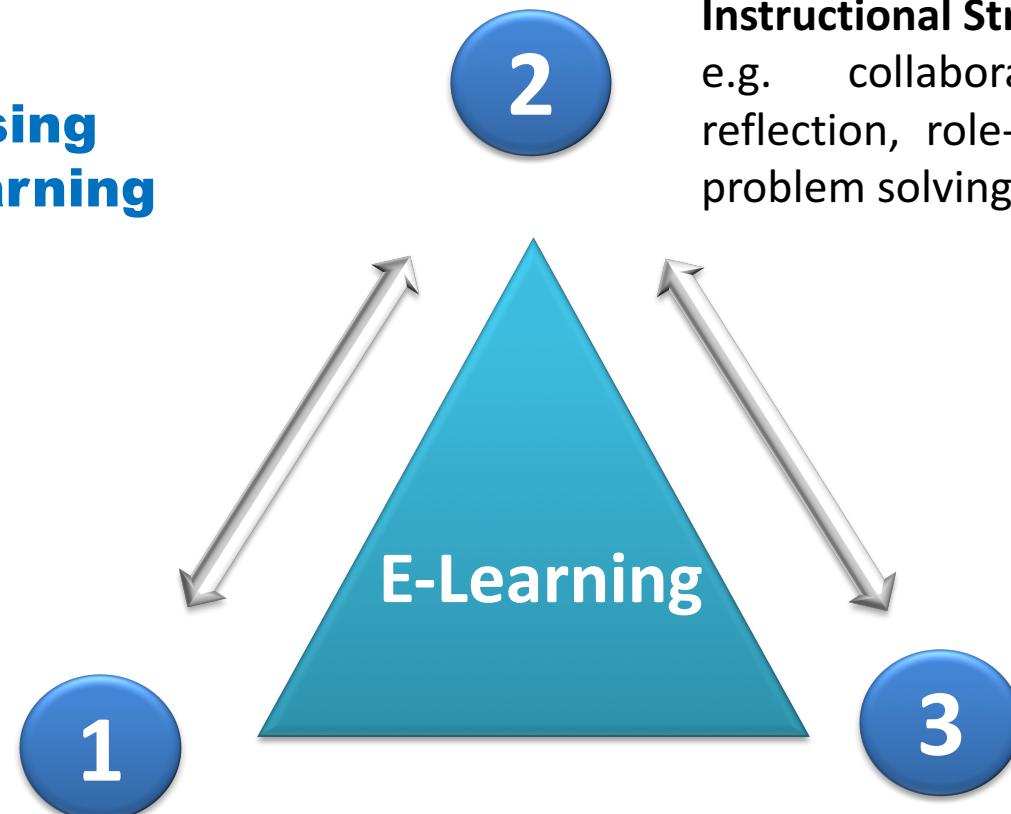
Instructional Strategies

Learning Technologies

Theory-based design framework for E-learning

Dabagg, N. (2005)

Pedagogical Models or Constructs
e.g. open/flexible learning, distributed learning, knowledge building communities



Instructional Strategies

e.g. collaboration, articulation, reflection, role-playing, exploration, problem solving

Learning Technologies

e.g. asynchronous & synchronous communication tools, hipermedia & multimedia tools, Web authoring tools, course management systems

e-Learning

Definition

Pedagogical Models

Instructional Strategies

Learning Technologies

Pedagogical models

- Are the mechanism by which **we link theory to practice**.
- Lead to the specification of **instructional strategies**.
- Pedagogical models and strategies aim to:
allocate control of the **sequence of instruction** to learners (Coleman, Perry, & Schwen, 1997),
- Task the learner with creating, elaborating, or otherwise **constructing representations of individual meaning** (Hannafin, 1992).



e-Learning

Definition

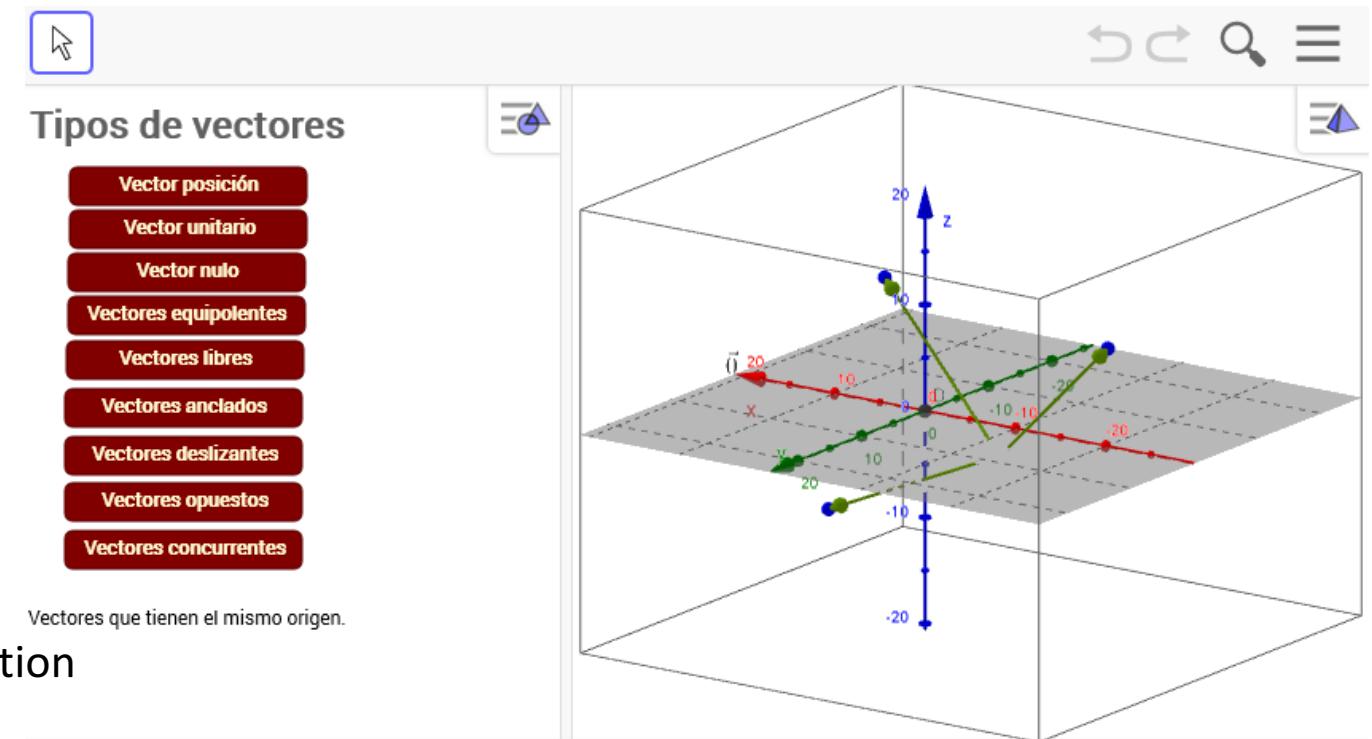
Pedagogical Models

Instructional Strategies

Learning Technologies

Promoting Authentic Learning Activities

Using graphics to present elements of a case or problem to make it more realistic.



Thesis:

Learning Objects and Geometric Representation for teaching "Definition and applications of geometric vector." (Orozco, 2017)

Fuente: Orozco, C. (2017). <https://tube-old.geogebra.org/o/PFFNBwMr>

e-Learning

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Pedagogical Models

Instructional Strategies

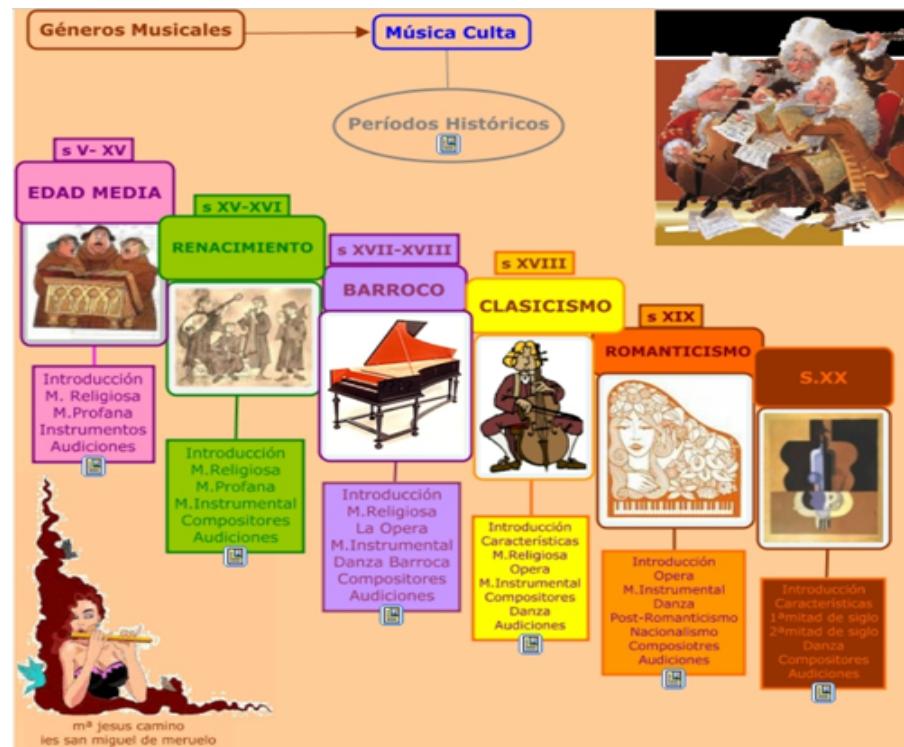
Learning Technologies

Promoting Authentic Learning Activities

Developing a direct manipulation interface using web authoring tools to allow learners to immerse themselves in, and manipulate, certain aspects of the case environment.



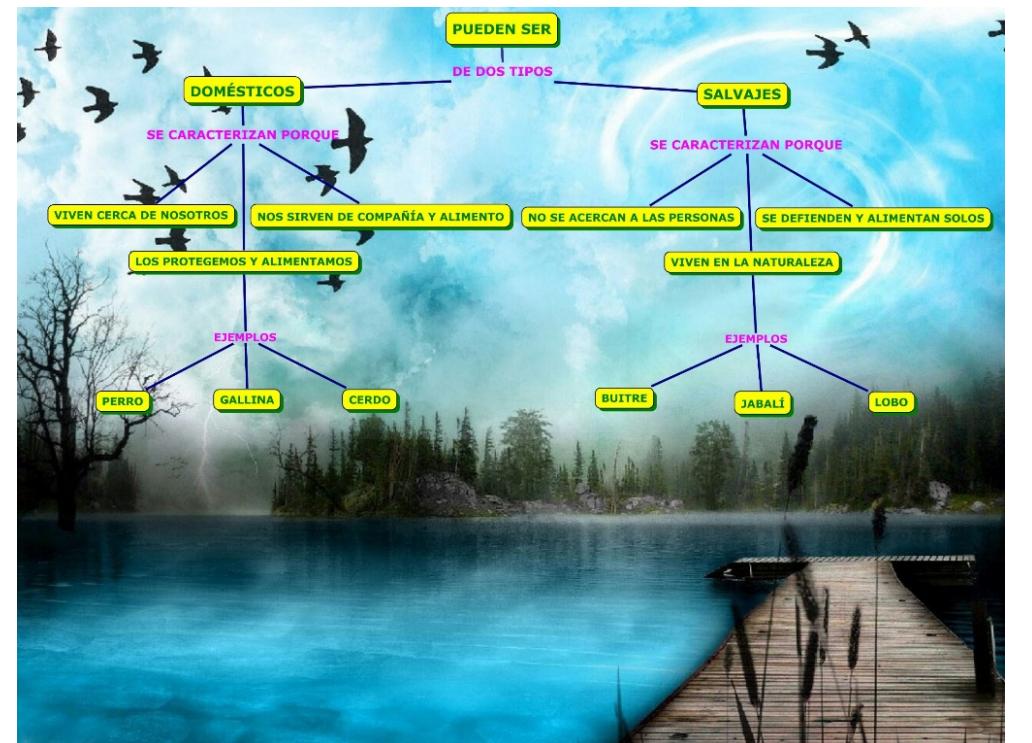
<http://cmap.ihmc.us/>



<http://www.mindmeister.com/es>



<http://freemind.sourceforge.net/>



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Definition

Pedagogical Models

Instructional Strategies

Learning Technologies

Promoting Authentic Learning Activities

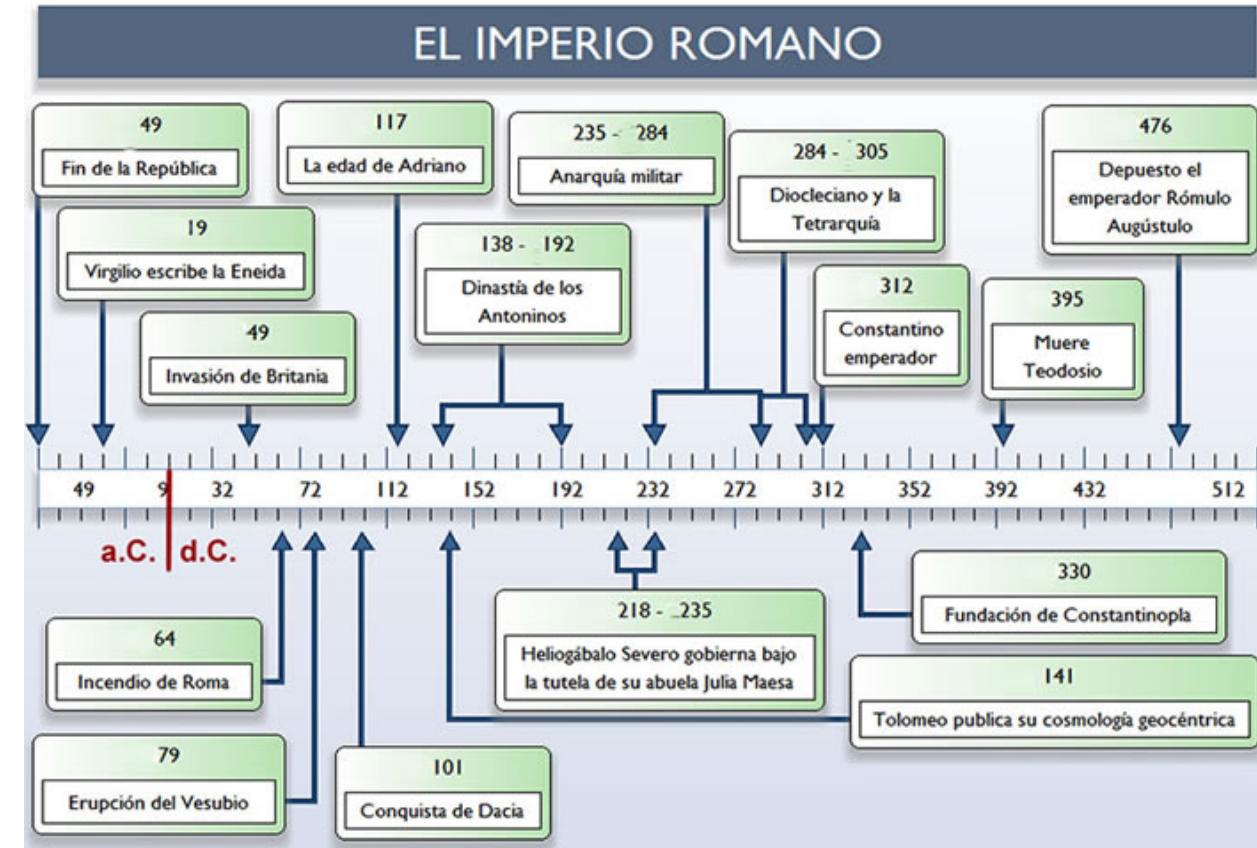


beta

<http://www.xtimeline.com/index.aspx>



<http://www.dipity.com/>



e-Learning

Definition

Pedagogical Models

Instructional Strategies

Learning Technologies

Supporting Role-Playing

- Allows learners assume practitioner and professional roles such as scientists, physicians, historians, salesperson, and other
- Allows learners to practice their knowledge and skills in a simulated real world situation and immediately observe the results of their actions,
- Promotes reflection and meaningful learning.



<https://www.secondlife.com>

e-Learning

Definition

Pedagogical Models

Instructional Strategies

Learning Technologies

Supporting Role-Playing

The screenshot shows the Classcraft game interface. On the left, there's a sidebar with player names and their status. In the center, a character named Tasmin Howells is displayed, level 2, with 135 XP, HP 31, AP 40, and 1525 XP. Below the character is a button with a sword icon. At the top, it says "Savanha de Kock used Heal 1 on Paige Macfarlane". The background shows a lush, green forest scene.



A screenshot of the "Learn Powers" menu. It shows a grid of icons for abilities: PROTECT 1, FIRST AID, HUNTING; PROTECT 2, AMBUSH, COUNTER ATTACK; PROTECT 3, FRONTAL ASSAULT, SECRET WEAPON. To the right, a card for "Secret Weapon" is shown, which costs 25 and requires Ambush and Counter Attack. It features an illustration of a warrior using a secret weapon.

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Definition

Pedagogical Models

Instructional Strategies

Learning Technologies

Promoting Articulation and Reflection

Articulation involves “having students think about their actions and give reasons for their decisions and strategies, thus making their tacit knowledge more explicit or overt” (Wilson & Cole, 1996, p. 606).

Examples: Using a Edublog for:

- Providing students with a web posting area and appropriate tools to publish their work (e.g., draft papers or problem solutions).
- Designing an activity that engages students in keeping an online journal in which they reflect on their understanding of the reading material for the course.



WORDPRESS.COM

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Definition

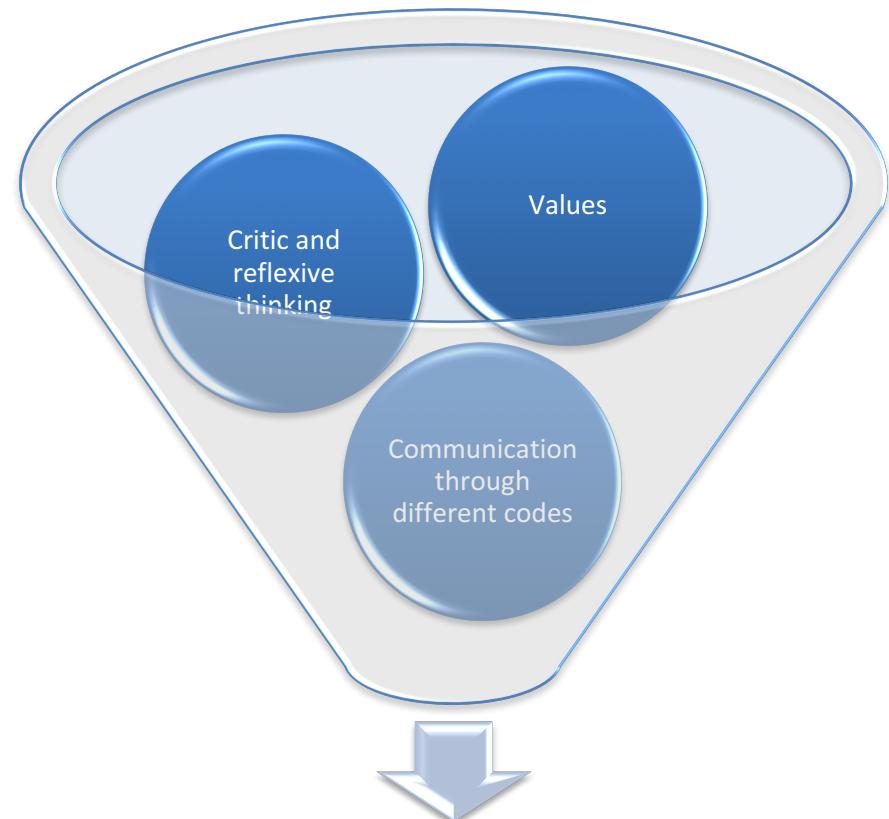
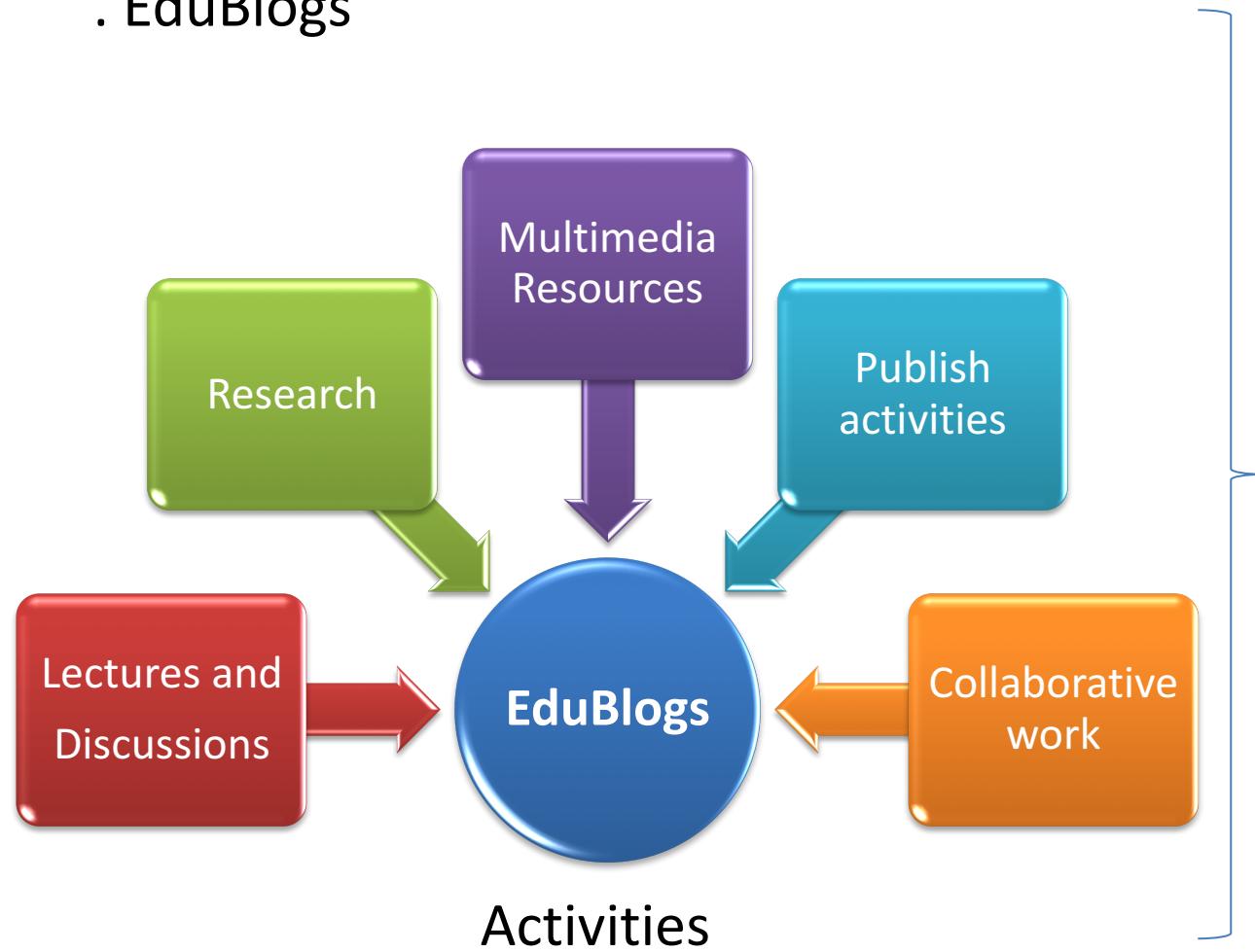
Pedagogical Models

Instructional Strategies

Learning Technologies

Promoting Articulation and Reflection

. EduBlogs



Learning Skills

e-Learning

Definition

Pedagogical Models

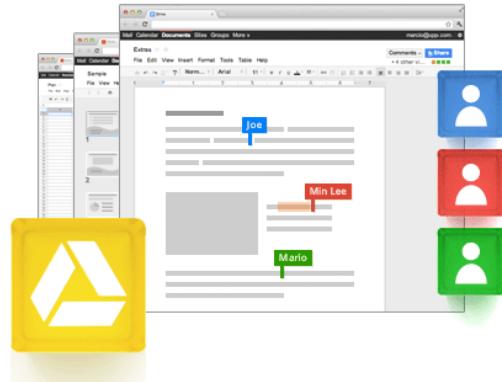
Instructional Strategies

Learning Technologies

Promoting Collaboration and Social Negotiation

A collaborative strategy can be defined as an instructional strategy that encourages interaction between and among two or more learners to maximize their own and each other's learning.

Examples in E-Learning contexts using learning technologies include:



- Designing activities that allow group members to share documents related to a group project.
- Using a Wiki, where users are able to create and reorganize the contents.
- Add links, digital documents, etc.

A screenshot of the Wikipedia homepage. On the right side, there is a sidebar with a red box highlighting the 'Crear una cuenta' (Create account) and 'Ingresar' (Log in) buttons. Below this, there is a section titled 'Permite crear un libro consistente de páginas wiki de tu preferencia. Se Puede exportar en diferentes formatos (por ejemplo PDF o ODF) u ordenar una copia impresa.' (Allows you to create a book consisting of preferred wiki pages. You can export in different formats (e.g., PDF or ODF) or order a printed copy.) Another red box highlights the 'Participante y comunidad' (Participant and community) link. At the bottom of the sidebar, there is a section titled 'Información general de ayuda para realizar las aportaciones' (General information for making contributions).

e-Learning

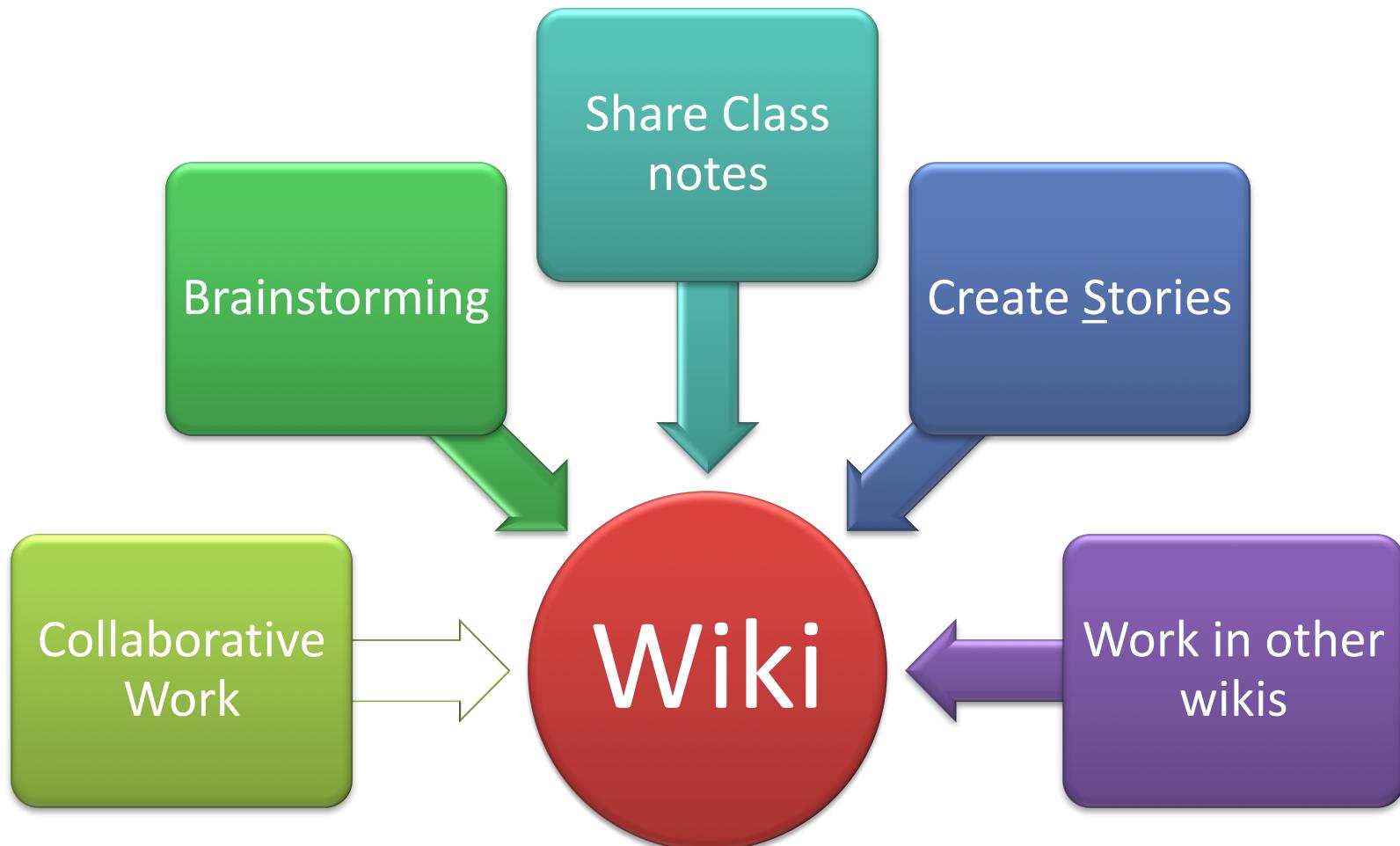
Definition

Pedagogical Models

Instructional Strategies

Learning Technologies

Promoting Collaboration and Social Negotiation



e-Learning

Definition

Pedagogical Models

Instructional Strategies

Learning Technologies

Promoting Collaboration and Social Negotiation



It is a list of tasks completed with cards, used with a team or alone.

Example:

- Create a collaborative project through Trello

<https://trello.com/>

The screenshot shows a Trello board titled "LIBRO Modelo Salamanca". The board has several columns:

- Índice y contenido de cada capítulo:** Contains cards for "Índice", "Estructura de cada capítulo", and "Tareas".
- CAPÍTULOS:** Contains cards for "Cap. 1: Educación Sup.; sistemas de créditos", "Cap. 2: Modelos b-learning", "Cap. 3: Modelo Salamanca (MoSal)", "Cap. 4: Diseño de actividades", "Cap. 5: Modelo de Formación General", "Cap. 6: Autogestión", and "Cap. 7: Comunicación Efectiva".
- CAPÍTULOS con plan de redacción, avance 1 (31 de agosto):** Contains cards for "Cap. 8: Evaluación" and "Cap. 9: Fundamentos de Programación, ADOO".
- CAPÍTULOS con redacción final, avance 2 (5 octubre):** Contains a card for "Añadir una tarjeta...".
- CAPÍTULOS versión final (2 noviembre):** Contains a card for "Añadir una tarjeta...".

At the top right of the board, there are buttons for "+", "Erla", and a bell icon, along with a "Mostrar menú" link.

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Definition

Pedagogical Models

Instructional Strategies

Learning Technologies

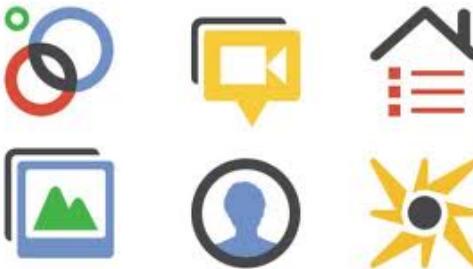
Promoting Collaboration and Social Negotiation

Engaging students in synchronous communication activities using virtual chat and videoconferencing.

The screenshot shows the Google+ interface. On the left is a sidebar with icons for Home, Perfil, Explora, Fotos, Comunidades, Eventos, and Más. The main area has tabs for Todo, Amigos, Familia, Conocidos, Soy segui..., and Más. A central box contains a placeholder 'Comparte tus novedades...' with sharing options. Below it is a post by 'Eduardo Diaz' at 18:31, shared publicly. The post includes a thumbnail of a document titled 'Digital resilience in higher education - Open Research Online', an abstract, and a 'comentar' button.

Hangouts

The screenshot shows a Google Hangout video conference. A large video frame in the center shows a man wearing headphones and a blue shirt. Below the main video are smaller video frames of other participants. At the bottom are control buttons for Invite, Chat, YouTube, Mute Video, Mute Mic, Settings, and Exit.



e-Learning

Definition

Pedagogical Models

Instructional Strategies

Learning Technologies

Promoting Collaboration and Social Negotiation

Setting online group discussion areas focused around a topic or specific activity, goal, or project, such as a case study, using asynchronous discussion forums, to promote collaboration and social negotiation

Using Google Plus Circle for discussing a specific topic.



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Definition

Pedagogical Models

Instructional Strategies

Learning Technologies

Supporting multiple perspectives

Is an instructional strategy that emphasizes the construction of flexible knowledge. By exposing students to multiple points of view of understanding or judging things or events, learners rearrange information to construct new knowledge, acquiring flexible and meaningful knowledge structures

(Duffy & Cunningham, 1996, p. 178).

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Definition

Pedagogical Models

Instructional Strategies

Learning Technologies

Supporting multiple perspectives

Example:

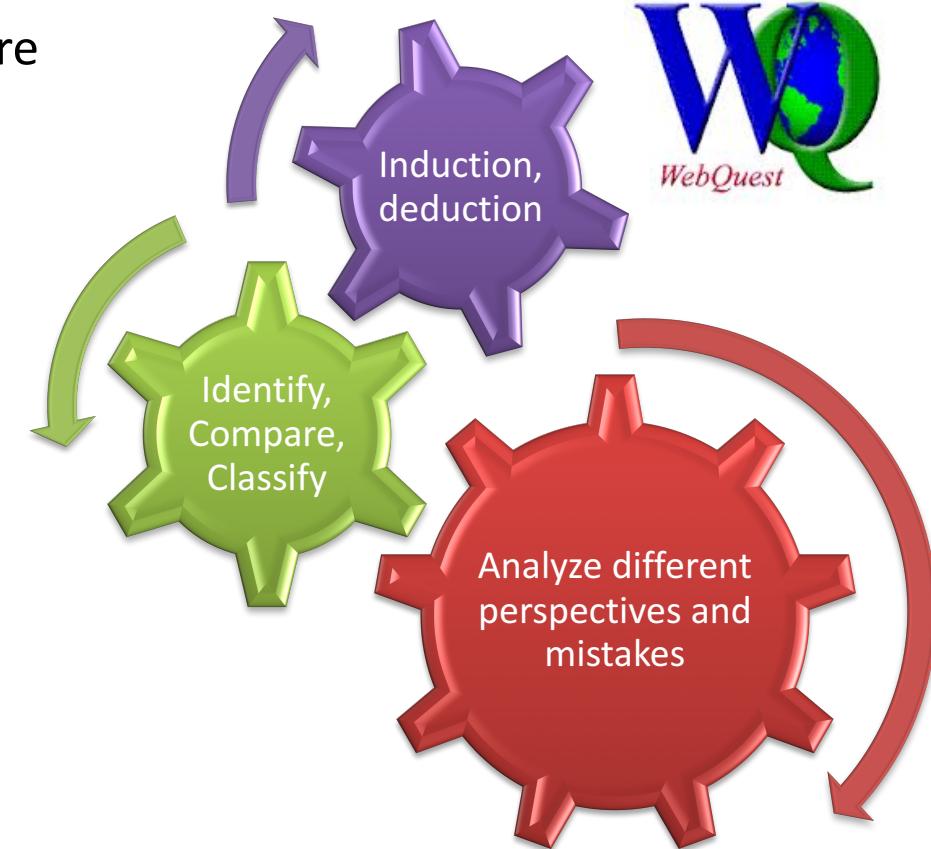
- Designing activities that allow group members to share documents related to a group project.

Modalidades y tendencias educativas en e-learning

WebQuest

Introducción Tareas Proceso Recursos Evaluación Guía didáctica Créditos

Learning Skills



e-Learning

Definition

Pedagogical Models

Instructional Strategies

Learning Technologies

Supporting multiple perspectives

EarthQuests

- Based on GIS Applications like GoogleEarth
- Allow students to go different places
- Customize the information about the places, etc.

GeoQuest

- Geointeractive activities
- Select a case of study together with geographic components
- Examples: History exploration, etc.

Activity: Around the world in 80 minutes

<http://www.xtec.cat/~jvivanco/80minuts/80minutos.htm>



<http://www.slideshare.net/corcosuk/geoquest-actividades-educativas-geointeractivas-presentation>

e-Learning

Definition

Pedagogical Models

Instructional Strategies

Learning Technologies

Supporting multiple perspectives

USAL Project

Informational competency development through the interactive learning objects, design, creation and implementation

Objectives:

Design, creation and evaluation of learning objects, based on learning styles in order to develop skills related with the efficient use of the information(**Searching, selection, storing and information register**)

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Definition

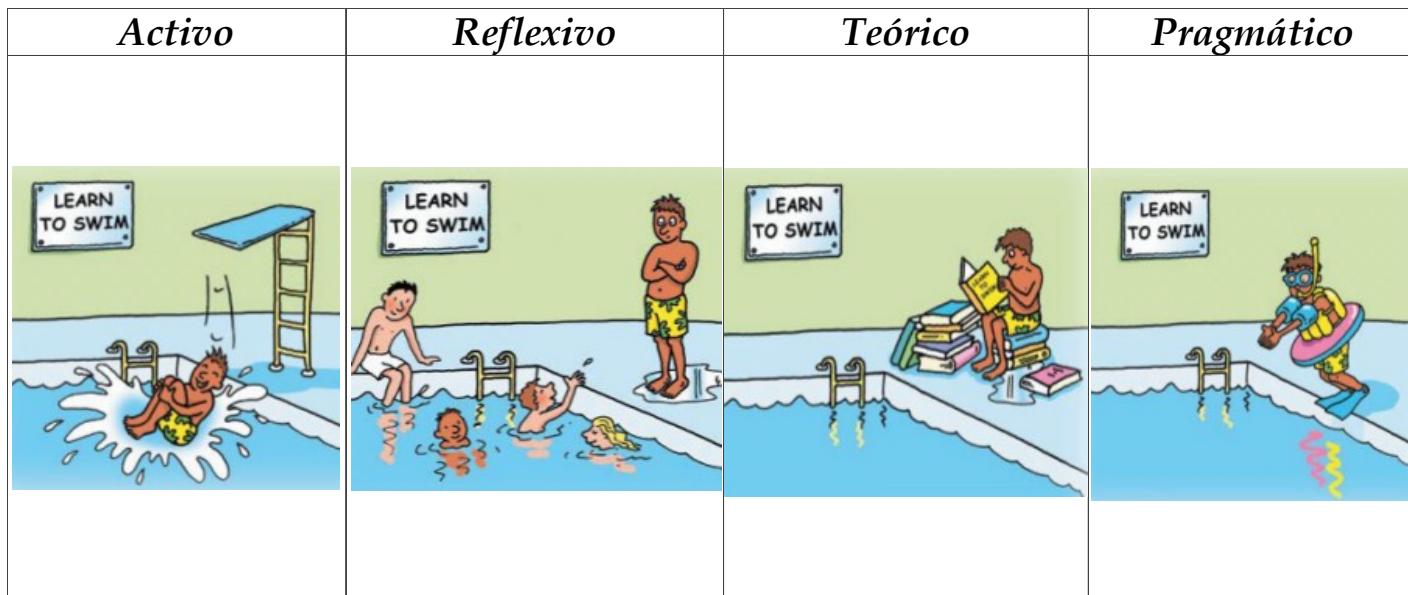
Pedagogical Models

Instructional Strategies

Learning Technologies

Supporting multiple perspectives

Learning styles (Honey & Mumford, 1986).



Características principales

Animador	Concienzudo	Metódico	Experimentador
Improvisador	Receptivo	Lógico	Práctico
Descubridor	Analítico	Objetivo	Directo
Arriesgado	Exhaustivo	Crítico	Eficaz
Espontáneo	Observador	Estructurado	Realista

Cuestionario Honey-Alonso de Estilos de Aprendizaje

Instrucciones:

- Este cuestionario ha sido diseñado para identificar su Estilo preferido de Aprendizaje. No es un test de inteligencia, ni de personalidad.
- No hay límite de tiempo para contestar al Cuestionario. No le ocupará más de 15 minutos.
- No hay respuestas correctas o erróneas. Será útil en la medida que sea sincero/a en sus respuestas.
- Si está más de acuerdo que en desacuerdo con el ítem seleccione 'Mas (+)'. Si, por el contrario, está más en desacuerdo que de acuerdo, seleccione 'Menos (-)'.
- Por favor conteste a todos los ítems.
- El Cuestionario es anónimo.

Muchas gracias.

Más(+)	Menos(-)	ítem
<input type="radio"/> +	<input type="radio"/> -	1. Tengo fama de decir lo que pienso claramente y sin rodeos.
<input type="radio"/> +	<input type="radio"/> -	2. Estoy seguro lo que es bueno y lo que es malo, lo que está bien y lo que está mal.
<input type="radio"/> +	<input type="radio"/> -	3. Muchas veces actúo sin mirar las consecuencias.

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Definition

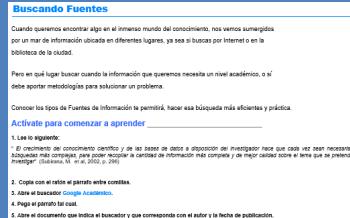
Pedagogical Models

Instructional Strategies

Learning Technologies

Learning Objects designed for Learning Styles (Campos-Ortuño & Morales-Morgado, 2013).

1. Information Sources



Theoric



2. The internet browsers



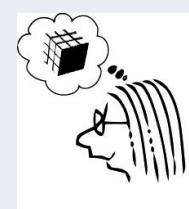
Reflexive



3. Optimization of Google browser



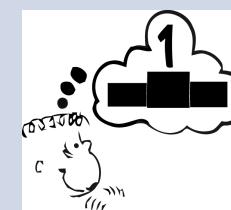
Pragmatic



4. Academic Plagiarism



Active



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Definition

Pedagogical Models

Instructional Strategies

Learning Technologies

Learning Objects content designed for Learning Styles (Campos-Ortuño & Morales-Morgado, 2013).

Active	Reflexive	Theoric	Pragmatic
1) Attention	1) Attention	1) Preparatory activity;	1) Attention
2) Preparatory activity;	2) Theory	2) Attention	2) Preparatory activity;
3) Theory	3) Preparatory activity;	3) Theory	3) Theory
4) Principal activity;	4) Theory	4) Principal activity;	4) Principal activity;
5) evaluation/ Autoevaluation/ reflection.	5) Principal activity;	5) evaluation/ Autoevaluation/ reflection.	5) evaluation/ Autoevaluation/ reflection.
	6) evaluation/ Autoevaluation/ reflection.		

e-Learning

Definition

Pedagogical Models

Instructional Strategies

Learning Technologies

Example of LO based in learning styles (Campos-Ortuño & Morales-Morgado, 2013).

- Orange colour
- Video showing a real situation

1. Attention
2. Preparatory activity
3. Theory
4. Principal activity
5. Evaluation/
Autoevaluation/
reflection.

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RACO

DIRED

El plagio académico

¿Cómo te sentirías si alguien ha copiado tu idea o argumento sin mencionar tu autoría?

PLAGIADO

Con ayuda de este Objeto de Aprendizaje podrás conocer el plagio, cómo identificarlo y evitarlo.

Conocerás:

- El plagio
- Por qué evitar el plagio
- Tipos de plagio
- No plagiar a otros

Noticia de Plagio. Fuente Euronews/Youtube
<http://youtu.be/xQnSSVjv8gE>

¿Sabía que personajes con altos cargos han tenido que dimitir de su puesto por haber cometido plagio académico?

MIRA EL VÍDEO NOTICIA

Previous

Slide 1 of 7

Next

e-Learning

Definition

Pedagogical Models

Instructional Strategies

Learning Technologies

Example of LO based in learning styles: adaptation to Chilean context

Morales-Morgado, E. M., Ortúñoz, R. A. C., & Bonilla, A. A. P. (2016).

Plagirism in latinpamerican context

¿Sabía que personajes con altos cargos han tenido que dimitir de su puesto por haber cometido plagio académico?



Noticia de Plagio. Fuente: asismoslarred/Youtube
<https://www.youtube.com/watch?v=sYkepFSUszM>



Noticia de Plagio. Fuente: 24 horas/Youtube
<https://www.youtube.com/watch?v=8vFig8SmPQ>

¿Por qué se debe evitar el plagio?

El **plagio** es una infracción de integridad académica, que tiene que ver con la honestidad intelectual.

No es ético, puede conllevar graves consecuencias legales, ya que atentan los derechos morales y patrimoniales del autor original, y esto se considera un delito.

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Ley Chilena 17.336 sobre propiedad intelectual.
Publicada en el diario oficial el 2 de Octubre de 1970.

Ley de Propiedad Intelectual de España, regulada por real Decreto Legislativo 1/1996 , de 12 de abril (modificada por la Ley 5/1998 de 12 de abril)



Fuente: <http://goo.gl/pMQ40I>

¿Qué suele plagiarse en el mundo?



Clic para conocer

Chilean Law of Intellectual property

e-Learning

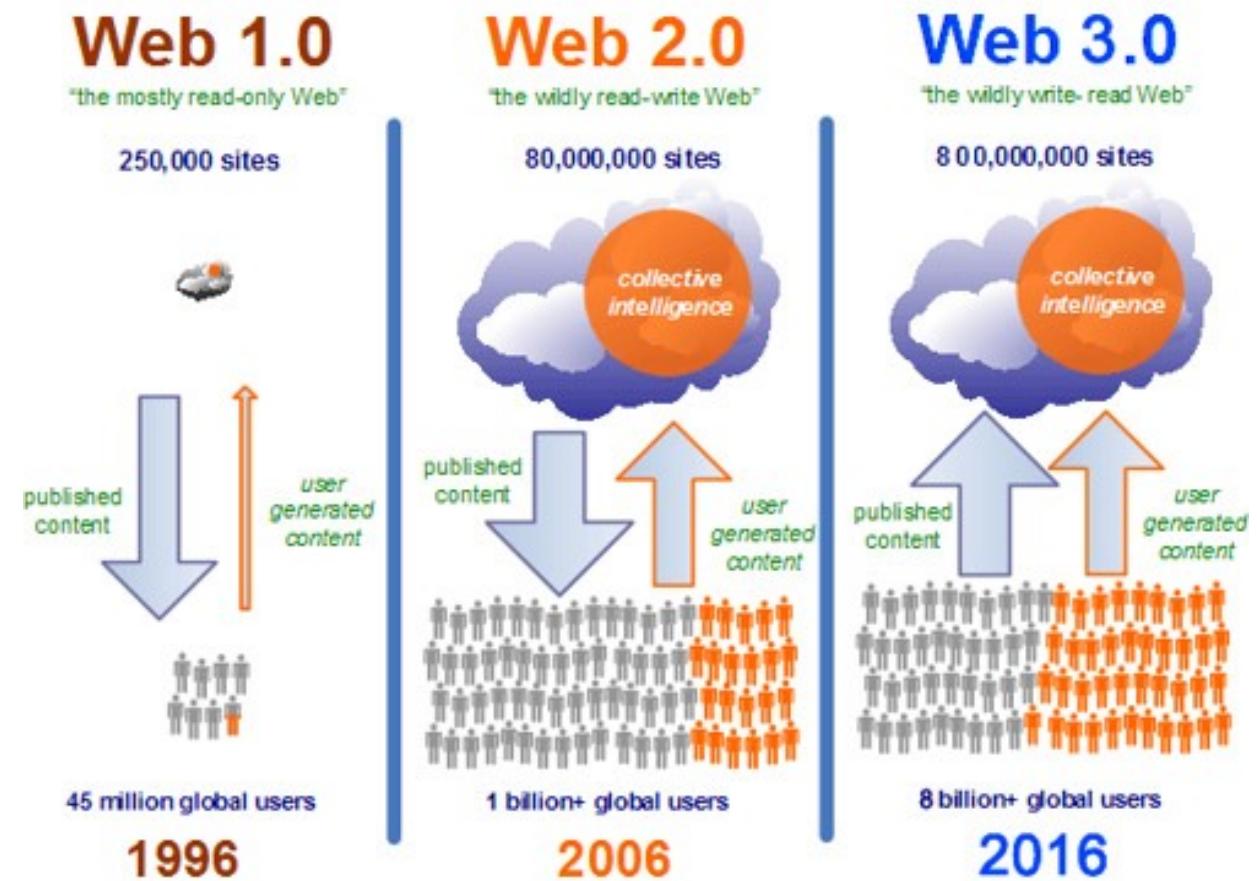
Definition

Pedagogical Models

Instructional Strategies

Learning Technologies

The Web 2.0 is not a technological revolution, it is a social revolution. "Here's my take on it: Web 2.0 is an attitude not a technology.
Downes (2005).



e-Learning

Definition

Pedagogical Models

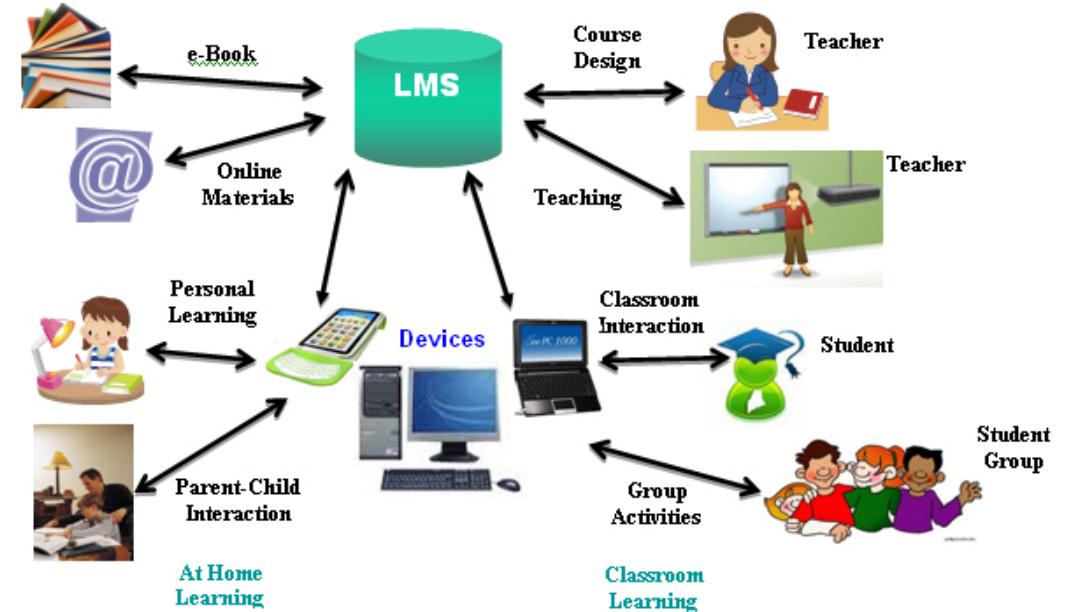
Instructional Strategies

Learning Technologies

LMS (Learning Management Systems)

The dominant learning technology employed today is a type of system that organizes and delivers online courses—the learning management system (LMS).

Downes (2005)



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Definition

Pedagogical Models

Instructional Strategies

Learning Technologies

Private e-Learning platforms

It provides the teacher with a virtual private space, in which messages, files and links can be shared, a classroom calendar, as well as proposing tasks and activities as well as managing them.

- 

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<http://www.redalumnos.com/>

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Definition

Pedagogical Models

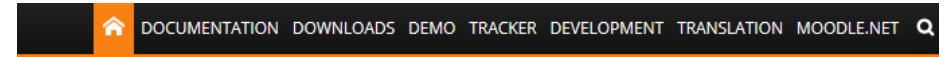
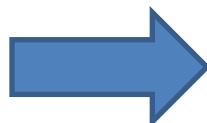
Instructional Strategies

Learning Technologies

Open Source e-Learning platforms



Modular Object-Oriented Dynamic Learning Environment



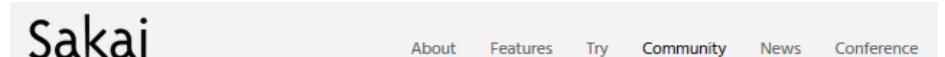
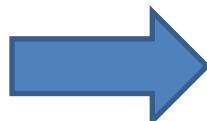
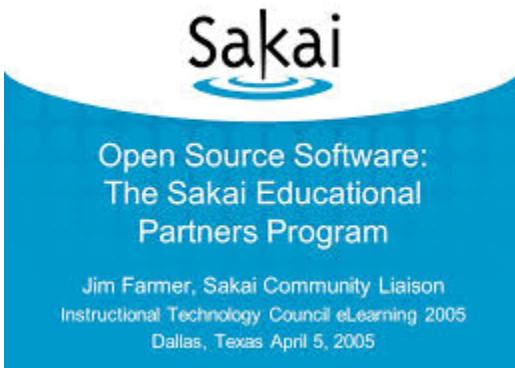
English (en)

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Community driven, globally supported.

Welcome to the Moodle community and discover the value of an open, collaborative effort by one of the largest open-source teams in the world.

COMMUNITY FORUMS



About Features Try Community News Conference

Community

Sakai is built by higher education, for higher education. Nothing up our sleeve - 100% open-source.

Home • Community

For the greater good.

Powered by a global array of academic institutions and commercial affiliates, Sakai is designed from the ground up to meet the needs of Higher Education. Community involvement is central to the continued sustainability and evolution of Sakai. This involvement is not limited to forums and feature requests. As a community-driven initiative, Sakai has an active and diverse number of active groups dedicated to accessibility, internationalization, documentation, and specific tools/functionality. It has a dedicated Teaching and Learning Community containing developers, academic administrators, and instructors, as well as a full-time Community Coordinator. And it is governed by a Project Management Committee, a meritocratic group of dedicated individuals who oversees key

Project Leadership
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Fellows Awards
ATLAS Awards
TWSIA Awards
Ways to Contribute
Contact

e-Learning

Definition

Pedagogical Models

Instructional Strategies

Learning Technologies

e-Learning platforms

The “traditional” eLearning platforms, despite their large penetration and consolidation, need to evolve and open themselves to support this rich fan of possibilities demanded by the users, ceasing to be the centre technological attention to become another component into a complex digital ecosystem oriented to the learning and knowledge management, both at institutional and personal levels.

(García-Peñalvo & Seoane, 2015)

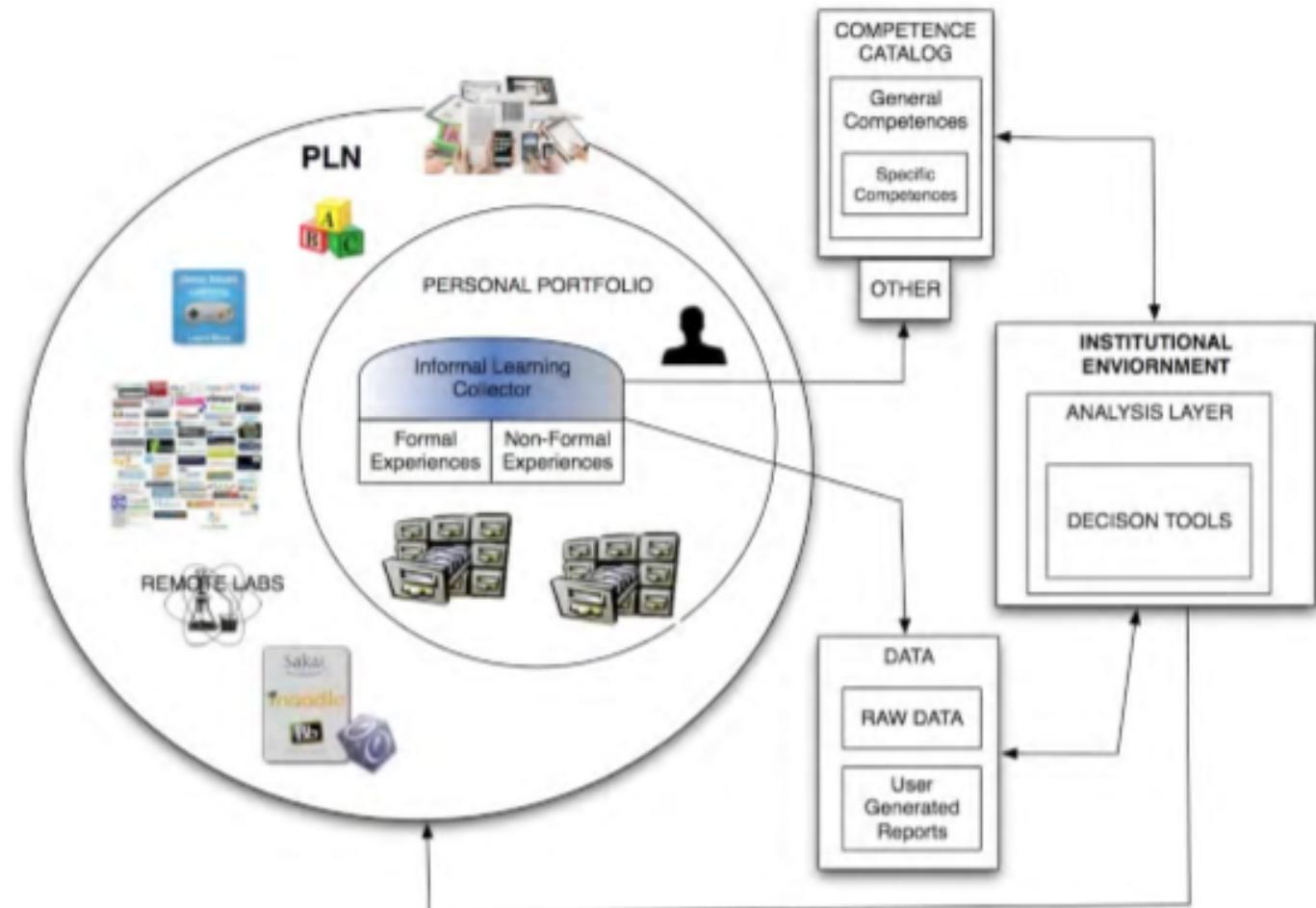


Imagen. An example of a personal learning network that includes informal skills
(García-Peñalvo et al., 2014)

e-Learning

Definition

Pedagogical Models

Instructional Strategies

Learning Technologies

Gadgets into Moodle

InfanTIC

Debates Miembros Promociones Empleos Búsqueda Más...

El Alzheimer explicado en cuentos y cómics de superhéroes

Cuentos y cómics infantiles del superhéroe Prodigy-man que ayudarán a los niños y preadolescentes a comprender qué es el Alzheimer y cómo comportarse con los abuelos o personas mayores que padecen esta enfermedad.

Seguir a Oscar

PRODIGY-MAN: COMICS -- CUENTOS INFANTILES DEL SUPERHÉROE PRODIGY-MAN... prodigy-man-
files.blogspot.com.es
CUENTOS INFANTILES - BONUS EXTRA - LAS GATITAS.**
CUENTO 1 - LAS GATITAS Y LA CAJA DE LOS RECUERDOS CUENTO
2 - LAS GATITAS Y EL GATO MIEDOSO VA AL MÉDICO *****PRODIGY-MAN:
COMICS ONLINE***** *Clickar en... hace 1 mes

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prodigy-man-files.blogspot.com.es
CUENTOS INFANTILES - BONUS EXTRA - LAS GATITAS **
CUENTO 1 - LAS GATITAS Y LA CAJA DE LOS RECUERDOS CUENTO
2 - LAS GATITAS Y EL GATO MIEDOSO VA AL MÉDICO *****PRODIGY-MAN: COMICS ONLINE***** *Clickar en...
Editar

Publicar en actualizaciones

Interesante iniciativa que apuesta por un tema que afecta a muchas familias, totalmente recomendable.

Recuento: 103

visible a: todos ▾

Sharing information from LinkedIn to Twitter

Sígueme en Twitter



Erla Morales Morgado
erlamorales

- erlamorales Interesante iniciativa que apuesta por un tema que afecta a muchas familias, totalmente recomendable.
lnkd.in/bQKrS2
55 seconds ago · reply · retweet · favorite
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Twitter gadget into Moodle

e-Learning

Definition

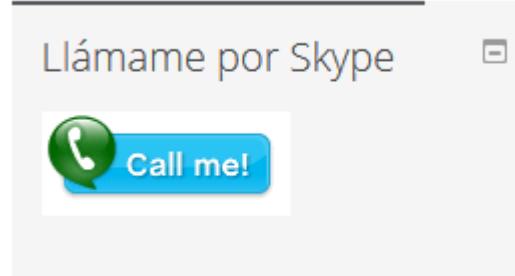
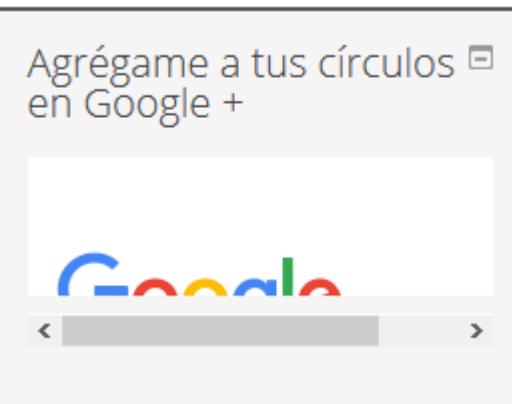
Pedagogical Models

Instructional Strategies

Learning Technologies

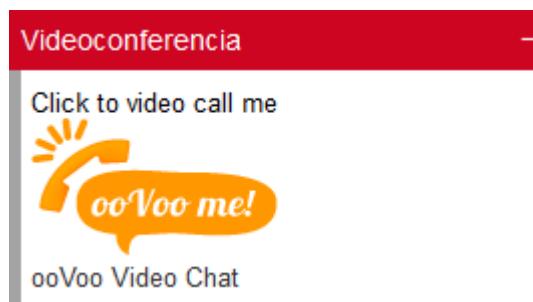
Gadgets into Moodle

- .



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e-learning Conocimiento en Red

Añadir/Editar canales

Generative Justice Vol 13, No 2 (2016) Revista
@Teknokultura

"Learning from Simulated and Unsupervised Images
through Adversarial Training" . @apple inc. Research ...

Jóvenes, transformación digital y formas de inclusión en
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@JovenesDigital

Giving Psychology Away via Open Pedagogy. Slideshare
from Rajiv Jhangiani @thatpsychprof

"El cuerpo en la escuela", Pablo Scharagrodsky

Sitio fuente...

m-Learning

Definition

Pedagogical Models

Instructional Strategies

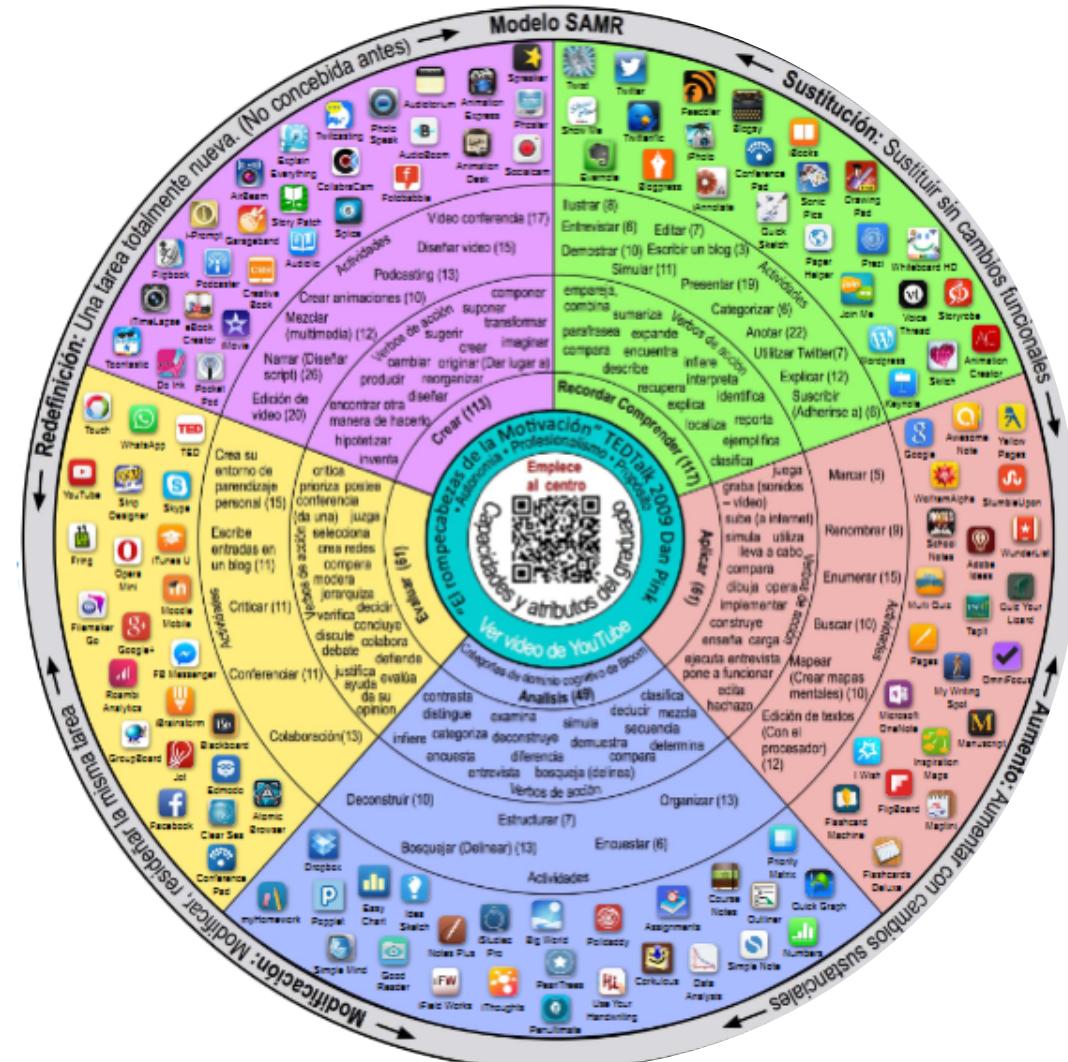
Learning Technologies

m-Learning

M-learning is a new learning approach to support personal learning demands that may happen anywhere and/or at any time; or in response to the process of coming to know, by which learners in cooperation with their peers and teachers, construct transiently stable interpretations of their world

(Sharples, Taylor and Vavoula, 2005).

Cited by Casany et al., 2012)



m-Learning

Definition

Pedagogical Models

Instructional Strategies

Learning Technologies

m-Learning

Moodbile: A Framework to Integrate m-Learning Applications with the LMS
Casany et al. (2012)

Integrate mobile devices and educational applications with the LMS through webservices; introducing the Moodbile project that provides an extension of Moodle 2.0 webservices for mobile integration and two mobile clients ready to use on real courses.

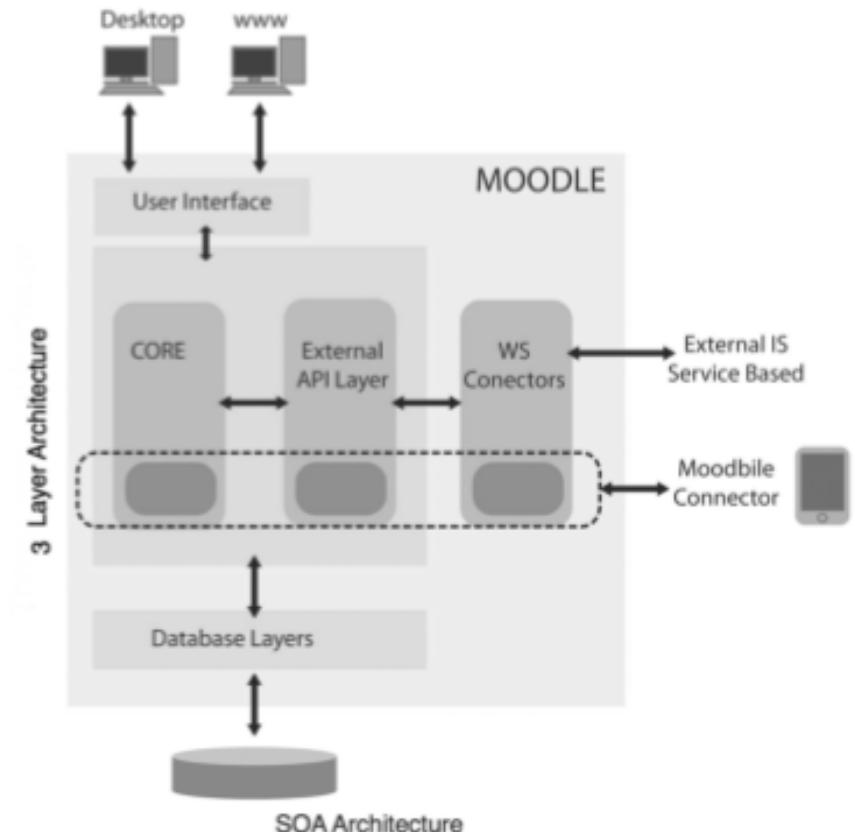


Figure 2: Moodbile Connector Architecture

Phd programme Education in the Knowledge Society

PhD Programme coordinator:

Dr. Francisco José García Peñalvo
fgarcia@usal.es
@frangp



(<http://knowledgesociety.usal.es>)

(García-Peñalvo, 2013a ;2013b; 2014a; 2015)

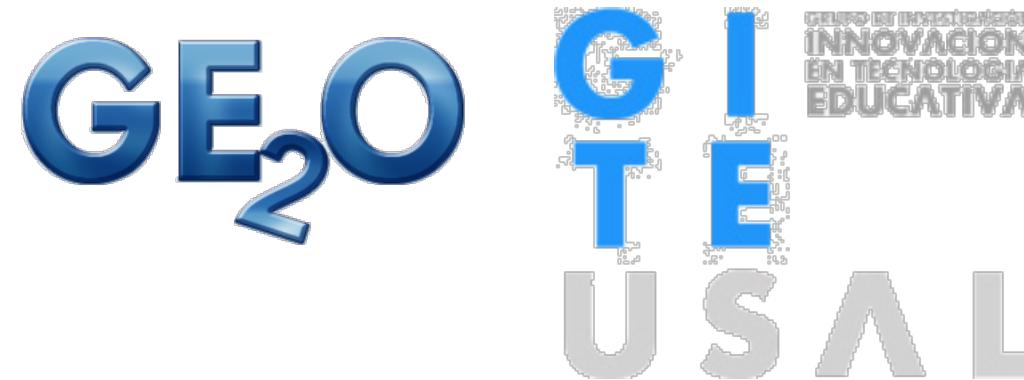


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International Conference Technological Ecosystems for Enhancing Multiculturality (TEEM'16)

<http://2016.teemconference.eu/>

- TEEM 2013 – Salamanca, Spain, November 14 - 15, 2013
<http://dl.acm.org/citation.cfm?id=2536536>
- TEEM 2014 – Salamanca, Spain, October 01 - 03, 2014
<http://dl.acm.org/citation.cfm?id=2669711>
- TEEM 2015 – Porto, Portugal, October 07-09, 2015
<http://dl.acm.org/citation.cfm?id=2808580>
- TEEM 2016 – Salamanca, Spain, November 2-4, 2016
<http://dl.acm.org/citation.cfm?id=3012430>
- TEEM 2017 – Cádiz, Spain, October 18-20, 2017
<http://teemconference.eu>

International Conference

Technological Ecosystems for

Enhancing Multiculturality (TEEM'16)



TOPICS				
Education	Human-Computer Interaction	eLearning	Computers in Education	Communication
Assessment and Orientation				Media and Education
Medicine and Education	Robotics in Education	Engineering and Education	Information Society and Education	
TRACKS				
<p>The Conference itself looks for the innovation. The TEEM Steering Committee do not want this event be another classic conference in which people present their works and returns home without interacting with the peers. This way, TEEM is divided in thematic and highly cohesive tracks. Each track shares the scientific and formal aspects for paper submissions, peer reviews and publication, but the track chairs will organize the proper dynamics to achieve the most important goal: to create a researching community.</p>				
PROCEEDINGS				
<p>Conference proceedings will be published in the ACM Digital Library as a volume in its International Conference Proceedings Series with ISBN and indexing in SCOPUS.</p>				

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