Building an scenario of open apps for education, based on teachers' collaboration

Francesc Busquets
fbusquets@xtec.cat

Knowledge and Learning Technologies Unit
Department of Education of Catalonia

Public Education in Catalonia

- About 3.000 public schools
- About 10^5 teachers, 10^6 students
- Two official languages: Spanish and Catalan
- New Education Law (2006), focused on the work on key competences
- Main challenges: multicultural integration, improvement of academic results

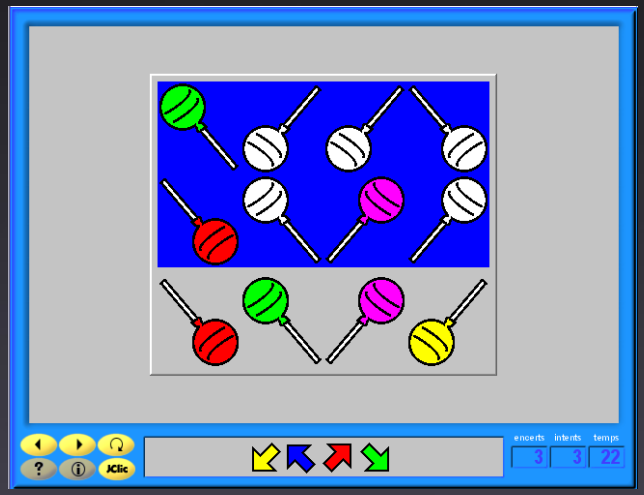
ICT in Education in Catalonia

- Official program started in 1986
- XTEC: Public Telematic Educational Network, offering Internet services since 1995 to all Catalan teachers and schools.
- Creation and sharing of educational materials by teachers, stimulated by in-service teacher training
- Heterogeneous systems and models of use
- Promotion of free software and collaborative projects

Some Open Source projects promoted by the ICT in Education Unit

JClic

Ciervo
Gamo
Flamenco
Camaleón
Lince
Garceta
Jabalí
Gansos
Relaciona estos animales de Doñana con su nombre.
aciertos intentos tiempo
0 1 21
Actividad en marcha


encerts intents temps
3 3 22

ENCAIXOS
Troba l'altre tros !
Què li falta?
Què ha canviat?
Troba les diferències!
Pensa i Relaciona
Què vols fer?
encerts intents temps

Chillida Leku
Berlin
Chillida Leku
Jaula de Libertad
Diálogo y Tolerancia
Busto
Cruz
Gure aitaren etxea
Peine del Viento
Lugar de Encuentro
Homenaje al Mar
Elogio al Agua
Elogio del Horizonte
Chillida Leku
Homenaje a Calder
EDUARDO CHILLIDA: Asocia el nombre de la obra con su representación
aciertos intentos tiempo
0 0 101

JClic

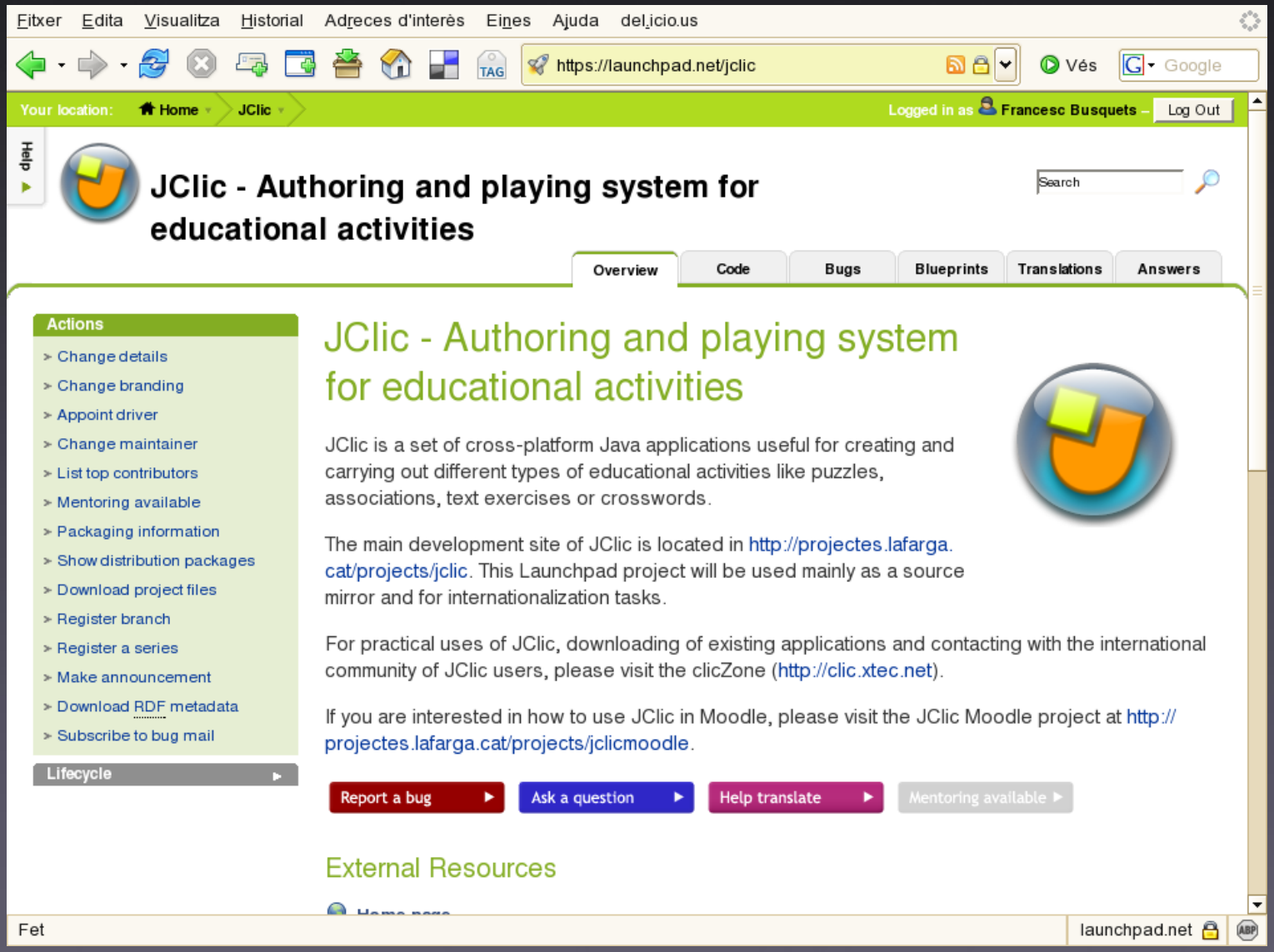
- Open platform for activities in varied modes (relationship, putting in order, identification, classification, and so on)
- Made with Java
  - Multiplatform (Linux, Windows, OS X, Solaris...)
  - Same application, several delivery formats: Applet, Stand-alone frame, Java WebStart application

JClic

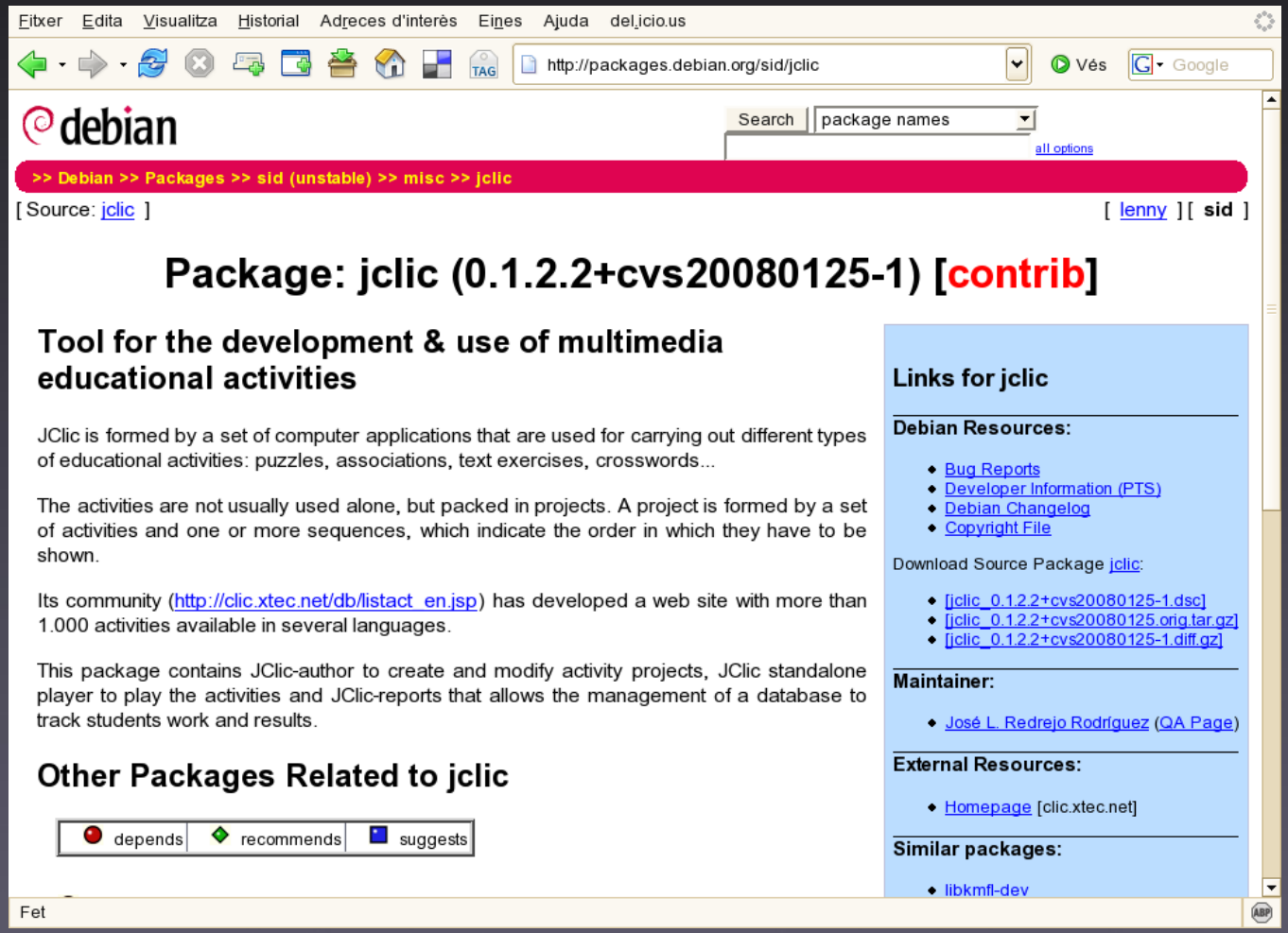
- Evolution of Clic 3.0 (1992-2000)
- Free software, distributed under GPL
  - http://projectes.lafarga.cat/projects/jclic

- Available in several languages:
  - Catalan, Spanish, English, Galician, Basque, French, German, Portuguese (pt and br), Italian, Greek, Turkish... and more coming

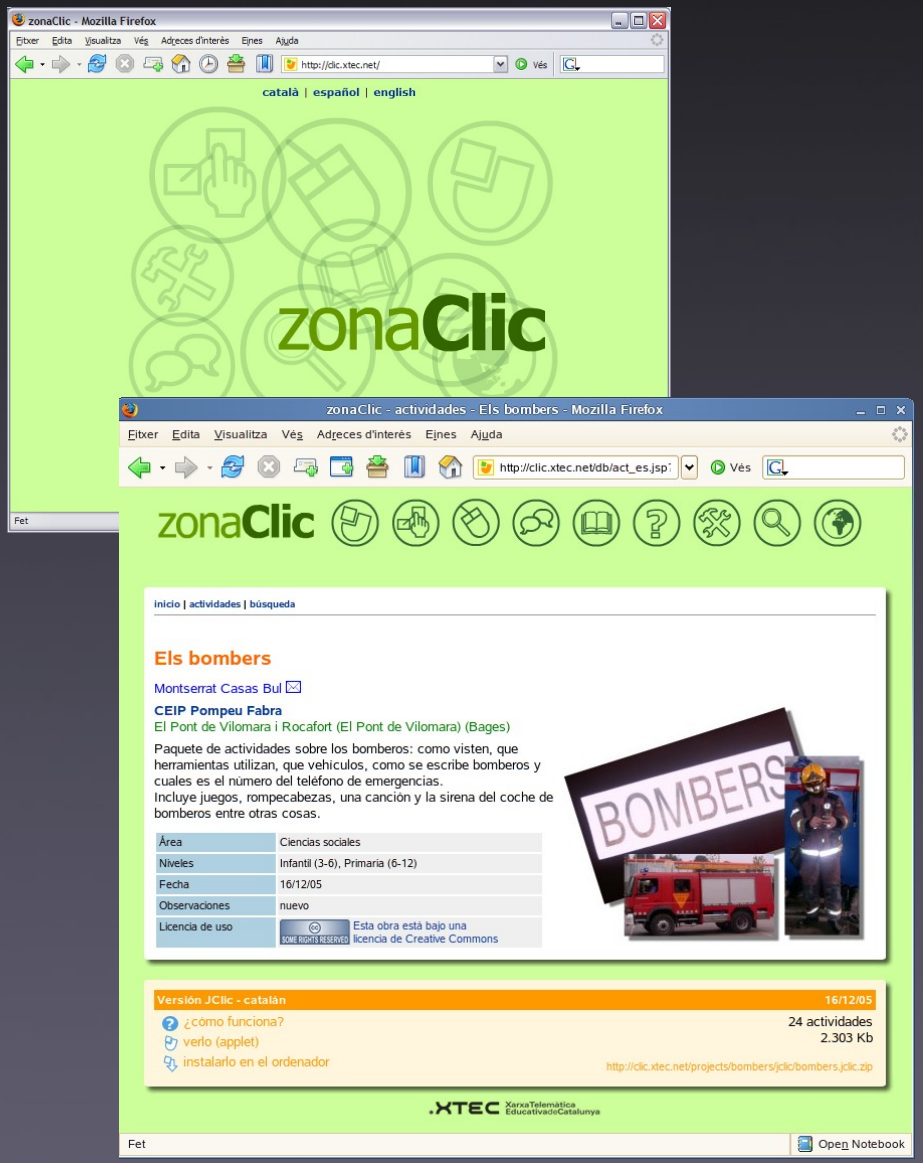
JClic in Launchpad



JClic and Linux

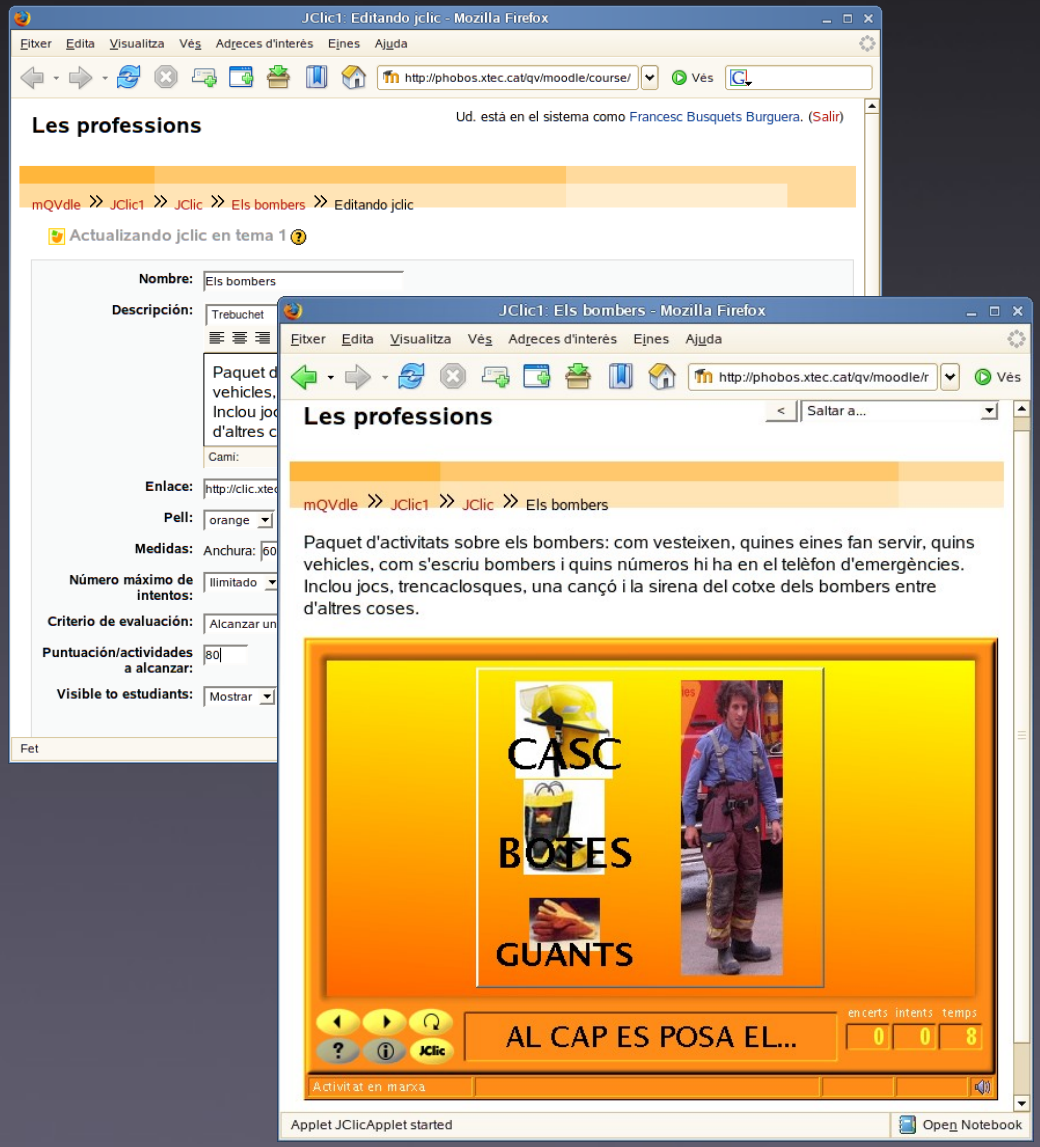


JClic, collaborative project



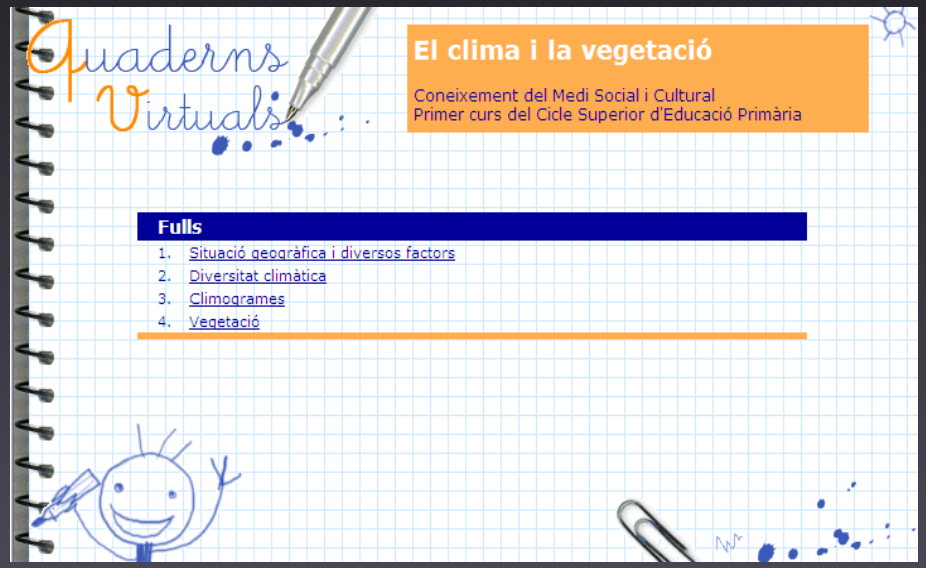
- ClicZone: open space for collaboration and exchange of learning objects between educators
  - http://clic.xtec.net
- Library with more than 1.000 projects and 120.000 activities, in different languages

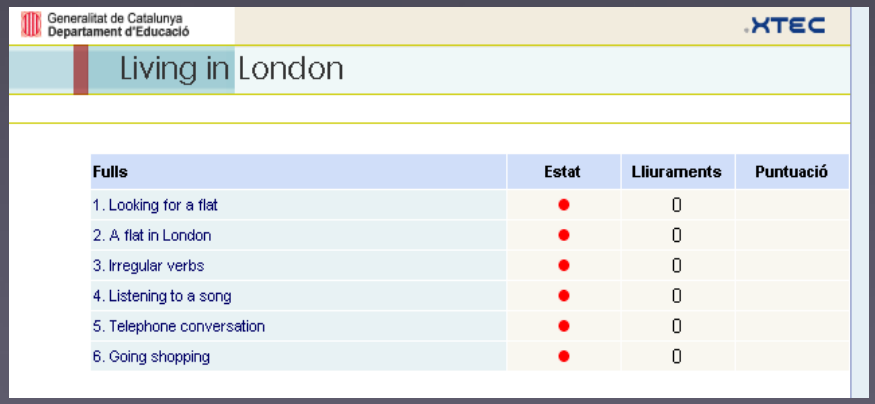
Jclic-Moodle integration



- Embedding of JClic activities in Moodle courses
- Collection of the student's results
- Integration with the grades system of Moodle

Virtual Notebooks

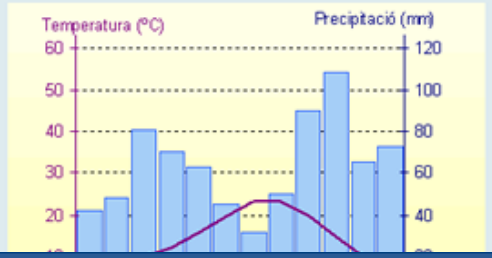




- Implementation of the IMS QTI standard
- Authoring tool for teachers
- Control of play conditions and student's answers
- Integrated in Moodle http://clic.xtec.net/qv
- Library of notebooks created by teachers

Virtual Notebooks

Observa el climograma i respon a les preguntes sele

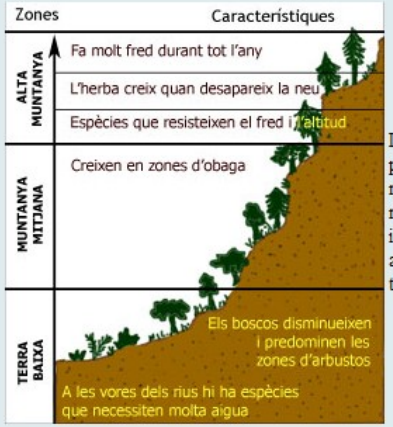


Place these phrases in the correct order

L: 666-123-123, Mrs. Walsh speaking.
E: Hello, I´m Eva, the girl who came this morning to see the flat
L: Ah! Yes! What do you think of it?
E: Though it´s small, it has everything I need... I like the district and the flatmates also.
L: Yes, they´re very friendly. So, have you decided to take it?
E: Yes, I want to rent the room
L: Well, I am glad. When will you come to sign the lease and to make the first payment?
E: Tomorrow morning
L: Perfect
E: I would like to drop off my things tomorrow if you don´t mind.
L: Of course! Tomorrow you can settle into your room as soon as you have signed the lease.
E: Fine. See you tomorrow
L: Bye

El clima i la vegetació
Vegetació

4/4
puntuació: -



Les plantes necessiten unes condicions específiques per créixer segons l'espècie a la que pertanyen. Algunes requereixen molta aigua mentre que altres són molts resistents a la sequera. Unes resisteixen molt bé el fred i altres necessiten temperatures més càlides. És per això que la vegetació varia segons el relleu, el clima, el tipus de sòl i la influència del ésser humà.

Ordena les imatges segons l'alçada de la muntanya en la que es troben: la primera la que et trobaries més a baix (en la falda de la muntanya) i la última la que et trobaries més a dalt en la muntanya.

Alzina

Romaní

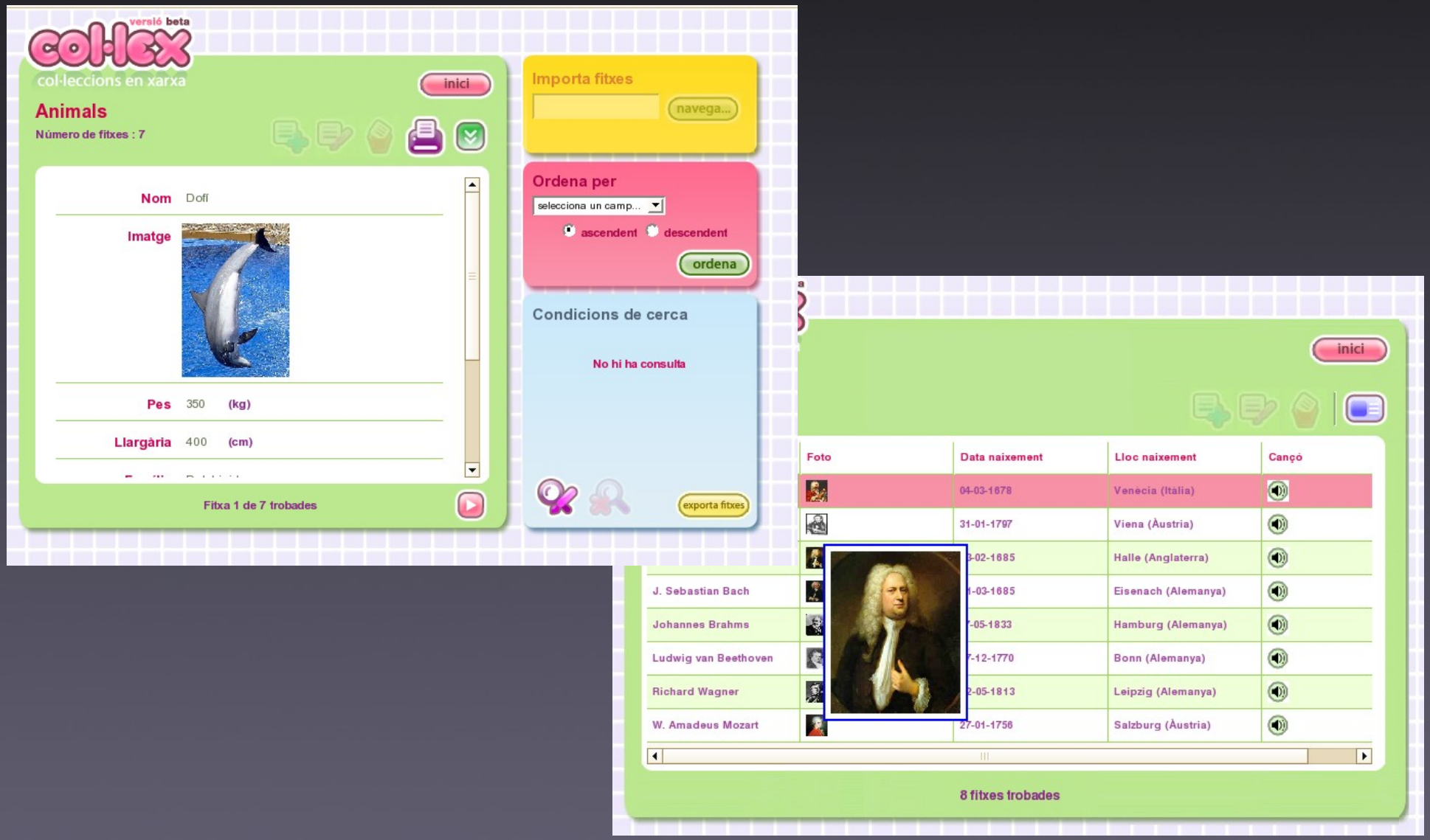
Avet

Castanyer

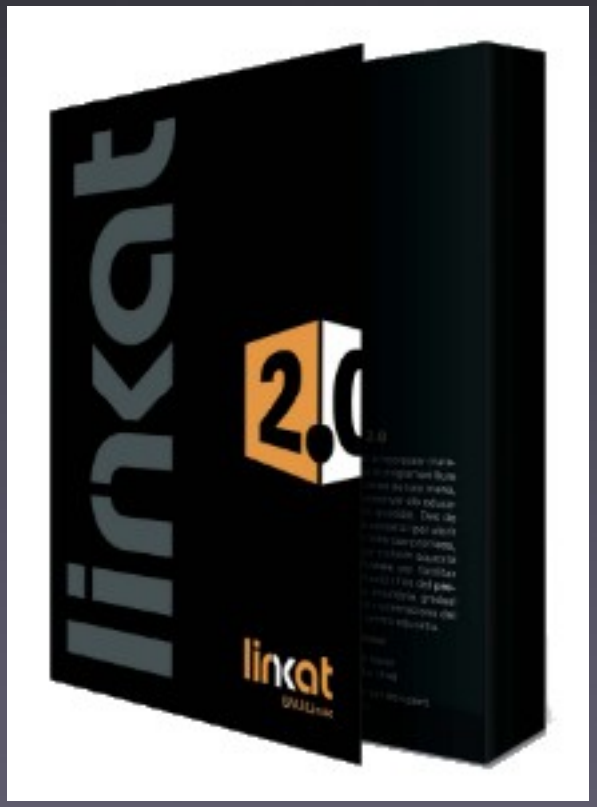
Col·lex

- On-line database system for primary school students
- Free definition of the data structure
- Textual, numéric, boolean, date and multimedia field types
- Search, filtering and ordering criteria
- Allows collaborative work on a single database
- http://www.edu365.cat/colex
- https://projectes.lafarga.cat/projects/colex

Col·lex


versió beta
col·lex
col·leccions en xarxa
inici
Animals
Número de fitxes : 7
Nom Dofí
Imatge
Pes 350 (kg)
Llargària 400 (cm)
Fitxa 1 de 7 trobades
Importa fitxes
navega...
Ordena per
selecciona un camp...
ascendent
descendent
ordena
Condicions de cerca
No hi ha consulta
exporta fitxes
inici
Foto
Data naixement
Lloc naixement
Cançó
04-03-1678
Venecia (Itàlia)
31-01-1797
Viena (Àustria)
Halle (Anglaterra)
J. Sebastian Bach
Eisenach (Alemanya)
Johannes Brahms
Hamburg (Alemanya)
Ludwig van Beethoven
Bonn (Alemanya)
Richard Wagner
Leipzig (Alemanya)
W. Amadeus Mozart
27-01-1756
Salzburg (Àustria)
8 fitxes trobades

Linkat



- Full operational environment made with free software
- A pack of free software selected by its educational value
- A service offered to all the schools of our community, and to all its users

Linkat

- GNU/Linux distribution oriented to the Catalan educational system, based on OpenSuse
- Wide software library and on-line update service
- Linkat portal: http://linkat.xtec.cat
- Technical support to schools
- In-service teacher training activities and materials

Thank you!