Information on materials used in the Labdoo project: Edubuntu and wikidoo (subset of Wikipedia by SOS Children UK)

1. Edubuntu

Edubuntu is designed for school and an educational collection of learning programs and games for different age ranges. It is available as an ISO image DVD or download extensions for Ubuntu or can be installed via the package manager using different meta packages.

Anyone who is interested in only some of the programs included or additionals can of course install it separately. In addition to just using Edubuntu in schools, larger installations will be set up (for the server / client principle). The desktop environment can be GNOME , Ubuntu 2D (from Ubuntu 11.04) or Unity.

Part of this text was originally taken from http://wiki.ubuntuusers.de/Edubuntu and http://www.edubuntu.org/screenshots

1.1. GCompris / Childsplay

GCompris and Childsplay are collections of different educational games for children of various age groups. Depending on the installed packages it contains arithmetic, spelling, letter, word-finding and memory games. The goal is the children in a fun way to promote. Since Gcompris contains over 100 games it is pre-installed on laptops Labdoo.
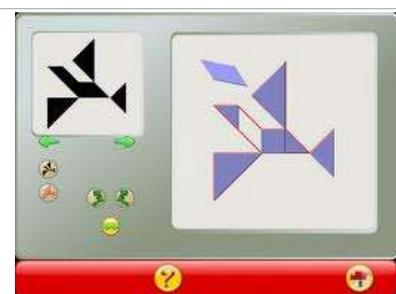

Childsplay   Educational

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Information about Gcompris:

In the menu items are hidden more than 100 games and educational programs that can help the children:

Menu	description
"discover the laptop"	To learn about input to the computer in different games.
"Go to the discovery games"	Discover in games colour, sounds, the world...
"Puzzles"	Logic-, memory-, puzzle-, toss- and patience games.
"go to the games panel"	Pastime with chat, draw ...
"Mathematics"	Count, Calculate and geometry games.
"go to the read panel"	Learn about letters, reading and hang man ...
"Go to experience activity"	Knowledge of electrical circuits, the water cycle, the operation of a lock ...
"Strategy games"	Pastime using chess, ic-tac-toe, Oware and balls in a line.

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Information about Childsplay

Childsplay is not included with Labdoo, but can be installed later at any time free of charge via the Internet. Some programs are already Childsplay contains Gcompris. The user has a number of games to choose from.

Games

Icon	description	difficulty
	Classic memory game in which the correct pairs of pictures to be found.	*/**
	memory with small letters.	*/**
	Memory with capital letters.	*/**
	Find the matching numbers in the game.	*/**
	Find the matching sounds in the game.	*/**
	Mouse training - try to hit the fish.	*
	Click on the spoken letters and numbers.	*/**

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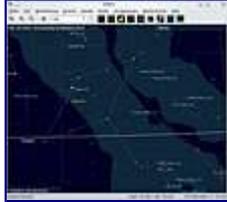
	Keyboard training - press the button on the displayed letter.	*
	A picture must be reassembled correctly.	*/**
	Sounds will be played, which must be assigned to the corresponding image.	*
	Learn the alphabet letters and the matching animal sound.	*
	The video game Pong.	*
	In this Pacman-clone, the letters of a given word have to be eaten in the correct order.	**/***
	The aim is to hole in the ball. Use the right mouse button is pushed, and specifically with the left button. The longer it is held, the greater the impact.	**/***

Weitere Spielprogramme können über ubuntu nachgeladen werden.

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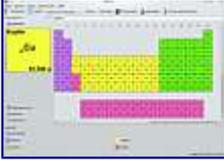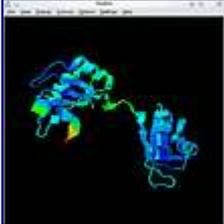# Edubuntu and wikidoo (subset of Wikipedia by SOS Children UK)

1.2 Edubuntu Programs

Astronomy & Geography

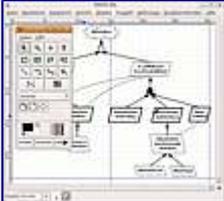| program	Description	package name	Screen shot
Celestia	Celestia is a program which allows you to move virtually through space and visit other planets, stars and galaxies.	**celestia-gnome**	
KStars 🇬🇧	KStars is a program that creates an artificial star sky on your desktop. Once the basic data is entered and extensions have been downloaded, you can locate using the desktop planetarium stars, planets, the sun, the moon and thousands of comets and asteroids, in order to possibly observe with his own telescope.	**kstars**	
Marble	Marble is a desktop globe. The program is similar to the popular Google Earth program. It is kept simple, yet very sophisticated and powerful. It supports a variety of card materials including OpenStreetMap and can reproduce it on a globe or a map.	**marble**	
Stellarium	Stellarium is a free planetarium software.	**stellarium**	

Chemestry

program	Description	package name	Screen shot

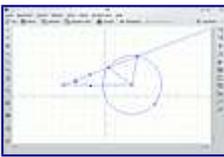|			
[Kalzium](#)	Calcium allows the study of the Periodic Table of Elements. It is very extensive, for example, it can be reconstructed the temperature at which they change the physical state of each element. Using this program it can be calculated and shown as Bohr's atomic model, or it can retrieve information on the alpha-and beta-decay or the atomic mass.	**kalzium**	
[Melting](#) 🇬🇧	With melting, the entropy, enthalpy and the melting point of the helix spirals are calculated by double-stranded nucleic acid molecules. Possible combinations of the DNA / DNA, DNA / RNA and RNA / RNA.	**melting**	-
[RasMol](#) 🇬🇧	With RasMol can be macromolecules (eg proteins, nucleic acids, etc.) represented graphically.	**rasmol**	

Graphic und Construktion

program	Description	package name	Screen shot
[Dia](#)	Dia is a diagram editor that provides a variety of options available to create attractive charts. Besides being able to place the objects and scale-free, graphics can be included.	**dia-gnome** oder **dia**	
[FreeMind](#)	FreeMind is a program to create mind maps.	**freemind**	-

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Edubuntu and wikidoo (subset of Wikipedia by SOS Children UK)

GnuPaint 🇬🇧	GnuPaint is a simple paint program, which is based on xpaint.	**gpaint**	
Inkscape	Inkscape is a vector based graphics program like Adobe Illustrator, Freehand, CorelDraw or Xara X. The application provides a very user-friendly interface, which remains in spite of the many functions intuitively and clearly.	**inkscape**	
Pencil 🇬🇧	Pencil can wcreate traditional hand-drawn animations (cartoons). It supports both bitmap and vector graphics.	**pencil**	-
QCad	QCad is a very powerful free program for two-dimensional CAD drawings. You can create various technical drawings such as plans for buildings, interiors, mechanical parts or schemas and diagrams.	**qcad**	
Tux Paint	Tux Paint is a simple drawing program for young children. Images can be painted using stamps, brushes etc.	**tuxpaint**	
VYM	VYM (View Your Mind) is a simple to use application for creating mind maps.	**vym**	

Information on materials used in the Labdoo project:
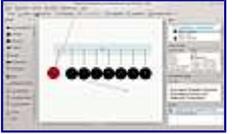# Edubuntu and wikidoo (subset of Wikipedia by SOS Children UK)

Mathematics

program	Description	package name	Screen shot
GeoGebra	GeoGebra is a free geometry software, with the mathematical properties of geometry, algebra and calculus can be drawn.	**geogebra**	-
KAlgebra 🇬🇧	KAlgebra is a mathematical computer program. The basis is the language of content MathML, which can be used to describe the structure of a formula. It can run arithmetic and logical operations and two-and three-dimensional graphs are shown.	**kalgebra**	
KBruch	KBruch is a program to practice fractions (fraction tasks, comparing, and factoring). The difficulty of the tasks can be adapted to the level of knowledge. New tasks can be added.	**kbruch**	
Kig 🇬🇧	Kig is a geometry program. Mathematical figures and concepts can be explored interactively.	**kig**	
KmPlot 🇬🇧	KmPlot is a program to visualize mathematical functions.	**kmplot**	
Lybniz 🇬🇧	Lybniz is a simple program for visualizing mathematical functions.	**lybniz**	-
Tux, of Math Command 🇬🇧	Tux of Math Command also known as TuxMath is a math coach, with whom the basic arithmetic may be practiced. The gameplay is based on the arcade classic Missile Command. Tux must save cities by solving mathematical problems before the destruction.	**tuxmath**	

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XaoS 🇬🇧	XaoS is a program which creates fractal graphics in real time.	**xaos**	

Physics

program	Description	package name	Screen shot
Light Speed!	Lightspeed is an OpenGL-based program that illustrates the effects of relativity on a fast moving object.	**lightspeed**	-
Step	Step is a very comprehensive, interactive physics simulation application.	**step**	

Games

program	Description	package name	Screen shot
Atomix 🇬🇧	Atomix is a game to preassemble molecules from individual atoms. The gameplay is based on the AMIGA game Atomix.	**atomix**	
blinKen 🇬🇧	blinKen is a game known in the 80s under the name "Senso". It is important to remember the sequence, blinking in the fields (red, yellow, blue and green). This is then re-entered by the player. The difficulty increases with each round.	**blinken**	
Gamine 🇬🇧	Gamine is a game that is designed for 2-year-old children who can not use the keyboard. The children use the mouse to paint with colored lines and dots on the screen.	**gamine**	-

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GCompris	GCompris is a collection of games for children. It combines a variety of games on various topics for different age groups. Thus contains for example GCompris Games on mathematics (small 1x1), colors, skill, working with computers etc. Recommended age 3 +.	**gcompris**	
Kanagram	Kanagram is a word game in which it is necessary to solve a mystery. A word is decoded by clever conversion of the given letters.	**kanagram**	
Kartoffelknülch 🏴	KTuberling is a program. Several background images (tuberling, Egypt, the moon, Christmas, etc.) are available to change the designs.	**ktuberling**	
KHangMan	KHangman is a Hangman game. Recommended age 6 +.	**khangman**	
Ri-li	Ri-li is a skill game where you have to move a wooden train set by asking the right course of different rail networks. The goal is to collect the cars distributed in the level.	**ri-li**	

Language

program	Description	package name	Screen shot
KWordQuiz	KWordQuiz is a vocabulary trainer, which works on the principle of file boxes. It offers a variety of import and export functions and is able to print, lists and index cards.	**kwordquiz**	
Parley	Parley is a vocabulary trainer and one of the successors of KVocTrain. The Vocabulary is extensive and offers a	**parley**	

	variety of settings, which concerns the creation of word lists and learning.		

See also Vokabeltrainer.

Keyboard trainer

program	Description	package name	Screen shot
KTouch 🇬🇧	KTouch is a simple typewriter coach. In many tutorials the typing on the PC keyboard is practiced - additional exercises can be downloaded from the Internet.	**ktouch**	
Tux Typing 🇬🇧	Tux Typing helps children to learn write and playful touch. Recommended age 5 +.	**tuxtype**	

See also Schreibtrainer.

Additional programs

program	Description	package name	Screen shot
calibre	Calibre is a cross platform program for managing and conversion of e-books.	**calibre**	-
Laby 🇬🇧	Laby is a program to learn the programming in OCaml, Python, Lua, Ruby, Prolog, C or Java. An ant has to be moved safely through a maze without stepping into spider webs or other traps.	**laby**	
Denemo	A gtk + frontend to GNU Lilypond.	**denemo**	-
Gnome Nanny 🇬🇧	Nanny is a Gnome application to monitor and control what children are allowed to do on the PC.	**nanny** (ab Ubuntu 10.10)	

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Edubuntu and wikidoo (subset of Wikipedia by SOS Children UK)

Kino	Kino is a simple video editor for GNU / Linux, which also offers the ability to directly program the videos from the camcorder to take (in English: "capture").	**kino**	
KTurtle	KTurtle is an implementation of the Logo programming language with a graphical interface for KDE. A turtle (turtle) can be controlled using simple commands over a landscape. It is possible to generate geometric patterns. The user gets a first glimpse of algorithms and concepts of imperative programming (loops, procedures).	**kturtle**	
Scribus	Scribus is a desktop publishing program. It is used to create professional layouts, and is similar to Adobe PageMaker, QuarkXPress or Adobe InDesign.	**scribus**	
Timekpr	Enables the implementation of time restrictions for the use of computers.	-	

These are only the standard programs, which are summarized in the Edubuntu package. About ubuntu you have access to many other programs that are usually can apply for free download over the Internet.
Ubuntu puts great emphasis on accessibility, more information is available at
http://wiki.ubuntuusers.de/Barrierefreiheit
http://wiki.ubuntuusers.de/Eldy (a desktop for older or disabled people)
More information can be found at:
http://wiki.ubuntuusers.de/Kinder

2. wikidoo – eine Teilmenge von Wikipedia nach SOS Children UK

Taken from http://schools-wikipedia.org/

In any Labdoo laptop the 2008/9 Wikipedia Selection for Schools (see explanation below) will be installed, called wikidoo. Wikidoo can be used when the schools has no or very slow internet connection. SOS Children UK has made the effort in 2008/9 to provide for the children interesting articles on a collection.

2008/9 Wikipedia Selection for schools

> **Welcome** to this **Wikipedia Selection**. This 2008/9 Wikipedia DVD Selection is a free, hand-checked, non-commercial selection from Wikipedia, targeted around the UK National Curriculum and useful for much of the English speaking world. It has about 5500 articles (as much as can be fitted on a DVD with good size images) and is about the size of a **twenty volume encyclopaedia** (34,000 images and 20 million words).

Wikipedia is the free encyclopaedia anyone can edit, and develops accurate content but suffers vandalism. Wikipedia is not necessarily a childsafe environment and has "adult" content. This selection of topics have been carefully chosen, tidied up, and checked for vandalism and suitability (by SOS Children volunteers, whom we gratefully acknowledge). We also gratefully acknowledge the Wikimedia Foundation for their support and their agreement to our use of the Wikipedia logo, and tens of thousands of contributors to Wikipedia who have written and researched the content in the first place, including this year adding content where gaps in the school curriculum were not covered.

The content is available for free download from the SOS Children website or as a 3.5GB free DVD. The content includes a shortened copy of the SOS Children website with details of projects in 125 countries. This selection is also browsable online at http://schools-wikipedia.org/ . The content is covered by various disclaimers and licences.
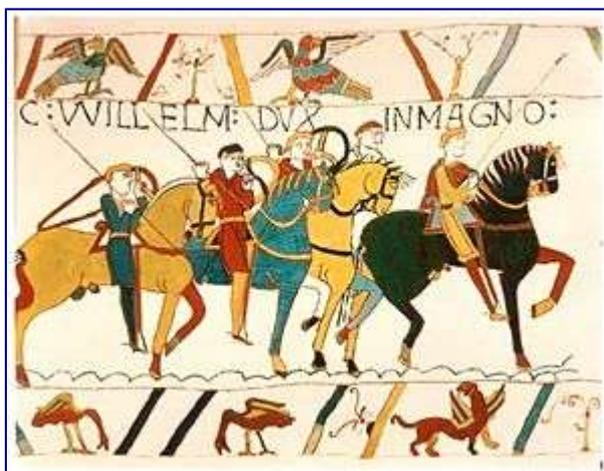
How the content was selected and checked

Topics were chosen for interest to children, by relevance to the National Curriculum and including much of the very best of Wikipedia. The selection

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is vast, and covers core subjects but does not try to be uniformly detailed: for example it has more depth on Llandudno, which is featured in the curriculum, than other similar places.

Articles were chosen from a list ranked by importance and quality generated by project members. This list of articles was then manually sorted for relevance to children, and adult topics were removed. Compared to the 2007 version some six hundred articles were removed and two thousand more relevant articles (of now adequate quality) were added. SOS Children volunteers then checked and tidied up the contents, first by selecting historical versions of articles free from vandalism and then by removing unsuitable sections. External links and references are also not included since it was infeasible to check all of these.

How to Navigate

The content can be navigated using a **pictorial subject index**, or a title word index of all topics.

This Selection includes thirty "Portal Pages", which give a brief overview of a topic and list some key articles within it. For example: Portal for Ancient Greece, Portal for Physics, Portal for Medieval Britain, the Food Portal or the Bangladesh Portal. You can use the indexes to find your way around but the best way is perhaps to pick an article and follow the links to other topics embedded in the text. For example, good starting places are Africa, The Solar System, Tsunami or Apple.

Please note that Wikipedia's policies are that content has to be verifiable and based on recognised reliable sources. We have not included references and sources in this selection, but you can check them at Wikipedia online if you have any questions.

This selection is a part of a larger collection at Wikipedia, which we commend especially for older children. We have tried to tidy up all links to material not included (such as images where we perceived a copyright problem) but occasional "dead-ends" may remain, particularly in "part of a series" content boxes. Please let us know of any other faults, at the present time apart from a deliberate "Easter Egg", all known faults have been fixed.

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If you find pieces of foreign text appear as "?????" or similar, however, this is likely to be because you don't have a font installed for that language: please check the same article on Wikipedia itself before you complain. Also early versions of Internet Explorer give big gaps on some pages: again, check with a recent browser version before letting us know.

Please send any comments via email to: wikipedia-cd@ soschildrensvillages.org.uk

SOS Children is the world's largest orphan charity. Child sponsors and donors worldwide provide a new family and home for more than 78,000 children in 518 unique Children's Villages in 125 countries.