

The OpenOffice.org Suite

Writer, Calc, Impress, etc.

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1 OpenOffice

2 Writer

3 Calc

4 Impress

5 Base

6 Draw

Agenda

1 OpenOffice

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The OpenOffice Suite

A powerfull office suite

Mission statement

- To create, as a community, the leading international office suite that will run on all major platforms and provide access to all functionality and data through open-component based APIs and an XML-based file format

Goal

- OpenOffice.org aims to compete with Microsoft Office and emulate its look and feel where suitable

The OpenOffice Suite

A powerfull office suite

OpenOffice

- open source software application suite
- runs under X Window Systems on most UNIX-compatible platforms
 - Microsoft Windows, Linux, Solaris, BSD, OpenVMS, OS/2 and IRIX
 - current primary development platforms are MS Windows, Linux and Solaris
- supports the ISO/IEC standard OpenDocument Format (ODF) for data interchange
- supports Microsoft Office formats among others
- as of November 2009, OpenOffice supports over 110 languages
- current version: OpenOffice.org 3.2 in January 2010 (alpha)
- OpenOffice.org 3.3: user interface overhauling (Impress first)

The OpenOffice Suite

Components I.

Writer

- a word processor similar to Microsoft Word and WordPerfect
- export Portable Document Format (PDF) files natively
- functions as a basic WYSIWYG editor for creating and editing web pages

Calc

- a spreadsheet similar to Microsoft Excel and Lotus 1-2-3
- provides a number of features not present in Excel
 - including a system which automatically defines series for graphing
- exports spreadsheets to the PDF format

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Components II.

Impress

- a presentation program similar to MS PowerPoint and Apple Keynote
- exports presentations to Adobe Flash (SWF) files (!)
- exports to PDF file, imports MS PowerPoint's .ppt format
- Impress lacks ready-made presentation designs
 - however, templates are readily available on Internet

Base

- a database (DB) management program similar to Microsoft Access
- may be used as front-end to a number of different DB systems, including Access databases (JET), ODBC data sources and MySQL/PostgreSQL
- allows the creation and manipulation of DBs, and the building of forms/reports to provide easy access to data for end-users
- Raw SQL code or graphical user interfaces can be used

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Components III.

Draw

- a vector graphics editor and diagramming tool
- similar to MS Visio and comparable in features to early versions of CorelDRAW
- has similar features to DTP SW such as Scribus, MS Publisher

Math

- a tool for creating and editing mathematical formulae
 - similar to Microsoft Equation Editor
- Formulae can be embedded inside other OpenOffice.org documents
- supports multiple fonts, exports to PDF

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Components IV.

Quickstarter

- small program for Windows and Linux that runs when the computer boots
- loads the core files and libraries for OpenOffice.org to allow to start more quickly the application

Basic

- programming language similar to MS Visual Basic for Applications (VBA)
- it is based on StarOffice Basic
- it is available in the Writer and Calc applications
- it is written in functions called subroutines or macros
 - each macro performing a different task, such as counting the words in a paragraph
 - especially useful in doing repetitive tasks that have not been integrated in the program

The OpenOffice Suite

Export - Imports

File Formats

- uses natively the OpenDocument file formats (ODF)
- reading legacy and current proprietary file formats:
 - WordPerfect through libwpd, StarOffice, Lotus Software, MS Works through libwps, Rich Text Formats
- read and writes Microsoft Office formats

MS compatibility

- MS Office 2007 SP2 is the first MS Office version that allows opening and saving OpenDocument text files (*.odt)
- Sun Microsystems also developed an ODF plugin for MS Office
 - it enables users of MS Office 2000, 2003, XP and 2007/SP1 (Word, Excel and PowerPoint) to read and write ODF documents
 - http://www.sun.com/software/star/odf_plugin/

The OpenOffice Suite

Plugins

Extension

- Since version 2.0.4, OpenOffice.org has supported extensions in a similar manner to Mozilla Firefox
- it make easy to add new functionality to an existing OpenOffice.org installation
- As of September 2009 the OpenOffice.org Extension Repository lists more than 390 extensions.

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OpenOffice Writer

Word processor

OO Writer - similar to Microsoft Word and WordPerfect

- a modern, fully equipped word processor or desktop publisher
- it is simple enough for a quick memo, powerful enough to create complete books with contents, diagrams, indexes, etc

Export - Import

- Open Document Format 1.1 (its default format) (.odt)
 - You can access your documents from any OpenDocument compliant software
- Microsoft Word's DOC, DOCX, RTF and XHTML
- exports to PDF files natively, including bookmarks
- From version 3.0 OO-Writer can also open .docx files created with MS Office 2007 or MS Office 2008 for Mac OS X

OpenOffice Writer

Word processor - Features I

Features

- Templates: it is free to create the own templates, or download templates from our Extensions repository
 - <http://templates.services.openoffice.org/>
- Styles sheets
- Page-layout methods, including frames, columns, and tables
 - as desktop publishing tasks for newsletters, flyers, etc
- Embedding or linking of graphics, spreadsheets, and other objects
- Built-in drawing tools
- Master documents - to group a collection of documents into a single document
- Database integration, including a bibliography database

OpenOffice Writer

Word processor - Features II

Features

- Equation editor (OpenOffice.org Math)
- Indexing
 - Increase the usefulness of your long, complex documents by generating a table of contents or indexing terms, bibliographical references, illustrations, tables, and other objects
- AutoCorrect, AutoComplete
 - other as the default language dictionary possible

Openoffice Writer

Main panel

The screenshot displays the OpenOffice.org Writer application window titled "writer.odt - OpenOffice.org Writer". The interface includes a menu bar (File, Edit, View, Insert, Format, Table, Tools, Window, Help), a toolbar with various icons, and a formatting toolbar showing "Heading 3", "Arial", "14", and bold/italic/underline options.

The main editing area shows a presentation document with a table of contents and a slide titled "Community". The table of contents includes:

- 17:45-18:30 Panel Discussion: ODF Interoperability Perspectives
- 18:45-19:30 Community Development Marketing: Fund Raising: 3 Pillars of the future of OOO
- The Presenter Console
- Due to Popular Demand - DVD Import
- ESC advancements since Barcelona

The slide titled "Community" has the following content:

Community

What's New in OpenOffice.org 3.0?

Track: Community *Type:* Presentation *Audience:* Community, all.

Abstract: From Mac OS X Support to tables in Impress, OpenOffice.org 3.0 offers a wide range of improvements. This demo will showcase the highlights of the new and improved features of OpenOffice.org 3.0.

Presenter: Christian Jansen, Bettina Haberer (User Experience Engineer, Sun Microsystems, Inc.) **Biography:** Christian Jansen is an User Experience Engineer at Sun Microsystems. During the last 9 years, he played a major role in designing the user interfaces of

The status bar at the bottom shows "Page 4 6 / 4 Default", "English (UK)", "INSRT", "STD", and "Level 3".

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OpenOffice Calc - Spreadsheet

similar to MS Excel, roughly equivalent range of features

Export - Import

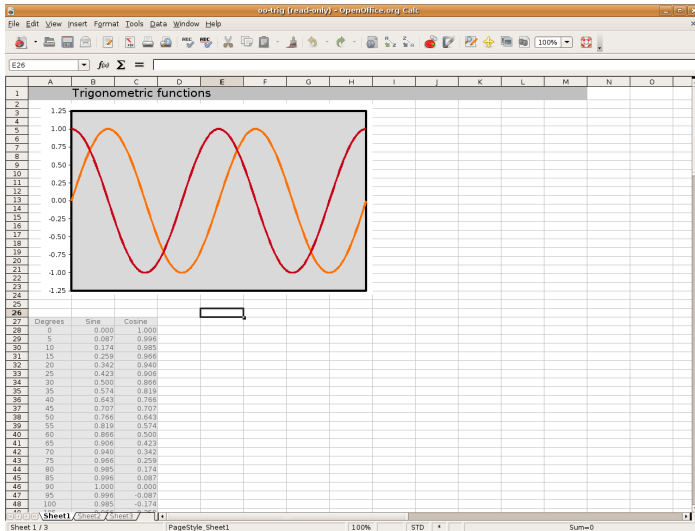
- its default format is Open Document Format 1.1 (.ods)
 - You can access your documents from any OpenDocument compliant software
- read/write for: CSV, HTML, SXC, DBF, DIF, UOF, SLK, SDC and others file formats
- exports spreadsheets directly to PDF files
- saves files in the .dbf (the old dBASE database file) format
 - .dbf is a legacy format, some programs (e.g. ESRI's ArcGIS) use the .dbf for handling all spreadsheet data

Special features

- support for a large number of functions, including those for imaginary numbers, financial, statistical functions, etc.

Openoffice Calc

Main panel



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OpenOffice Impress

Presentations

OO Impress features

- outstanding tool for creating effective multimedia presentations
- stands out with 2D and 3D clip art, special effects, animation, and high-impact drawing tools
- additional templates by the OO Extensions repository
- A complete range of Views are supported:
 - Drawing / Outline / Slides / Notes / Handouts
- supports multiple monitors:
 - presenters can look at something else while presenting their slides
- Presenter Console Extension:
 - lets you see next slides, the time, the speaker notes
- Slide show Animation and Effects:
 - Fontworks provides stunning 2D and 3D images from text
 - Create lifelike 3D images with fast speed and response

OpenOffice Impress

File types

Export - Import

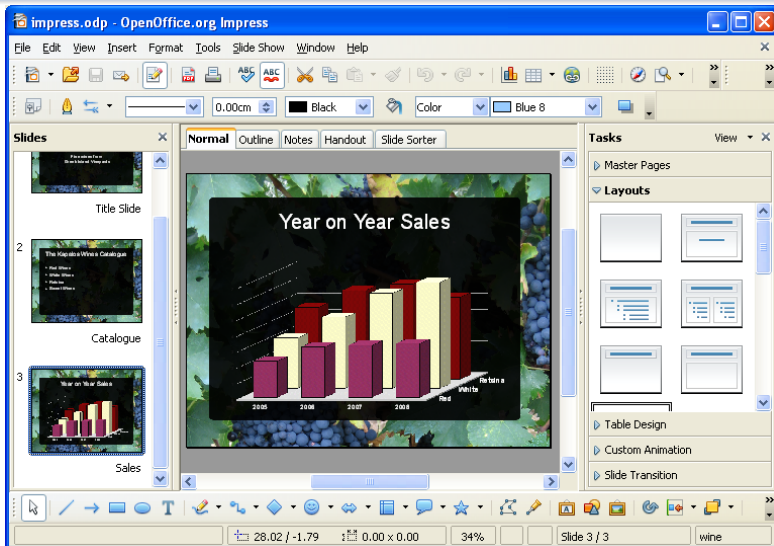
- its default format is Open Document Format 1.1 (.odp)
 - access possible from any OpenDocument compliant software
- exports to PDF and Flash (.swf) files natively
- read/write MS .ppt formats

Lack

- Impress lacks ready-made presentation designs
 - however, templates are readily available on Internet

Openoffice Impress

Main panel



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OpenOffice Base

Database

OO Database features

- BASE is a fully featured desktop database management system designed to meet the needs of a broad array of users
 - just tracking your personal CD collection
 - producing a corporate monthly departmental sales report
- offers wizards to create Tables, Queries, Forms and Reports
- has a set of predefined table definitions, e.g. for:
 - tracking Assets, Customers, Sales Orders, Invoices,etc
- for a personal use database it offers
 - the full HSQL relational database engine configured for single user
 - the data stored right in the BASE file
- for power users it delivers native support drivers for:
 - MySQL, Adabas D, MS Access and PostgreSQL
 - JDBC and ODBC standard drivers allows you to connect to virtually any existing database
 - can act as a GUI frontend for SQL views, table design, query

OpenOffice Base

File types

Features

- from version 2.3, offers report generation based on Pentaho software

Compatibility

- integrates into the other OpenOffice suite applications supplying address book data
 - for mail merge in WRITER by the LDAP protocol,
 - common address book formats: MS Outlook, MS Windows and Mozilla

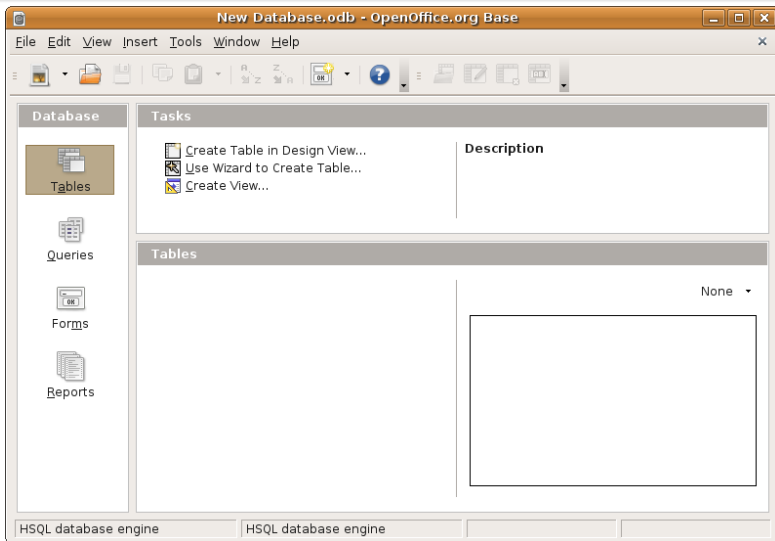
Database types

- it is based on the HSQLDB database engine written in Java
- can connect to external full-featured SQL databases:
 - MySQL, PostgreSQL
 - even Oracle through ODBC or JDBC drivers

Abbreviations:

Openoffice Base

Create DB panel



Openoffice Base

Query design

base.odt - OpenOffice.org Base

File Edit View Insert Tools Window Help

Database

Tables

Queries

Forms

Reports

base.odt : Query1 - OpenOffice.org Base: Query Design

File Edit View Insert Tools Window Help

Raw_Data

STATUS
TITLE
DESCRIPTION
AUDIENCE
TRACK
SESSION_TYPE
PRESENTER_NAME
BIOGRAPHY

Field	STATUS	TITLE	DESCRIPTION	PRESENTER_NAME
Alias				
Table	Raw_Data	Raw_Data	Raw_Data	Raw_Data
Sort		ascending		
Visible	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Function				
Criterion	'Rejected'			

Document

NAME	STATUS
2.151	Withdrawn
3.97	
60.11	Rejected
107.1	
144.2	Rejected
161.4	
27.19	
74.13	Rejected
59.49	
	Rejected

Spreadsheet

\\VBOXSVR\john\My Office\OpenOffice.org\OOoCon2008\CFP\CFP2008.ods

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OpenOffice Draw

Draw - a vector graphics editor

OO Draw features

- Draw is similar to Microsoft Publisher
- includes many features found in desktop publishing software
- you can use the Open Clip Art Library
 - gallery of flags, logos, icons and banners for general presentation and drawing projects
- powerful tool for technical or general posters, etc (max size 300cm x 300cm)
- manipulate objects:
 - rotate in two or three dimensions
 - the 3D controller puts spheres, rings, cubes, etc
- arrange objects:
 - group, ungroup, regroup, and edit objects while grouped
- sophisticated rendering let you create photorealistic images
 - texture, lighting effects, transparency, perspective available

OpenOffice Draw

File types

Features

- smart connectors make short work of flowcharts, organisation charts, network diagrams
- picture Gallery is available for clipart

File types

- its default format is Open Document Format 1.1 (.odg)
 - access possible from any OpenDocument compliant software
- exports to PDF and Flash (.swf) files natively

Export - Import

- import graphics from all common formats (including BMP, GIF, JPEG, PNG, TIFF, and WMF)
- currently supports exporting to SVG format officially, though with some limitations
- import of SVG format is not implemented

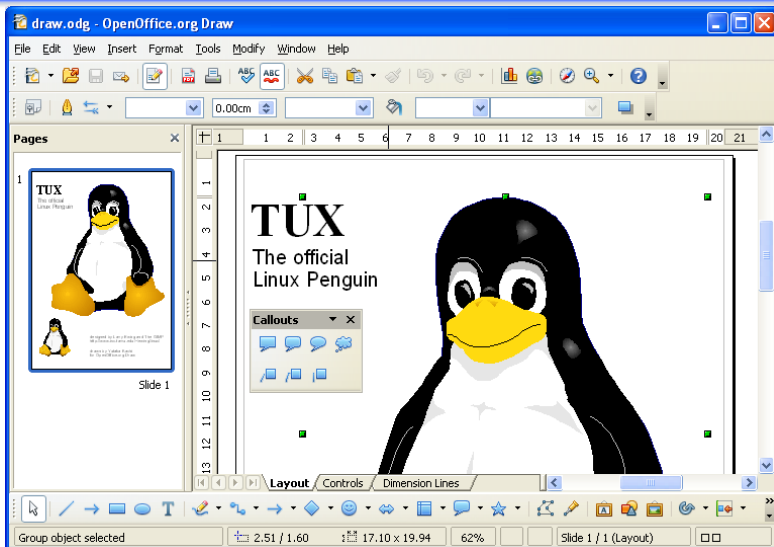
OpenOffice Draw

Openclipart packages

```
uhu:~> sudo apt-get install openclipart
Reading package lists... Done
Building dependency tree... Done
The following extra packages will be installed:
  openclipart-openoffice.org openclipart-png openclipart-svg
Suggested packages:
  gimp-svg sodipodi sketch
Recommended packages:
  librsvg2-bin
The following NEW packages will be installed:
  openclipart openclipart-openoffice.org openclipart-png
openclipart-svg
0 upgraded, 4 newly installed, 0 to remove and 1 not upgraded.
Need to get 193MB of archives.
After unpacking 370MB of additional disk space will be used.
Do you want to continue [Y/n]? n
```

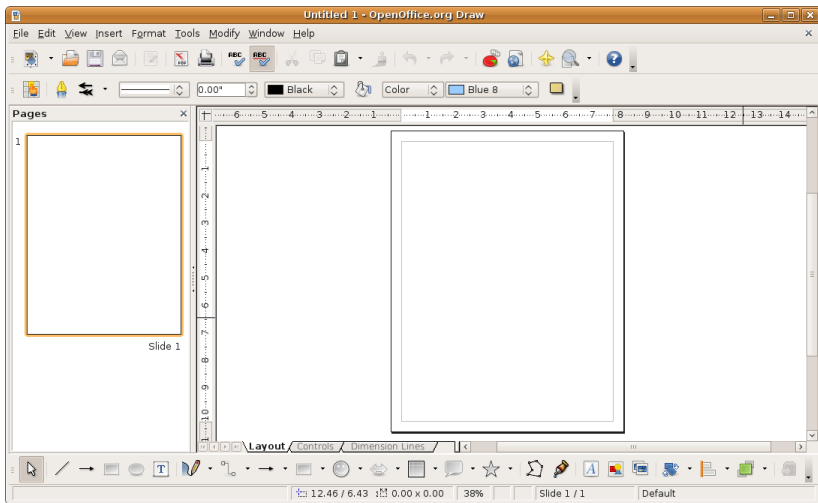
Openoffice Draw

Linux Tux



Openoffice Draw

Main panel



Openoffice Draw

Complex drawing

cos3theta.odg - OpenOffice.org Draw

File Edit View Insert Format Tools Modify Window Help

0.00mm Black Color Blue 8

Pages

1. Find the area enclosed by a trifolium, $r = \cos 3\theta$

Slide 1

2. To determine the area of the three petals, we calculate the area of a half-petal and multiply the result by 6.

Slide 2

3. We choose the shaded area in the figure. As θ increases from 0, the first zero value of r occurs for $\theta = \pi/6$ rad, where

Slide 3

$r = \cos \frac{3\pi}{6} = \cos \frac{\pi}{2} = 0.$

Let A be the area of the half-petal between the two angles $\theta = 0$ and $\theta = \pi/6$,

$$A = \frac{1}{2} \int_0^{\pi/6} (\cos 3\theta)^2 d\theta = \frac{1}{2} \int_0^{\pi/6} \cos^2 3\theta d\theta.$$

With the identity $\cos^2 \theta = \frac{1 + \cos 2\theta}{2}$, we obtain

$$A = \frac{1}{4} \int_0^{\pi/6} (1 + \cos 6\theta) d\theta = \frac{1}{4} \left[\theta + \frac{\sin 6\theta}{6} \right]_0^{\pi/6} = \frac{\pi}{24}.$$

Thus, the total area of the trifolium is $6 \left(\frac{\pi}{24} \right) = \frac{\pi}{4}.$

$r = \cos 3\theta$

$\theta = \pi/6$

$\theta = 0$

1

-1

1

-1

Layout / Controls / Dimension Lines

125.25 / -3.23 1:1 0.00 x 0.00 125% Slide 1 / 3 Default

Further information

Links

- For further information and details about the topic please check the listed links after the description of the topic.

End of OpenOffice.org Suite short overview

Thanks for your attention !