

GAMING ON LINUX



POuL

have a lot of fun...

POuL – Corsi Base Linux 2013

21 OTTOBRE 2013

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Introduzione

- Breve introduzione argomenti trattati
- Miti da sfatare
- Riepilogo situazione attuale driver grafici
- Domande preliminari

Introduzione

- Portatili con doppia grafica
- ATI Vs NVIDIA
- Prima generazione e seconda generazione
- GPU integrata e GPU discreta

Bumblebee

- Che cos'è?
- A cosa serve?
- Quali piattaforme hardware supporta
- Installazione su Ubuntu tramite ppa

Il terminale è tuo amico !

- Breve spiegazione dei comandi usati
- sudo
- apt-get
- add-apt-repository

Bumblebee

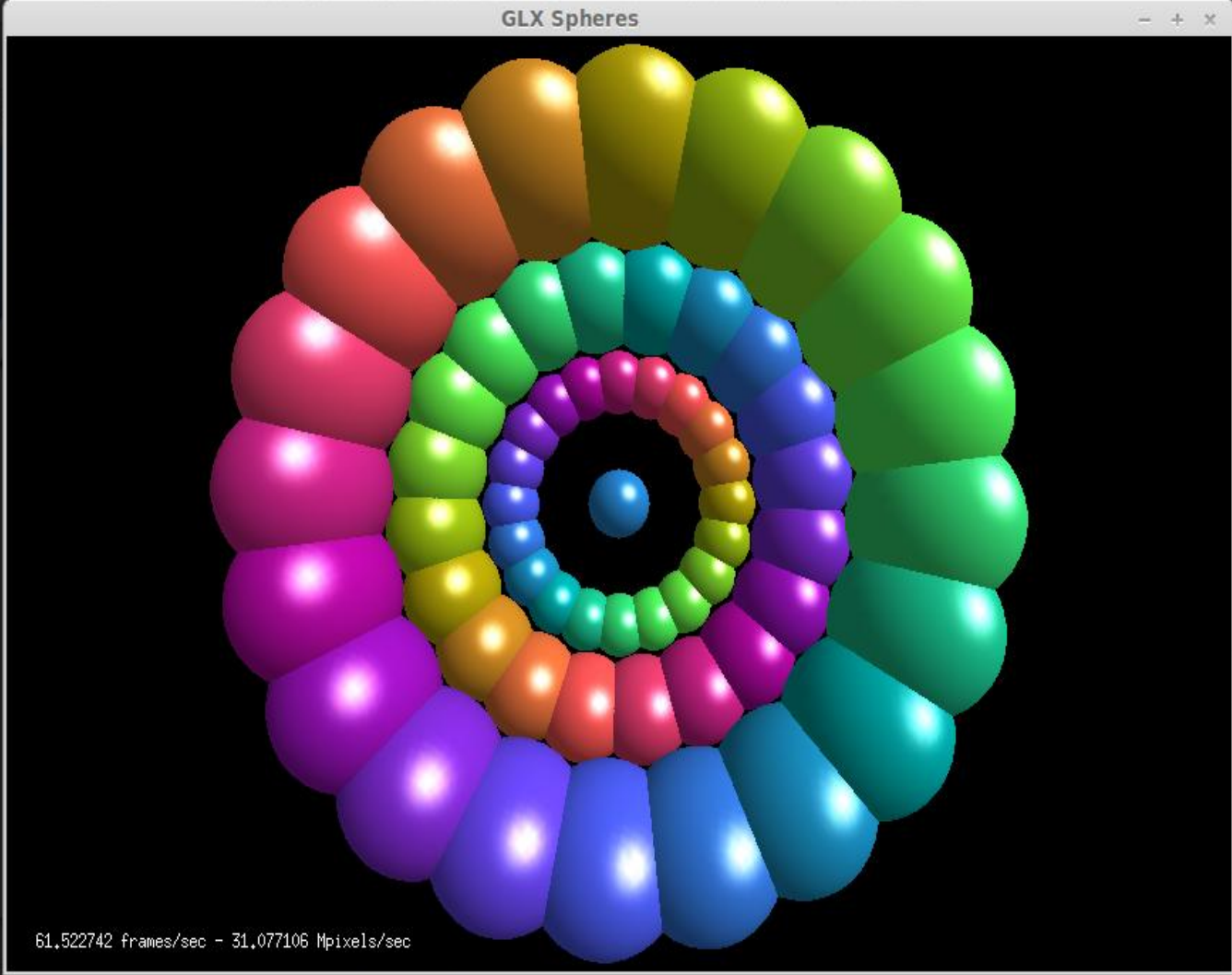
- <https://wiki.ubuntu.com/Bumblebee>
- Configurazioni specifiche (only power saving)
- Componenti installate
- Primusrun/optirun

Bumblebee

Terminal

```
andrea@andrea-i7 ~ $ glxspheres
Polygons in scene: 62464
Visual ID of window: 0x20
Context is Direct
OpenGL Renderer: Mesa DRI Intel(R) Sandybridge Mobile
61.339905 frames/sec - 54.460021 Mpixels/sec
64.947600 frames/sec - 42.005509 Mpixels/sec
63.039711 frames/sec - 31.646220 Mpixels/sec
61.522742 frames/sec - 31.077106 Mpixels/sec
```

GLX Spheres



61.522742 frames/sec - 31.077106 Mpixels/sec

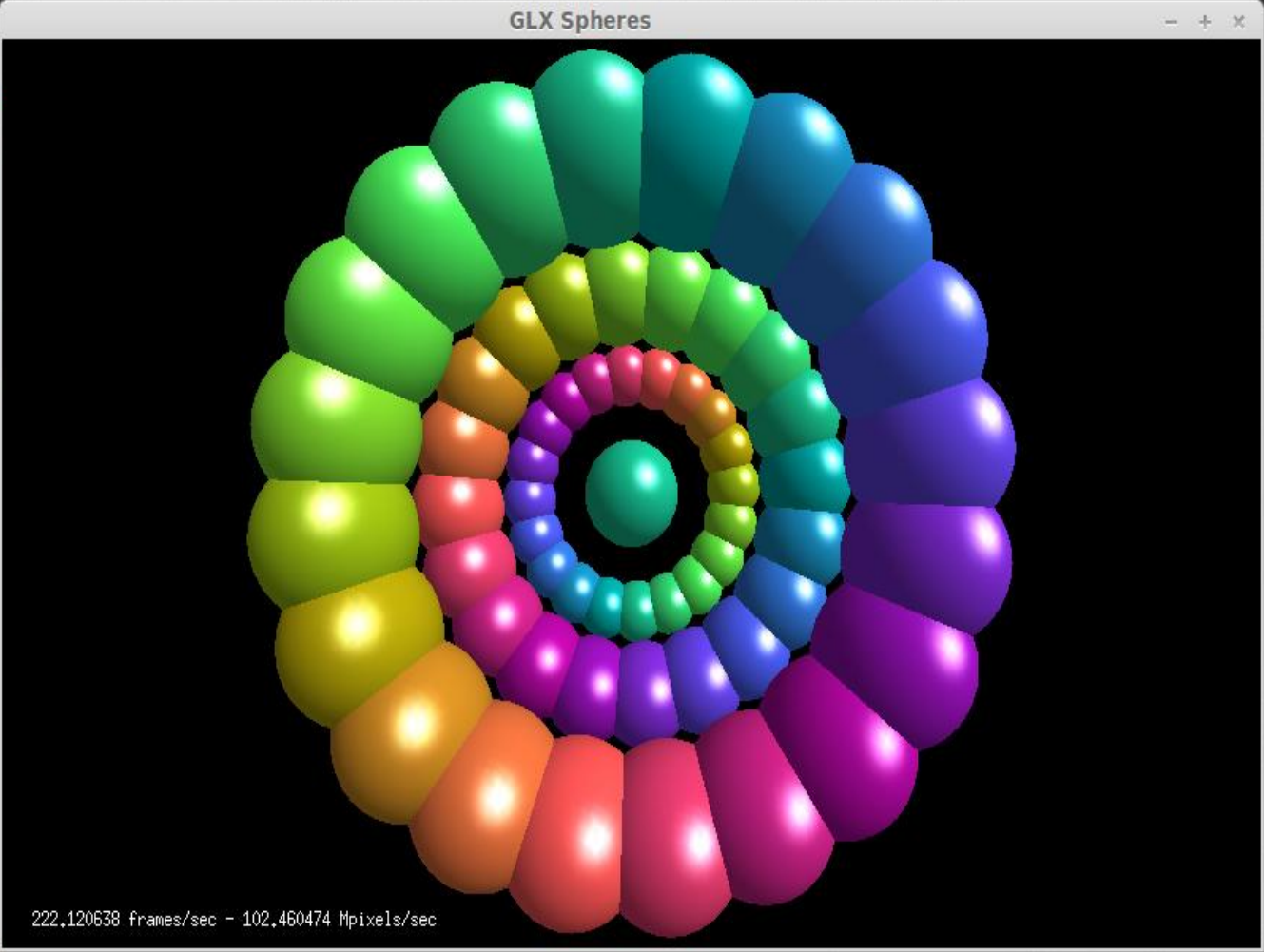
12.32 / -1.91 0.00 x 0.00 Slide 6 / 26 Blue%20curve 619

Bumblebee

Terminal

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andrea@andrea-i7 ~ $ glxspheres
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63.039711 frames/sec - 31.646220 Mpixels/sec
61.522742 frames/sec - 31.077106 Mpixels/sec
andrea@andrea-i7 ~ $ optirun glxspheres
Polygons in scene: 62464
Visual ID of window: 0x20
Context is Direct
OpenGL Renderer: GeForce GT 540M/PCIe/SSE2
129.686089 frames/sec - 115.140497 Mpixels/sec
119.396244 frames/sec - 105.918120 Mpixels/sec
174.728990 frames/sec - 83.021119 Mpixels/sec
222.120638 frames/sec - 102.460474 Mpixels/sec
```

GLX Spheres



222.120638 frames/sec - 102.460474 Mpixels/sec

Slide 7 / 27 Blue%20curve

Steam

- Cos'è ?
- Vantaggi / Svantaggi
- Cosa serve(Account)
- Rete Politecnico blocca l'accesso

Steam

- Installazione
http://store.steampowered.com/about/?snr=1_4_4__11
- Configurazione per utilizzo scheda discreta
- Standard :
https://support.steampowered.com/kb_article.php?ref=6316-GJJC-7437
- Alternativa :
<http://askubuntu.com/questions/256431/play-steam-games-with-nvidia-optimus-laptop>
- Lanciare Steam stesso tramite Optirun

Steam

Menu Terminal winetricks - Th... Steam lyx [template1.od... Software Mana... ven ott 18, 15:50

Steam View Friends Games Help andrealinux1's Account

← → STORE LIBRARY COMMUNITY ANDREALINUX1

Search LINUX GAMES

Dota 2
Dota 2 Test
Team Fortress 2

HOME
DISCUSSIONS
WORKSHOP
GREENLIGHT
MARKET

Team Fortress 2

PLAY YOU'VE PLAYED 5 hours
LAST PLAYED 16/10/2013

FRIENDS
You have 3 Friends who play Team Fortress 2

VIEW ALL FRIENDS WHO PLAY THIS GAME

STEAM WORKSHOP
Create, discover, and play content created by the Steam Community.

Robot
Ivan The Inedible

BROWSE THE WORKSHOP

ACHIEVEMENTS

+ ADD A GAME... 1 ITEM COMPLETE VIEW FRIENDS LIST 0 Online

LINKS
Community Hub
Achievements
Forums
Related Groups
Manual
News
Store Page
Community Guides
Support
Recommend...

CATEGORY
Set Category...

Steam

The screenshot shows the Steam interface for the Linux Games section. The main focus is on the game **Team Fortress 2**. A context menu is open over the game, listing various actions such as "Play Game...", "View player manual", "View News", "View Community Hub", "View Forum", "View Community Guides", "Recommend to Friends...", "Add to Favorites", "Set Category...", "Create Desktop Shortcut", "Backup Game Files...", "Delete Local Content...", and "Properties".

The game's page includes a "PLAY" button, a play history showing "YOU'VE PLAYED 5 hours" and "LAST PLAYED 16/10/2013", and a "FRIENDS" section indicating "3 Friends who play Team Fortress 2". Below this is a "STEAM WORKSHOP" section with two featured items: "Robot" and "Ivan The Incredible", both with 5-star ratings. A "BROWSE THE WORKSHOP" button is also present.

The right sidebar contains "LINKS" such as "Community Hub", "Achievements", "Forums", "Related Groups", "Manual", "News", "Store Page", "Community Guides", "Support", and "Recommend...". There is also a "CATEGORY" section with a "Set Category..." option.

The top navigation bar includes "STORE", "LIBRARY", "COMMUNITY", and "ANDREALINUX1". The top status bar shows system information like "ven ott 18, 16:09" and "97%" battery.

At the bottom of the interface, there are buttons for "+ ADD A GAME...", "1 ITEM COMPLETE", "VIEW FRIENDS LIST", and "0 Online".

Steam

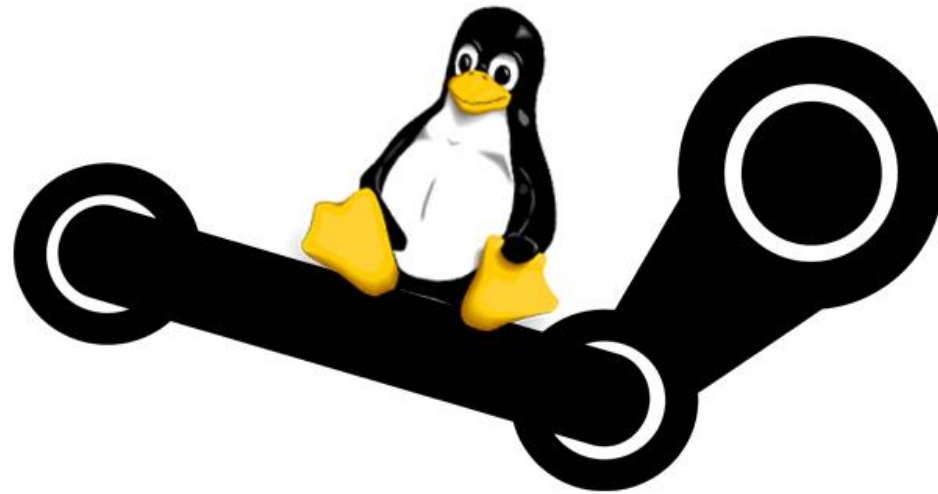
The screenshot shows the Steam Linux Games interface for Team Fortress 2. The main window displays the game's page with a search bar, navigation tabs (STORE, LIBRARY, COMMUNITY, ANDREALINUX1), and a sidebar with sections for Friends, Workshop, and Achievements. Two dialog boxes are open over the game page:

- Team Fortress 2 - Properties** (General tab):
 - Homepage: <http://www.teamfortress.com/>
 - Developer: [Valve](#)
 - Manual: [Team Fortress 2 manual](#)
 - Enable Steam Community In-Game
 - Buttons: SET LAUNCH OPTIONS..., CREATE DESKTOP SHORTCUT
 - Buttons: CLOSE
- Launch Options - Team Fortress 2**:
 - Text: These options are for advanced users only.
 - Input field: `primusrun %command%`
 - Buttons: OK, CANCEL

The background interface includes a search bar, navigation tabs (STORE, LIBRARY, COMMUNITY, ANDREALINUX1), a sidebar with sections for Friends, Workshop, and Achievements, and a bottom bar with buttons for '+ ADD A GAME...', '1 ITEM COMPLETE', and 'VIEW FRIENDS LIST 0 Online'.

Steam

- Di seguito alcuni dei giochi più famosi già disponibili su Steam per Linux



Team Fortress 2



Dota 2



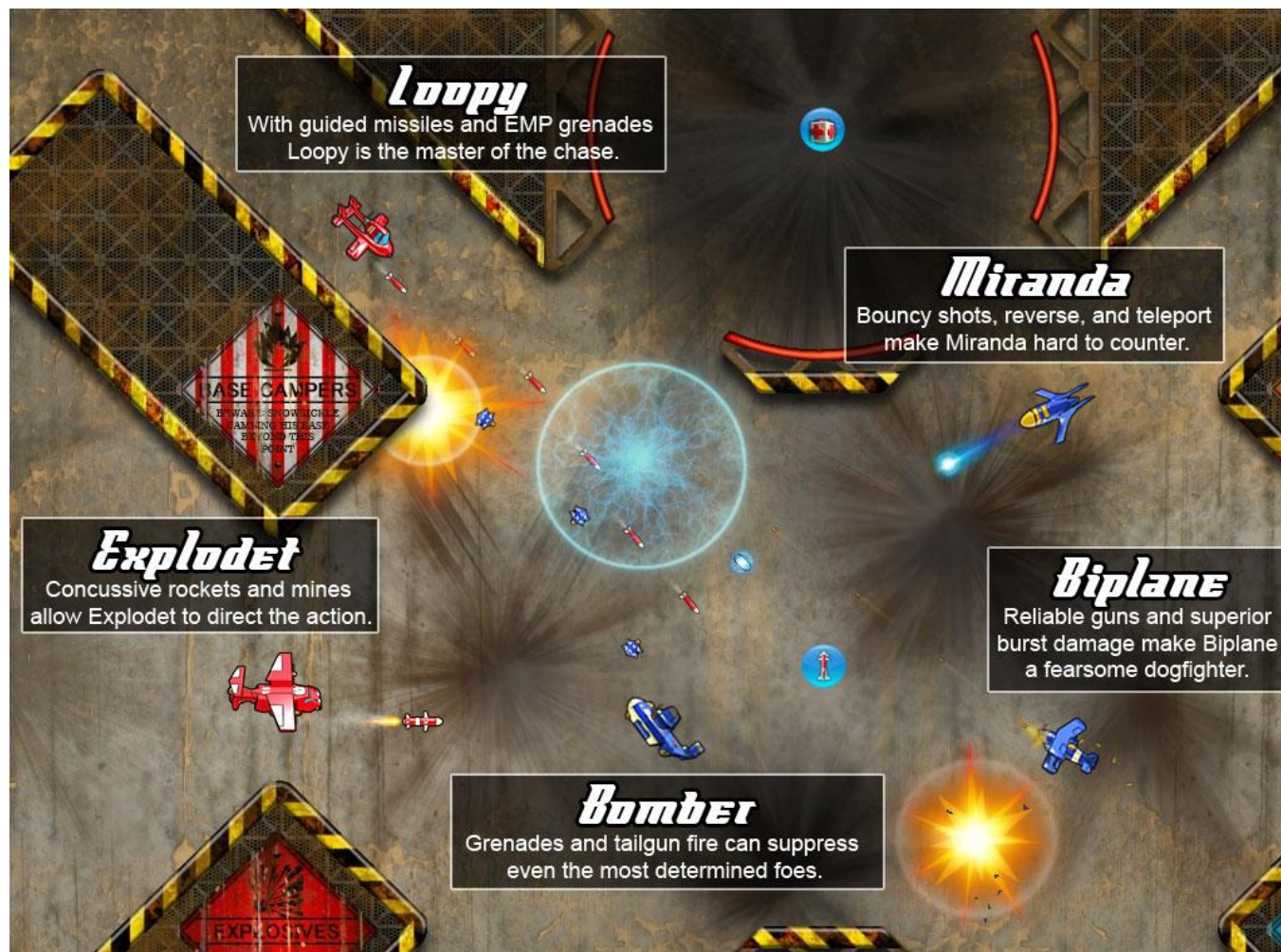
Super Hexagon



Counter Strike



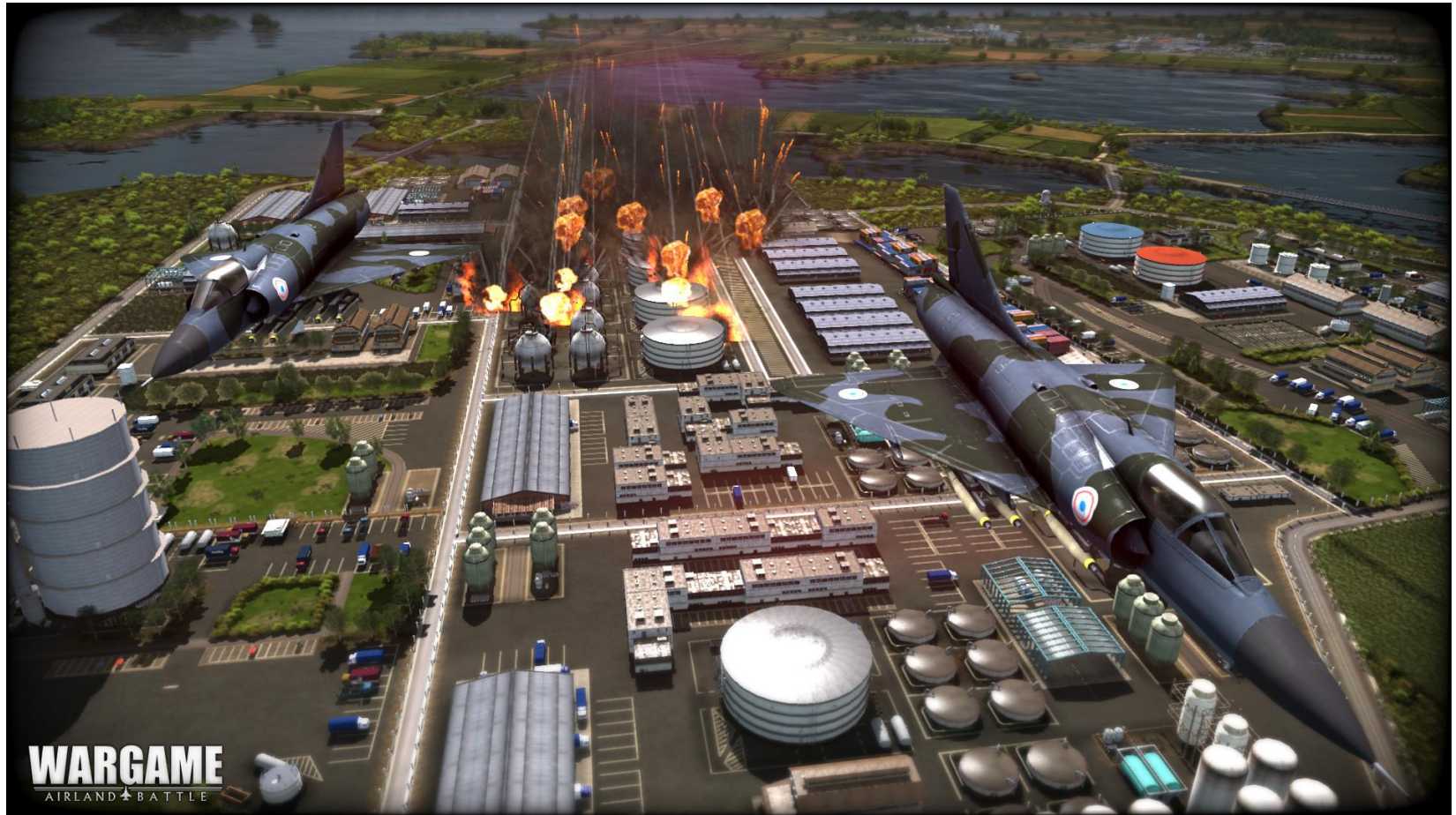
Altitude



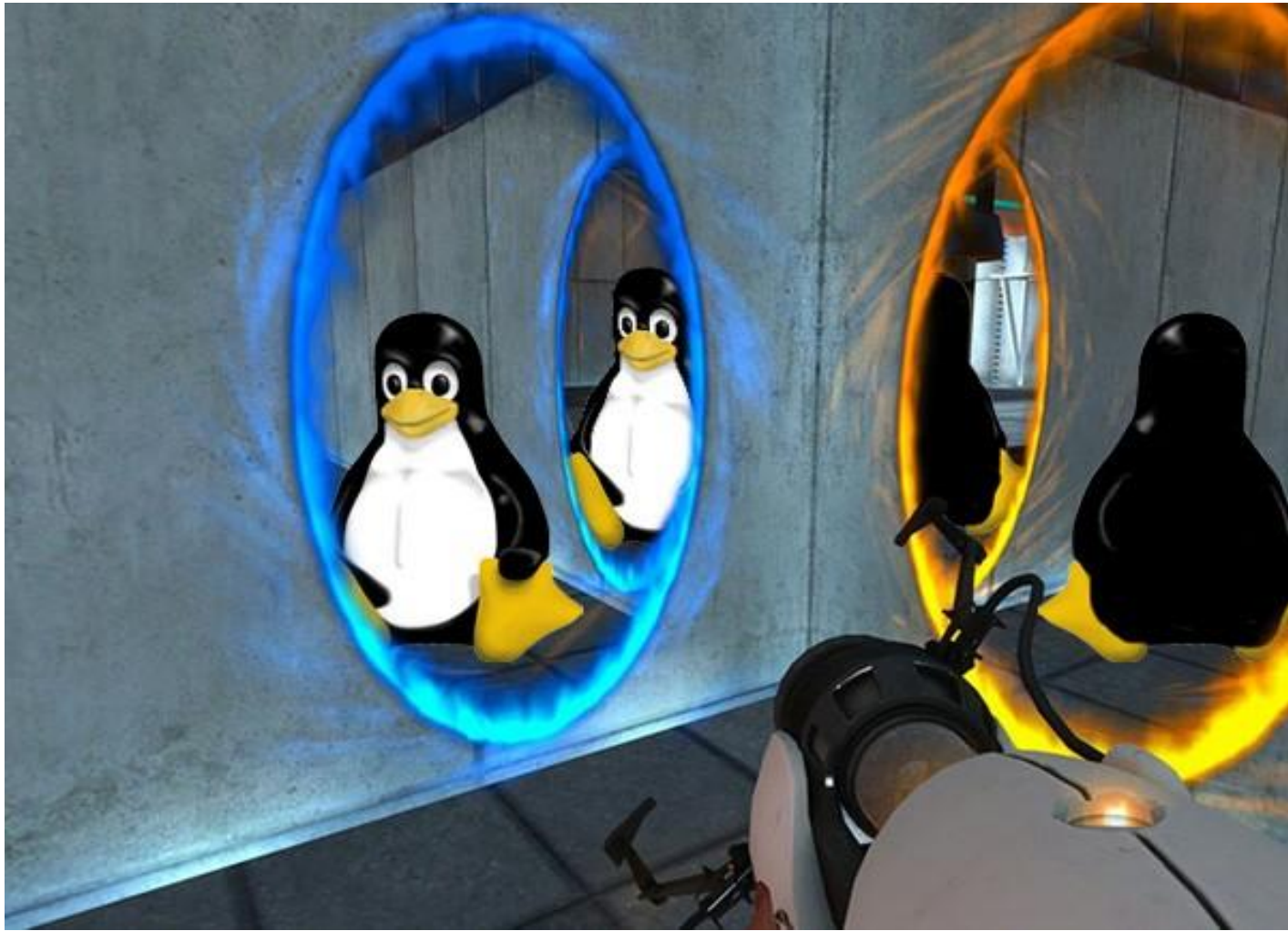
Half-Life 2



Wargame – AirLand Battle



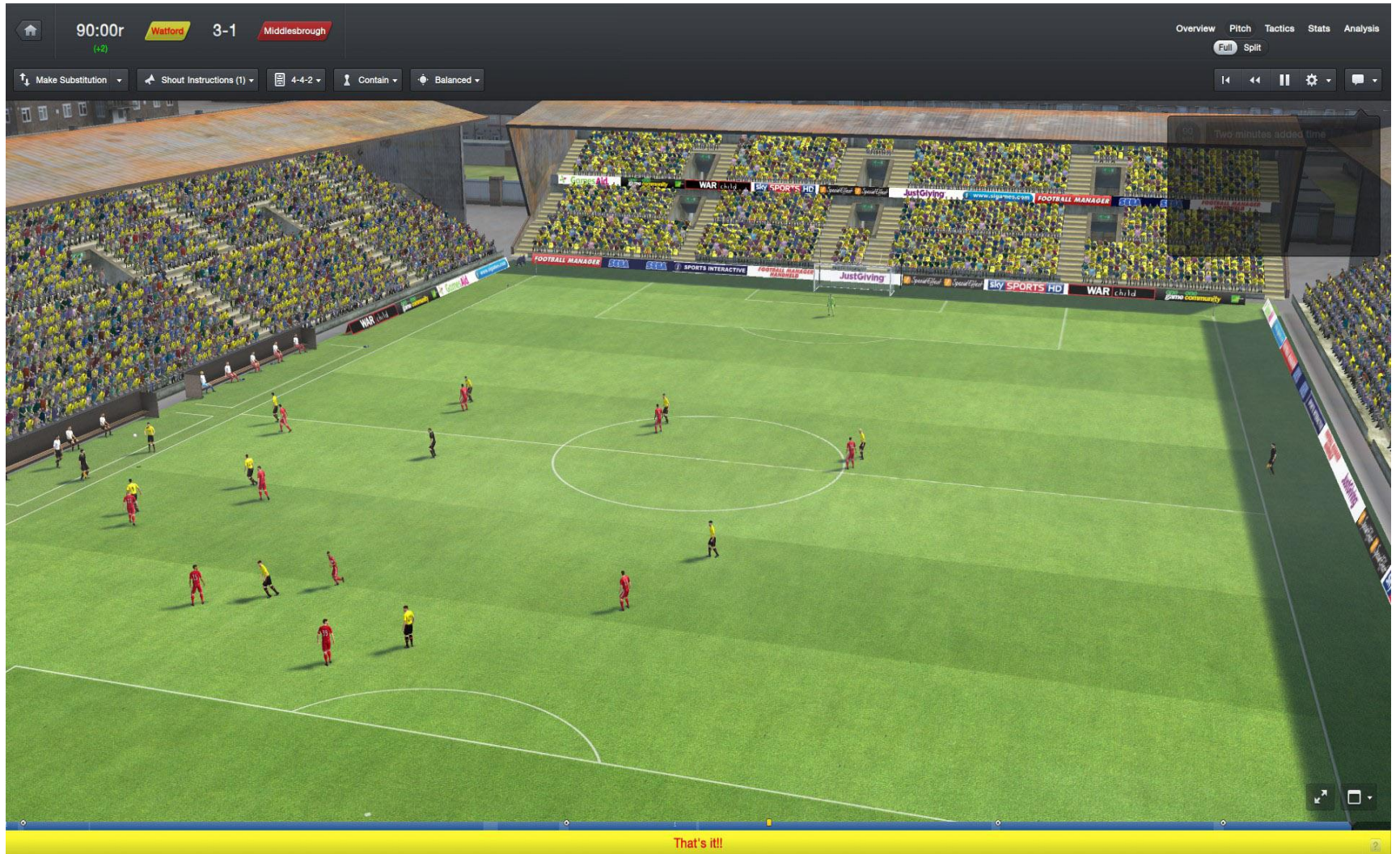
Portal



Left 4 Dead 2



Football Manager 2014



WineTricks

- A cosa serve ?
- Wine AppDB [1](#)
- Installazione dall' Ubuntu Software Center
- Qualche esempio di utilizzo
- Comando per aprirlo : «winetricks --gui»

WineTricks

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WineTricks

The screenshot shows a Linux terminal window with the following text:

```
andrea@andrea-i7 ~ $ glxspheres
Polygons in scene: 62464
Visual ID of window: 0x20
Context is Direct
OpenGL Renderer: Mesa DRI3 Intel(R) Core(TM) i7-3540M CPU @ 2.80GHz
61.339905 frames/sec
64.947600 frames/sec
63.039711 frames/sec
61.522742 frames/sec
andrea@andrea-i7 ~ $ 0
Polygons in scene: 624
Visual ID of window: 0
Context is Direct
OpenGL Renderer: GeForce 330M
129.686089 frames/sec
119.396244 frames/sec
174.728990 frames/sec
222.120638 frames/sec
233.752499 frames/sec
andrea@andrea-i7 ~ $ w
Nothing to do. See --help
andrea@andrea-i7 ~ $ w
Executing w_do_call to
Executing load_torchli
Executing w_warn_cance
Please insert volume
Executing w_warn_cance
Please insert volume
Executing w_warn_cance
Please insert volume
andrea@andrea-i7 ~ $ winetricks --gui
```

The dialog box titled "Winetricks - current prefix is "/home/andrea/.wine"" displays a list of packages to install:

Package	Title	Publisher	Year	Media	Status	Size
<input type="checkbox"/> rayman2_demo	Rayman 2 High Demo	Ubisoft	1999	download		239
<input type="checkbox"/> riseofnations_demo	Rise of Nations Trial	Microsoft	2003	manual_download		
<input type="checkbox"/> ruse_demo_steam	Ruse Demo (Steam)	Ubisoft	2010	download		
<input type="checkbox"/> sacrifice_gog	Sacrifice (GOG.com)	Interplay	2000	manual_download		
<input type="checkbox"/> sammax301_demo	Sam & Max 301: The Penal Zone	Telltale Games	2010	manual_download		140
<input type="checkbox"/> sammax304_demo	Sam & Max 304: Beyond the Alley of the Dolls	Telltale Games	2010	manual_download		164
<input type="checkbox"/> secondlife	Second Life Viewer	Linden Labs	2003-2011	download		260
<input type="checkbox"/> singularity	Singularity	Activision	2010	dvd		
<input type="checkbox"/> splitsecond	Split Second	Disney	2010	dvd		
<input type="checkbox"/> splitsecond_demo	Split Second Demo	Disney	2010	manual_download		
<input type="checkbox"/> spore	Spore	EA	2008	dvd		
<input type="checkbox"/> spore_cc_demo	Spore Creature Creator trial	EA	2008	download		
<input type="checkbox"/> starcraft2_demo	Starcraft II Demo	Blizzard	2010	manual_download		524
<input type="checkbox"/> supermeatboy_steam	Super Meat Boy (Steam, nonfree)	Independent	2010	download		
<input type="checkbox"/> the_witcher_2_gog	The Witcher 2: Assassins of Kings	Atari	2011	manual_download		
<input type="checkbox"/> theundergarden_demo	The UnderGarden Demo	Atari	2010	manual_download		
<input type="checkbox"/> tmnationsforever	TrackMania Nations Forever	Nadeo	2009	download		180

Buttons: Cancel, OK

PlayOnLinux

- Purpose dell'applicazione
- Installazione dall' Ubuntu Software Center
- Qualche esempio di utilizzo

PlayOnLinux

The screenshot displays a Linux desktop environment with a taskbar at the top containing icons for Menu, Terminal, Downloads, Steam, template1.o..., lyx, PlayOnLinux, and C:\Program... The system tray on the right shows the date and time as 'ven ott 18, 16:00' and a battery level of 97%.

The main window is Notepad++, titled 'C:\Program Files (x86)\Notepad++\change.log - Notepad++'. The text content is as follows:

```
1 Notepad++ v6.5 new features and bug fixes:
2
3 1. Update Scintilla to version 3.3.4
4 2. Add language CoffeeScript support.
5 3. Add multi-paste support for multi-selection/column mode.
6 4. Add new feature: auto-close parentheses, quotes, bracket and matched xml/html tag.
7 5. Add php, perl, xml, batch, ini and nsis for the build-in function list.
8 6. Add User Defined Languages support for the build-in function list.
9 7. Add reload feature for the build-in function list.
10 8. Fix a minor problem of file extension support for the build-in function list.
11 9. Fix a tag matching bug by disabling tag matching inside PHP code blocks.
12 10. Fix right-to-left text after closing document map bug.
13 11. Fix cancelling shutdown make Notepad++ quit w/o saving files bug.
14 12. Enhance "Begin/End select" feature: Check "Begin/End select" menu item when active.
15 13. Enhance Mark all feature: 2 options "Match case" and "Match whole word only" in Find/Replace dialog .
16 14. Fix a Replace dialog status bar display problem by clearing status bar before processing any action.
17 15. Add new feature: if Notepad++ is running as administrator, display this info on the title bar.
18 16. Rename "block comment" to "Single line comment" and "stream comment" to "block comment".
19 17. Remove invalid command "Online Documentation".
20
21
22 Included plugins:
23
24 1. DSpellCheck v1.2.7.0
25 2. NppFTP 0.24.1
26 3. NppExport v0.2.8
27 4. Plugin Manager 1.0.8
28 5. Converter 3.0
29
30
```

The status bar at the bottom of Notepad++ shows 'Normal text file', 'length : 1459 lines : 30', 'Ln : 1 Col : 1 Sel : 0 | 0', 'Dos\Windows', 'ANSI as UTF-8', and 'INS'.

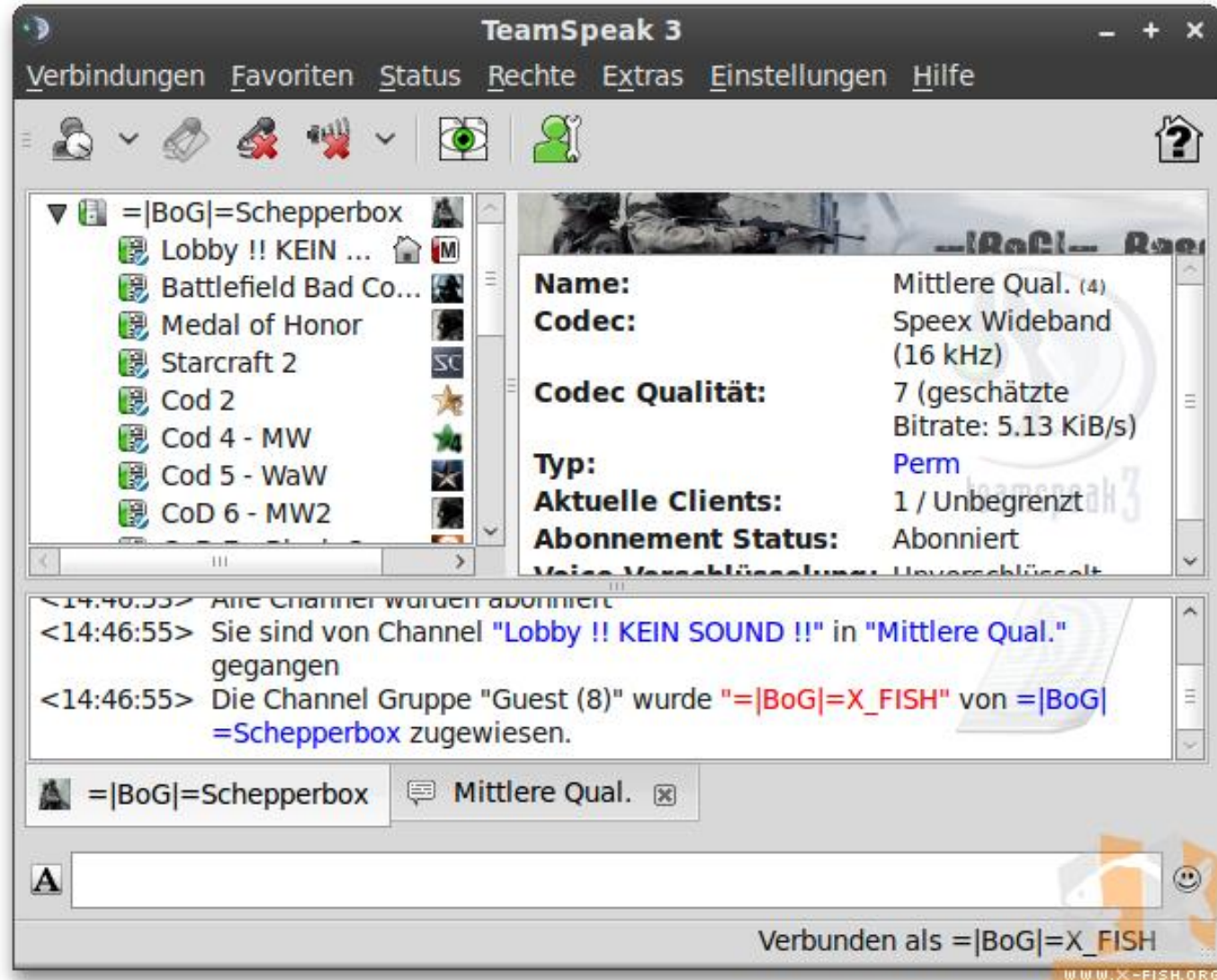
Overlaid on the right side is the PlayOnLinux application window, titled 'PlayOnLinux'. It features a menu bar with 'Tools', 'Settings', 'Plugins', and 'Help'. Below the menu bar are four buttons: 'Install' (with a plus sign), 'Remove' (with a minus sign), 'Configure' (with a gear icon), and 'Shortcut' (with a mouse cursor icon). A green bar below the buttons contains the text 'ad++'. At the bottom of the window, a notification reads 'version of PlayOnLinux is available (4.2.1)'. Below this notification are 'Change order:' buttons with up and down arrows, and 'Play' and 'Slide Show' buttons. The bottom-most part of the window shows 'Slide Transition'.

The bottom of the image shows a presentation slide with a toolbar containing icons for navigation and editing. The status bar at the very bottom indicates 'TextEdit: Paragraph 1, Row 1, Column 12', '0,46 / 0,25', '26,22 x 1,78', 'Slide 22 / 32', 'Blue%20curve', and a zoom level of '61%'.

Altri giochi e software per Linux

Di seguito invece un piccola panoramica su altri giochi e software relativi al mondo gaming su Linux

TeamSpeak



Battle for Wesnoth



Heroes of Newerth



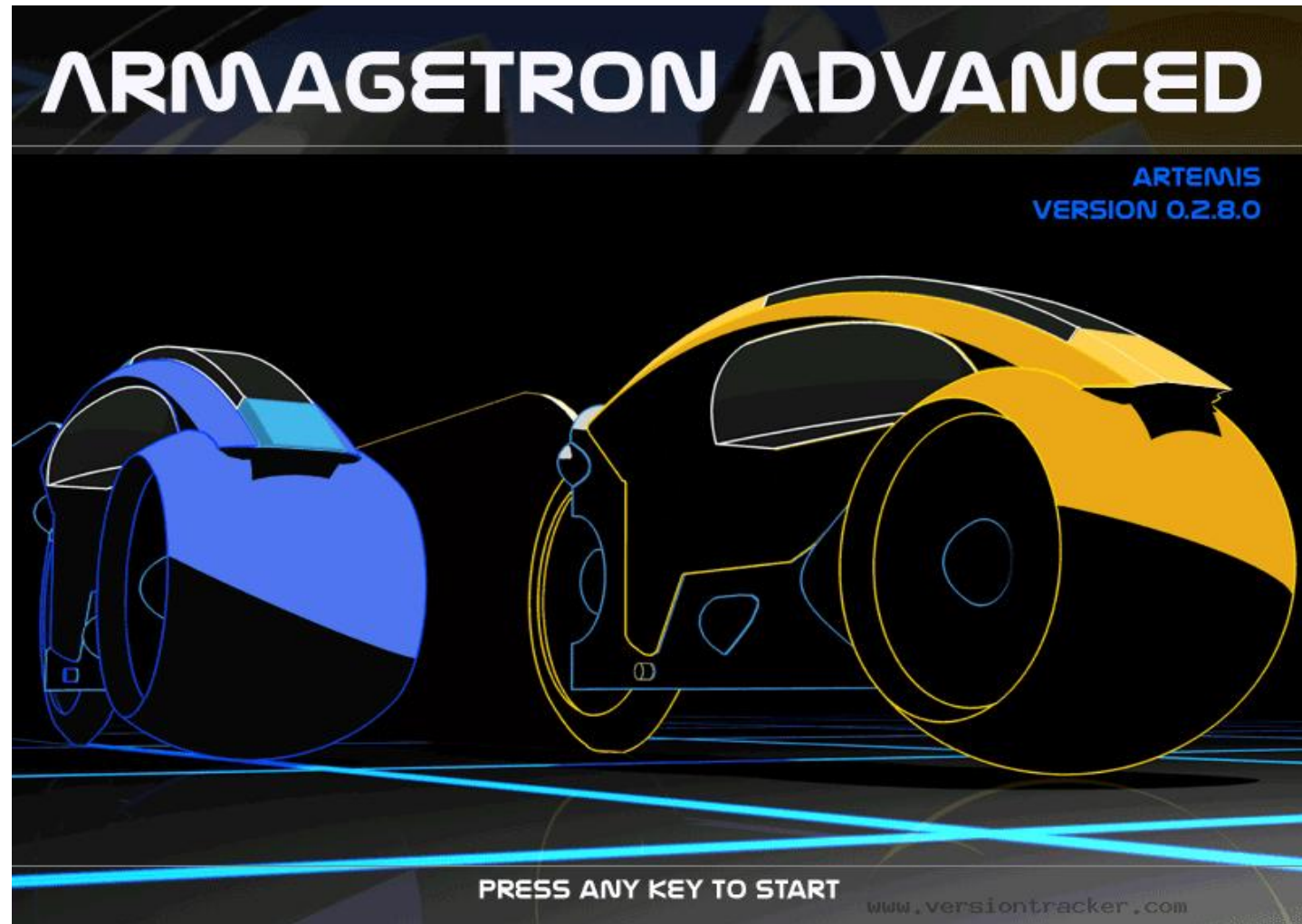
Minecraft



FlightGear



Armagetron



Vdrift



Torcs



Desura

The screenshot shows a web browser window displaying the Desura website. The browser's address bar shows the URL www.desura.com. The website's header features the Desura logo, navigation links for Games, Community, and Developers, and a search bar. Below the header, there is a user profile section for 'demo' and a large featured banner for 'BATTLEFIELD 2142 MODS SUPPORTED'. To the right of the banner is a 'What's Desura?' section with a list of features and two buttons: 'About Us' and 'Download Desura'. Below the featured banner, there are sections for 'NEW GAMES', 'POPULAR GAMES', and 'UPCOMING GAMES', each with a 'SHORTCUT' button. A 'BROWSE' section lists various game genres. At the bottom of the page, there is a 'Play Games' section with several game thumbnails. The browser's taskbar at the bottom shows several open applications, including 'Minecraft-360.jpg', 'Fisica Generale c....pdf', and 'The.Big.Bang.The....avi'.

Menu Steam Games | Desura - G... talk [talk.odp - LibreO... ven ott 18, 21:36

PoliMi Ingegneria Int x The Big Bang Theor x NowDownload - Kee x Introduzione a GNU x Humble Bundle with x Battlefield 2142 Wir x Games | Desura x

www.desura.com

DESURA Games Community Developers Search ...

Hello Guest / Join / Sign In / Get Desura

Play Games Mods Community Development Support Search ...

BATTLEFIELD 2142 MODS SUPPORTED

What's Desura?

- Buy and play the best games
- Free access to mods and addons
- Develop games for a huge audience
- Join a community of gamers
- Voice your opinions

About Us Download Desura

NEW GAMES POPULAR GAMES UPCOMING GAMES BROWSE

Unreal Tournament 3 Half-Life 2 Crysis

Play Games

Develop

Minecraft-360.jpg Fisica Generale c....pdf The.Big.Bang.The....avi 109/154 MB, 18 mins left Show all downloads...

Humble Bundle

The screenshot shows the Humble Bundle website interface. At the top, there's a navigation bar with the Humble Bundle logo, social media icons, and links for Blog, Support, and Log in / Sign up. Below this, there are two tabs: "Humble Bundle" (selected) and "Humble Weekly Sale".

The main content area features the "Humble Bundle with Android™ 7" logo in red and blue. To the right of the logo is a green "Purchase" button and a countdown timer showing "Time remaining: 10:22:23:09" (days, hours, minutes, seconds). Below the logo, it says "Pay what you want. Support charity. Get awesome cross-platform games. 114165 bundles sold!".

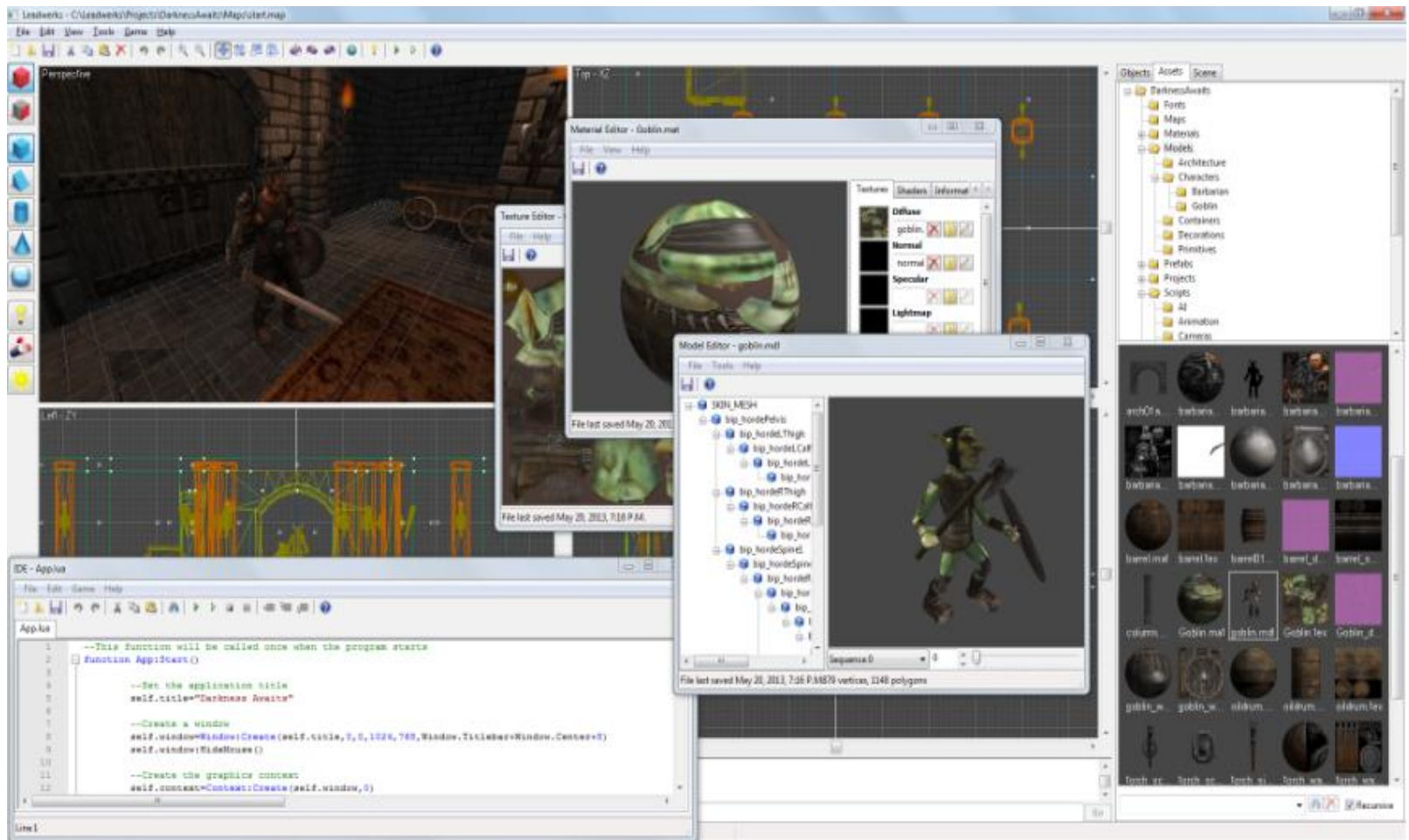
Further down, it states "Pay more than the average of \$6.15 to unlock!". Below this, there are six game icons on a shelf:

- Worms Reloaded*
- The Bard's Tale
- Ticket to Ride + USA 1910 DLC
- Greed Corp
- Incredipede
- Anodyne

At the bottom of the browser window, there's a download bar showing three files: "Minecraft-360.jpg", "Fisica Generale c....pdf", and "The.Big.Bang.The....avi" (111/154 MB, 9 mins left). A "Show all downloads..." link is also visible.

Leadwerks

<http://www.kickstarter.com/projects/1937035674/leadwerks-build-linux-games-on-linux>



Phoronix

- Suite per il benchmark
- <http://www.phoronix.com/scan.php?page=home>
- Utile per controllare i vari benchmark

Domande

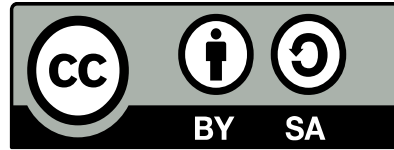
- Chiarimenti o curiosità ?

Grazie per l'attenzione

References

- Winetricks <http://wiki.winehq.org/winetricks>
- PlayOnLinux
<http://www.playonlinux.com/en>
- Bumblebee <http://bumblebee-project.org/>
- Steam <http://store.steampowered.com/>
- Humble Bundle
<https://www.humblebundle.com/>
- Desura <http://www.desura.com/>

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