

Open Source Gaming - Free FUN!

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Objectives

?

Objectives

FUN!

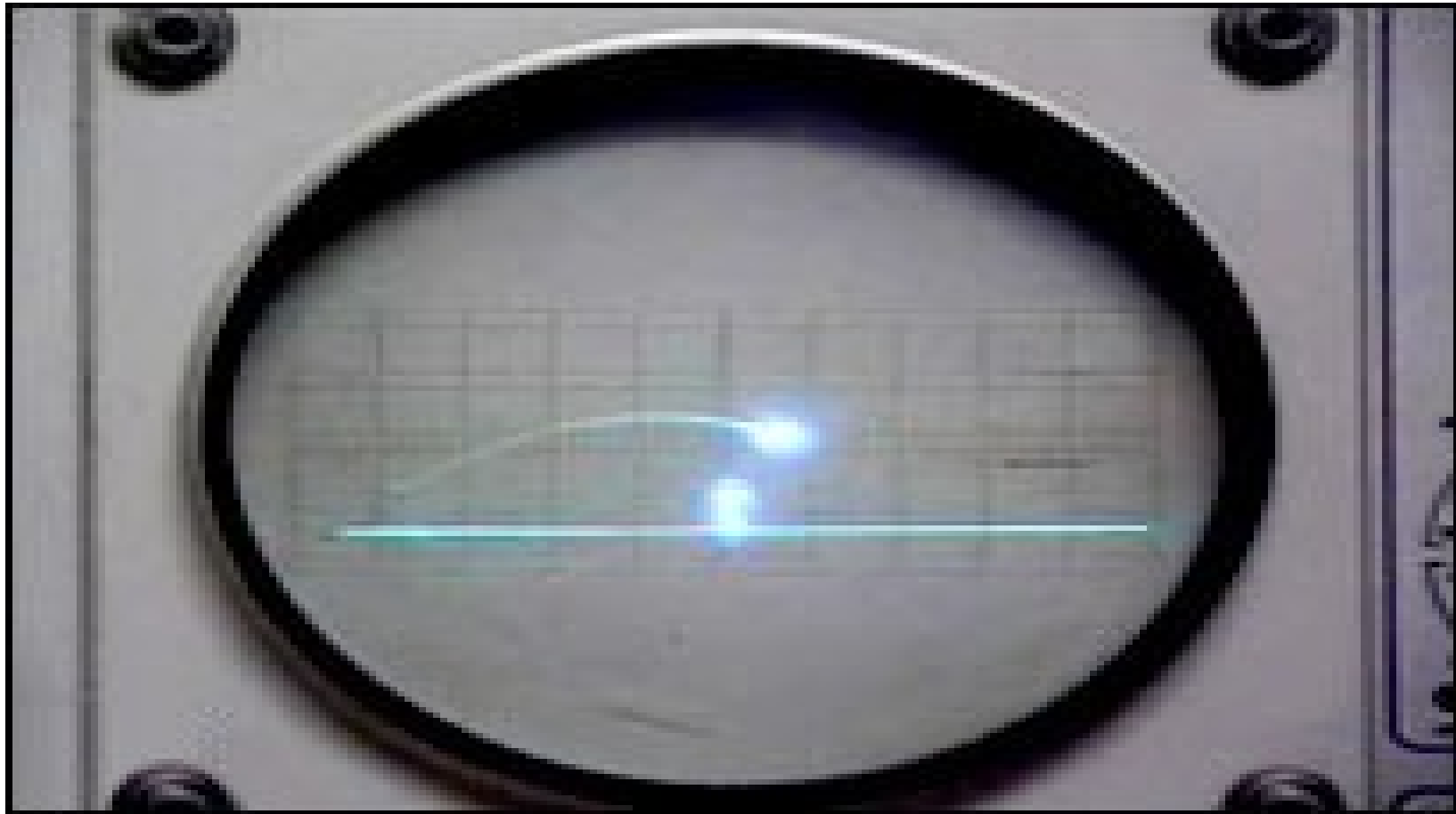
What is that!?

1. Something that brings us joy, laughter or amusement.
2. Something we need more of in our complex adult lives..
3. Video games!

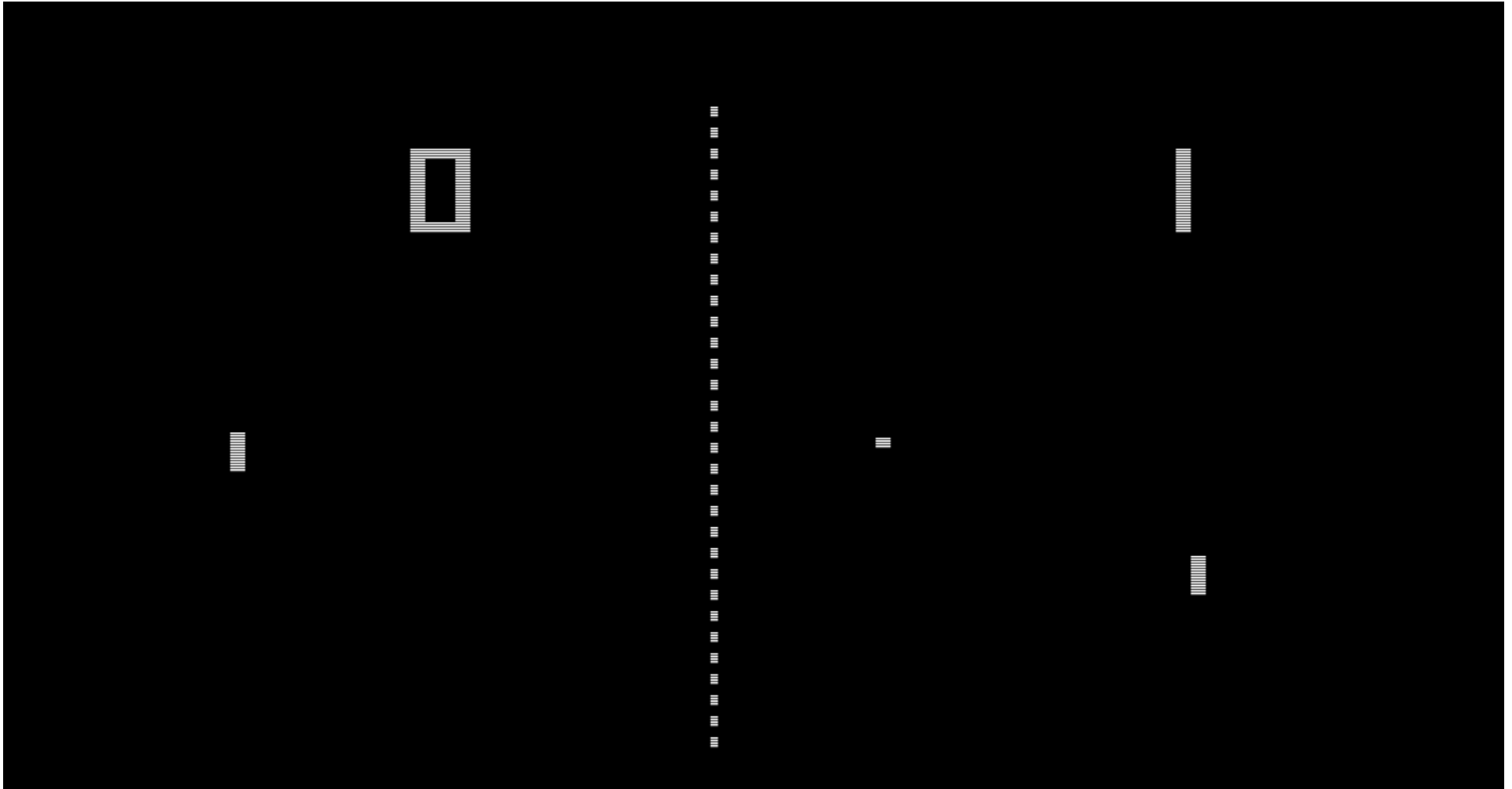
Let's Play!

Identify the game.

Example

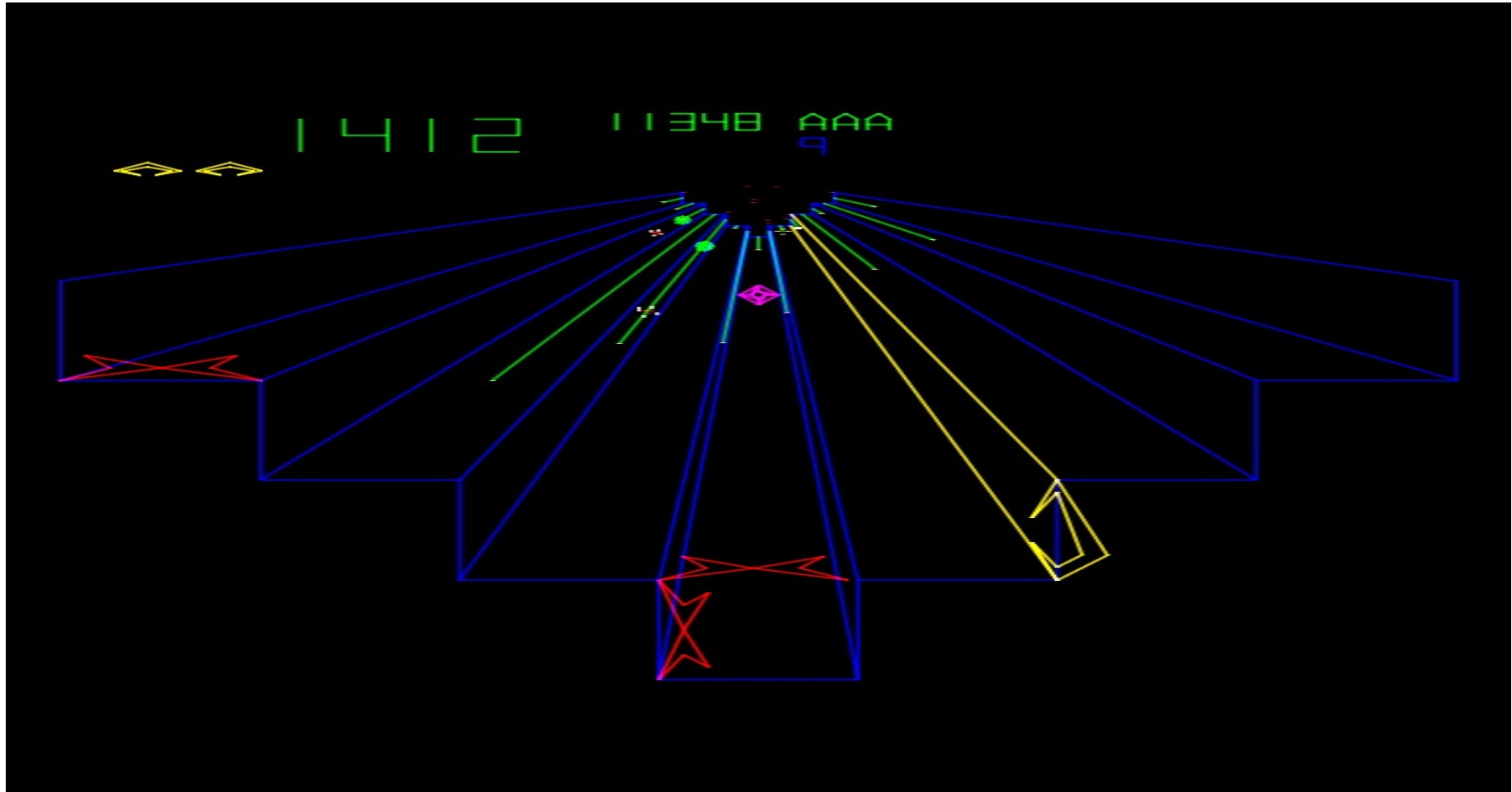


Example



©Atari 1972

Example



©Atari 1980

Example



©Namco 1980

Example



Example



© ID Software 1993

Example



© Apogee 1996
BTW... I'm still waiting FOREVER!

Example



©Jaleco 1998

Example



© ID Software 1999

Example



© Epic Games 2004

Example



© Epic Games 2007

Copyright © Evolutionary IT 2008

Ok...

Now some real objectives...

Objectives

- What the heck is Open Source
- Top Open Source Games in nearly every genre
- FOSS server, security, networking and virtualization options
- FOSS game server example
- Industry overview and challenges
- Science and value of Gaming

Who am I?

- Joseph Guarino
- Working in IT for last 15 years: Systems, Network, Security Admin, Technical Marketing, Project Management, IT Management
- CEO/Sr. IT consultant with my own firm Evolutionary IT
- CISSP, LPIC, MCSE, PMP
- www.evolutionaryit.com

Defining FOSS

Just to clear the air and clarify as this is a fun, desktop focused presentation for everyone

What is FOSS/FLOSS?

- Free and Open Source Software
- Alternative term to describe software spectrum from free to open.
- FLOSS or Free/Libre/Open-Source Software.
- Libre is used to clarify the ambiguity of the word free in English.

What is FOSS?

- FOSS (Free and Open Source Software) is a software licensing model that allows anyone the liberty to use, extend and distribute the software as they see fit.
- FOSS is unique as well in that it produces innovation quickly by the very concept of open, cooperative, collaborative efforts.
- Commercial software is much more restrictive.

Types of FOSS

The licensing spectrum..

Many FOSS Licenses

- There are many FOSS licenses each which allow different rights and responsibilities
- Most popular are GNU General Public License, GNU Lesser General Public License, BSD License, Mozilla Public License, MIT License and the Apache License.
- OSI Licenses – OSI Software Definition
<http://opensource.org/licenses/>
- FSF Licenses – Free Software Definition
<http://www.gnu.org/licenses/>



What FOSS is NOT

- ≠ Freeware
- ≠ Shareware
- ≠ Public Domain Software
- ≠ Malware, spyware, adware, badware etc. Community standards generally prohibit this.

Common FOSS Gaming

Misperceptions that we will hopefully put to rest...

Misperception

You have to spend lots of money to play
quality games.
There are no good open source video
games!?

FOSS Gaming Genre's

In every existing gaming category there are amazing FOSS games.

Exemplary FOSS Game

Strategy

- involve planning and thinking...

FreeCiv



FreeCiv

- **FreeCiv** is a TBS (Turn based strategy) game where you build a civilization.
- Much like Civilization®
- Support for Internet/LAN play with up to 30 players.
- GNU/GPL
- Single/multiplayer
- Available on most platforms.

Battle for Wesnoth



Battle for Wesnoth

- [Battle for Wesnoth](#) is a TBS (Turn based strategy) with a fantasy style environment.
- Players build armies of humans, elves, dwarves, orcs and trolls to battle for Wesnoth.
- GNU/GPL free software
- Single/multiplayer
- Available on most platforms.

FreeOrion

Turn 95

632 (75) 475 (-107) 690 (685) 529 582 551 (5.79) SitRep Research Production Menu

Production

Total Available Points	582	PP
Wasted Points	442	PP
Projects in Progress	1	
Underfunded Project	0	PP
Projects in Queue	1	

1x Mark IV


140 PP / 5 Turns 4 Turns left

Mark IV
140 PP / 5 Turns

Massive state-of-art warship armed and protected with the latest technolgy.
Priced accordingly.

Attack: 15
Defense: 5
Speed: 1

Add to Queue



Denebola

System Production
+20 +17 +27 +20 +22 0/0


Denebola I
small radiated
Size 4

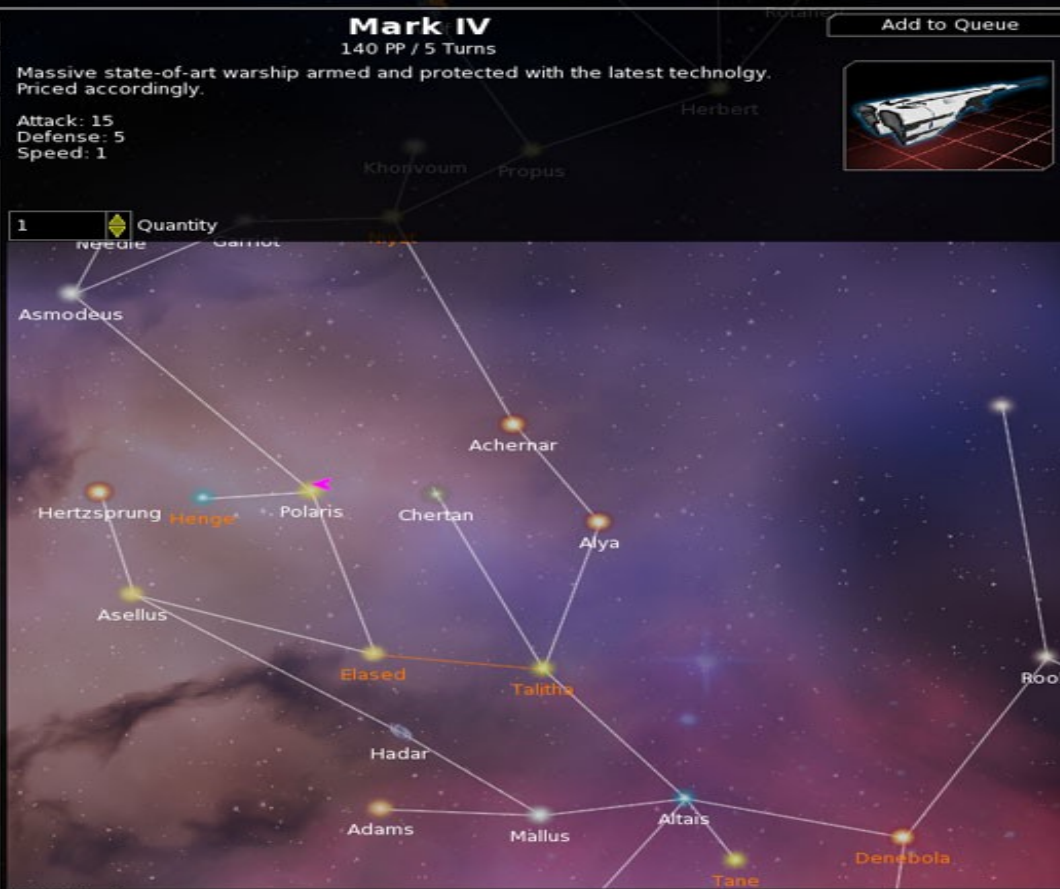
Denebola II
small radiated
Size 4

Denebola III
large barren
Size 8

Denebola IV
huge tundra
Size 10

Denebola V
large terran
25/25





Buildable Items

Buildings	Ships	Orbitals	All
The Caducean Institute			
Collective Thought Network			
The Living Planet			
Megalith			
Monument to Exodus			

FreeOrion

- **FreeOrion** is a game of galactic conquest in the spirit of Master of Orion.
- GNU/GPL
- Single/Multiplayer
- Available on most platforms

RTS

- Real-time strategy
- strategic and not turn based...

Warzone 2100



Warzone 2100

- [Warzone 2100](#) is a RTS game about post nuclear war late 21's century where survivors, struggle to survive. Some scavenge and others called "The Project" seek to rebuild.
- GNU/GPL
- Single/Multiplayer
- Available on most platforms.

Spring



Spring

- **Spring** is a Open Source 3d engine behind a host of amazing games. P.U.R.E. Gundam RTS, Star Wars: Imperial Winter, Evolution RTS, Spring: 1944, Kernel Panic, Expand and Exterminate, Complete Annihilation, XTA.
- GNU/GPL
- Focus on multiplayer with limited single player.
- Available on most platforms

UFO: Alien Invasion



UFO: Alien Invasion

- **UFO: Alien Invasion** is a RTS game where you battle invading aliens for control of planet earth.
- GNU/GPL
- Single and multiplayer
- Available on most platforms.

Platform Games

Platformers

- characterized by jumping to and from platforms...

Secret Maryo Chronicles



Secret Maryo Chronicles

- Secret Maryo Chronicles is a 2d platformer modeled after Super Mario.
- GNU/GPL
- Single Player
- Available on most platforms.

Teeworlds



Teeworlds

- Teeworlds is a cartoon themed platformer that plays like a classic shooter.
- Cute, clean and fun.
- GNU GPL free software
- Multiplayer
- Available on most platforms.

SuperTux



SuperTux

- **SuperTux** is a fun platformer inspired by SuperMario.
- You play Tux the lovable Linux mascot battling enemies and arctic conditions to victory.
- GNU/GPL
- Single Player
- Available on most platforms.

Vehicle Simulation

Vehicle Simulation
- realistic interpretations..

FlightGear



FlightGear

- **FlightGear** is a flight simulation tool/game. Over 15 default planes with realistic world scenery and dozen of add-on's (planes, geographic data, etc).
- GNU/GPL
- Available on most platforms.

VDrift



VDrift

- **VDrift** is a cool racing simulation game with over 13 tracks and 21 cars. Highly configurable and customizable.
- GNU/GPL
- Single/Multi-player
- Available on most platforms.

Torcs



TORCS

- **TORCS** (The Open Racing Car Simulator) is an open source racing simulation game.
- GNU/GPL
- Single/Multi-player
- Available on most platforms

RPG

Role Playing Games/MMORPG's (Massively multiplayer online role-playing games)
- one or a group plays a role/character...

NetHack



NetHack

- **NetHack** is a D&D like role playing game. You play the role of a wizard, fighter or other character on a quest for the Amulet of Yendor.
- Console and graphical versions available
- GNU/GPL
- Available on most platforms

Crossfire

Crossfire GTK Client

File Client Action Help

Inventory: 299.0 / 3500 Count: 8


Name	Weight
scroll case of Holding *	0.5
quiver of arrows	0.1
magnifying glass	2.0
Unholy Bow	9.0
Unholy Bow	9.0
fourteen arrows	0.4
five arrows	0.1
three arrows	0.1
bolt	0.1
nine bolts	0.5
nine bolts	0.5

Close You see:

Name	Weight
bed to reality	
woodfloor	

Player: Chrisll the ancient cold dragon
 Score: 1914353147 Level: 109
 S27 D22 Co28 I19 W15 P30 Ch23
 Wc-94 Dam 17 Ac-16 Arm 75
 Speed: 1.80 (6.02)
 Range: nothing

smithery	316706 (9)	bowyer	938:
jeweler	320472 (9)	alchemy	83727
literacy	1954740 (12)	bargaining	14660
...



Hp: 431/431
 Sp: 413/413
 Gr: 335/273
 Food: 858

armor	+75
magic	+69
fire	+71
elec	+61
cold	+56
acid	+39
drain	+100
pois	+43
fear	-100
depl	+100
death	+100

NOTE: This server runs latest CVS code. This means that stability may not be the highest, but it will have all the latest bells and whistles. This also means games features and other aspects may change unexpectedly.

Since this server uses the latest split skill code, it is possible that old clients may have problems. If you see stability problems with your client, please make sure you have the latest client (from CVS) installed.

Chrisll has entered the game.
 No mail...
 Wrager has entered the game.
 Leon shouts: anyone have 2 improve damage scrolls they want to sell or trade?

Welcome back:

Players:

Hoz the Diligent [/home/crossfire/var/crossfire/players/Hoz/_scorn_apartment_apartments]Peaceful
 Leaf the AFK [/HallOfDMs] [WIZ]Peaceful
 Lancen the Shadow Knight [/home/crossfire/var/crossfire/players/Lancen/_scorn_apartment_apartments]Peaceful
 Karmy the elf [/home/crossfire/var/crossfire/players/Karmy/_scorn_apartment_apartments]Peaceful
 Perle the big cold dragon [/lake_country/shops/Olds_jewel]Peaceful
 FireStar the fireborn [/scorn/crow/train/zombie]Peaceful
 Jumeabra the elf [/pup_land/raffie/raffie1_u3]Peaceful
 lumenaso the elf [/scorn/crow/train/zombie]Peaceful
 Korusef the fireborn [/home/crossfire/var/crossfire/players/Korusef/_scorn_apartment_apartments]Peaceful
 Wumpus the elf [/home/crossfire/var/crossfire/players/Wumpus/_scorn_apartment_apartments2]Peaceful
 Boltozar the Wraith [/HallOfSelection]Peaceful
 Casper the Damned Heretic [/wolfsburg/guilds/damned_here_tics/upper]Peaceful
 neptune the ancient electricity dragon [/scorn/crow/train/train]Peaceful
 destru the Damned Heretic [/wolfsburg/guilds/damned_heretics/upper]Peaceful
 Leon the Elven Monk [/world/world_128_109]Peaceful
 Chrisll the ancient cold dragon [/home/crossfire/var/crossfire/players/Chrisll/_scorn_apartment_apartments]Peaceful

Crossfire

- **Crossfire** is a multi-player adventure game ala Gauntlet or NetHack.
- GNU/GPL
- Online Multi-player
- Available on most platforms

Diamonin

Lord Michtoen [DM]
male human Mercenary
true neutral follower of the Tabernacle

Stat-0-Meter:
EXP: 0 (0.00/hour)
Kills: 0 (0.00/hour)

using heavy rod of probe (lvl 1)

Stats

Str	30
Dex	27
Con	25
Int	24
Wis	24
Pow	24
Cha	24

HP 285 (285)
Mana 30 (30)
Grace 23 (23)

Regeneration
Mana 2.0 HP 2.0
Grace 2.0

Level / Exp: **45**
99546045

Resistance Table

IM	34	SL	34	CL	32	PI	32
FI	05	CO	00	EL	00	PO	06
AC	06	SO	00	MA	00	PS	00
LI	00	SH	00	LS	00	AE	00
NE	00	CH	00	DE	00	WE	00
CO	00	DR	04	DE	04	CR	04
CM	00	CA	00	CF	04	FE	04
SL	04	PA	04	SN	04		

Used Skill

Skill Groups

name / level	Ag:	Me:	Ma:	Pe:	Ph:	Wi:
	32	1	3	1	45	1

Spells
Skills
Quest
Help

Stonehaven

F1 F2 F3 F4 F5 F6 F7 F8

(SHIFT for inventory) Carry 81.042 kg
Limit 205.000 kg

Group:
type '/help group' for info

Boruta tells Lunatyk: heheh alt, czy nowa twarz/
Lunatyk tells Boruta: chyba nowa
Jamaicalort shouts: hi all
Lunatyk tells Boruta: lvl39 czy cos kolo tego
Boruta shouts: hi
Ahmet shouts: heya
Rms tells Wawoolard: just had to go get the batteries my
cams always with me
Lunatyk tells Boruta: osobiscie to ja widzialem kilka razy
Jamaicalort tells Ahmet: und gibts was neues?
Ahmet tells Jamaicalort: soweit nicht

connected, exchange version.
version confirmed.
starting login procedure...
Welcome Back!
DM mode activated for Michtoen!
Difficulty: 8.
Jamaicalort has entered the game.
DM: 18 players now playing.
Mfc leaves the game (17 still playing).
toggle dm_light to 1

Diamonin

- **Diamonin** is a MMORPG adventure game.
- GNU/GPL fork of Crossfire.
- Online multiplayer
- Available on most platforms

Puzzle/Action/Arcade

Puzzle/Action/Arcade
- all around fun...

Frozen Bubble



Frozen Bubble

- **Frozen Bubble** Is a game where you play Tux (Linux mascot) and group colored balls in similar formation.
- GNU/GPL
- Single/Multi player Online play.
- Available on most platforms as well as in Java.

Pingus

Released: 10/10

Out: 7

Saved: 3/5

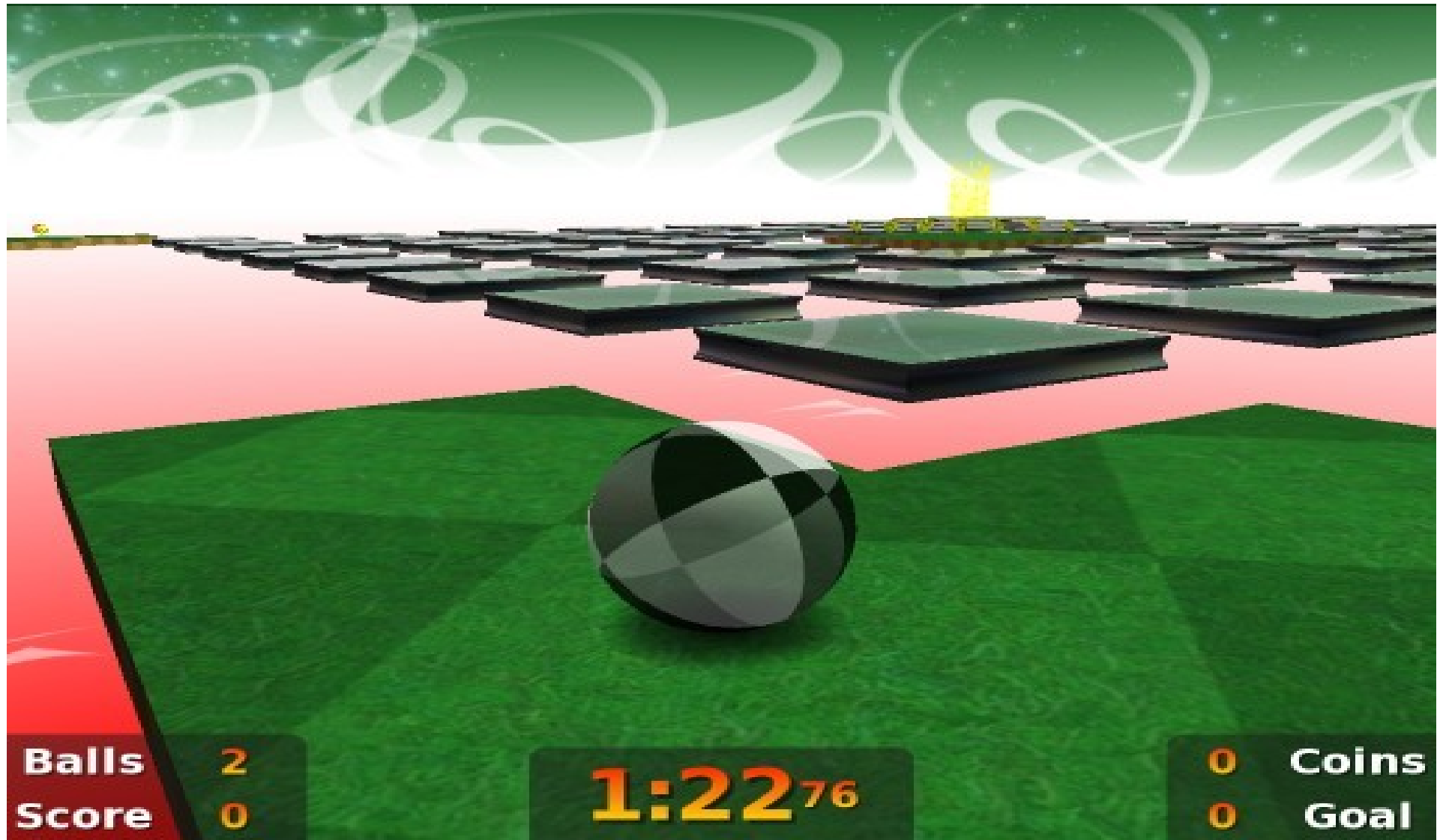
2:56



Pingus

- **Pingus** is a free Lemmings-like game where you guide your gaggle of penguins through obstacles.
- GNU/GPL
- Single player only
- Available on most platforms.

Neverball



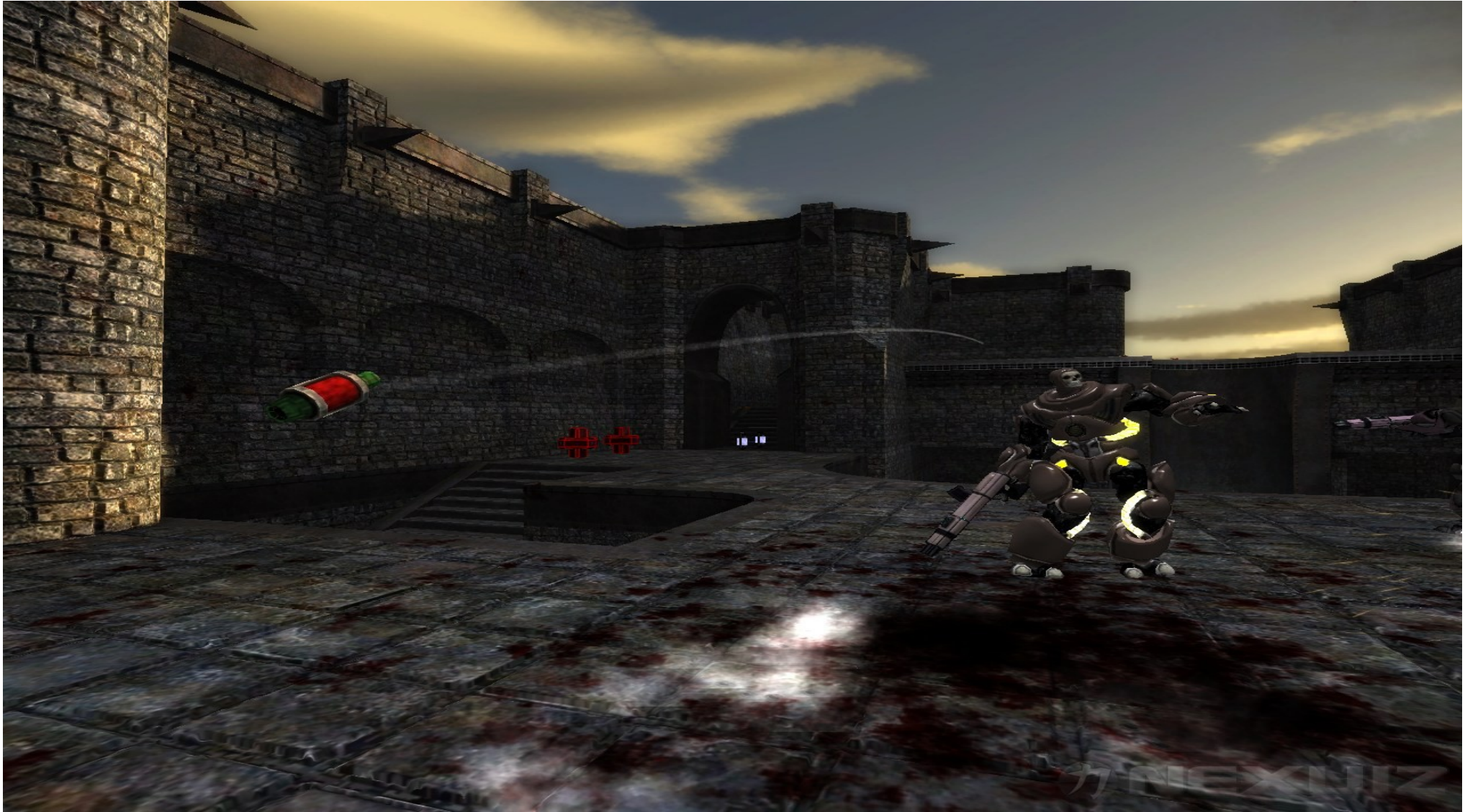
Neverball

- **Neverball** is a game where you battle the forces of gravity to collect coins and most importantly have fun.
- GNU/GPL
- Single player
- Available on most platforms

FPS

First Person Shooters
- you shoot at stuff...

Nexuiz



Nexuiz

- **Nexuiz** is a cool, fast paced, futuristic first-person shooter with single and multi-player modes.
- 9 weapons, 24 official maps and over 200 community maps.
- Very cool slick GUI.
- GNU/GPL and available on most platforms.

Warsow



Warsow

- **WSW** is a fast paced cartoon like and futuristic first person shooter.
- GNU/GPL
- Single and multi-player options
- Available on most platforms

WoP



World of Padman

- Fun cartoon like first person shooter.
- GNU/GPL
- Originally a mod for Q3 Arena
- Available on most platforms

Educational

Educational Games for all ages...

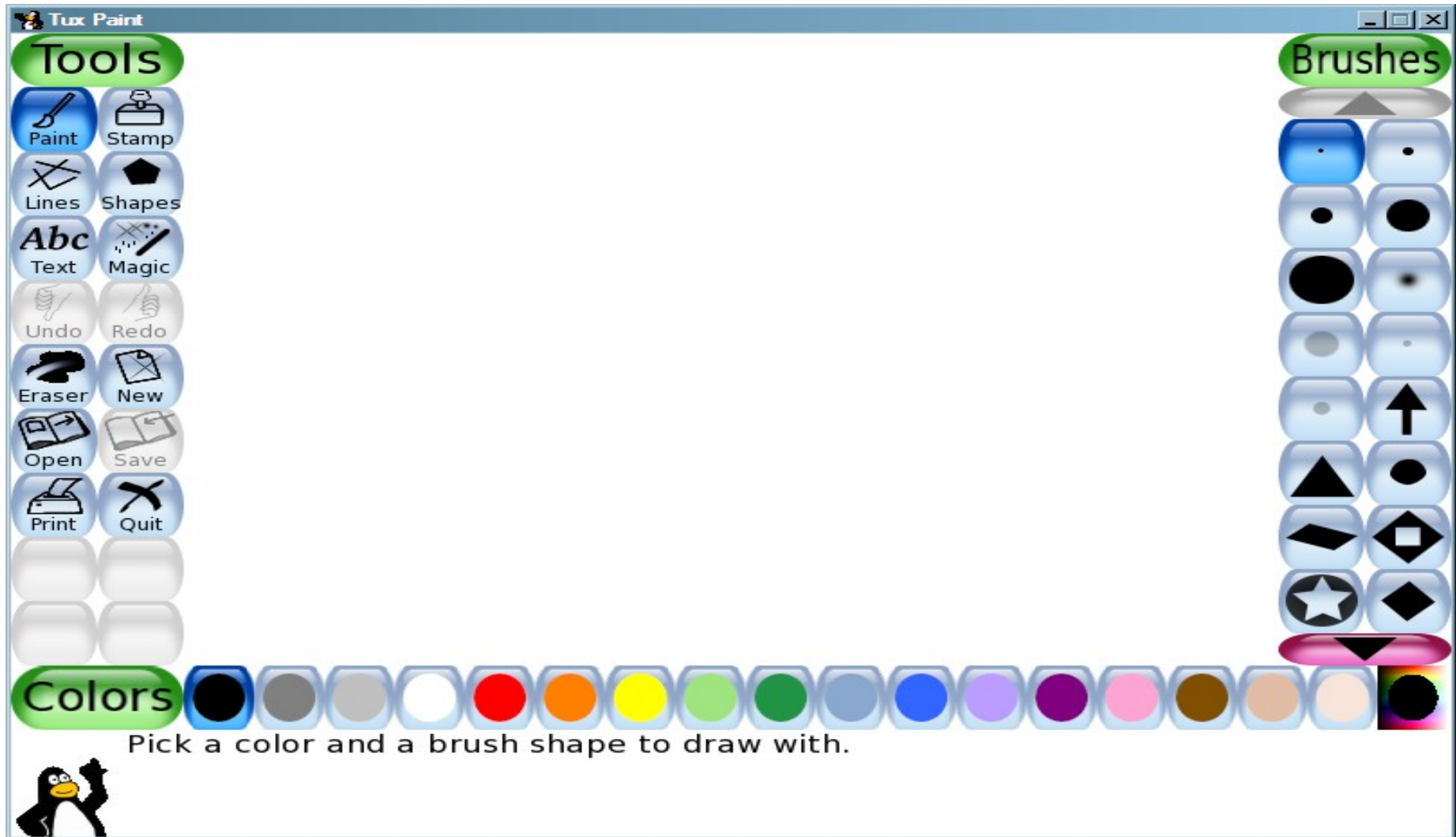
Stellarium



Stellarium

- **Stellarium** is a virtual planetarium of the sky in 3D.
- Great realistic content and easy to use navigation.
- GNU/GPL
- Available on most platforms.

Tux Paint



Tux Paint

- Tux Paint is a simple graphics editor for kids (3 and above).
- Engaging, fun environment (Tux, sounds, big buttons) that encourages creativity and learning.
- GNU/GPL
- Available on most platforms

Alice

The screenshot displays the Alice 2.0 software interface. At the top, the title bar reads "Alice (2.0 04/05/2005) - E:\studie\purgathofer\Alice2\Alice\Required\exampleWorlds\lakeSkater.a2w". The menu bar includes "File", "Edit", "Tools", and "Help".

On the left side, there is a "World" scene tree containing objects like "Camera", "Light", "IceSkater", "ThighL", "Clothes", "Abs", "Chest", "ThighR", and "Cube". Below this is the "IceSkater's details" panel with tabs for "properties", "methods", and "functions". The "methods" tab is active, showing various methods such as "skate", "spin", "blinkEyes", "setBlink", "lookAndWink", "simpleSpin", "circleAround", "skateBackwards", "jump", "go wireframe", "go solid", and "create new method".

In the center, a 3D scene shows an ice skater on a frozen lake. A wooden signpost in the foreground reads "Danger! Thin Ice". Navigation arrows and a "ADD OBJECTS" button are visible at the bottom of the scene.

On the right side, the "Events" panel is open, showing a "World" event. The event is triggered "While Space is pressed". The "Begin" block contains "IceSkater.go wireframe", the "During" block is set to "<None>", and the "End" block contains "IceSkater.go solid". Below this, a "When the world starts, do" block contains "World.my first animation".

At the bottom, the "World.my first animation" script editor is open. It shows a sequence of actions: "Wait 1 second", "Camera set point of view to <None> point of view of = Camera.PointOfView2 duration = 2 seconds more...", "Wait 1 second", "Camera set point of view to <None> point of view of = Camera.PointOfView more...", a "Do together" block containing "IceSkater turn left 0.45 revolutions more..." and "IceSkater set pose IceSkater.pose more...", "IceSkater.skate howManySteps = 1", "IceSkater.simpleSpin", a comment "// backwards and jump", another "Do together" block containing "IceSkater.skateBackwards howManySteps = 2", and finally "Do in order", "Do together", "If/Else", "Loop", "While", "For all in order", "For all together", "Wait", "print", and a comment "//".

Alice

- **Alice** is an educational 3D game environment that teaches programming to kids.
- BSD License
- Available on most platforms

Game Server Ex

Some of you may be wondering...
Can I build my own game server?

So can I create a LAN party?



Distro/OS Options

Freedom and choice are yours

OS's (Linux/Unix - Commercial)

- Linux/Unix Distros -
- Redhat - www.redhat.com
- Novell - www.novell.com
- Canonical - www.canonical.com
- Sun - www.sun.com
- Commercial support
- All of these projects have a community driven effort.

OS's (Linux/Unix - Community)

- Debian Linux - www.debian.org
- Slackware - www.slackware.com
- Ubuntu - www.ubuntu.com
- Gentoo - www.gentoo.org
- Fedora - www.fedoraproject.org
- OpenSUSE - www.opensuse.org
- Open Solaris - www.opensolaris.org

BSD's

- FreeBSD - www.freebsd.org
- OpenBSD - www.openbsd.org
- Both are community driven but community support is available.
- No single company drives projects.
- OpenBSD has stellar security history. Project is model of success of security in the Open Source world.
- Only 2 remote holes in the default install in 10 years!
- O'Bsd brought you OpenSSH, OpenBGPD, OpenNTP and OpenCVS.

Networking

- There are supernumerary networking options in the FOSS world.
- PFSense - www.pfsense.org
- IPCOP - www.ipcop.org
- Untangle - www.untangle.com
- OpenWrt - www.openwrt.org
- DD-WRT - www.dd-wrt.com

Open Virtualization

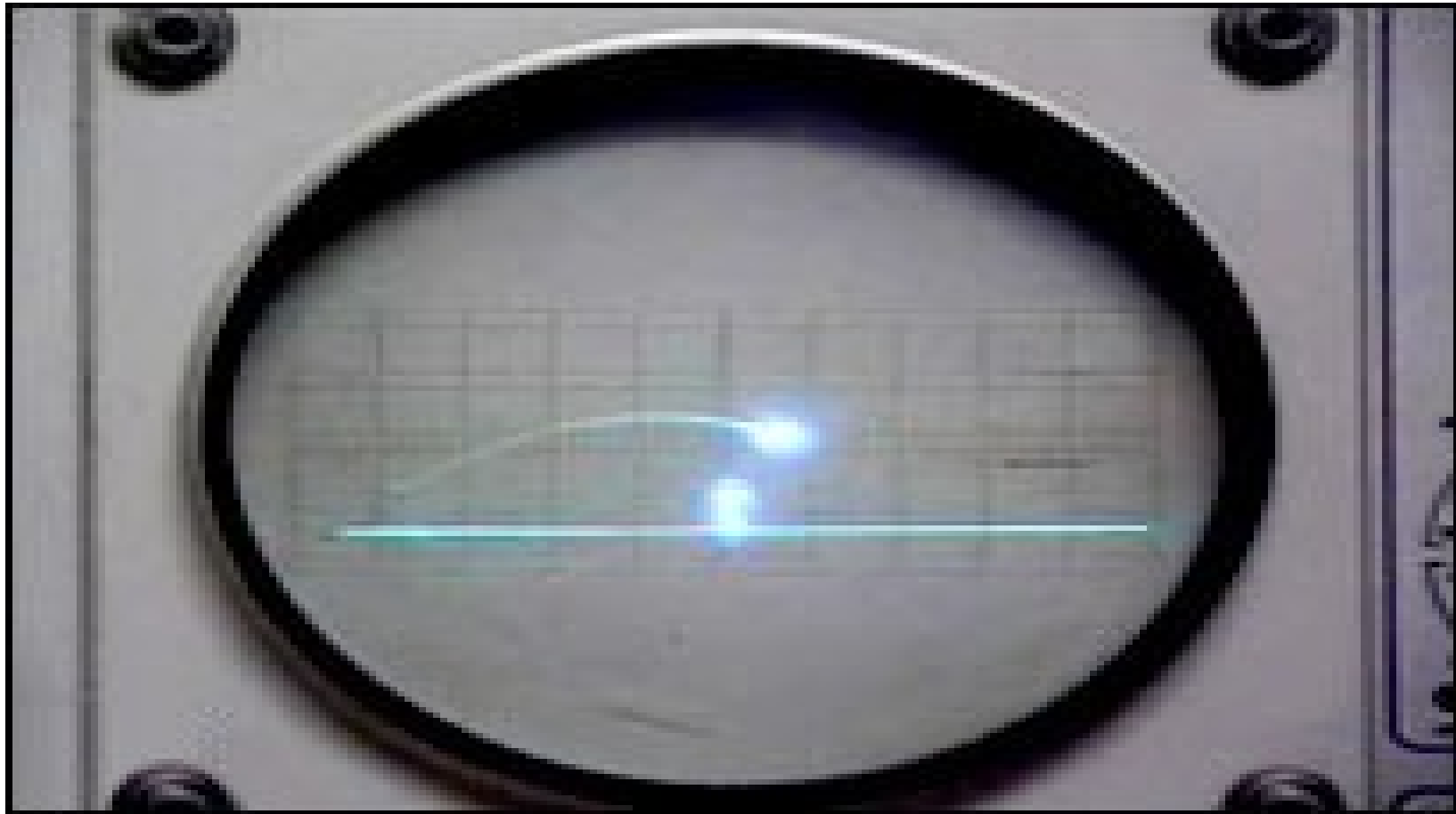
- Xen - <http://www.xen.org/>
- Virtual Box - <http://www.virtualbox.org/>
- QEMU - <http://bellard.org/qemu/>
- Linux KVM - (Kernel based Virtual Machine) - <http://kvm.qumranet.com/kvmwiki>
- OpenVZ - <http://openvz.org/>

Ultimate Rig?

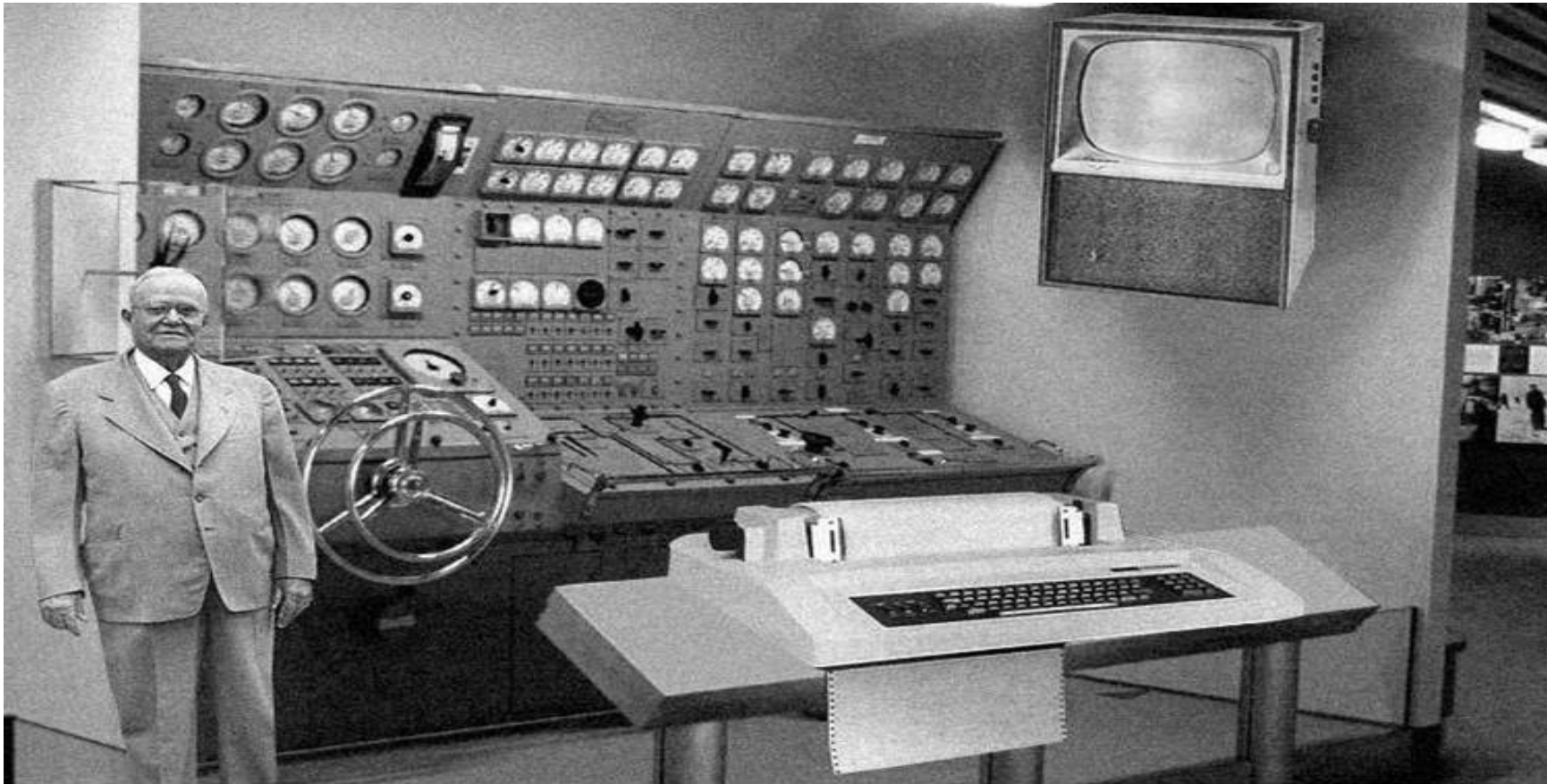


1958 Physicist William Higinbotham's Tennis for Two game. Now thats a gaming rig!

That might tax my GPU



Or this...



Scientists from the RAND Corporation have created this model to illustrate how a "home computer" could look like in the year 2004. However the needed technology will not be economically feasible for the average home. Also the scientists readily admit that the computer will require not yet invented technology to actually work, but 50 years from now scientific progress is expected to solve these problems. With teletype interface and the Fortran language, the computer will be easy to use and only

Kiddin'

Aside.

Game Server Example



Nexuiz

- Cool futuristic first-person shooter with single and multi-player modes.
- 9 weapons, 24 official maps and over 200 community maps.
- Very cool slick GUI.
- Think Quake or UT.

Nexuiz

- Alientrap Software
- GNU GPL (maps, models, everything)
- DarkPlaces (modified Quake Engine)
- Linux/Unix, OS X, MS Windows

Nexuiz Setup/Config

- Unzip -d to where you want it. Usually sub directory of home directory is easiest.
- READ the readme file in Nexuiz/Docs/
- Copy Nexuiz/Docs/server/server_linux.sh into Nexuiz
- Copy Nexuiz/Docs/server/server.cfg into Nexuiz/data
- Change the variables below and comment out anything you don't want enabled.

Nexuiz server.cfg

- **hostname** – will be the name of your server.
- **sv_motd** – your message, insult or joke of the day.
- **Maxplayers** – max # of players.
- **Port** – the port you want the server to run on. UDP 26000 is the default Nexuiz server port.
- **sv_public** – set server to public or not.
- **rcon_password** – set if you want remote management password.

RCON

- Rcon allows remote administration of the server.
- Pick a strong password. =P
- Can login while on your client connected to the server or add rcon password to your client config.
- [Rcon User Guide](#)

Nexuiz Setup/Config

- Edit and customize server.cfg
- Configure local firewall to open UDP 26000. Also open it on hardware Firewall (if you are opening server to public Internet).
- Once you locked down the network/server you can fire up your server.
- `./server_linux.sh &`
- Have some FUN!

Nexuiz Support

- [Nexuiz Website](#)
- [Nexuiz Forum](#)
- [Nexuiz FAQ](#)
- IRC - [#nexuiz](#) on [irc.quakenet.org](#)

Gaming

Industry Facts

Interesting Quote

Video games are a waste of time for men
with nothing else to do.

RAY BRADBURY
Salon.com, Aug. 29, 2001

Actually...

November 2005 Nielsen Active Gamer Study

A survey of 2,000 regular gamers, found that the U.S. games market is diversifying. The age group among male players has expanded significantly into the 25-40 age group. For casual online puzzle-style and simple mobile cell phone games, the gender divide is more or less equal between males and females. Females have been shown to be significantly attracted to playing certain online multi-user video games that offer a more communal experience, and small amount of young females have been shown to play “aggressive” games that are sometimes thought of as being "traditionally male" games.

41% of PC gamers are women. - ESRB

Industry Facts

- Most estimate nearly \$10 billion market in the U.S. alone.
- According to NDP Group, Console and portable software sales: \$6.2 billion, console and portable hardware and accessory sales: \$3.7 billion, PC game sales: \$1.1 billion in 2007.
- >100 million gamers worldwide as of 2005. Deutsche Bank Alex Brown.

Open Source's Industry Impact

In nearly every space Open Source has had a tremendous impact...

FOSS Gaming

A few key contributions relating to our highlighted games....

id Software

- Founded 1991 by John Carmack (Lead Programmer), John Romero (Programmer), Tom Hall (Game Designer), Adrian Carmack (artist)
- Amazing powerhouse of innovation in the gaming industry. HUGE contribution to Open Source.
- Licensed its core engine (Keen, Wolfenstein, Doom, Quake, Quake II, Quake III) to other game producers.

id Software

- John Carmack open sourced all major engines under GPL.
- Future releases will be made FOSS after 5 years.
- id spurred innovation in gaming and especially in the FOSS space.
- Thank you ID Software!

ID's FOSS Engine Brethren

- **ioquake3**
- <http://en.wikipedia.org/wiki/loquake3>
- **DarkPlaces**
- <http://en.wikipedia.org/wiki/DarkPlaces>

Other Amazing Engines

- Spring Game Engine
- Ogre Game Engine
- Sauerbraten Game Engine

Open Source Gaming Industry

Why are there no blockbuster games?

Industry Economics/Oss Barriers

- Game development is costly.
- Rockstar Games, Leslie Benzies says that Grand Theft Auto IV had over \$100 million development costs.
- FOSS projects have to be sustainable financially. There are real costs.

Industry Economics/Oss Barriers

- Video Cards – mired in IP (Intellectual Property) issues.
- Many in the Open Source community are not willing to either compromise. It's really the only option other than building a better card...
- **Open Graphics Project** endeavors to do just that.

Industry Economics/Oss Barriers

- Popularity of commercial development tools, languages and engines...
- Prevalence of closed consoles...
- Lack of consumer understanding of FOSS

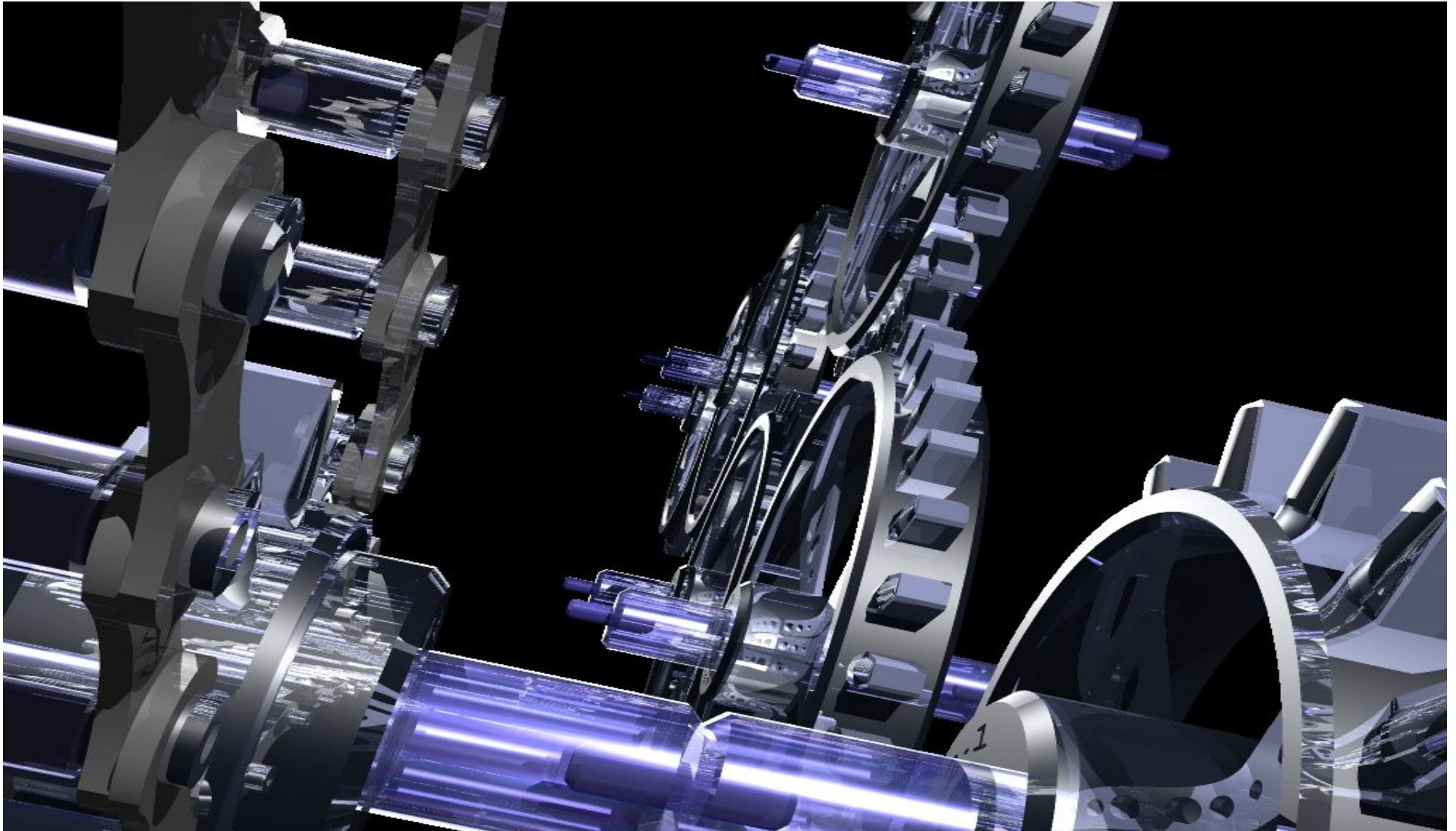
Despite all of these factors

FOSS THRIVES

Not a sermon

If you want to see FOSS thrive, then you have to support it as an active participant, or otherwise financially support these projects.

Changing



Science of Gaming

Societal Value of Video Games

Gaming Benefits

- Video games can actually have a societal value and contribution.
- Training, simulation and even educational marketplaces make use of the same technologies that came from the commercial/military world.
- Games are a learning/didactic tool.
- Fun is important avenue to learning!

Science behind Gaming

- Video games improve spatial capacities
- Video games improve visual attention skill
- Video games improve spacial acuity
- Video games sharpen visual skills
- Video games can reduce stress
- Second Life can improve real life social skills
- Video games improve visual processing
- Video games improve gamer's problem solving, scientific thinking

Quote

I recently learned something quite interesting about video games. Many young people have developed incredible hand, eye, and brain coordination in playing these games. The air force believes these kids will be our outstanding pilots should they fly our jets.

Ronald Reagan
Aug. 8, 1983

Ronny was a Gamer!



Overblown Negative Mythology

- Many politicians and activists in our society don't recognize the scientific facts about video games or their positive present/future potential.
- Large body of scientific research generally show games to have a vastly positive societal impact.
- As a didactic tool they offer many positive impacts.

Grand Theft Childhood

- Dr's Lawrence Kutner, Ph.D. and Cheryl K. Olson, Sc.D book on the effects of violent video games effects on kids.
- “Studies by the FBI and the U.S. Secret Service found no link between violent video games and headline-grabbing crimes or violence.”
- Games have a wide array of positive aspects such as: improved creativity, allow kids to explore difficult emotions (anger & stress), promote involvement in sports, improve social skills and self-esteem.

Interesting Quote

Video games are bad for you? That's what they said about rock and roll.

SHIGERU MIYAMOTO

Mario, Donkey Kong, Legend of Zelda

Video Games are a compelling learning tool.

“The generation that grew up with Super Mario is entering the workplace, entering politics, so they see games as just another good tool to use to communicate.”

- Henry Jenkins, MIT

Are there other FOSS games?

Tons in every gaming genre...

Game Links Galore

- [Wikipedia List of Open Source Games](#)
- [List of Open Source Games](#)
- [Libre Game Wiki](#)
- [Dmoz Directory - Open Source Games](#)

FOSS Game Sites

- www.linuxgames.com
- www.tuxgames.com
- www.liberatedgames.com
- www.happypenguin.org

Funny Game Links

- [50 Worst Game Titles Ever](#)
- [30 Dumbest Video Game Titles Ever](#)
- [Some funny video games](#)

Video Game Science

- Video games improve spatial capacities
- Video games improve visual attention skill
- Video games improve spacial acuity
- Grand Theft Childhood
- Reality Bytes: Eight Myths About Video Games Debunked

Thanks to..

- All the FOSS game programmers, graphic artists, animators, sound editors, etc. who make these great games possible.
- The entire FOSS community
- BLU
- MIT (for the space and continued support)
- YOU!