




Open Culture

Dr. Luis Ibanez, Kitware

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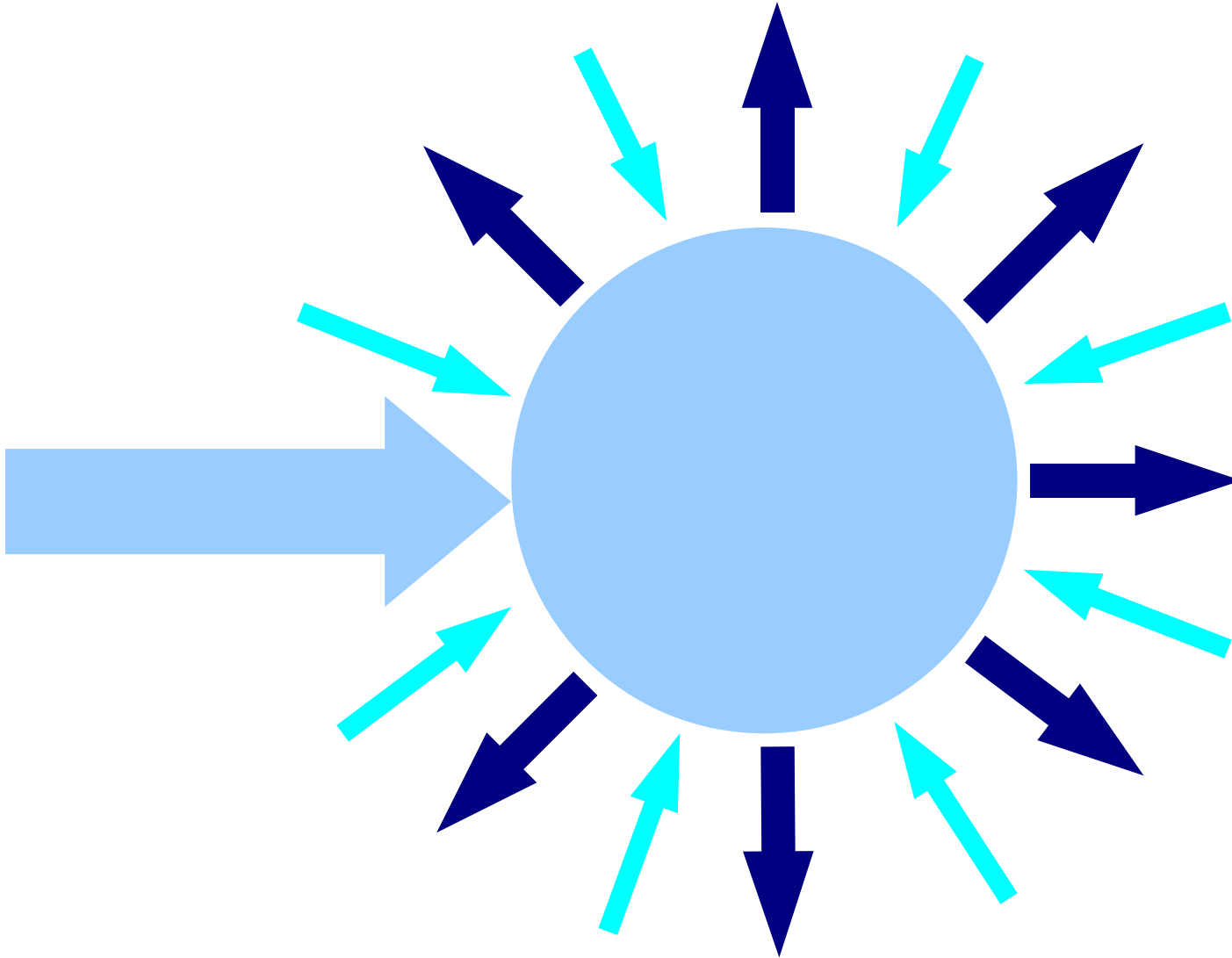
Open Source Software



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Open-Sourceness



Open-Sourceness

- No controlling content (Let go!)
 - Allowing redistribution
- Collaboration platform
 - Improvement scheme
 - Sharing improvements
- Building a shared resource

Open Source Hardware

Open Source Hardware

- <http://www.openhardwarefoundation.org>
- Non-profit corporation
- Whose charter is to **promote** the design and production of
 - open source and
 - open documentation hardware.

Open Source Graphics Card

Open Source Graphics Card

OGD1 Open Graphics Development Board

8x 256 Mib DDR RAM (4 on reverse side)

2x Dual-Link DVI Transmitters

100-pin Expansion Connector



Xilinx® Spartan™-3 XC3S4000 FPGA

Lattice™ XP10 FPGA

Open Source Graphics Card

- <http://wiki.opengraphics.org/tiki-index.php>
- The Open Graphics Project (OGP) is developing
 - Graphics cards with
 - Fully published specs and
 - Open source drivers.

Open Source Graphics Card

- List of Materials

<http://spreadsheets.google.com/pub?key=ps980ejSIf3DeoBkURvDZQ>

- Development Tools

http://wiki.opengraphics.org/tiki-index.php?page=Development_Tools

- Hardware Development Tools

<http://wiki.opengraphics.org/tiki-index.php?page=Hardware+Development>

Open Source Phone Freerunner

Open Source Phone Freerunner

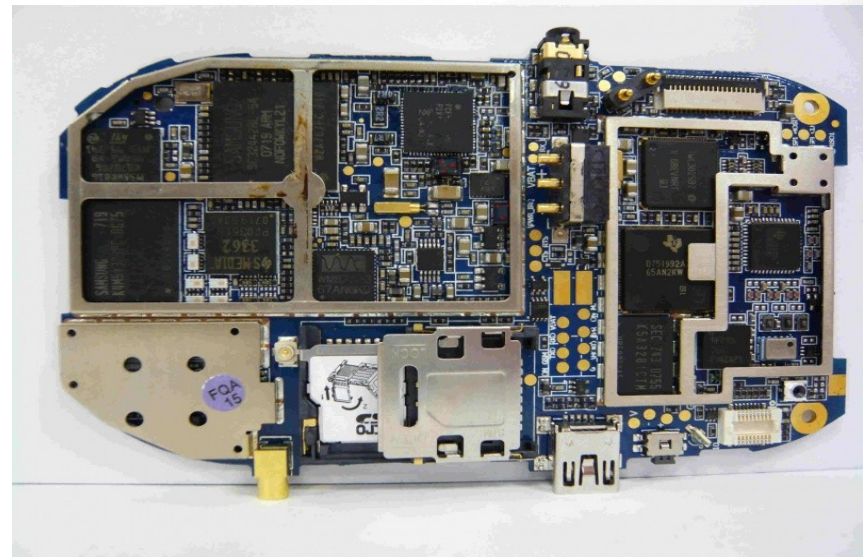
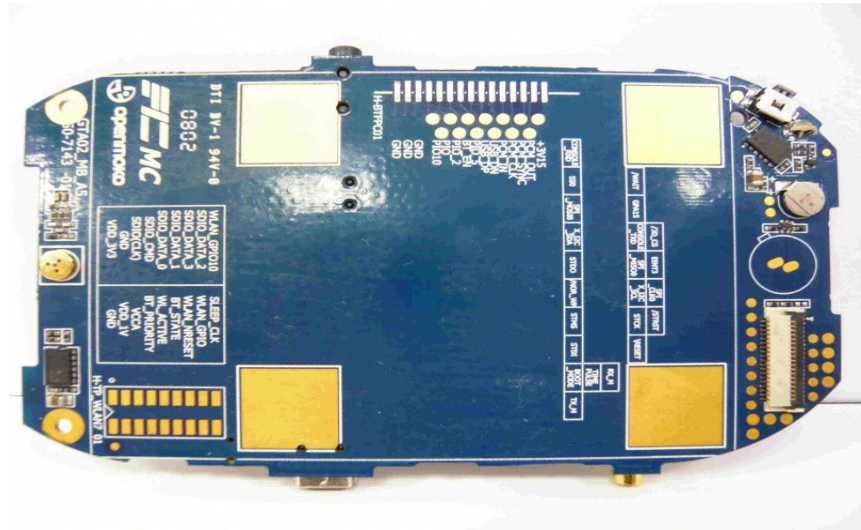
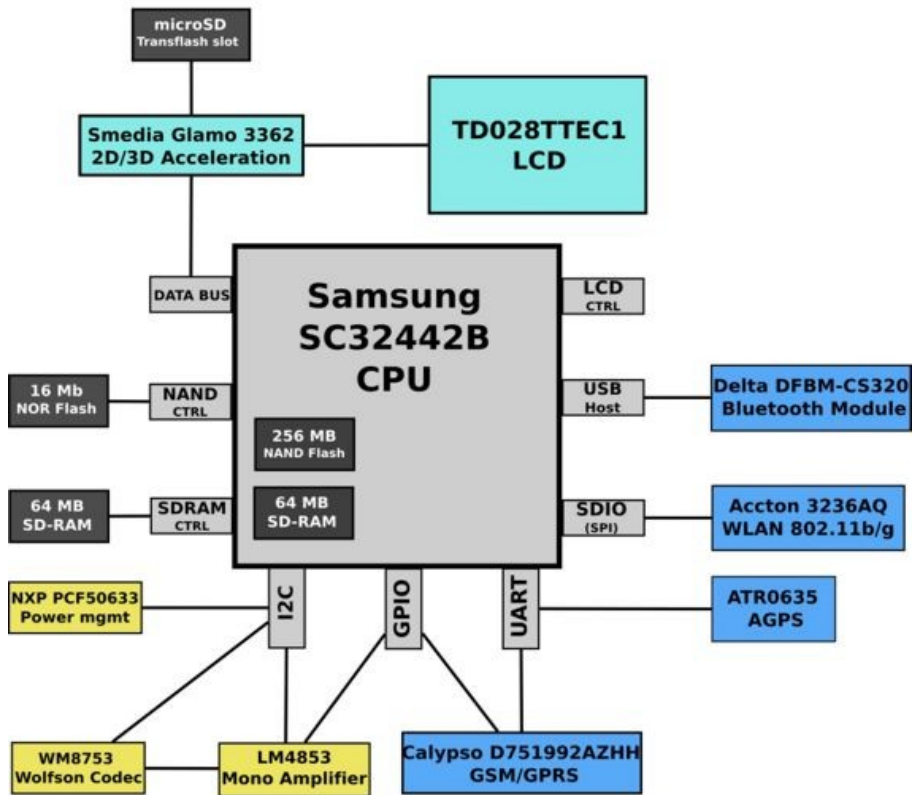


- Linux-based
- Touch screen
- Smart phone
- Aimed at general consumer use
- as well as Linux desktop users and software developers.

Open Source Phone Freerunner

Neo FreeRunner (GTA02) Simplified hardware component diagram

2008 Kim Hauritz, some rights reserved - CC: A-NC-SA

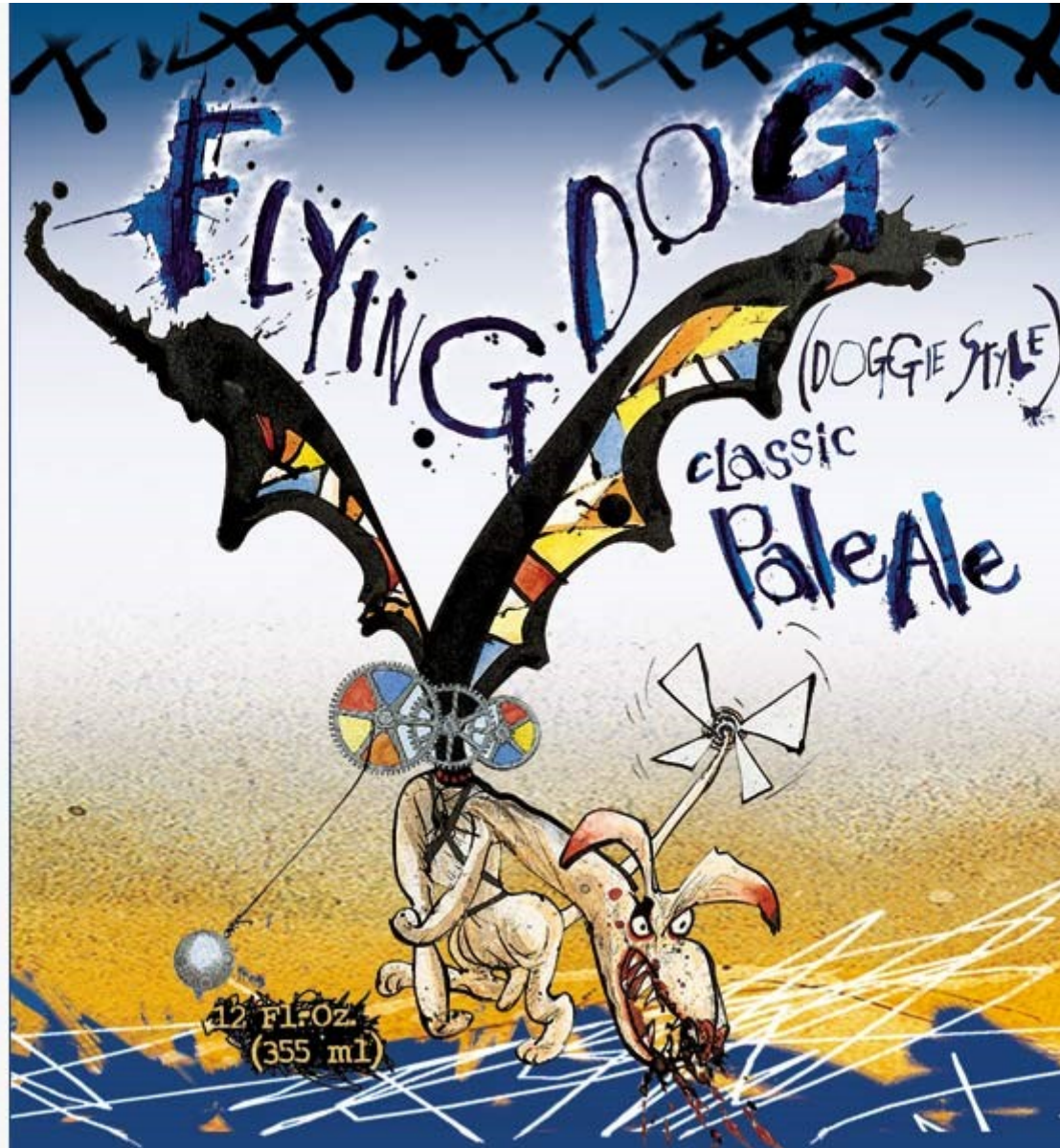


Open Source Phone Freerunner

- Openmoko
- Qt Extended (Qtopia)
 - Nokia-Trolltech
- Gentoo
- Debian
- Android (Google)

Open Source Beer

Open Source Beer Project



Open Source Beer Project

- <http://www.opensourcebeerproject.com/>
- “Flying Dog Brewery”
- Denver’s largest brewery and the second largest craft brewery in the state of Colorado.
- Sharing Beer recipes
- Collaborating on improving them.

Free Beer Project

- <http://freebeer.org/blog/about/>
- FREE BEER
is a beer which is free in the sense of **freedom**,
not in the sense of free beer.
- Conceived by
 - Copenhagen-based artist collective Superflex and
 - Students at the Copenhagen IT University,
- Applies modern **free software / open source** methods to a traditional real-world product: Beer

Free Beer Project



FREE BEER

FREE BEER (version 3.2) is an open source beer. FREE BEER is based on classic ale brewing traditions, but with added guaraná for a natural energy boost.

The recipe and branding elements of FREE BEER is published under a Creative Commons license (Attribution-ShareAlike 2.5). This license gives anyone the permission to use the recipe or create a derivative of the recipe to brew their own FREE BEER and to use and modify the design and branding elements. Anyone is free to earn money from FREE BEER, but they must publish the changes and results under the same license and credit our work.

Recipe, branding elements and more information at: www.freebeer.org

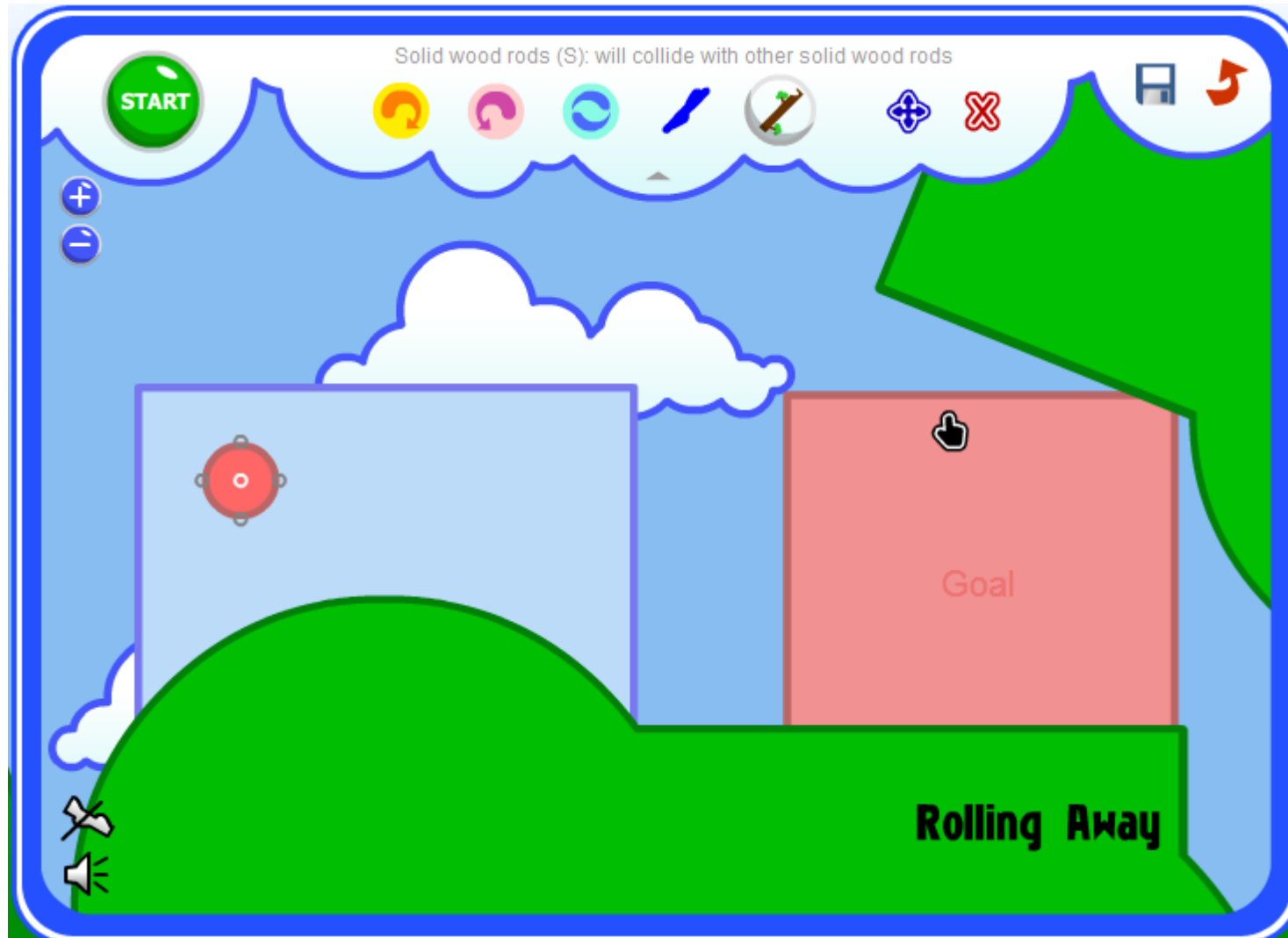
<http://freebeer.org/blog/recipe/>

- **VERSION 4.0**, SEPTEMBER 2008
Codename: **SKANDS**
- **INGREDIENTS**
 - MALT:
 - 3,8 kg Maris Otter (3,0 SRM)
 - 800 g Munich Malt (7,1 SRM)
 - 200 g Crystal Malt (66,0 SRM)
 - 100 g Brown Malt (95,4 SRM)
 - 80 g Carafa Special Type III (710,7 SRM)
 - HOPS:
 - 7.48 AAU Northern Brewer hop pellets (FWH.)
 - (25 g of 8.5% alpha acid)
 - 2.92 AAU Williamette hop pellets (7 min.)
 - (15 g of 5.5% alpha acid)

Open Source Games

Fantastic Contraptions

Fantastic Contraptions



<http://fantasticcontraption.com/>

Fantastic Contraptions

- Roaming user
 - 21 First levels
 - See other people's solutions
- Subscriber (\$10 one-time fee)
 - Save your solutions
 - See all existing levels (over 1000)
 - Create you own challenges (levels)

Fantastic Contraptions

- Quiz
 - “Rolling Away”
 - “Mind the Gap”
 - “Back and Forth” (Bonus, 2nd page)

Open Source Architecture

Open Source Architecture

What global housing crisis?

- **One billion** people live in abject poverty.
- **Four billion** live in fragile but growing economies.
- **One in seven** live in slum settlements.
- By 2030 it will be one in three.

Open Source Architecture

- Architecture for Humanity created the **Open Architecture Network**
- The first site on the Web to provide access to **open source** architectural plans.
 - embracing open-source technology
 - removing barriers to the improvement,
 - distribution, and
 - implementation of well-designed solutions,
- Ensure that communities receive innovative, sustainable and, dignified shelter.

Open Source Architecture

- Architectural Designs under **Creative Commons Licenses**
- Cameron Sinclair (TED Video) (min 15 & 19)
- Lack of
 - Repositories
 - Standard file formats
 - Design applications

Open Source Music

ccMixter

ccMixter

- Post sound tracks
 - Under **Creative Commons** licenses
- Remix them with other tracks
- Share the remixes
- Review / Rate
- Download and Redistribute Music
- All Legal !

ccMixer

- Drums
 - http://ccmixter.org/files/Fireproof_Babies/11757
- Synthesizer (think nuclear powered pipe organ)
 - <http://ccmixter.org/files/bmccosar/14737>
- Remix with Guitar
 - <http://ccmixter.org/files/Pitx/17154>
- Remix with vocals (Wired but disconnected)
 - <http://ccmixter.org/files/duckett/17456>

ccMixter

- A Capellas
 - <http://ccmixter.org/files/silviao/9063>
- Smooth remix
 - http://ccmixter.org/files/_ghost/12254
- Cinematix Mix
 - <http://ccmixter.org/files/DJDecay/9122>
- Soft Jazz (Good bye Mr. Rogers)
 - <http://ccmixter.org/files/cdk/12043>

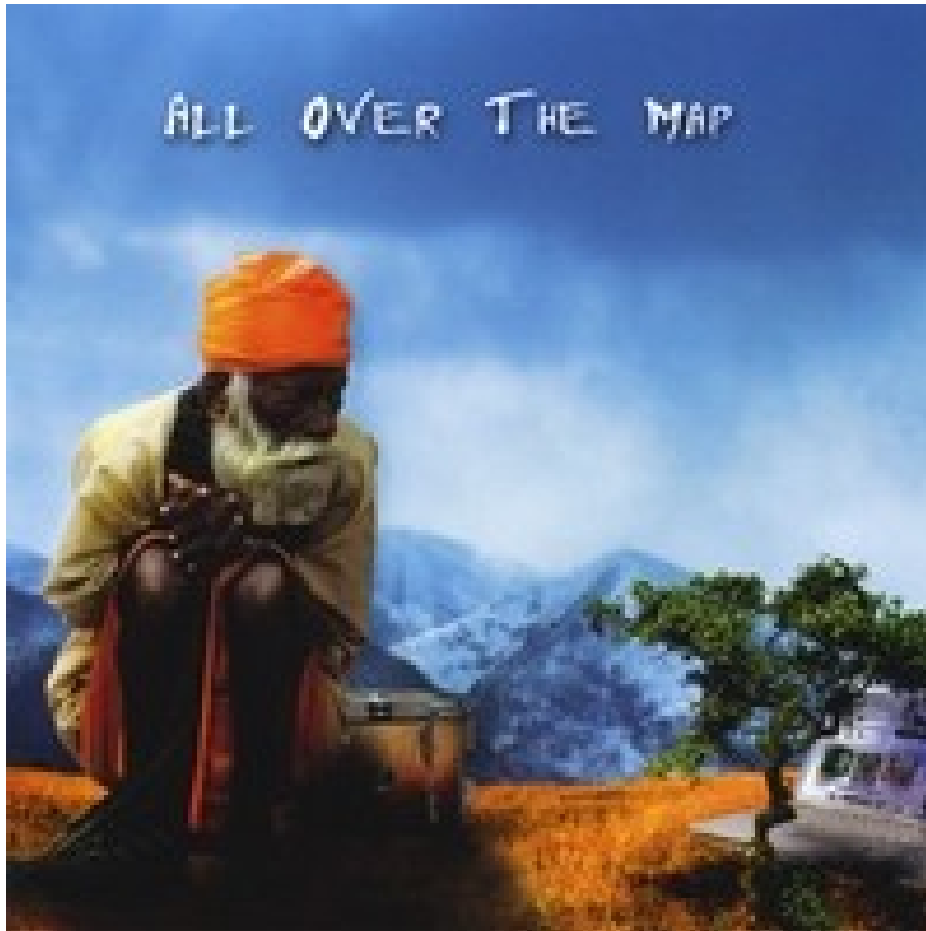
Kompoz

Kompoz



- Kompoz is a social workspace for musicians and songwriters.
- Record with GarageBand, Pro Tools, etc.
- **Upload** your tracks
- Invite others to **collaborate** on your song idea

Kompoz



- Music CD created by **45 musicians**,
- Who have **never** met,
- Brought together in Kompoz.com.
- Working from their homes all over the map
- These artists are defining **the future of music.**

Kompoz

- “The Fall”
- <http://cdbaby.com/mp3lofi/kompoz-04.m3u>
 - Guillaume Muhlmann (Metz, France): Guitar
 - Karl Knutson (Naperville, IL, USA): Vocals, Lyrics
 - Pacal Lopez (France): Keyboards
 - Matt Relstab (Portland, OR): Guitar
- Creative Commons License

Kompoz

- “Down to the River”
- <http://cdbaby.com/mp3lofi/kompoz-11.m3u>
 - Raf Fiol (Miami, FL, USA): Lyrics, Rhythm Guitars
 - Tommy Hall (Miami, FL, USA): Lead Guitar
 - Karl Knutson (Naperville, IL, USA): Vocals
 - Bjorn Pehrson (Stockholm, Sweden): Bass
 - Jay Schankman (Kingston, OH, USA): Keyboards
 - John Wooten (Kansas, USA): Drums

Slice the Pie

Slice the Pie

- Artists can raise money directly from their fans to professionally record albums
- Fans can become emotionally and financially involved at all levels of the music industry
 - Scouting
 - Breaking
 - Investing in and
 - Influencing real artists



Slice the Pie

- Investors can
 - Gamble on
 - Trade in and
 - Profit from the success of these artists
- Artists who secure finance
 - Pay Slicethepie a small royalty on album sales but
 - Keep all their copyright and publishing rights.



Open Source Movies

Elephants Dream

Elephants Dream



Elephants Dream

- The world's **first** open movie
- Made entirely with **open source** graphics software such as Blender, and
- With all production files freely available to use however you please, under a **Creative Commons** license.

Elephants Dream

- Created by the **Orange Open Movie Project** studio in Amsterdam during 2005/2006
- Bringing together a diverse team of artists and developers from all over the world

Big Buck Bunny

Big Buck Bunny



Big Buck Bunny

- **License information**

The results of the **Peach open movie** project has been licensed under the Creative Commons Attribution 3.0 license.

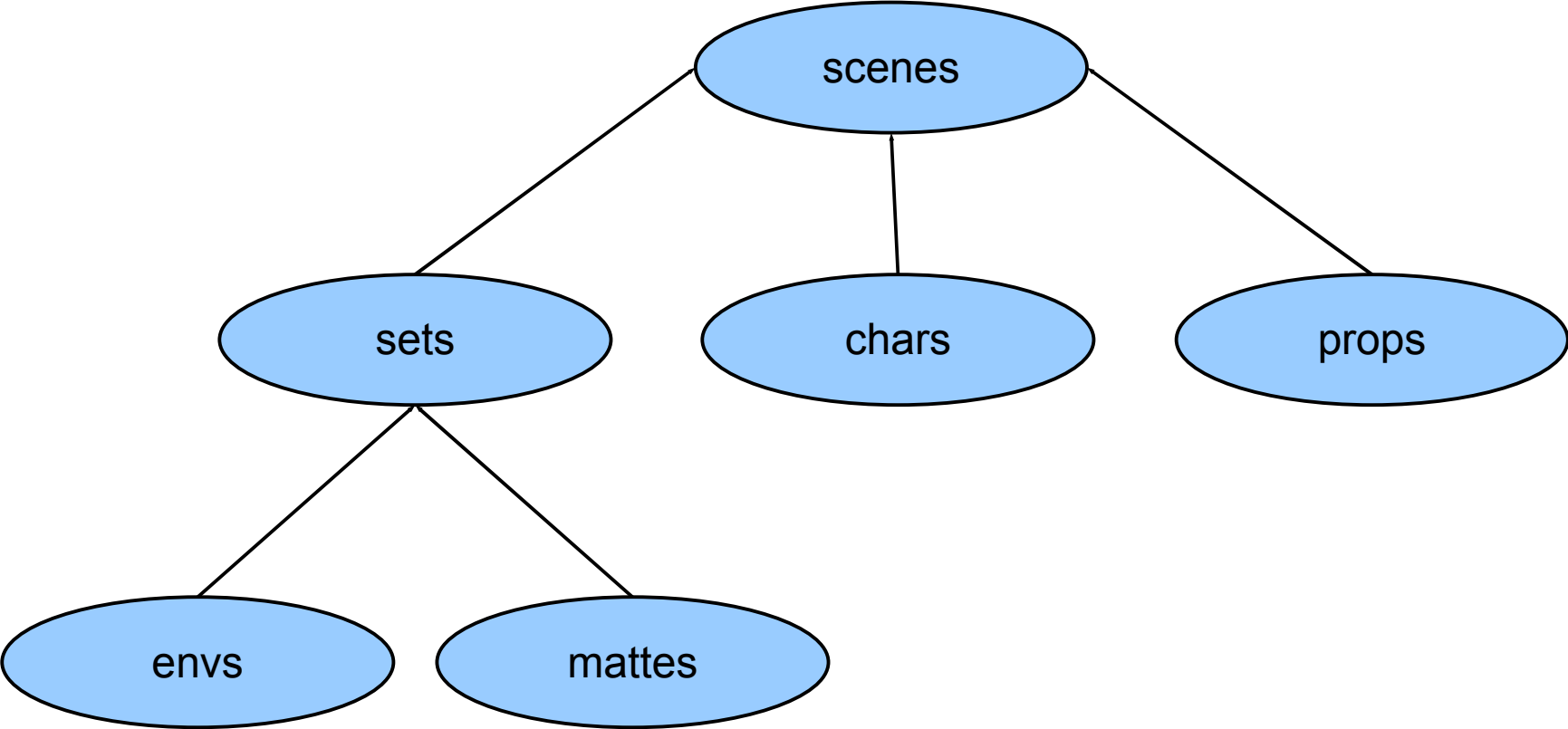
- This **includes all the data** published online and on the DVDs, and all of the contents on their website.
- If any content on this site is not licensed as such, it will be clearly indicated.

Big Buck Bunny

- You can **freely reuse** and **distribute** this content, **also commercially**, for as long you provide a proper attribution.
- The **attribution** is:
 - a) If you redistribute or screen or broadcast the movie itself: **include the entire credits scroll.**
 - b) In all other cases, attribute it as:

(c) copyright Blender Foundation
www.bigbuckbunny.org

Big Buck Bunny – Production Files



Big Buck Bunny – Production Files

- Create a new Blender scene AND save the file
- Delete the default cube object (select and X)
- View -> Front
- Append the scene file from
 - production/chars/
FlyingSquirrel.blend/Group/FlyingSquirrel
 - Select: Relative Paths & Link, then click on
 - Load Library

Big Buck Bunny – Production Files

- The character will not be visible yet.
- Shift + a
 - Add -> Group -> FlyingSquirrel
- Correct Orientation
 - View -> Side
 - Hit “r”
 - Hold CTRL and move mouse until it is up-right
 - Left click to let it go.

Big Buck Bunny – Production Files

- Select Wireframe Visualization
- Make it local (or Proxy)
 - Ctrl+ Alt + p
 - Select FlyingSquirrelRig
- Select “Pose” mode
 - Select any bone (right click on it)
 - Move it around (mouse)
 - “r” rotate in one axis
 - “r r” rotate in two axes

Big Buck Bunny – Production Files

- More instructions on the Tutorials in the DVD
- Additional Tutorials in the “Help” menu.
- Remember to give credits to the **Blender Foundation** in order to comply with the License.

End