

Gnome and KDE Interns Showcase



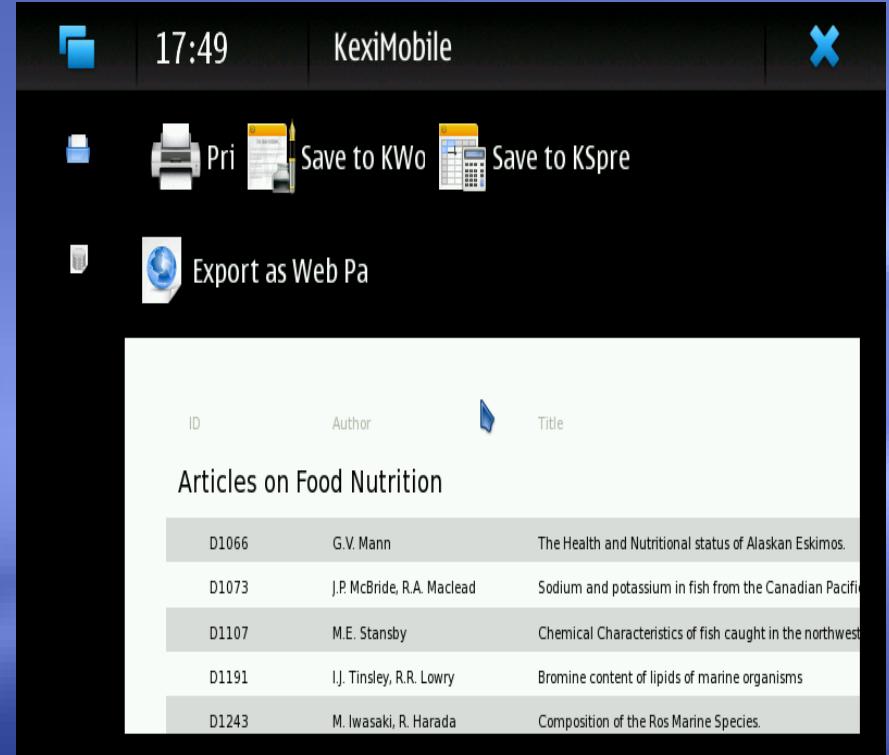
KDE PROUDLY PRESENTS

SEASON OF KDE 2011-LET THE CODING BEGIN

SHREYA PANDIT
NEW DELHI
INDIA



KEXI-INTEGRATED DATA MANAGEMENT FOR THE CALLIGRA SUITE



D1066	G.V. Mann	The Health and Nutritional status of Alaskan Eskimos.
D1073	J.P McBride, R.A. Maclead	Sodium and potassium in fish from the Canadian Pacific
D1107	M.E. Stansby	Chemical Characteristics of fish caught in the northwest
D1191	I.J. Tinsley, R.R. Lowry	Bromine content of lipids of marine organisms
D1243	M. Iwasaki, R. Harada	Composition of the Ros Marine Species.

**KEXI-A FEATURE RICH OPEN-SOURCE
DATABASE MANAGEMENT APPLICATION**



April 27, 2011

Season of KDE, 2011.. My Journey with Kexi starts

The Task: Develop A web

Browser Widget Compatible
with Kexi Forms, Kexi Reports
and Calligra Words.



Mentor: Jaroslaw Staniek

It would provide all features of
Web navigation from within Kexi
itself..

Coding began... so did doubts and
numerous doubt clearing sessions :)
And then.....



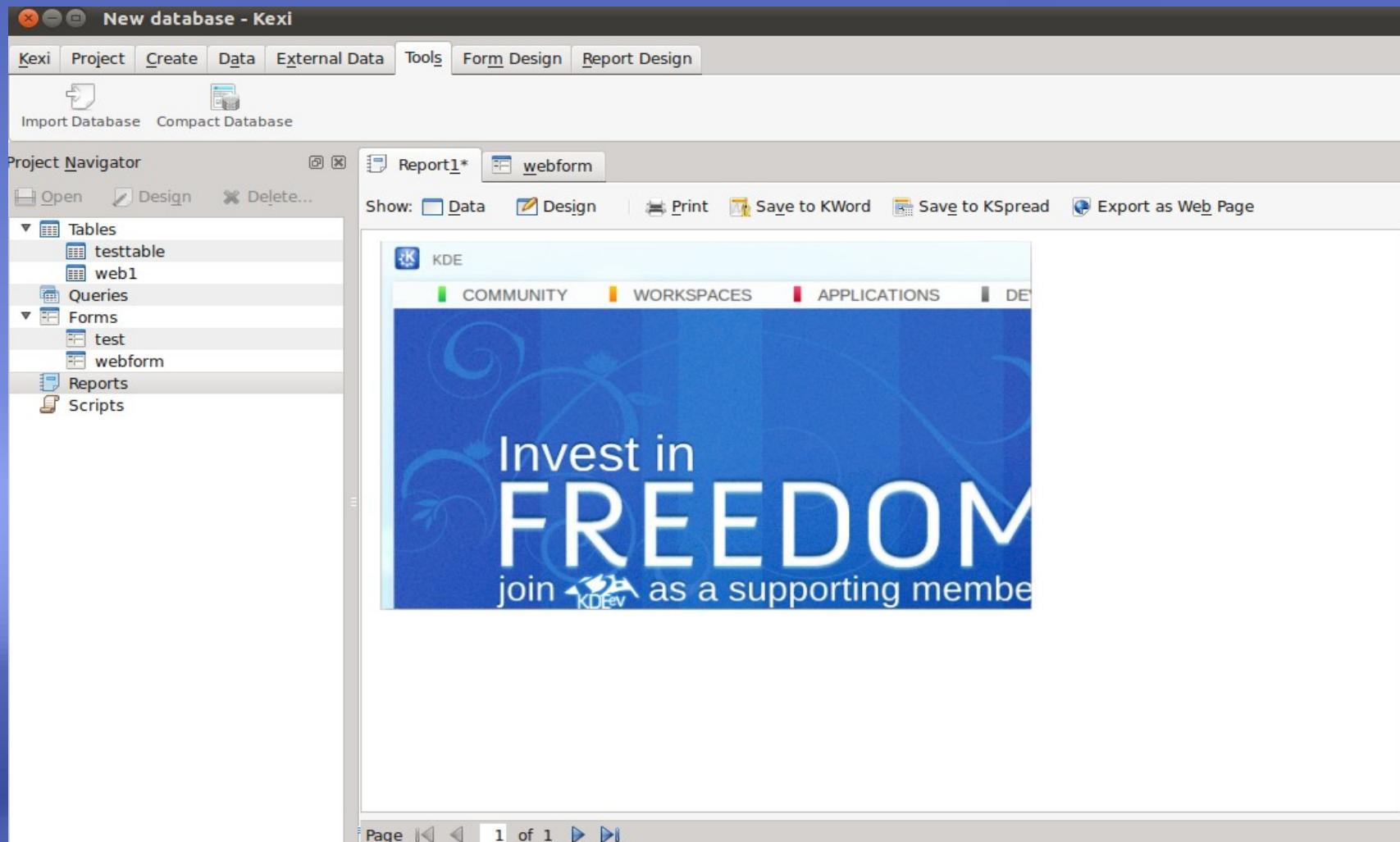
Desktop
summit

LO BEHOLD....!!

WORKING WIDGET IN FORMS INTERFACE



ON ITS WAY: WEB IN REPORTS!





Braille Concept on Gcompris

Srishti Sethi

Mentor : Bruno Coudoin



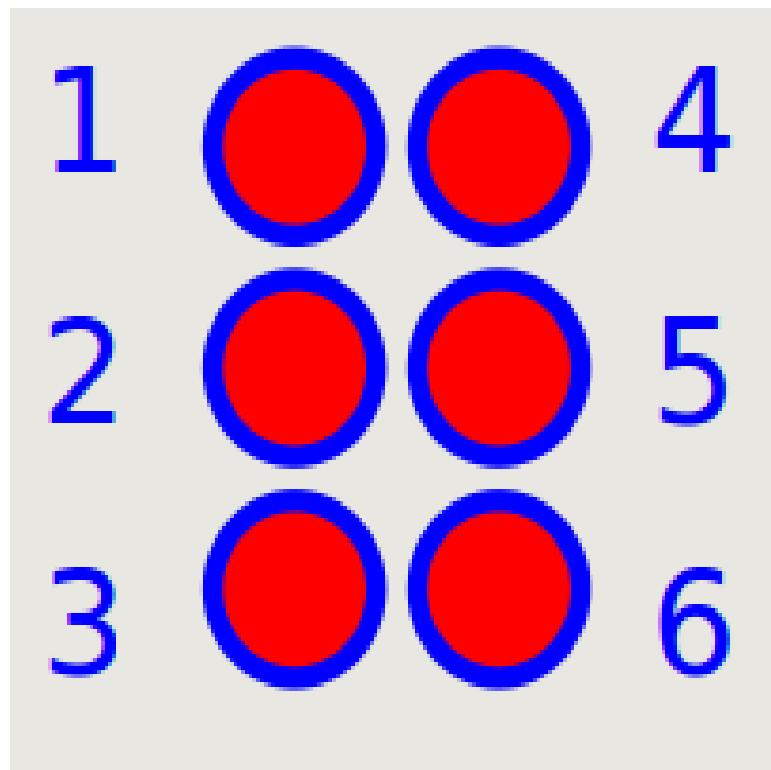


Great ! What is GCompris ?





Braille + GCompris = ?





Toolkits

- **GCompris Python API**
- **Python**
- **Inkscape**
- **PyGooCanvas**
- **PyGtk**



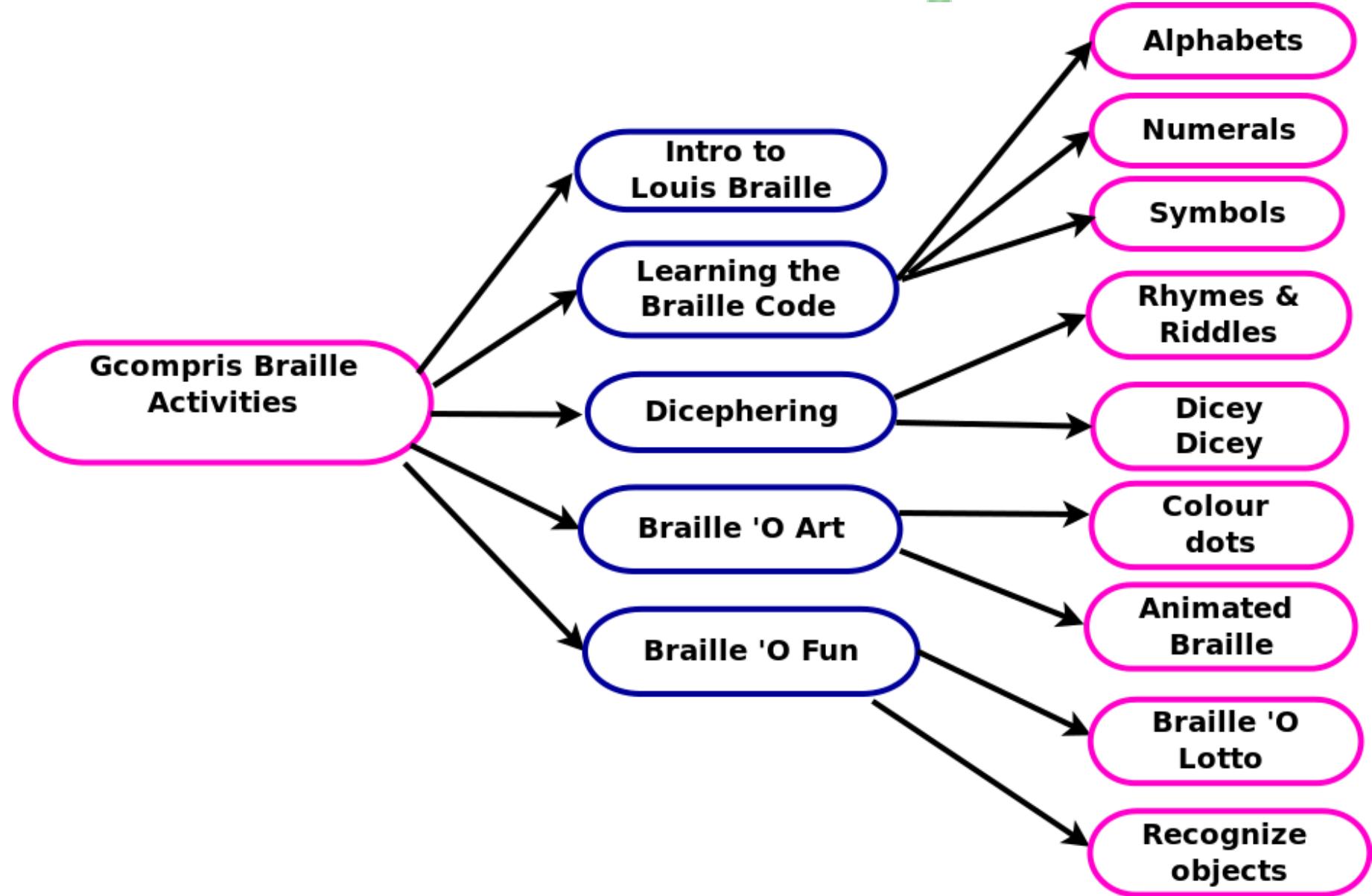
Braille API

```
BrailleChar(self.rootitem,
           x_location = 100,
           y_location = 200,
           width = 70,
           letter = 'C'
           DOT_ON = 0X0000FFFFL
           DOT_OFF = 0X0000FFFL,
           COLOR_FILL = "#FF0000",
           COLOR_STROKE = "#0000FF",
           display_letter = "True",
           clickable = "True",
           BRAILLE_TILE = "False,
           callback = None)
```

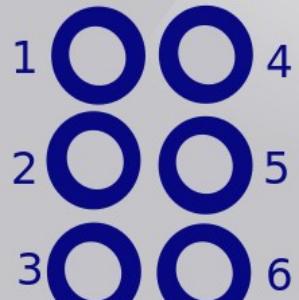
Braille Chart

A	B	C	D	E	F	G	H	I	J
K	L	M	N	O	P	Q	R	S	T
U	V	W	X	Y	Z				
#	0	1	2	3	4	5	6	7	8
+	-	*	/						9





Braille : Unlocking the Code



A system of writing for the blinds that uses characters made of raised dots.

The braille cell is composed of 6 dot cells organized in form of two vertical columns with 3 dots {1,2,3} side by side on left and 3 dots side by side on right {4,5,6}

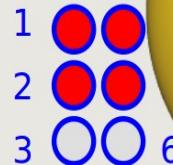


Finished reading braille ! Now click me and try reproducing braille characters



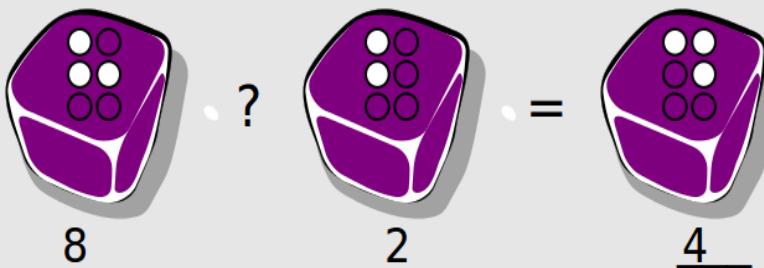
Click on the dots in the correct order to produce letter G

Braille Cell



G

Dicey - Dicey



Choose an operator to indicate the question mark



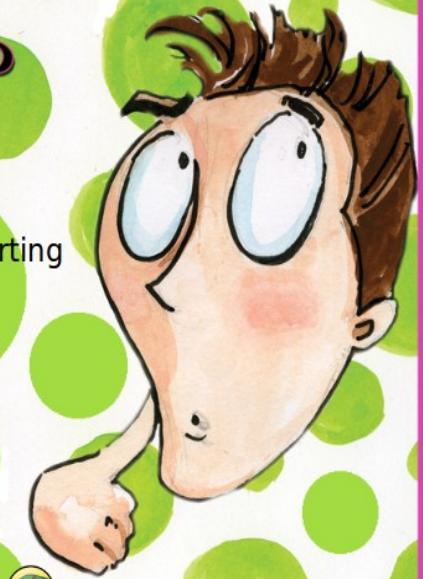
Can you solve this

Riddle?

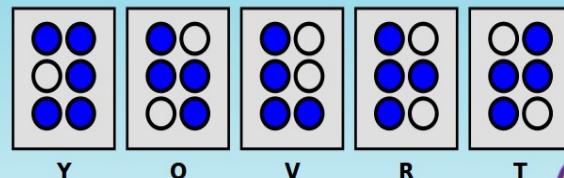
What falls from the sky without hurting your brain?



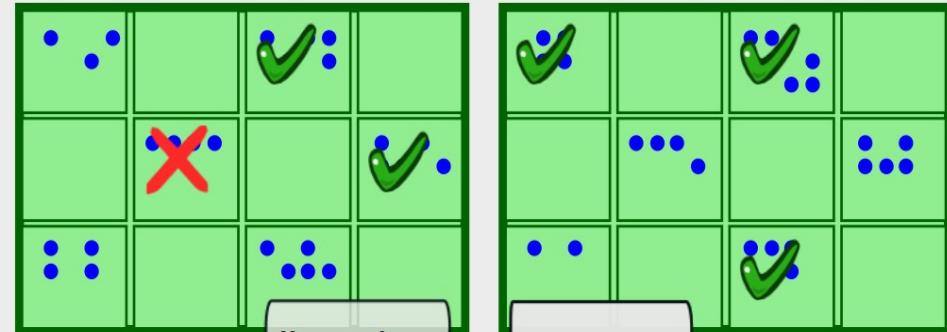
Type your answer here



YHVRT



Y Q V R T



PLAYER 1

PLAYER 2

Check Number

22

I don't have
this number

PLAYER 1



Lotto Master



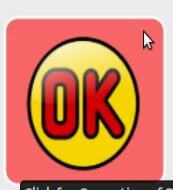
I don't have
this number

PLAYER 2

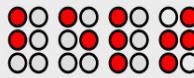
Generate Number

Braille these Objects

Category : Accessories



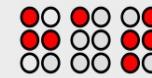
[Click For Correction of Braille Object](#)



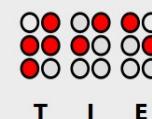
B E L T



R I N G



H A T

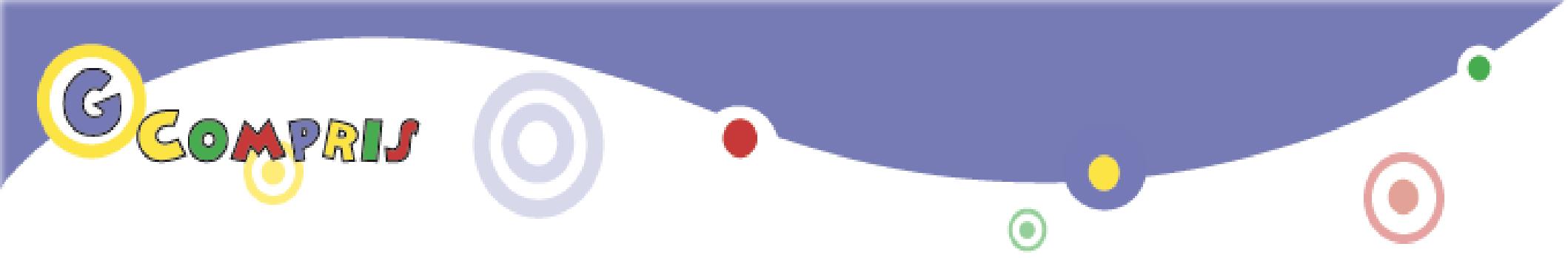


T I E



1809

Born January 4th at Coupvray near Paris in France.



A decorative background graphic at the top consists of a purple wavy line with several colored circles (red, yellow, green) scattered along it, resembling a path or a trail.

Thank You !

Srishti Sethi

srishakatux@gmail.com

SrishAkaTux on #GCompris #gnome-women

http://live.gnome.org/SrishtiSethi_GCompris_Braille

Improving the user experience in Kiten

Daniel E. Moctezuma



Kiten

Japanese reference and study tool



KDE Education



Found 67 results - Kiten

File Go Search Settings Help
Back Forward Filter Out Rare Radical Selector Kanji Browser Match Anywhere Any

映画

From Dictionary: edict

映画 えいが (n,adj-no) movie; film

映画スター えいがスター (n) film star

映画音楽 えいがおんがく (n) film music

映画化 えいがか (n,vs) making (book) into film; making screen version

映画会 えいがかい (n) film society; movie club

映画会社 えいががいしゃ (n) movie company

映画界 えいがかい (n) the film world

映画学 えいががく (n) film study

映画学校 えいががっこう (n) film school

映画監督 えいがかんとく (n) movie (film) director

映画鑑賞会 えいがかんしょうかい (n) film festival

映画館 えいがかん (n) movie theatre (theater); cinema

映画狂 えいがきょう (n) movie fan; cinema enthusiast

3

Improvements



Improvement #1

Better deinflection system



Deinflection = conjugated verb

Input: “*went*”

Output: *meaning of “to go”*



Improvement #2

Better searching/sorting



Word type

- Any
- Verb
- Noun
- Adjective
- Adverb
- Prefix
- Suffix
- Expression

Match type

- Exact
- Beginning
- Ending
- Anywhere

Improvement #3

Kanji Browser



kitenanjibrowser

File Settings Help

Kanji List About 図

Grade 2

No stroke limit

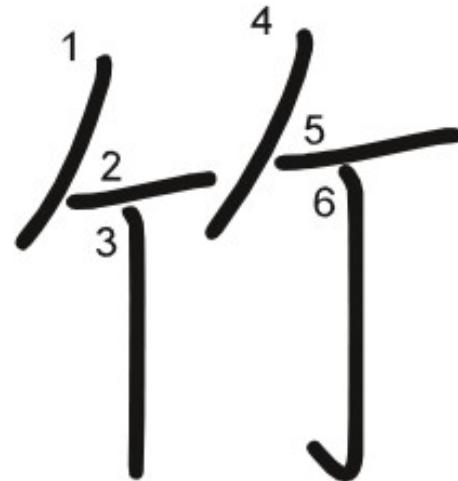
刀 才 万 丸 工 弓 戸 方 止 毛 今 元
公 内 分 切 父 牛 午 友 太 少 引 心
母 兄 冬 北 半 古 台 用 矢 外 市 広
肉 自 色 行 西 每 池 交 会 光 合 同
回 地 多 寺 米 当 羽 考 来 角 言 谷
汽 走 体 何 作 近 里 **図** 声 壳 社 麦
弟 形 明 東 步 京 画 長 門 直 国 知
夜 妹 姉 岩 店 思 茶 星 春 曜 計 活
海 点 前 南 風 食 首 秋 科 室 後 時
書 記 通 原 夏 馬 高 家 紙 帰 弱 船

160 kanji found



File Settings Help
Kanji List About 竹

Grade: 1
Strokes: 6



Onyomi: チク

Kunyomi: たけ

In names: たか

Meaning: bamboo



Documentation

OPW Intern: Julita Inca (yulys)

Mentor: Phil Bull (philbull)

© 2011



Projects I've been Involved in



Writing End-User Documentation



Tools used to Accomplish Planned Tasks



<p> to write the topics</p>

\$git push origin master

Nth Report OPW



Bug reporting



File a Bug



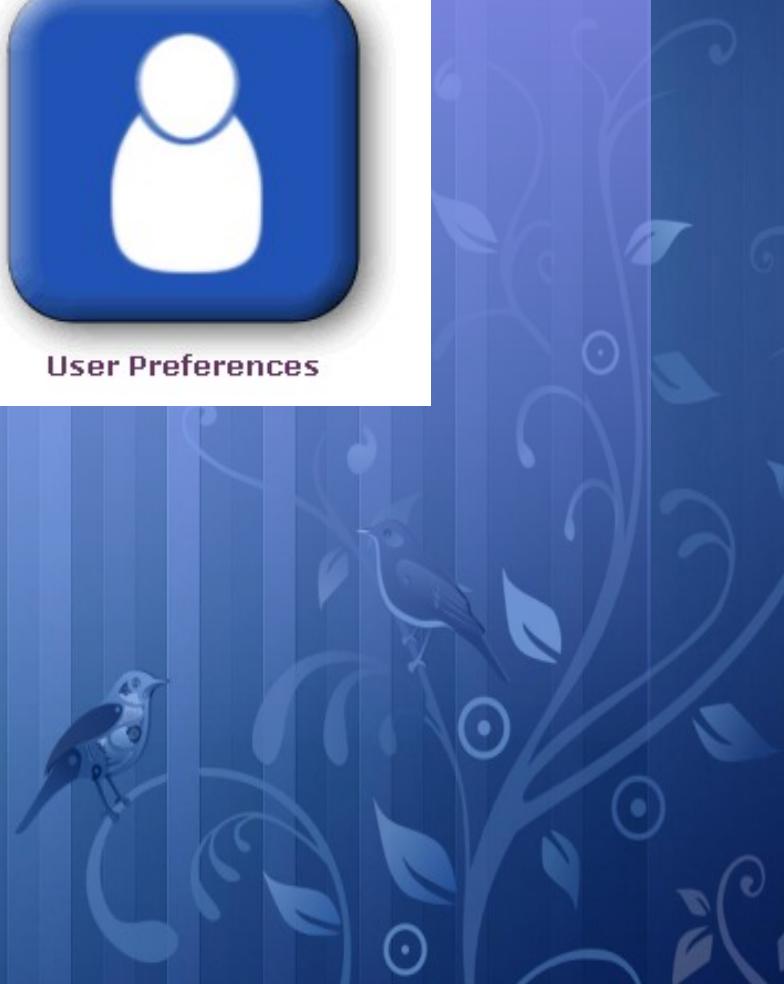
Search



User Preferences



Desktop
summit



Structure of each project

TASKs

PROBLEMs

QUESTIONs/
CONCERNs



Desktop
summit



Where does inspirations come from?

Trying every single event and all the options the app provides

Searching in Ubuntu and Fedora forums, GNOME and Red Hat Bugzilla

Explaining technical words or technologies used by the application



Desktop
summit



Results

	Files	Commits
Desktop	7	9
Cheese	32	27
Evolution	37	7

<https://gitorious.org/cheese-docs/cheese-docs>

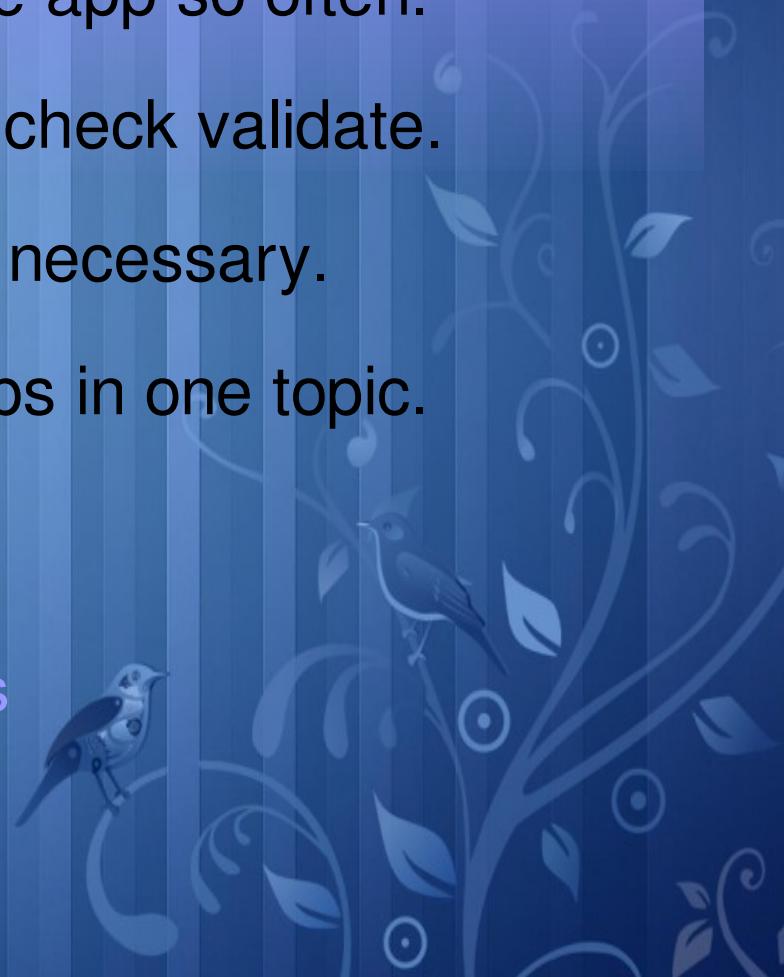


Recommendations

- Use the word 'folder' instead of 'file'.
- Try not to use the name of the app so often.
- Validate the writing with yelp-check validate.
- Use notes only when it is necessary.
- Do not combine lists and steps in one topic.



Thanks



KMail, Kopete and Dolphin accessibility

José Millán Soto
[`<fid@gpul.org>`](mailto:<fid@gpul.org>)



KMail, Kopete and Dolphin accessibility

- qt-at-spi: <http://gitorious.org/qt-at-spi>
- Mailing list: kde-accessibility@kde.org
- #kde-accessibility on freenode



Teo Mrnjavac
Amarok Mobile Foundations



Amarok Mobile Foundations

for Tablets and Handsets

- The ultimate music player for **mobile** devices
- A **new** player based on Amarok technology
- Initially targeting **MeeGo**
- Developing core functionality, UI will be done later
- UI will be based on QML, might be more than one
- Can already play **music!**
- Working on the collection (**Tracker**)



Empathy / Telepathy OTR for XMPP

João Paulo Rechi Vita
jprvita@gmail.com



Off-the-Record

- Secrecy
- Peer authentication
- Deniability
- Perfect forward secrecy
- De-facto standard



Empathy / Telepathy

- GNOME
- Ubuntu / Fedora
- MeeGo
- More users increases everyone's privacy



Ciphered text

Plain text:

“Hello World!”

Ciphered text:

“?0TR:AAIDAAAAAAEAAAABAAAwBJQU/txV5/QAErzYjUzm8LvC5CPR2dJMTSW4as
5NIgPHCjSGJgNroSwqj04UJuQ4fiPYDpjXspuQ64fKy+I4YUHnh6Mb6WhAoWt7MJ2
5ZX5UlDoycv84W+a6At119n8oxvzT/ki51QPsIqP0l+A8wG9rux9ZI7VSG91ApIVR
rxwcM9oMeIlV7HorTm6p1b41TNLJmb/gsTLnYkqhzwNsDTxvn95Tb8IWJfVwkWU8
GfPowghaLFkBhYevdBf2tiJwAAAAAAAAABAAAADcLE8qcp8fALvj/+VD1hzmk5SSN
ISmLGc2rliyCs9G9dTAAAAAA=.”



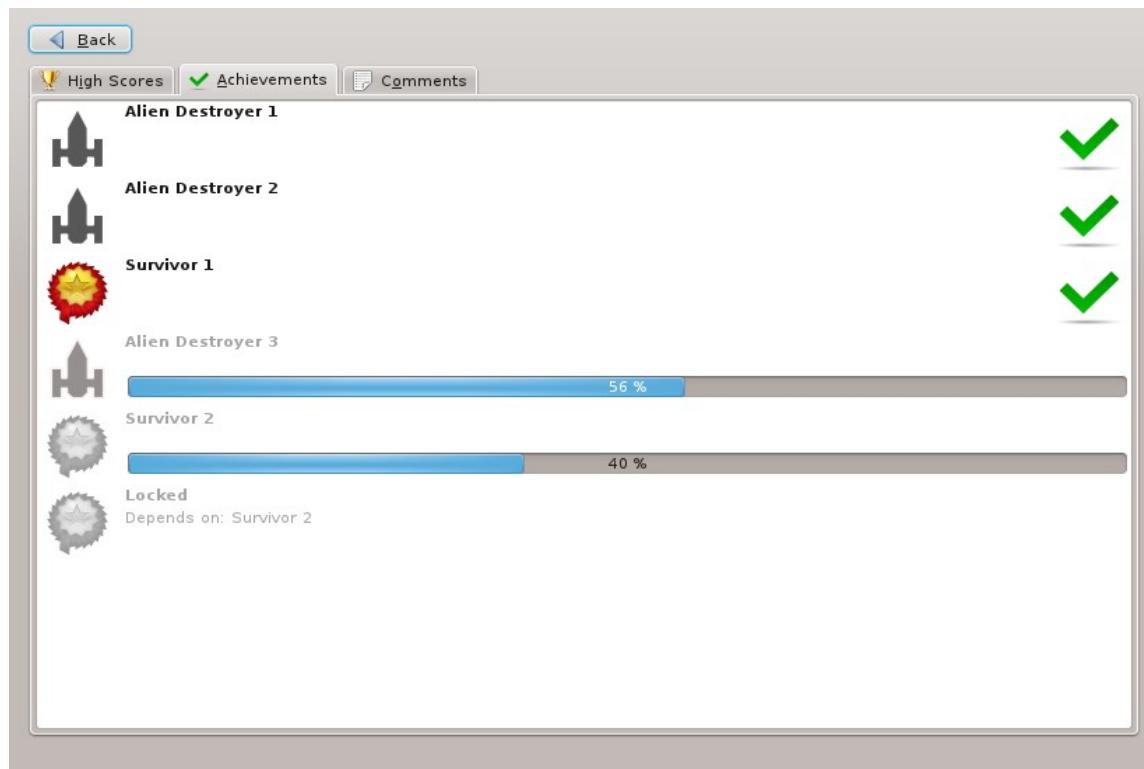
Gluon: Statistics and Achievements

Felix Rohrbach



Tasks

- Easy way to collect statistical data
- Achievements on top of statistics
- Interfaces for player applications



Current State

- Statistics: Statistic, BooleanStatistic, TasksStatistic, MultiScoreStatistic
- Achievements: minimum score, threshold value
- TasksStatistic: define tasks like “3-7, 18”



Testing

- kde:gluon.git, branch “achievements”



Richard Schwarting - GXml
A GObject DOM Level 1 Core API



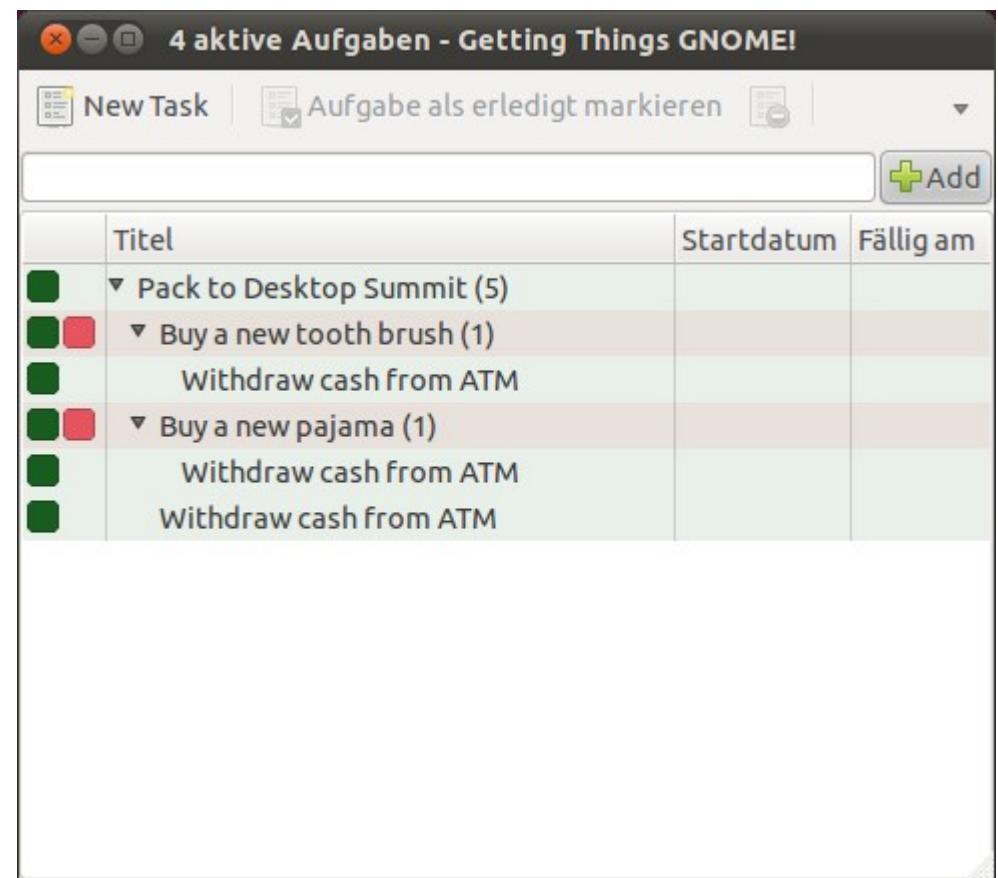
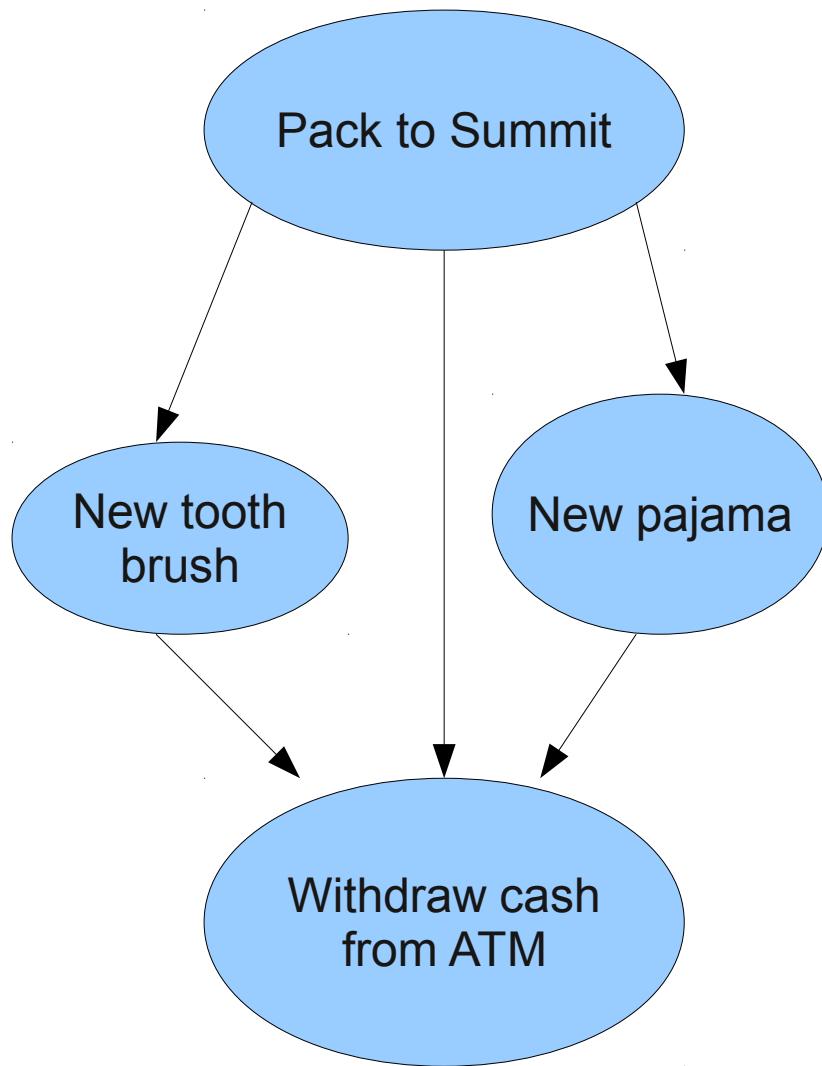
GXml

- DOM Level 1 Core
- GObject
- Vala
- Bindings
- Documentation and Testing
- Porting libgdata



Izidor Matušov

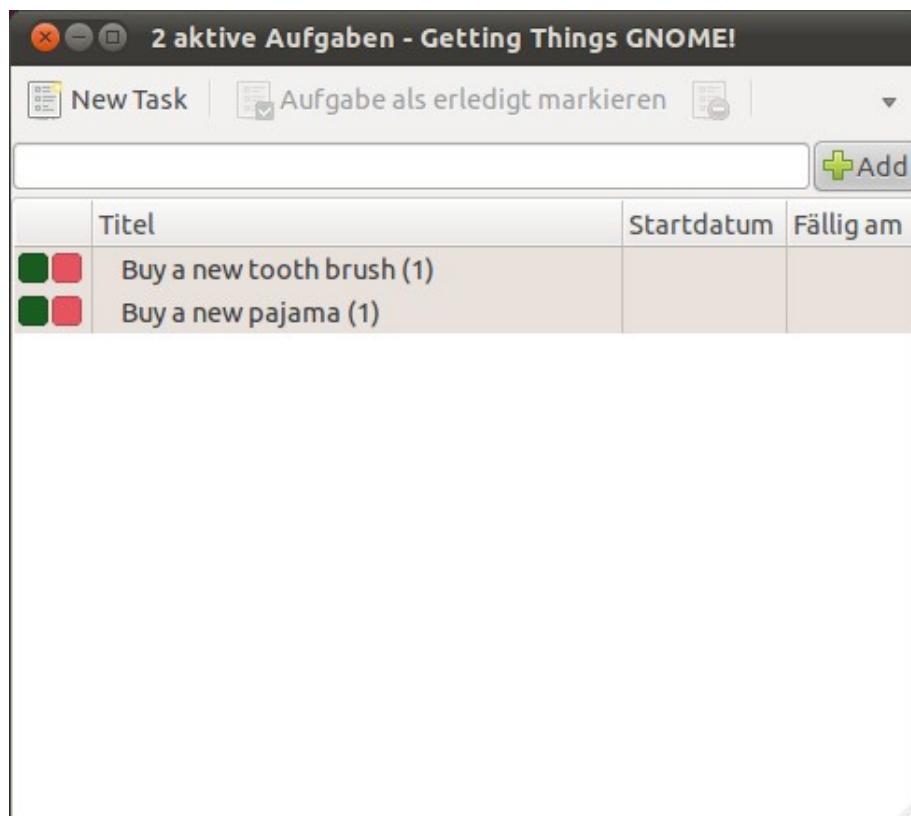
Getting Things GNOME! & LibLarch



Izidor Matušov

Getting Things GNOME! & LibLarch

```
def filter(task):
    return "@shopping" in task.get_tags()
```



Izidor Matušov

Getting Things GNOME! & LibLarch

Do you want to know more?

<http://tinyurl.com/liblarch>



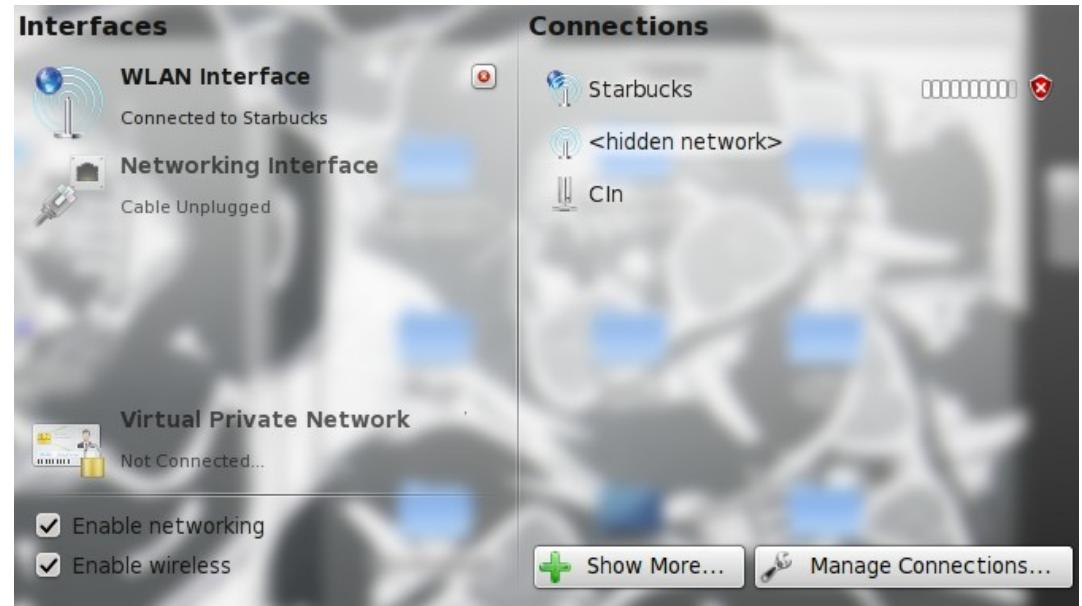
Daker Fernandes

Plasma Components

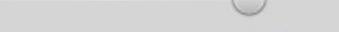
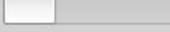
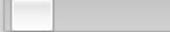
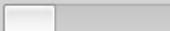


Plasma Components

```
import QtQuick 1.1      import  
Qt.components 1.0  
  
Button {  
    iconSource: "plus.png"  
    text: "Show More"  
}
```



Plasma Components

Components	Check Box	Busy Indicator	Slider	Scroll Bar	Text Fields
Button	<input type="checkbox"/> Check Box 1		Color Selector Red  Green  Blue  Progress Bar Horizontal    Vertical   		Text Area Username: <input type="text" value="login"/> Password: <input type="password"/> Disabled Text Area <input type="text" value="Disabled Text Area"/> Text Area Lorem ipsum et d Disabled Text Area <input type="text" value="Disabled Text Area"/>
Current Font					
Icon Button					
Image Button					
Radio Button	<input type="radio"/> RadioButton				
Image Row					
Button Row					
Image Column					
Button Column					
Image Item					
Alice					
Bob					

Plasma Components

Finish Desktop Components

Mobile Components

KDE Components

Anjuta as an AVR environment

Lucas van Dijk



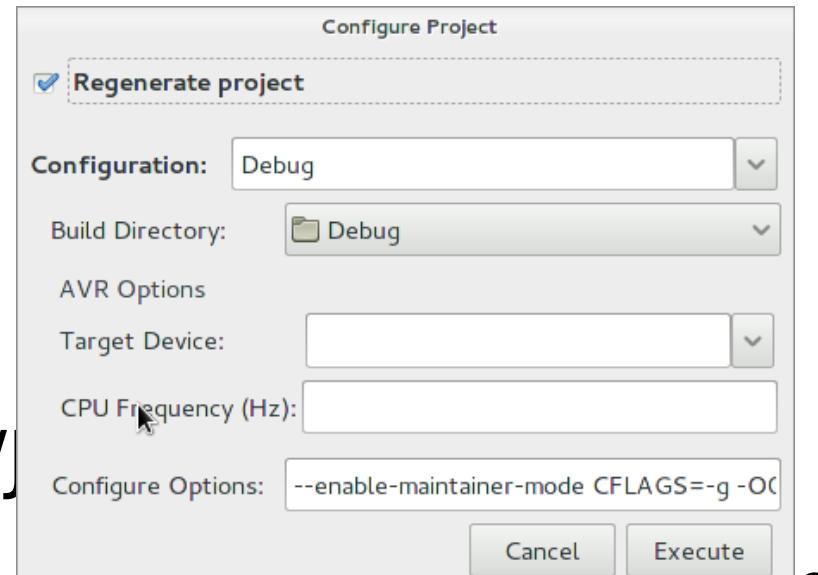
Who am I?

- Student electrical engineering, in the Netherlands
- First big C project, after simple course at school
- Although experience with PyGTK



The Project

- AVR Studio like environment using Anjuta as base
- This summer:
 - Project wizard
 - Compiling your project
 - Debugging using simulator/JTAG
 - Hopefully frontend for avrdude to flash your programs
- Future:
 - Assembly support
 - Better register viewer

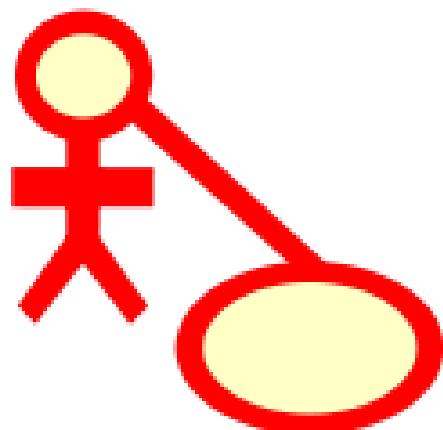


Thanks for listening!

Twitter: lucasvandijk (dutch)
Email: info@return1.net



- **Project:** Umbrello UML Modeller QGraphicsView Port.
- **Organization:** KDE.
- **Student:** Camila Ayres.
- **Mentor:** Jonathan Riddell.
- **Location:** Porto Alegre, Rio Grande do Sul, Brazil.



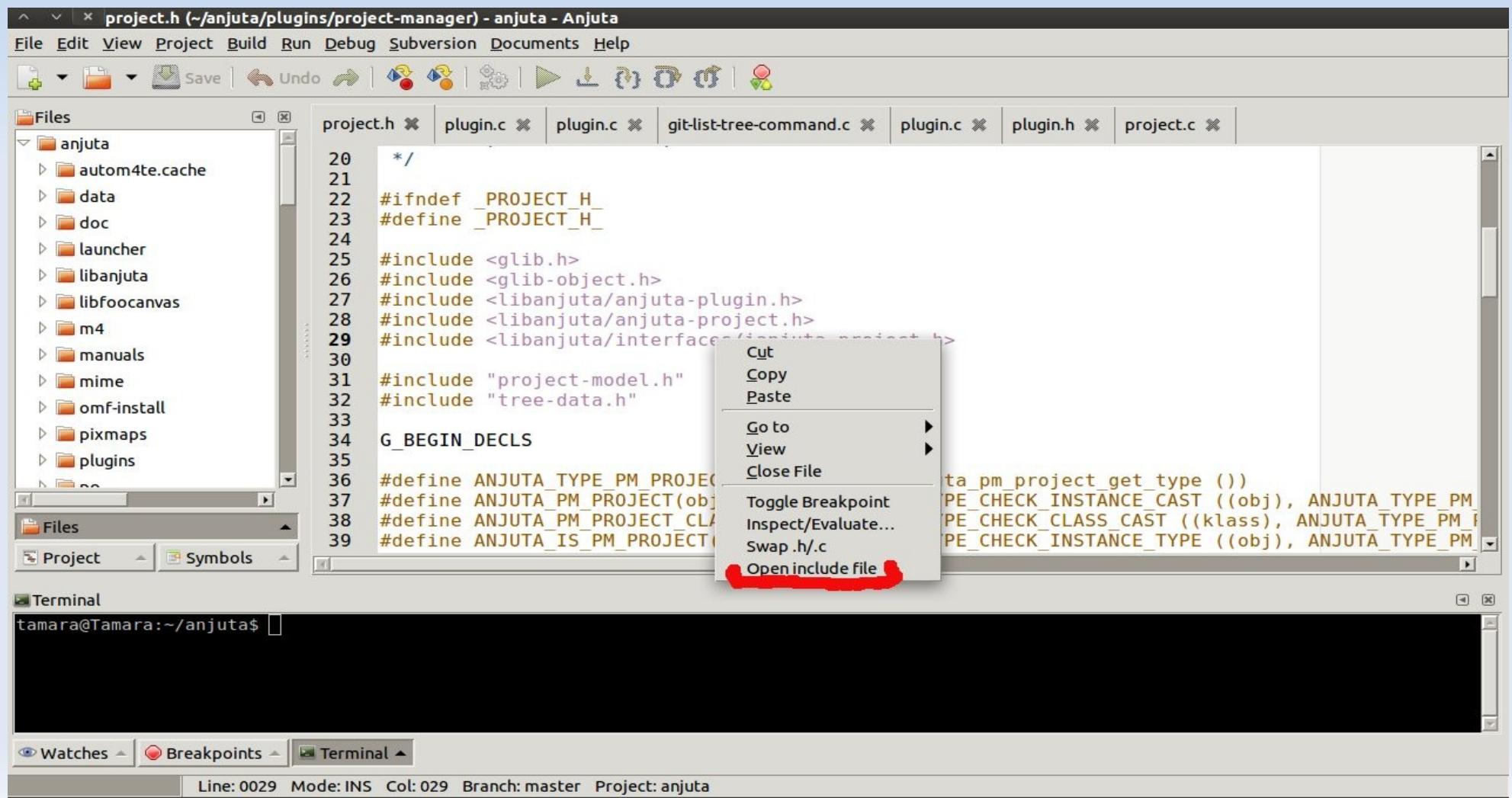
Fast keyboard operation for Anjuta



Tamara Atanasoska

Work done

- SVN and GIT patches for icons not updating
- Open include files, open file at line



Making GTG Backend Friendly

Madhumitha Viswanathan
Mentor : Luca Invernizzi



Getting Things GNOME

<http://gtg.fritalk.com>



Why Backends?



Google Tasks

- REST/Client Libraries
- Python Library
- Tasklists and Tasks

<http://code.google.com/apis/tasks/>



Google Tasks

GET:

```
tasks = service.tasks().list(tasklist='@default').execute()
```

POST:

```
task = {  
    'title': 'New Task',  
    'notes': 'Please complete me',  
    'due': '2010-10-15T12:00:00.000Z'  
}
```

```
result = service.tasks().insert(tasklist='@default', body=task).execute()
```



Google Calendar

- GData Client Library

http://code.google.com/apis/calendar/data/2.0/developers_guide_python.html



Tracks

- REST API

http://tracks.tra.in/integrations/rest_api



Thank You



Making GCompris sound more Musical

Karthik Subramanian

Twitter : [@yeskarthik](https://twitter.com/@yeskarthik)
IRC : [yeskarthik](#)
Mail : me@yeskarthik.in
Mentor : Bruno Coudoin



What is GCompris?

**GCompris is an educational software
which offers different activities
to kids from 2 to 10 years old.**



Motivation

~ Music ~

~ Bobby McFerrin ~

~ Kids ~



Activities

Rhymes



Screenshot

Twinkle Twinkle little star



Twinkle, twinkle, little star
How I wonder what you are.
Up above the world so high,
Like a diamond in the sky.
When the blazing sun is gone,
When he nothing shines upon,
Then you show your little light,
Twinkle, twinkle, all the night.

Then the traveller in the dark,
Thanks you for your tiny spark,
He could not see which way to go,
If you did not twinkle so.

In the dark blue sky you keep,



Activities

Amadeus

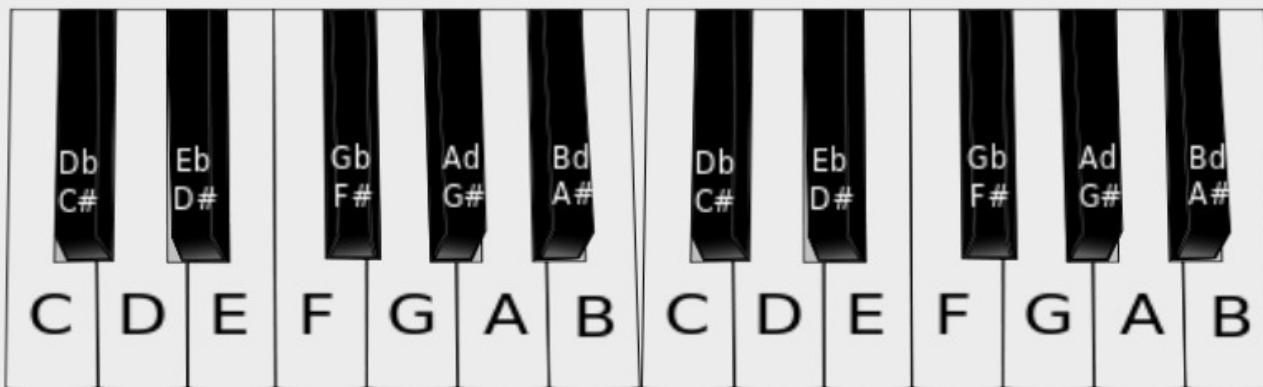
A Virtual Piano



Screenshot

Happy Birthday tune

G G A G C3 B G G A G D3 C3 G G G3 E3 C3 B A F3 F3 E3 D3 C3



Bit of code

```
/* Code template */

def play_note(self, note, pianobg):
    notename = self.dataset.get("common", note)
    fname = 'piano/' + notename + '.wav'
    self.notetext.props.text = notename
    self.pianobg1.props.visibility = goocanvas.ITEM_INVISIBLE
    self.pianobg2.props.visibility = goocanvas.ITEM_INVISIBLE
pianobg.props.svg_id = '#' + notename
    pianobg.props.visibility = goocanvas.ITEM_VISIBLE
gcompris.sound.play_ogg(fname)
    self.dochecknotes(notename)
```



Activities

Sing - Along

A Karaoke Player



Screenshot

~Sing Along~

Twinkle Twinkle little star



Up above the



Thank You

Code

<http://git.gnome.org/browse/gcompris>