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

KEXI-A FEATURE RICH OPEN-SOURCE DATABASE MANAGEMENT APPLICATION
It would provide all features of Web navigation from within Kexi itself..
Coding began...so did doubts and numerous doubt clearing sessions :) 
And then.......
LO BEHOLD....!!

WORKING WIDGET IN FORMS INTERFACE
ON IT'S 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 Char API

BrailleChar(self.rootitem,
    x_location = 100,
    y_location = 200,
    width = 70,
    letter = 'C'  
    DOT_ON = 0X0000FFFFFL  
    DOT_OFF = 0X0000FFFFFL,
    COLOR_FILL = "#FF0000",
    COLOR_STROKE = "#0000FF",
    display_letter = "True",
    clickable = "True",
    BRAILLE_TILE = "False",
    callback = None)
<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
</tr>
</thead>
<tbody>
<tr>
<td>K</td>
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</tr>
</tbody>
</table>
Braille: Unlocking the Code

A system of writing for the blind 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.

Can you solve this Riddle?

What falls from the sky without hurting your brain?

Choose an operator to indicate the question mark:

8 \ ? \ 2 = 4

Type your answer here.
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
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
No stroke limit
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
Structure of each project

TASKs

PROBLEMs

QUESTIONs/CONCERNs
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 Bug

Explaining technical words or technologies used by the application
### Results

<table>
<thead>
<tr>
<th></th>
<th>Files</th>
<th>Commits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Desktop</td>
<td>7</td>
<td>9</td>
</tr>
<tr>
<td>Cheese</td>
<td>32</td>
<td>27</td>
</tr>
<tr>
<td>Evolution</td>
<td>37</td>
<td>7</td>
</tr>
</tbody>
</table>

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>
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:AAIDAAAAAAEAAAAABAAAAAwBJQU/txV5/QAErzYjUzm8LvC5CPR2dJMTSW4as5NIgPHCjSGJgNroSWqj04UJuQ4fiPYDpjXspuQ64fKy+I4YUHnh6Mb6WhAoWt7MJ25ZX5UlDoycv84W+a6At119n8oxvzT/ki51QPsIqP0l+A8wG9rux9ZI7VSG91ApIVRrxwcM9oMeIlV7HorTm6p1b41TNLJmb/gsTLnYkqhzWcNsDTxvn95Tb8IWJfVwkWU8GfPowghaLFkBhYevdBf2tiJwAAAAAAAABAAAADcLE8qcp8fALvj/+VD1hzmk5SSNSmLGl2rliyCs9G9dTAAAAA=.”
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 - GXmI
A GObject DOM Level 1 Core API
GXxml

- DOM Level 1 Core
- GObject
- Vala
- Bindings
- Documentation and Testing
- Porting libgdata
Getting Things GNOME! & LibLarch

Izidor Matušov

Pack to Summit

- New tooth brush
- New pajama
- Withdraw cash from ATM
Izidor Matušov

Getting Things GNOME! & LibLarch

```python
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
import QtQuick 1.1    import Qt.components 1.0

Button {
    iconSource: "plus.png"
    text: "Show More"
}
Plasma Components
Plasma Components

Finish Desktop Components

Mobile Components

KDE Components
Anjuta as an AVR environment

Lucas van Dijk
Who amI?

- 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 program)
- Future:
  - Assembly support
  - Better register viewer
Thanks for listening!
• **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
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
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
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
~Sing Along~

Twinkle Twinkle little star

Up above the
Thank You

Code

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