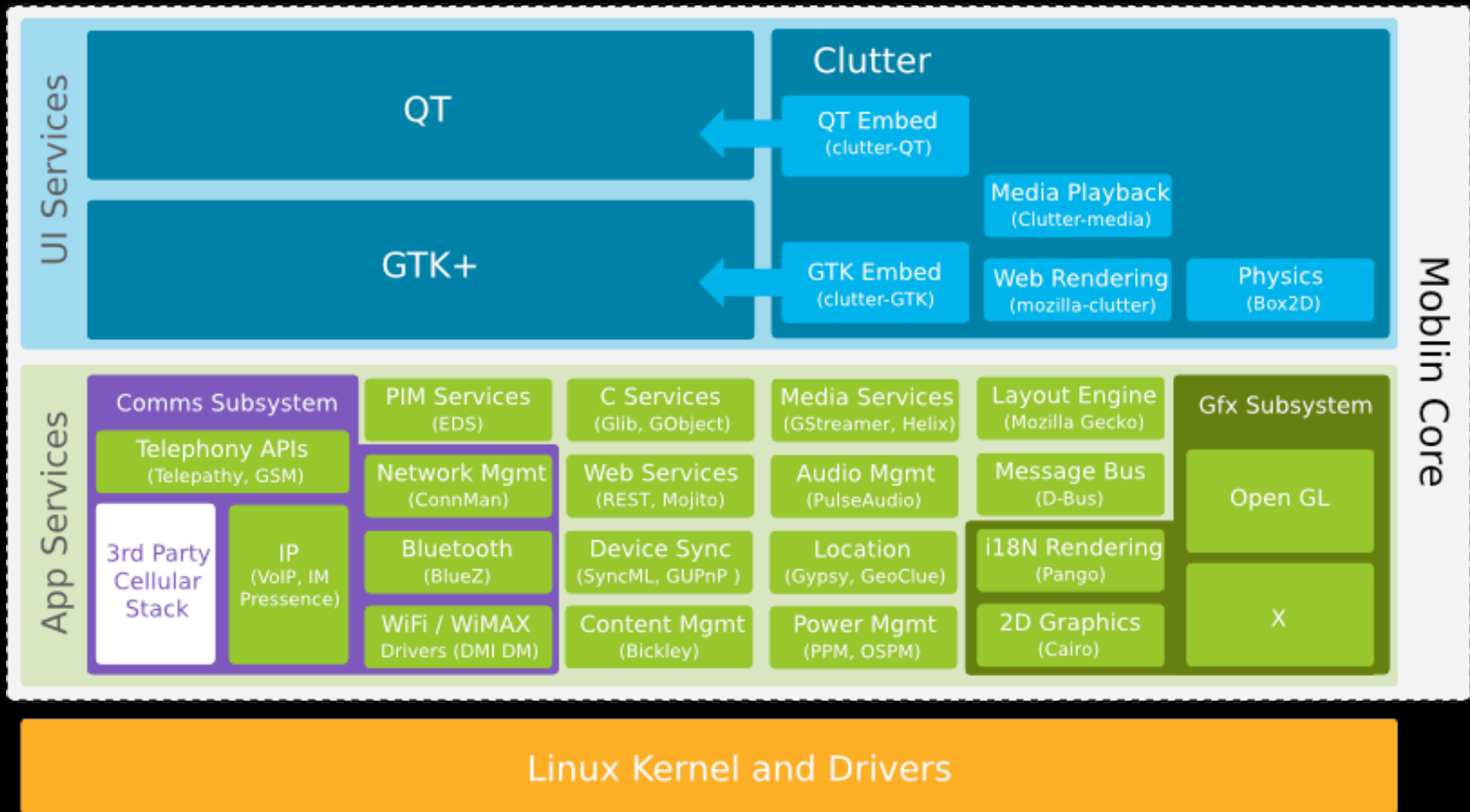


Cooking with Moblin Core Technologies



Rob Bradford

Platform Specific UI



Practical example.

Wondering what
your friends have
been doing?

!

!

On Flickr?

On Twitter?

On Last.fm?

**On <web service of
choice>?**

Introducing: Norwood

(a web services viewer)

**Preparation:
The design.**

**First find your
friendly designer.**



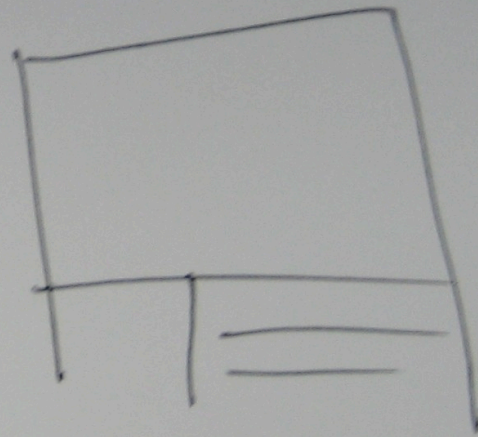
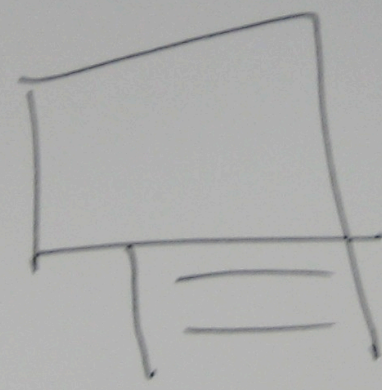
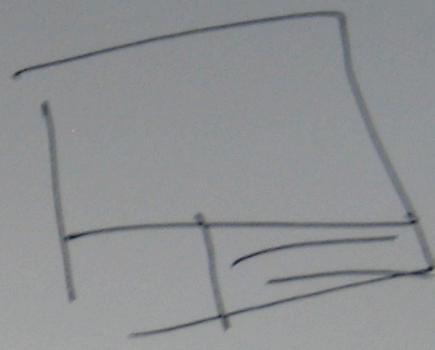
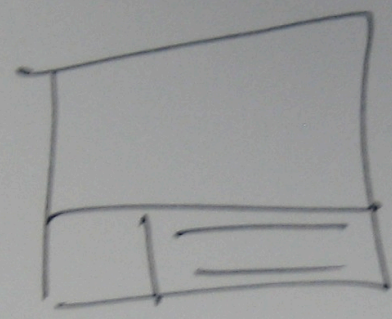
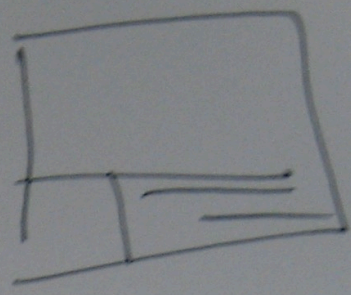
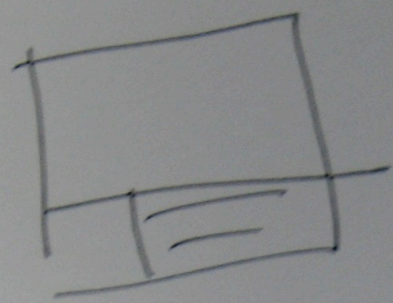
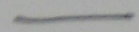
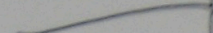
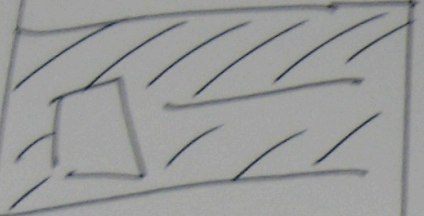
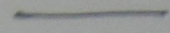
Parade

-OX



Parasit

-OX



The first *sketch*:
Indicates,
Involves,
Inspires.

!

!



Ingredients: The toolkit.

CC-BY-SA "Further obsessive garden behaviour demonstrated" by tom_chandler from Flickr

GTK+

- Easy to produce consistent, complex (cf. Evolution), constrained interfaces,
- High level: Buttons, list views, file picker, etc,
- No animations, layouting / structure can be too restrictive.

Clutter

- Produce flexible, fast, flowing interfaces,
- Mid-level toolkit: Textures, text, groups, animations,
- Need a toolkit on top to help build more complex interfaces.

Tidy

- Higher level toolkit on top of Clutter,
- Reference toolkit, currently built on Clutter 0.8,
- Contains patterns for building other toolkits on,
- Experimental CSS branch.

**But which of these
do we choose?**

!

!

A black and white photograph showing a close-up of a dog's front paws. The paws are positioned as if they are about to be mixed together. The text "Mix them up." is overlaid in a large, white, sans-serif font across the center of the image.

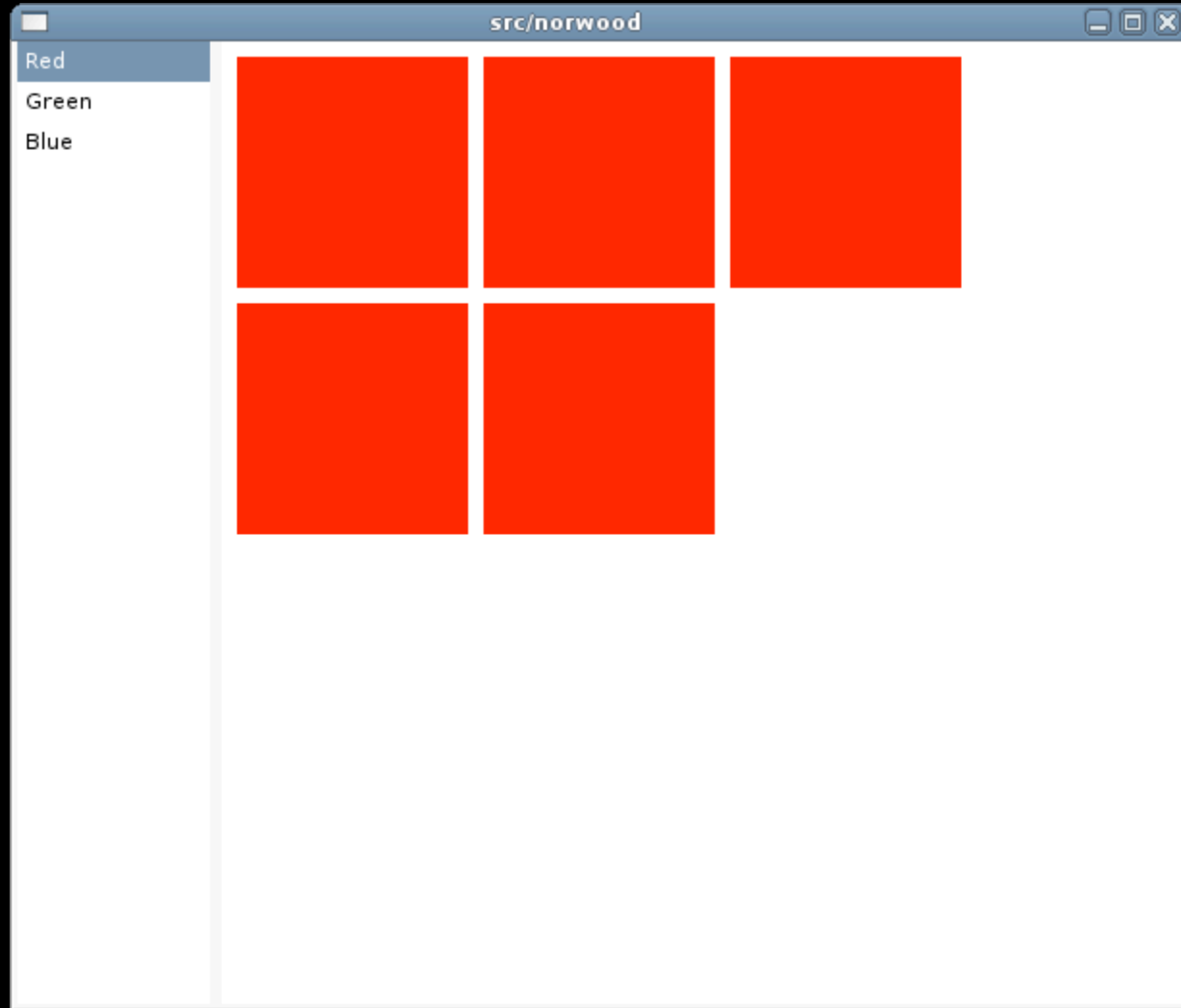
Mix them up.

CC-BY "Baking @ Sheffield" by timparkinson from Flickr

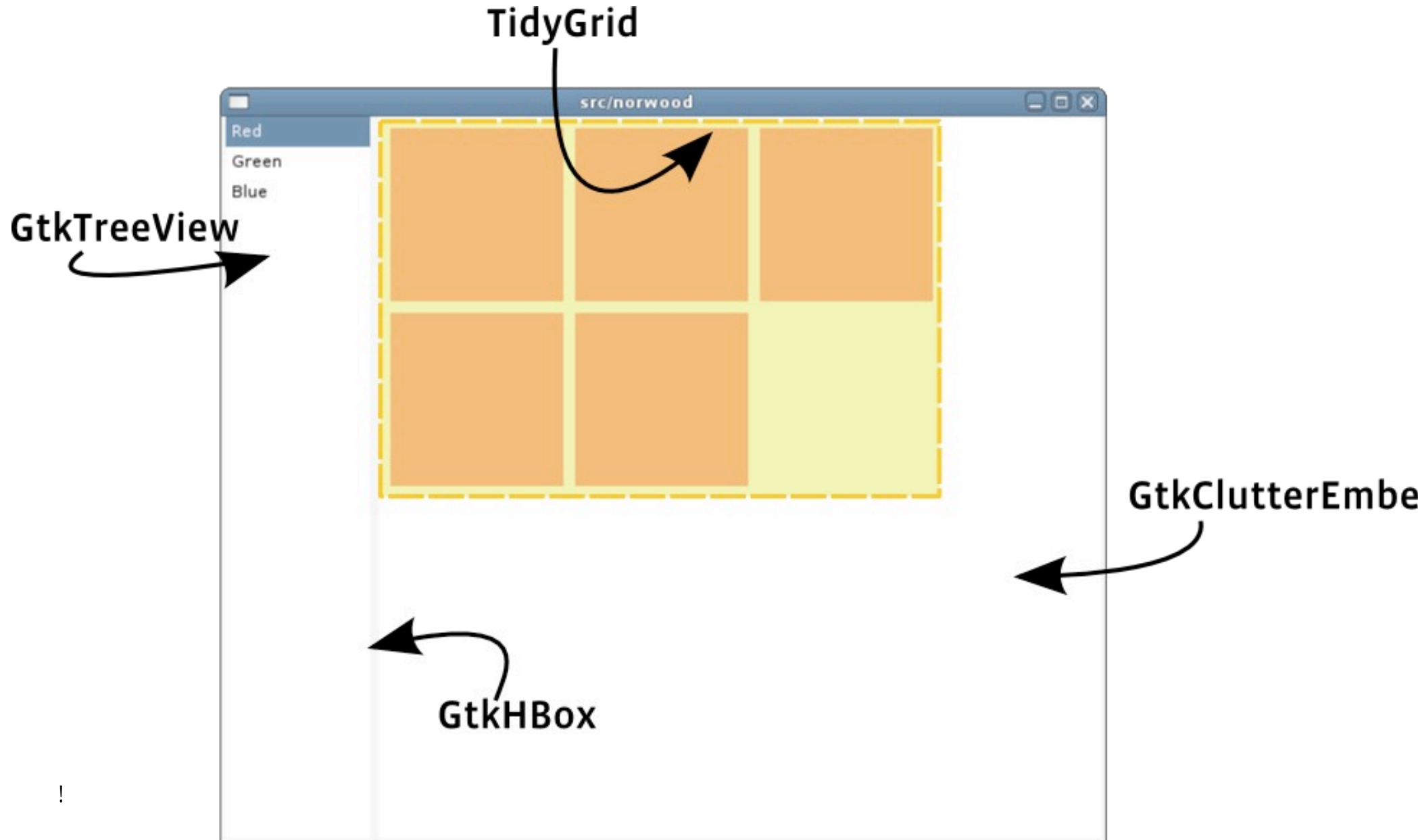
Clutter-GTK

- Provides a Clutter stage inside a GTK widget,
- Pulls in theming and styling information from GTK so Clutter actors can use it,
- Pulls in GTK font configuration.

Norwood 0.0.1



Norwood 0.0.1



**The next step:
The wireframe.**

Norwood



- Icon Service
- Icon Flickr
- Icon last.fm
- Icon twitter
- Icon Facebook

Image or text		Image or text		Image or text		Image or text	
Icon	Title Location	Icon	Title Location	Icon	Title Location	Icon	Title Location
Image or text		Image or text		Image or text		Image or text	
Icon	Title Location	Icon	Title Location	Icon	Title Location	Icon	Title Location



**The wireframe:
Elaborates,
Educates,
Excites.**

!

!



The special
ingredient.

CC-BY “Mojito” by psychofish from Flickr

librest

Sources

Flickr

Twitter

last.fm

Mojito

DBUS

Awesome UI

**Pluggable backends,
Client-side library,
LGPLv2.**



RESTful web APIs:
**http://<host>/foo/
<object>/<function>**

**But nobody actually
does it like this.**

!

!

**librest makes
accessing RESTish
APIs less painful.
(Well it tries to.)**

**“Cairoesque”,
readable, powerful
API for making
queries.**

**BeautifulSoup style
XML parser.**

Parses into a tree of nodes with siblings and children.

!

!

```
n = rest_xml_node_find (root, "photo");
```

```
while (n)
```

```
{
```

```
    title = rest_xml_node_find (n, "title");
```

```
    printf ("%s", title->content);
```

```
    n = n->next;
```

```
}
```

**Support for OAuth
two-stage
authentication.**

**Builds on top of
libsoup, libxml2.
LGPLv2.**


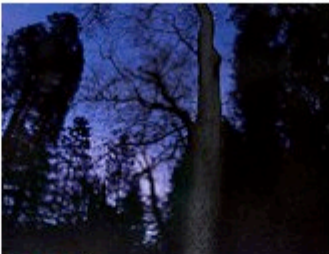






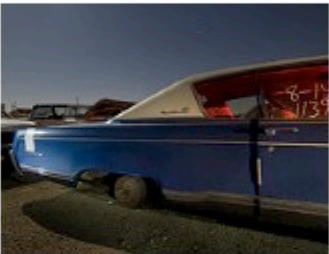









**Get the code at
git.moblin.org**

**Norwood 0.0.2:
Now with real
content!**

Norwood 0.0.2

src/norwood

flickr
lastfm
twitter

		
 The Dentist ricko	 Dawn Harold Davis	 old school JKönig
		
 Supergirl ricko	 Harold ricko	 Blue Razor Lost America
		
 mini mini JKönig	 Victoria An Smith	 Tommy An Smith




The icing.

CC-BY “The cakes – Test batch made in Cheshire” by Gaetan Lee from Flickr


**The next step:
The visual design.**


icon Service


 Flickr

 last.fm

 twitter

 Facebook




 San Francisco '08
19/01/09

About to drive to Norfolk. Dinner with parents. Book-signing in Norwich tomorrow. Bye bye London x

 DarrenWilson
about 3hrs ago


Def Leppard - Pour Some Sugar on Me

 _tapps_
Listening now

where are you moving to? party round your house this week?

 nedrichards
about 3hrs ago




 Surbiton Vs Can..
about 4hrs ago


says thank you to everyone for their well wishes.


 Claire Alexander
about 4hrs ago


Los Campesinos! - Death to Los Campesinos!

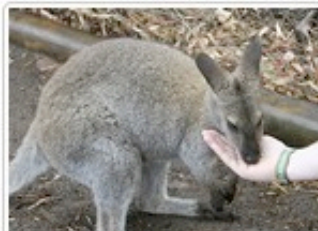
 jonbev72
4 hours ago




 Algate
about 4hrs ago



 Nice bokeh
about 5hrs ago



 Sjoerd plus mars...
about 6hrs ago



 mallum
about 5hrs ago

is no longer sat in stand still traffic on M11!

 Nick Richards
about 6hrs ago






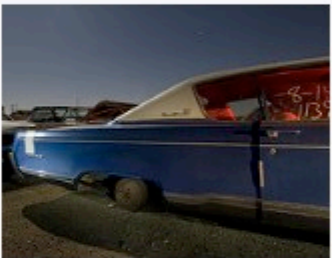



**The visual design:
Supplies,
Summarises,
Supports.**

**Norwood 0.0.3:
Now it looks pretty!**

Norwood 0.0.3

src/norwood

flickr
lastfm
twitter

 <p>The Dentist ricko</p>	 <p>Dawn Harold Davis</p>	 <p>old school JKönig</p>
 <p>Supergirl ricko</p>	 <p>Harold ricko</p>	 <p>Blue Razor Lost America</p>
 <p>mini mini JKönig</p>	 <p>Victoria An Smith</p>	 <p>Tommy An Smith</p>

**GTK+ styling from
theme with
application tweaks.**

```
style "sidebar"  
{  
  base[NORMAL]="#dee2e5"  
  text[NORMAL]="#6b7984"  
  text[SELECTED]="white"  
  font_name="Sans 24"  
}
```

```
class "NwdServiceView" style "sidebar"
```

!

!

Demo!





Wrapping up.

CC-BY “Bubble Wrap” by Hey Paul from Flickr

Questions?

