Working with design

How to build Yocto Project GUIs
without dying in the process

Belén Barros Pena - July 2015

OpenEmbedded Metadata Index

Submit layer   Log in

Branch: **master** ▾ | Layers | Recipes | Machines

Search layers   Filter layers ▾

Layer name	Description	Type	Repository
meta-oe	Additional shared OE metadata	Base	git://git.openembedded.org/meta-openembedded
openembedded-core	Core metadata	Base	git://git.openembedded.org/openembedded-core
e100-bsp	Ettus E1XX series BSP	Machine (BSP)	git://github.com/EttusResearch/meta-ettus.git
e300-bsp	Ettus E3XX Series BSP	Machine (BSP)	https://github.com/EttusResearch/meta-ettus.git
meta-aarch64	AArch64 (64-bit ARM) architecture support	Machine (BSP)	git://git.linaro.org/openembedded/meta-linaro.git
meta-acer	Acer machines support	Machine (BSP)	git://github.com/shr-distribution/meta-smartphone.git
meta-altera	Altera SoC BSP layer	Machine (BSP)	https://github.com/kraj/meta-altera
meta-amd	AMD board support common layer (official)	Machine (BSP)	git://git.yoctoproject.org/meta-amd
meta-asus	Asus machines support	Machine (BSP)	git://github.com/shr-distribution/meta-smartphone.git
meta-baldeagle	AMD Bald Eagle platform BSP	Machine (BSP)	http://git.yoctoproject.org/cgit/cgit.cgi/meta-amd/
meta-beagleboard	Support for beagleboard.org devices	Machine (BSP)	git://github.com/beagleboard/meta-beagleboard.git

Recipe reporting system   Release: **1.9** ▾   Milestone: **M2** ▾

| 1.9 M2 | **23%** Updated | Up-to-date: 584 | Not updated: 101 | Can't be updated: 10 | Unknown: 33 | Export recipe list |

Recipes upstream status   Maintainer statistics
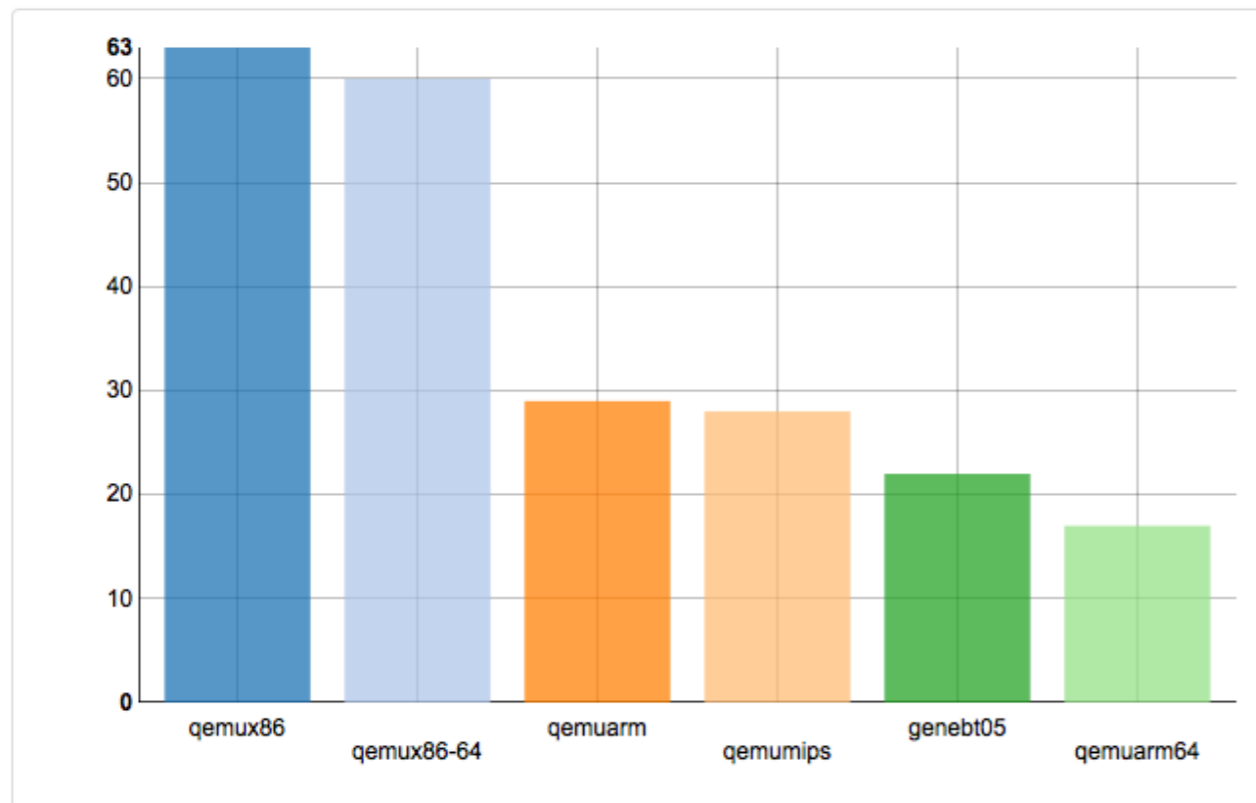
728 recipes   Upstream status: **All** ▾   and   Maintainer: **All** ▾

Search all recipes   Search

▲ Recipe	Version	Upstream version	⇕ Upstream status	⇕ Last Updated	Maintainer	Summary
acl	2.2.52	2.2.52	Up-to-date	Up-to-date	Chen Qi	Utilities for managing POSIX Access Control Lists
acpid	2.0.23	2.0.23	Up-to-date	Up-to-date	Aníbal Limón	A daemon for delivering ACPI events
adt-installer	0.2.0	0.2.0	Up-to-date	Up-to-date	Jessica Zhang	Application Development Toolkit
alsa-lib	1.0.29	1.0.29	Up-to-date	Up-to-date	Tanu Kaskinen	ALSA sound library
alsa-plugins	1.0.29	1.0.29	Up-to-date	Up-to-date	Tanu Kaskinen	
alsa-state	0.2.0	0.2.0	Up-to-date	Up-to-date	Tanu Kaskinen	Alsa scenario files to enable alsa state restoration
alsa-tools	1.0.29	1.0.29	Up-to-date	Up-to-date	Tanu Kaskinen	Advanced tools for certain ALSA sound card drivers
alsa-utils	1.0.29	1.0.29	Up-to-date	Up-to-date	Tanu Kaskinen	ALSA sound utilities
alsa-utils-scripts	1.0.29	1.0.29	Up-to-date	Up-to-date	Tanu Kaskinen	Shell scripts that show help info and create ALSA configuration files
apmd	3.2.2-14	3.2.2	Unknown	2014-03-02	Cristian Iorga	Utilities for Advanced Power Management
apr	1.5.2	1.5.2	Up-to-date	Up-to-date	Hongxu Jia	Apache Portable Runtime (APR) library
apr-util	1.5.4	1.5.4	Up-to-date	Up-to-date	Hongxu Jia	Apache Portable Runtime (APR) companion library
apt	1.0.9.9	1.0.9.9	Up-to-date	Up-to-date	Aníbal Limón	Advanced front-end for dpkg
aspell	0.60.6.1	0.60.6.1	Up-to-date	Up-to-date	Alejandro Hernandez	GNU Aspell spell-checker
at	3.1.16	3.1.16	Up-to-date	Up-to-date	Chen Qi	Delayed job execution and batch processing

3

http://errors.yoct...t.org/Statistics/

errors.yoctoproject.org/Statistics/

Search

yocto · Error reports

Search all errors | Search
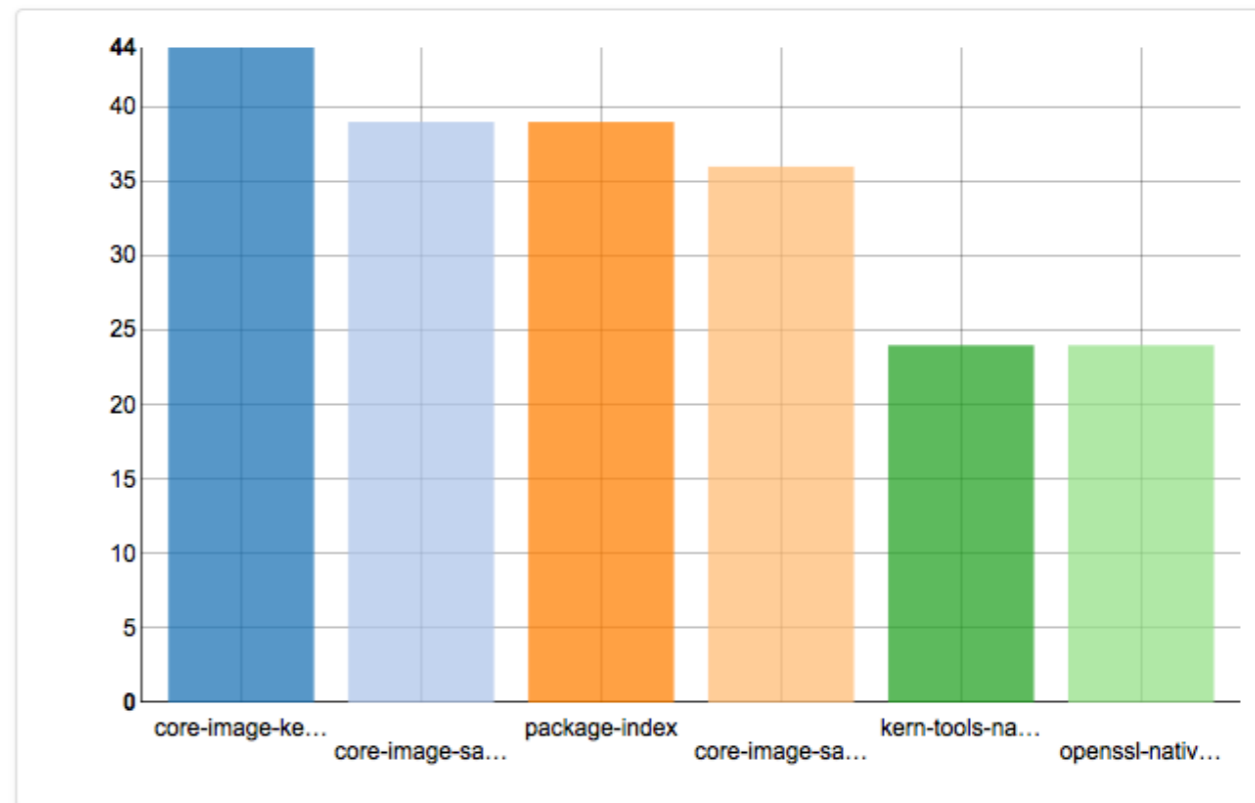
Latest Autobuilder errors | Latest errors | **Statistics**

Errors reported in the last 2 weeks
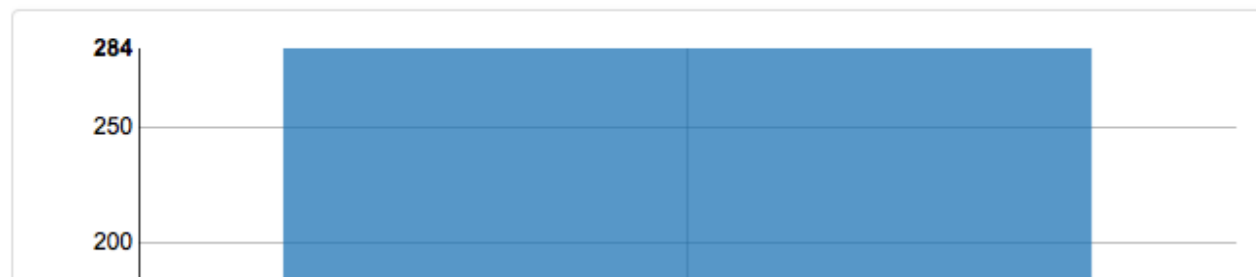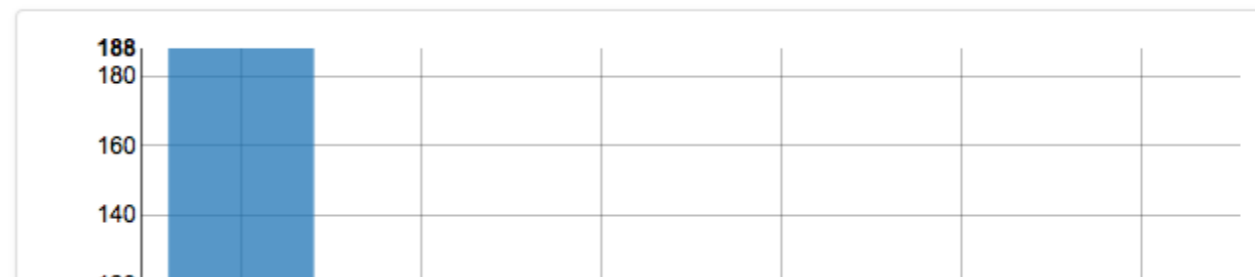
By machine

By recipe

By target

By distro

GUIs are
different

They must be

designed

They are built
iteratively

In general, they are a

pain

To minimise the pain

work with design

How?

In 3 simple steps

Step 1 - Set Bugzilla right

- Add a designer to the CC list of the Bugzilla entry (for now, belen.barros.pena@intel.com)

- Type "GUI design pending" in the Whiteboard field

https://bugzilla.yoctoproject.org/show_bug.cgi?id=7855   Search

Bugzilla – Bug 7855   Show blacklist information in layer index   Last modified: 2015-07-15 13:54:58 UTC

Home | New | Browse | Search | [   ] Search [?] | Reports | My Requests | Preferences | Help | Log out belen.barros.pena@intel.com

Product Dashboard | New Plan | New Case | New Run | Search | Help | --Testopia-- ◇ [   ] Find

Bug List: (1 of 6) First Last *Prev* Next   Show last search results

Bug 7855 - **Show blacklist information in layer index** (edit)   Save Changes

Status: NEW (edit)

• Create test case

Product: Maintenance Tools ◇
Component: Layer Index ◇
Version: unspecified ◇
Platform: PC ◇ Multiple ◇

Importance: Medium enhancement ◇
Target Milestone: 1.9 M3 ◇
Assigned To: Alex Franco (edit) (take)
QA Contact: Alexandru Georgescu (edit)

URL: [   ]
Whiteboard: GUI design pending

Depends on: 7981 (edit)
Blocks: [   ]
Show dependency tree / graph

Reported: 2015-06-08 13:27 UTC by Paul Eggleton
Modified: 2015-07-15 13:54 UTC (History)
CC List: 2 users including you

Add
[   ]
belen.barros.pena@intel.com
benjamin.esquivel@intel.com

☐ Remove selected CCs

See Also: (add)
Type of Regression: --- ◇
Documentation change: No (bug/feature does not impact docs) ◇

Estimate: Person-Days
2.0

Step 2 - Get your design

Before starting work in the feature, **contact the designer** (email, jabber or IRC will do), and let her know you are ready to implement a fix.

The designer might need some additional information about the feature. She will ask by email or schedule a quick call (30 mins or so).

Message

Delete | Reply | Reply All | Forward | Move | Ru... ▾ | Junk ▾ | Unread | Categorize | Follow Up

Layerindex blacklisting

Franco, Alejandro

Sent: Tuesday, 14 July 2015 19:37
To: Barros Pena, Belen

You replied to this message on 15/07/2015 11:43.   Show Reply

Hello Belen!

I was looking at this bug:
https://bugzilla.yoctoproject.org/show_bug.cgi?id=7855

It is related to layerindex-web.

According to Paul's comments, blacklisted recipes should be displayed
in:

- Recipe details pages
- Recipe list (with "some kind of marking")

I guess it would be similar to what you designed for the images, right?

Thanks, and best regards!

Alex Franco

Still step 2 - Get you design

The designer will go off and:

- produce a **design document** (and sometimes a prototype)
- upload it to the Bugzilla entry
- set the Whiteboard to "GUI design available"

Bug 7855 – Show blacklist i...   ✕   +

https://bugzilla.yoctoproject.org/show_bug.cgi?id=7855   ▽ C   Search

Status: NEW (edit)

Product: Maintenance Tools

Component: Layer Index

Version: unspecified

Platform: PC   Multiple

Importance: Medium   enhancement

Target Milestone: 1.9 M3

Assigned To: Alex Franco (edit) (take)

QA Contact: Alexandru Georgescu (edit)

URL:

Whiteboard: GUI design available

Depends on: 7981 (edit)

Blocks:

Show dependency tree / graph

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CC List: 2 users including you (edit)

See Also: (add)

Type of Regression: ---

Documentation change: No (bug/feature does not impact docs)

Estimate: Person-Days
2.0

Attachments			
Design - Showing blacklisted recipes (304.78 KB, application/pdf) 2015-07-15 13:54 UTC, Belen Barros Pena		*no flags*	Details

Add an attachment (logfile, testcase, etc. Please submit patches to the mailing lists.)   View All

Additional Comments:

In the recipe details page

There we use:

1. The same label as in the tables in the h1. We just need to make sure to override bootstrap.css and set the value of vertical-align for these labels to 'middle'

2. An alert saying:

"This recipe is blacklisted by the [LAYER-NAME] layer. The reason provided is:

[VALUE OF PNBLACKLIST]"

The word 'blacklisted' is highlighted with bold font:

blacklisted

The [LAYER-NAME] is a link to the layer details page.

Just a couple of notes about the markup in that alert:

- The value of PNBLACKLIST is inside a <blockquote>, like so

<blockquote class="span7">
  <p>value of PNBLACKLIST</p>
</blockquote>

The span7 class limits the line length of the <blockquote>, otherwise lines of text become too long and hard to read. But that span7 needs to be inside a row-fluid, so the alert needs to be:

<div class="alert row-fluid">

We need to override the default colour of the <blockquote> left border and set it to #c09853.

To get the <blockquote> left aligned with the text above it we need to set the margin-left of the <blockquote> to 0px.

No, no: still step 2 - Get your design

You must **review** the design document and give **feedback.**

Design is not just done by the designer: is a collaboration process between designers and developers. It **does not happen without you**.

Once you and the designer have agreed on a design, development can begin.

Step 3 - Share your work

Good GUIs are all about the details, that's why it's impossible to get them right at the first go.

Share your work in progress with the designer, and she'll give you the feedback you need to implement the feature | fix as you (both) designed it.

Still step 3 - Share your work

To share your work in progress, you can:

- Set up an instance of the application the designer can access (easier for the designer, more work for you), or

- Help the designer to set up the tool locally (it will be a pain to help her, but you'll only have to do it once)

No, no: still step 3 - Share your work

Once you and the designer are happy with the GUI implementation, you can submit the patches upstream.

It's possible you'll get design feedback on the submission, but it should not be the usual thing. Step 3 done right will avoid design issues stopping the patches from being merged once in the mailing list.

1. Set Bugzilla right

2. Get your design and

3. Share your work

1. For happier designers

2. Happier users

3. And a saner you!

Thank you

belen.barros.pena@intel.com