

Dennis Field

Software Engineer @ Radio Sound 9 years

Game maker & web developer 15+ years

Radio Sound

Best infotainment products for motorcycles and powersports in Louisville, 34 years





Linux in cars

Before 2015

- Everyone kind of doing their own thing
- Reinventing the wheel



Linux in cars

HOW STANDARDS PROLIFERATE: (SEE: A/C CHARGERS, CHARACTER ENCODINGS, INSTANT MESSAGING, ETC.)

SITUATION: THERE ARE 14 COMPETING STANDARDS.







https://xkcd.com/927/



Introducing the 15th competing standard...

- Unified code base
- 70-80% of the starting point for an automotive project



https://www.automotivelinux.org/



Thanks for all the fish...

- Agile Albacore Jan 2016
- Brilliant Blowfish July 2016
- Charming Chinook Dec 2016
- Daring Dab July 2017
- Electric Eel Jan 2018
- Funky Flounder Oct 2018
- Grumpy Guppy Feb 2019
- Happy Halibut July 2019
- Itchy Icefish Jan 2020





- Over 100 members
- Anyone can download, contribute





Pre-built demo platform images



http://download.automotivelinux.org/AGL/release/halibut/8.0.1/







https://www.yoctoproject.org/

It's not an embedded Linux distro, it creates a custom one for you

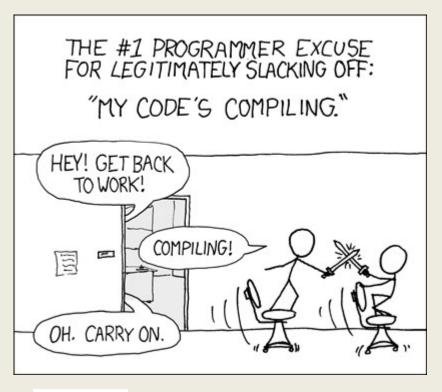


Build System Workflow Upstream **SCMs** Upstream sources **Output Packages** Project **Projects** (optional) Releases Metadata Inputs Process steps (tasks) **Build System** Output Image Data Source Mirrors User Package Feeds Source **Configuration** .deb Fetching generation Metadata Output (.bb + patches) Analysis for Patch Image SDK QA Package .rpm Application Generation Generation Splitting plus Tests generation Machine BSP Package Configuration relationships Config Policy Compile .ipk Application Configuration Autoconf **Images** Development generation etc SDK 8 Yocto Project Developer Day - Oct 2013



- >100 GB free
- 1 to 6 hours





- >100 GB free
- 1 to 6 hours



https://www.xkcd.com/303/



Demo time



Contributing

https://docs.automotivelinux.org/



Read the docs, join the community, write issues in JIRA, submit patches in gerrit



Questions

