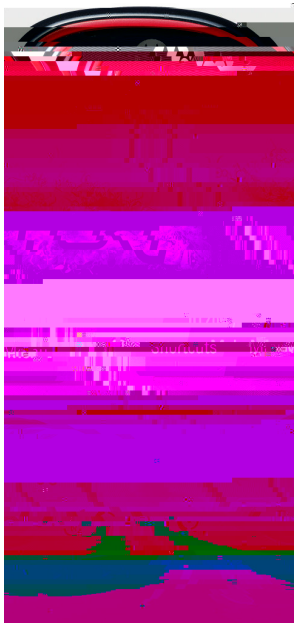
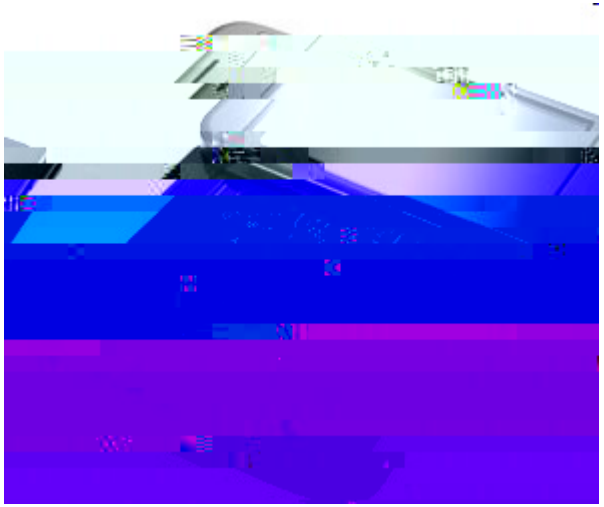
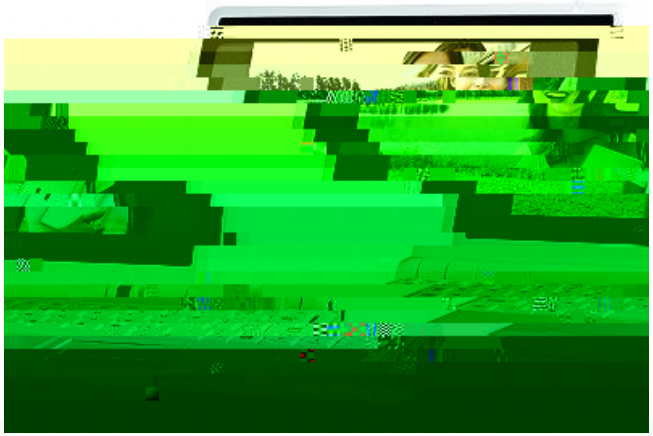
Building an Embedded Tools Standard Using Eclipse

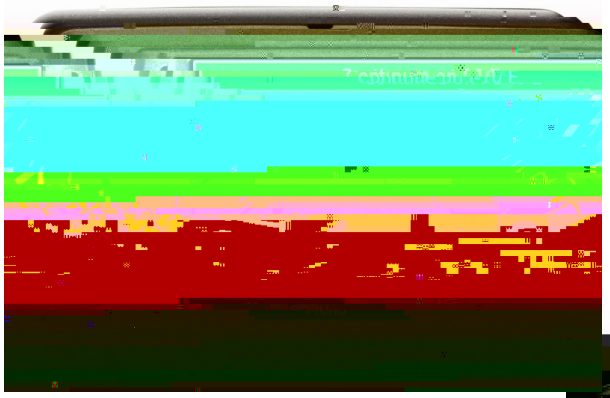
Eric Cloninger

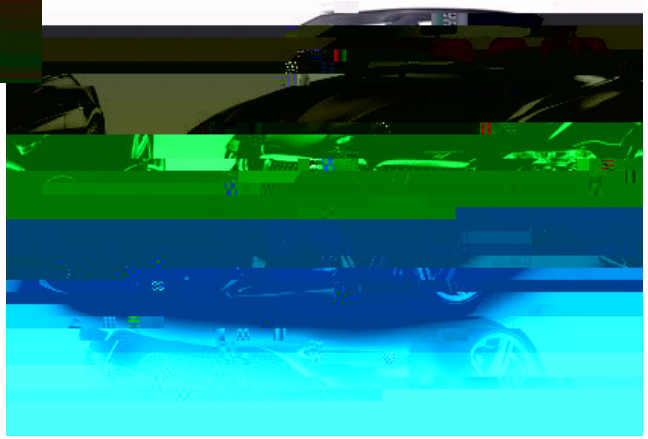


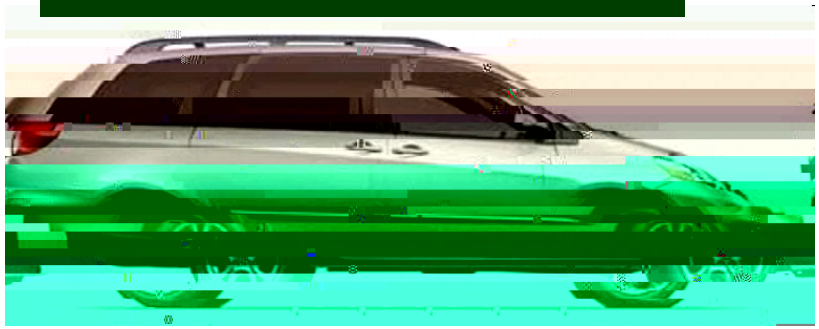


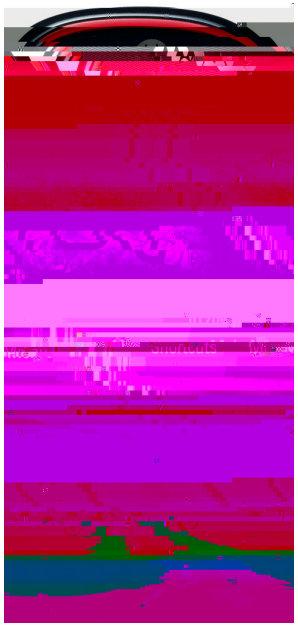
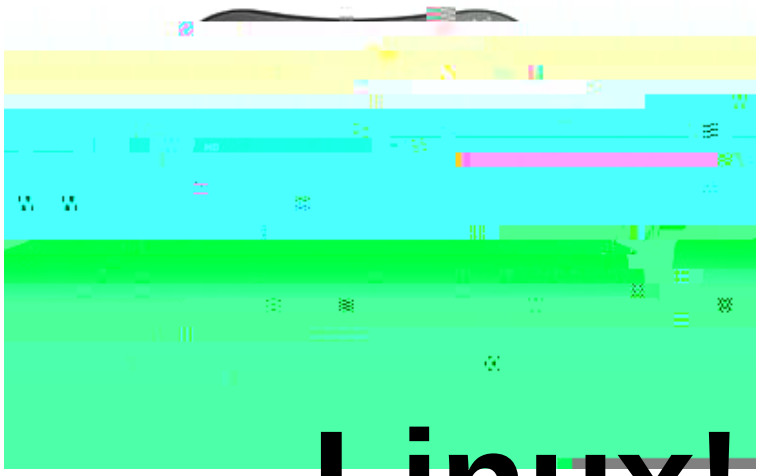
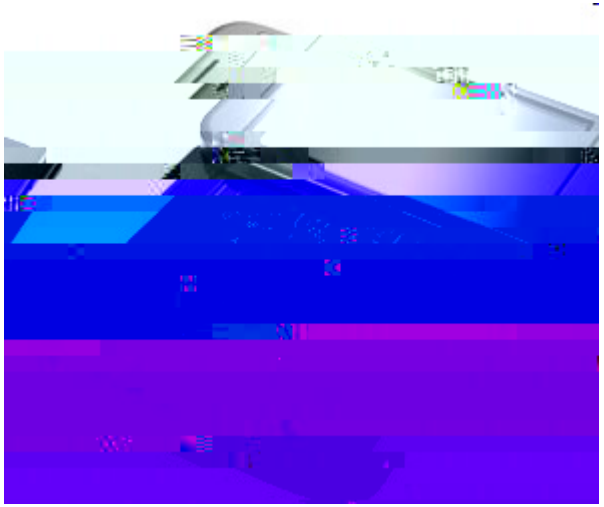
Linux?



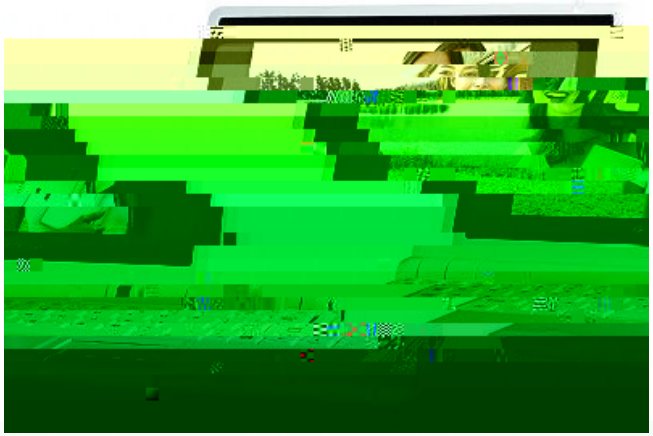
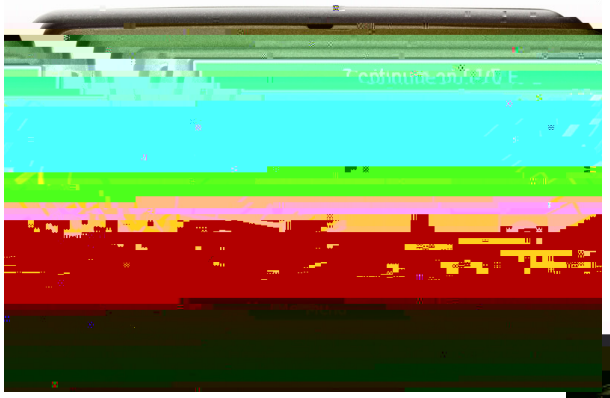
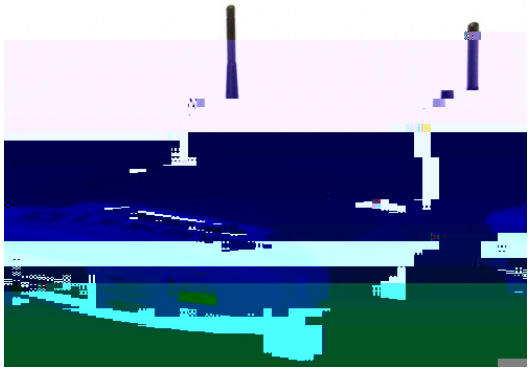
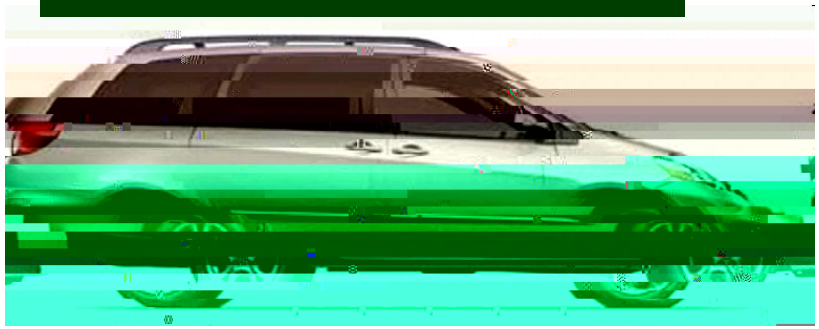


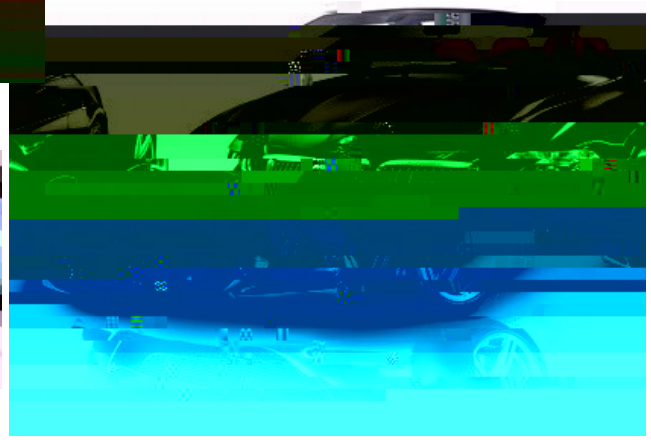




Linux!



Problems in Device Development

- Availability of pre-production hardware
- Debugging over the wire
- Reliable diagnostics
- Automated testing
- Geographically distributed teams

Eclipse can Help (maybe)

- http://www.eclipse.org
- Large, diverse, and active development community
- Wide-spread commercial adoption by OS

Working with Eclipse Projects

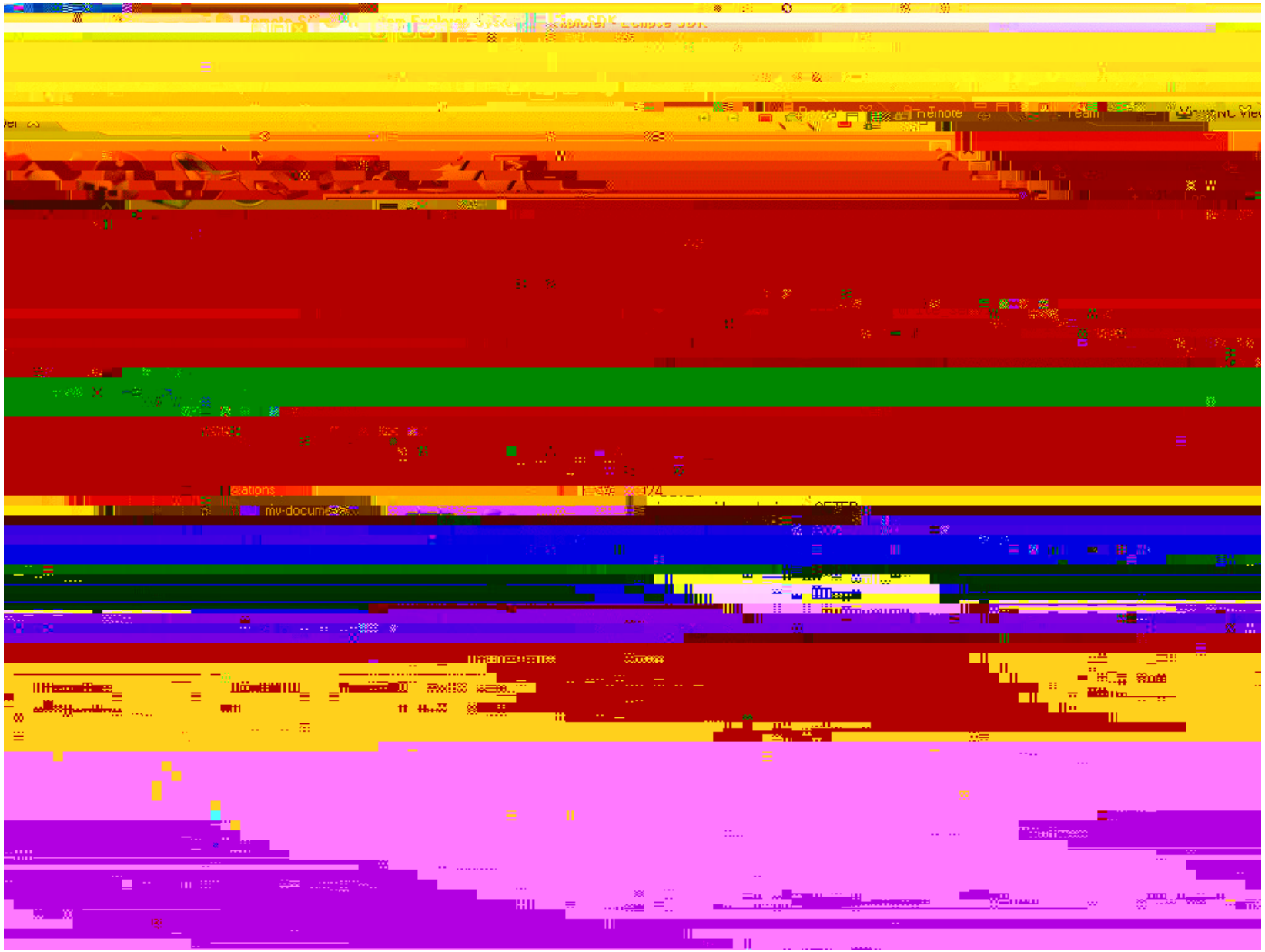
- Be comfortable working in the open
- Understand how the EPL is different from other licenses
- Bugzilla and mailing lists are principal means of collaboration and communication
- Submit bugs and patches as a means of gaining trust and respect
- No surprises
  - API stability expected from mature projects
  - Community processes reduce integration headaches
- Docs and testing are always welcome

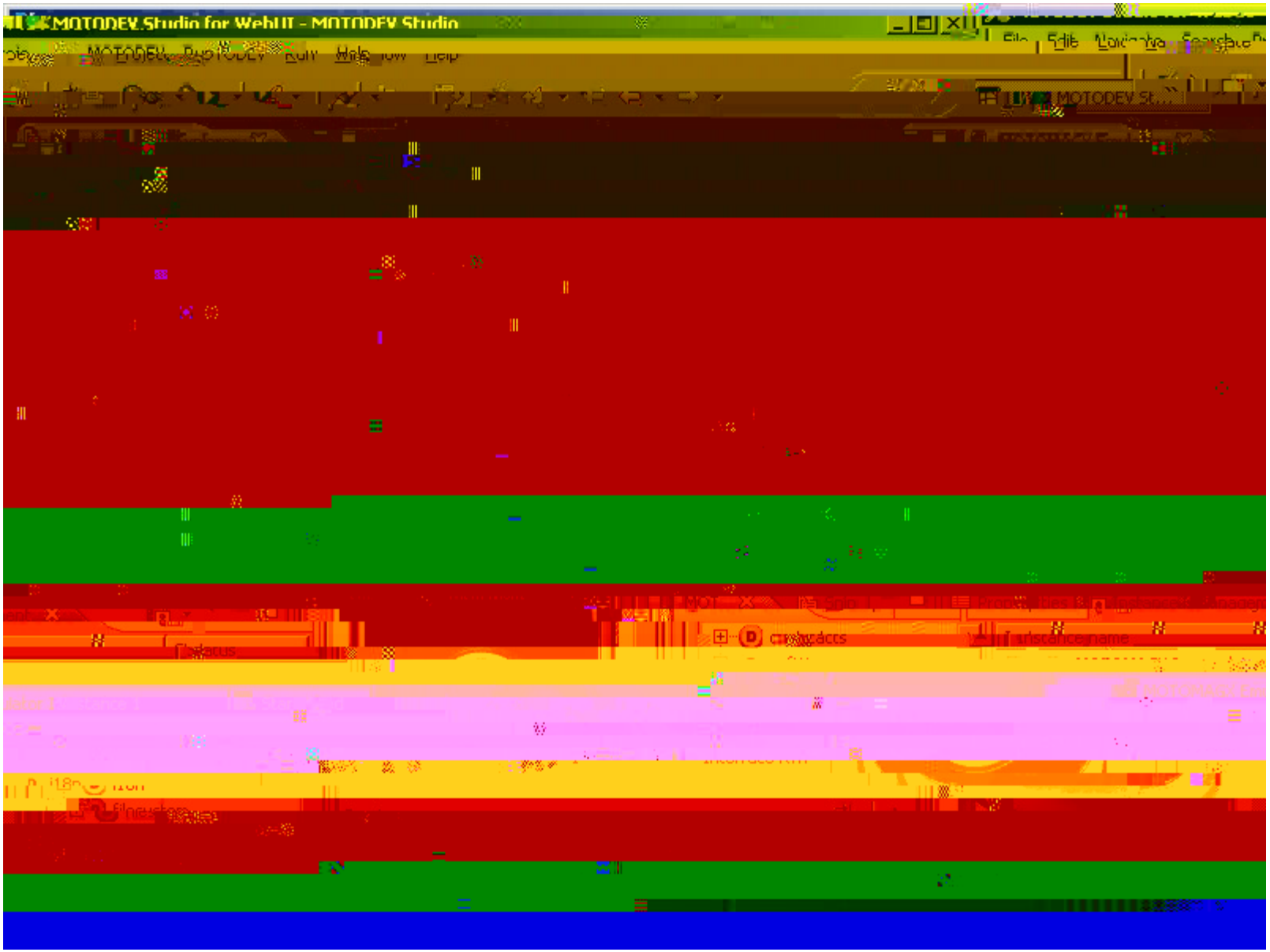
Problems in Device Development

- Availability of pre-production hardware
- Debugging over the wire
- Reliable diagnostics
- Automated testing
- Geographically distributed teams
- Variety of development tools and styles
- Third-party developers

More Than Mobile

While TmL is focused on enabling mobile developers targeting Linux, the tools and frameworks can be used by all developers and end users




MOTODEV Studio for WebUI - MOTODEV Studio
File Edit
MOTODEV St...

Task Management

- Mylyn

Creating a Tools Standard

- Start with a package, add what you need

Pre-defined packages

- Eclipse Packaging Project (EPP)
  - Focused versions of IDE + Tools

Linux Tools Project

- http://www.eclipse.org/linuxtools/
- Ongoing effort, d.9412(u)-2.9412(x)5. 0 11.47065. 4.04507(e)n.0

Tools for Third-Party Developers

- “It’s the apps, stupid”

Forward Looking Statements

- Eclipse 3.5 (Galileo) synchronous release
  - Participation is voluntary, but beneficial
  - Tentatively planned June 24, 2009

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Q&A