



basysKom

Greenhouse for Software with Appeal

Embedded LinuxCon 2012

HTML5 in a Plasma Active World

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Overview

- | What is WAC?
- | What so special about HTMLv5?
- | Plasma Active, which is... ?
- | What is this all about?
- | Who really cares?
- | So what did you do?
- | What's supported now and how does it work?
- | Again why do I care?
- | Conculsions???
- | So what's next?

What is this all about?

- | Linux SDK
- | HTML5 and WAC
- | Qt/Plasma Quick
- | Linux mobile devices



What is WAC?

- | WAC == Wholesale Applications Community
- | An open global alliance made up of the world's largest mobile phone network operators and manufacturers and is dedicated to making life easier for developers to create and distribute compelling digital content.
- | WAC has a few versions of its specifications
 - v1.x JIL (Joint Innovation Lab)
 - v2.x JavaScript
 - Recently added GSMA's OneAPI support



What so special about HTML v5?

`<!doctype html>`

No more Googling to remember what doctype looks like, it has been simplified to this...

`<meta http-equiv="content-type" content="text/html"; charset="utf-8">`

Meta tag no long needs http and html content description...

`<link type="text/css" rel="stylesheet" href="nofoo.css">`

CSS is now default style

`<script type="text/javascript" src="nofoo.js"></script>`

JavaScript is now default scripting language



- | Native support for audio and video, tags, tags, tags, descriptive markup, new `<canvas>` to provide better graphics and animations, better offline access, client side storage, lots of new stuff in CSS, types, types, types, and of course better mobile layout support, etc...

Plasma Active, which is... ?

- | Plasma Active aims at creating a cross-device user experience for emerging devices such as tablet computers, media centers, smartphones, and more...
- | UX environment built using Qt and Qt Quick, KDE plasma and a few other KDE libraries
- | Common Linux desktop stack (Linux kernel, Qt and KDE's Plasma Framework)
- | UI, Plasma Quick (Plasmoids supported)

| Project details...

<http://community.kde.org/Plasma/Active>



What is this all about?

- | Linux SDK
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Who really cares?

- | Designers
- | Developers
- | OEM, Vendors
- | Community (at least I do)



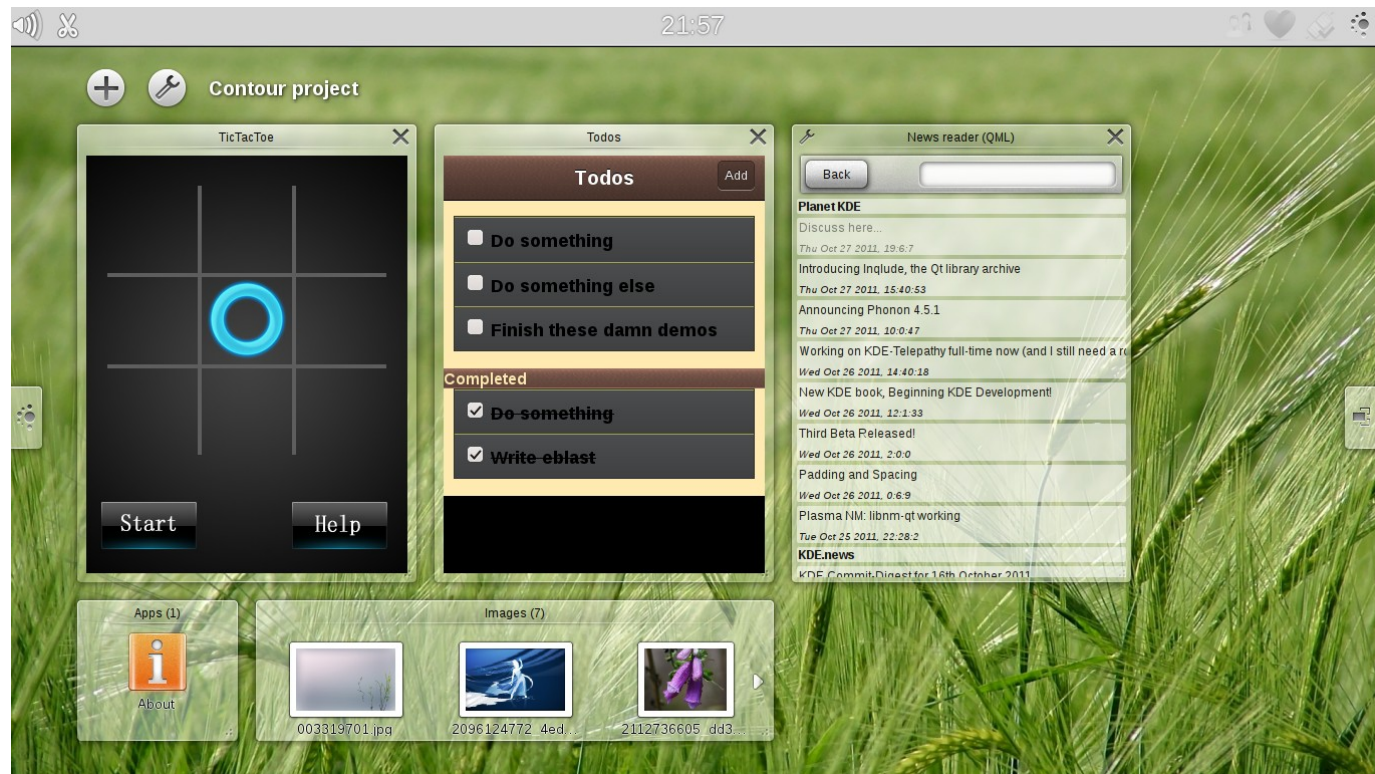
So what did you do?

- | WeTab, Archos 101G9, Advent Vega hardware platforms
- | MeeGo 1.2 OS, Mer OS
- | Plasma Active Two UI Toolkit
- | webRTC



What's supported now and how does it work?

- | WAC 2.0 but missing some system API's support
- | Partial HTML5 on MeeGo 1.2, fully support on latest Mer build
- | Widgets HTML, C++, QML, Python etc. in the same canvas (almost seamlessly)



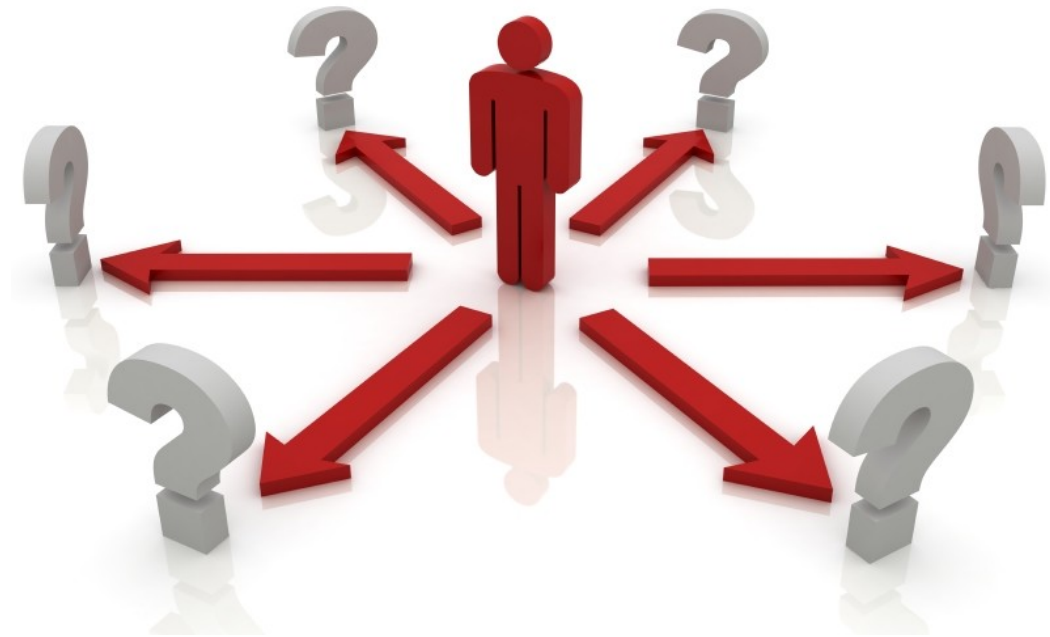
Again why do I care?

- | WAC is not there yet
- | HTML5 is a big spec
- | All WebKits are not equal



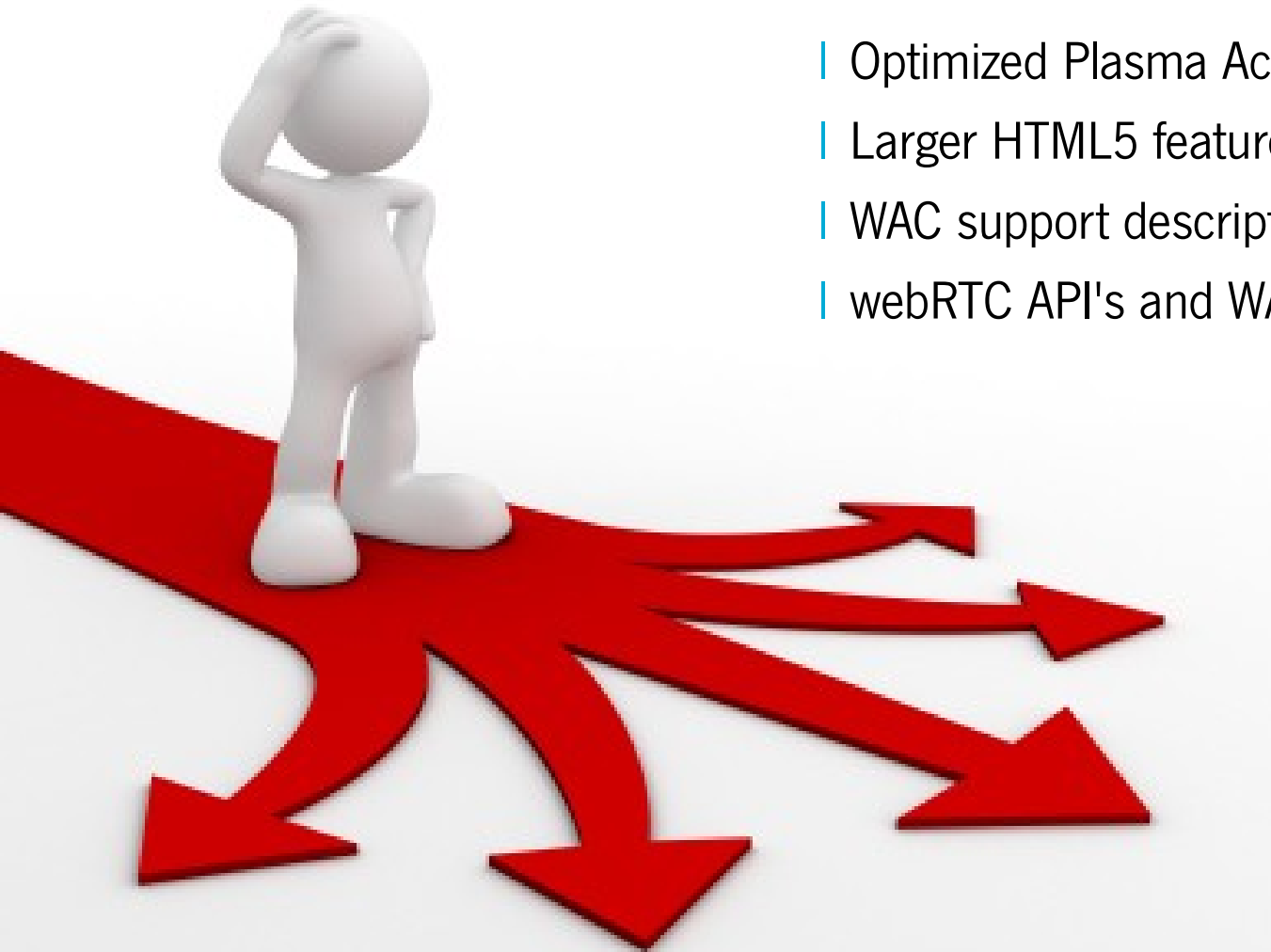
Conclusions???

- | WebKit 1.x missing bits
- | Qt Quick 1.x not really HTML5
- | Hardware CPU bound
- | Plasma Active performance



So what's next?

- | Qt 5.x
- | Faster Hardware
- | Optimized Plasma Active
- | Larger HTML5 features
- | WAC support description
- | webRTC API's and WAC



How can I help?

| Plasma-Active

- <http://plasma-active.org/>
- mailing list: active@kde.org

| WebKit

- <http://www.webkit.org/>
- mailing list: webkit-dev@webkit.org

| W3C

- <http://www.w3.org/>

| WAC

- <http://www.wacapps.net/>



Quick Facts basysKom

- | Business focus High Quality Embedded Development Services
 Reliable Partner for Realizing Innovative Products

- | Owner Dr.-Ing. Eva Brucherseifer
 KDE e.V. President 2005 - 2007

- | Team 45
 25 Certified Qt Developers, thereof 6 Qt Specialists, 2 Qt Ambassadors

- | Locations Darmstadt, Germany (Headquarter)
 Nürnberg, Germany
 California, US (planned)

- | Milestones 2003 Market entry
 2004 first Embedded project, Qt based
 2005 Qt Partner
 2005 first browser software project
 2008 first project in the mobile market
 2010 founding member of Plasma Active
 2011 offering WebKit & HTML5 development



Contact

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