Symbian Web Tools
OSCON 2010

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Web Development Tools Agenda

- Web Development for Mobile Background
- Features, Components, and Open Source
- Demo
- Links
Web Development Trends

• There are an order or two of magnitude more web developers than C++ developers

• Increasingly complex Web applications :
  • JavaScript evolution
    • More Robust
      • jslint
    • Richer libraries : JQuery, YUI, Dojo, etc.
  • HTML5
    • Offline storage, canvas, media, etc.

• Standardization
  • Major mobile platforms creating differentiated programming environments – Objective C, Java, C++, etc.
  • But, they’re all using WebKit and moving to HTML5
  • **Web development is the best way to do cross-platform mobile apps**
Mobile Web Development Challenges

- Accessing mobile features
  - Geo Location
  - Vibration
  - Accelerometer
  - Contacts
  - SMS
  - Telephony

- Deployment

- Security
Symbian Web Development Tools

- A fully integrated experience to create Mobile Web Applications
  - Project management
  - Source editing
  - Previewing
  - Debugging
  - Packaging
  - Deployment
Based on Eclipse JSDT

- Unified project model fosters cross-IDE interoperability and community development

- Extends and leverages existing Eclipse projects
  - Eclipse UI for consistent user experience
  - Web Tools project as a basis for source editing support
  - JSDT extensions for mobile APIs support

- BUT, streamlined and focused on mobile web development!
Chrome Debugger Protocol

- Becoming De-facto standard for cross-device debugging
  - BONDI
  - Nokia
  - No browser plugin needed
  - No native implementation needed
Tools for Mobile Web

- Eclipse project to provide tools for web developers creating applications for mobile devices
- Initial contributors from Symbian Foundation and Aplix (BONDI SDK)
- Feedback and interest from SonyEricsson, IBM, RIMM, Nokia and Nitobi

PhoneGap Integration

- Out-of-box PhoneGap support
  - Project template and code snippets for smoother learning curve
  - Simulator with PhoneGap events support
  - PhoneGap-aware JavaScript editor
  - Package and deploy PhoneGap application to mobile device
Demo
Web Tools Future Directions

- On-device debugging

- More standardized web runtime API support
  - BONDI
  - JIL

- Standard javascript library support
  - General purpose ones such as jQuery, YUI, XUI
  - UI specific libraries such as Guarana UI

- Build momentum on Eclipse TMW

- Join us!
Symbian Web Tools Useful Links

- [http://www.phonegap.com](http://www.phonegap.com)
- Paul’s blog is at [http://paulbsymbian.wordpress.com/](http://paulbsymbian.wordpress.com/)
- Follow me on twitter at paulbeusterien
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