

Intents and Dependency Management



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#openintents



OpenIntents

Where Applications Unite!

No monoliths ..



but interconnected
components

All apps are equal!



OpenIntents.org

- Discussion group since 2007
- All about open applications and interoperability
- Open source
- List of Android libraries
- Intents registry
- Backed by OpenIntents UG (haftungsbeschränkt)
 - Closed source apps
 - Organizer of droidcon



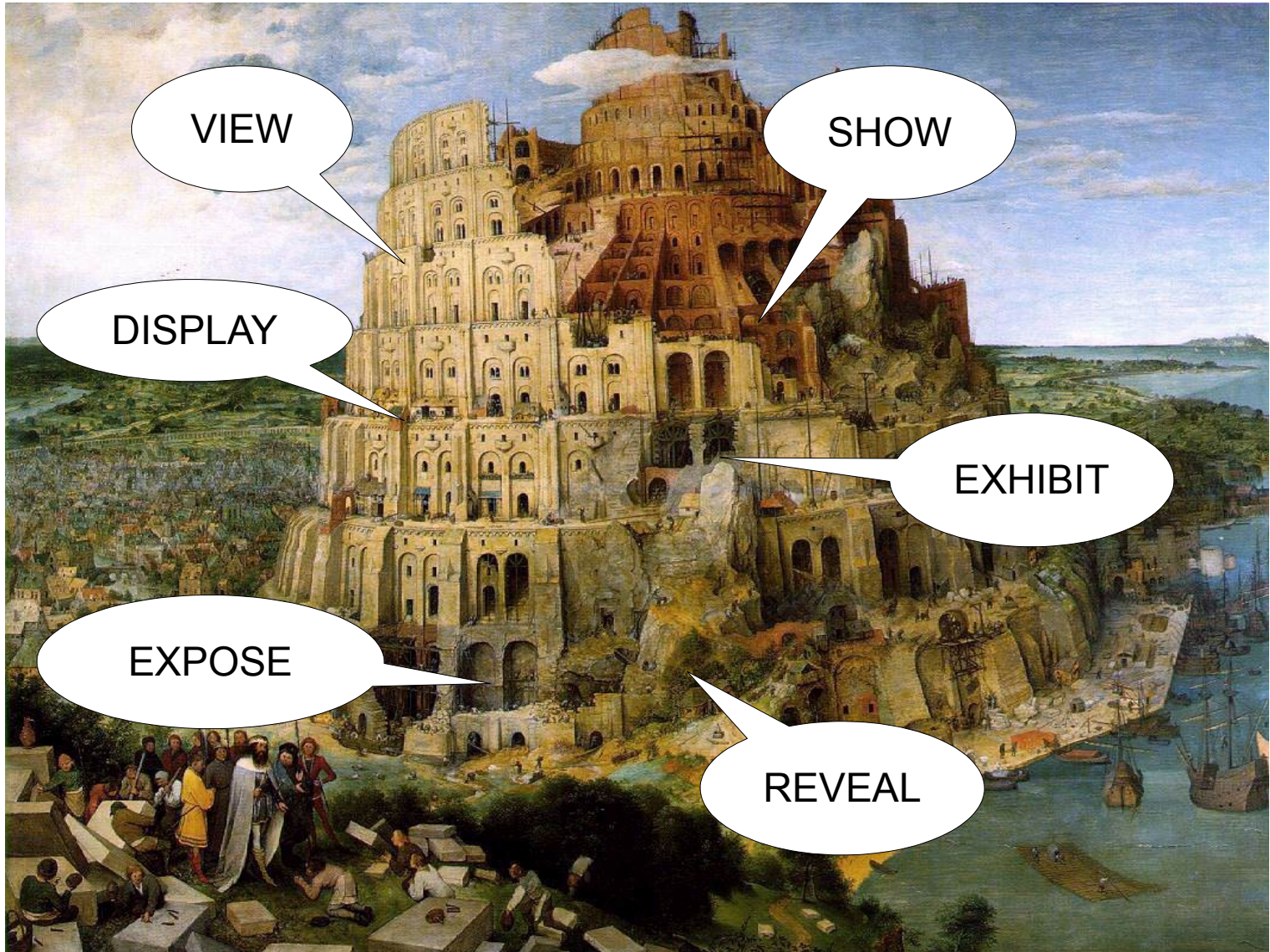


OpenIntents

Where Applications Unite!

Create new intents

Every developer can create their own new intents:



The Tower of Babel by Pieter Bruegel the Elder (1563)



Intent registry

www.openintents.org

- Browse and find intents, actions, applications, URIs, extras
- Promote your own intents and applications

As of January 2010:

>50 registered intents

Reuse components!
Don't reinvent the wheel!

The screenshot shows the OpenIntents website interface. At the top, there is a navigation bar with the OpenIntents logo on the left and links for 'Download', 'Intent registry', and 'Forum' on the right. The 'Intent registry' link is circled in red, and a red arrow points to it from the URL above. Below the navigation bar, there is a 'Home' link. The main content area displays a list item for 'Barcode Scanner - ZXing library'. This item has buttons for 'View', 'Edit', and 'Revisions'. Below the buttons, it shows the date and time 'Fri, 09/26/2008 - 19:07' and the user 'dswitkin'. The description for this intent includes 'Provides intents' and 'Provides intent actions:' followed by a list of actions: 'Encode', 'Main', 'Scan', 'Search book contents', and 'Share (through QR code)'. Below the description, it states 'Multi-format 1D/2D barcode reader.' and provides a paragraph of text: 'ZXing (pronounced "zebra crossing") is an open-source, multi-format 1D/2D barcode reader library implemented in Java. Our goal is to support decoding of QR Codes, Data Matrix, and the UPC family of 1D barcodes.'



Dependency Manager (1)

- Intents create dependencies between components
- Standard implementation:
 - run-time dependency check
late binding
 - nearly constantly connected
 - Programs handles missing components
e.g. direct user to app store or
explain missing feature



Dependency Manager (2)

- Components that rely on dependent components
 - A la distro package managers
 - Light-weight, late binding still possible
 - Helper library
 - Declaration in Manifest.xml

```
<meta-data android:name =  
    "org.openintents.dm.dependency-client"  
        android:resource =  
    "@xml/mandatory" />
```
- Resolution helper with UI
 - Interface to various sources, e.g. app stores, personal listings, etc.



Dependency Manager (3)

Demo



More info

- Web site:

www.openintents.org

- Developer group:
<http://groups.google.com/group/openintents>
- Code repository:
<http://openintents.googlecode.com>

droidcon 2010, 26/27 May, Berlin
All information at www.droidcon.de



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