What is so cool about Android 4.0

Lars Vogel (vogella)
3 Minute Android Intro
History lesson
Features of Android 4.0
Can I use it already?
About me – Lars Vogel

Independent Eclipse and Android consultant, trainer and book author

Eclipse committer

More then one million visitors at http://www.vogella.de
What is Android?
Software stack based on Linux

Open Source

Developed by Google
Market leader in the Smartphone area
880 000 new phone activations per day

(Febr. 2012)
Currently looser in the tablet space

(Number 2)
Programming

Using the Java language to create applications
We sue them for that!

BIG MONEY ahead!
The age of Android 3.x
Two different API's

Mobile

Tablet
If I only had the source code.
Google?
Android 4.0

One API
Source code available
Hardware Rendering
Holo Theme – Consistent Theming cross devices

android:theme="@android:style/Theme.Holo"

Theme: DeviceDefault
Resizable Widgets
StackView in Widgets
Drag & Drop
Calendar API
ViewPager
Properties
Animation API
Fragments
Fragments
More Stuff

Android Beam via NFC

Wi-Fi Direct

Social API

Bluetooth Health Device Profile

... audio and media
Can I use it?
<table>
<thead>
<tr>
<th>Platform</th>
<th>Codename</th>
<th>API Level</th>
<th>Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Android 1.5</td>
<td>Cupcake</td>
<td>3</td>
<td>0.6%</td>
</tr>
<tr>
<td>Android 1.6</td>
<td>Donut</td>
<td>4</td>
<td>1.0%</td>
</tr>
<tr>
<td>Android 2.1</td>
<td>Eclair</td>
<td>7</td>
<td>7.6%</td>
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<tr>
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<td>Froyo</td>
<td>8</td>
<td>27.8%</td>
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<tr>
<td>Android 2.3 -</td>
<td>Gingerbread</td>
<td>9</td>
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<tr>
<td>Android 2.3.2</td>
<td></td>
<td></td>
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<tr>
<td>Android 2.3.3 -</td>
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<tr>
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<td>10</td>
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<tr>
<td>Android 3.0</td>
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<td>11</td>
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<tr>
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<td>12</td>
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<tr>
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<td>13</td>
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</tr>
<tr>
<td>Android 4.0 -</td>
<td>Ice Cream</td>
<td>14</td>
<td>0.3%</td>
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<tr>
<td>Android 4.0.2</td>
<td>Sandwich</td>
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<tr>
<td>Android 4.0.3</td>
<td></td>
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<td>0.7%</td>
</tr>
</tbody>
</table>
Comp Lib v4

Fragments
Solution for ActionBar
ViewPager
GridLayout promised
Own package
Android 4.0
Android: Where to go from here:

Android Introduction Tutorial
http://www.vogella.de/articles/Android/article.html

Or Google for „Android Development Tutorial“

Android SQLite and ContentProvider Book
http://www.amazon.com/dp/B006YUWEFE

More on Android
http://www.vogella.de/android.html
Thank you

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