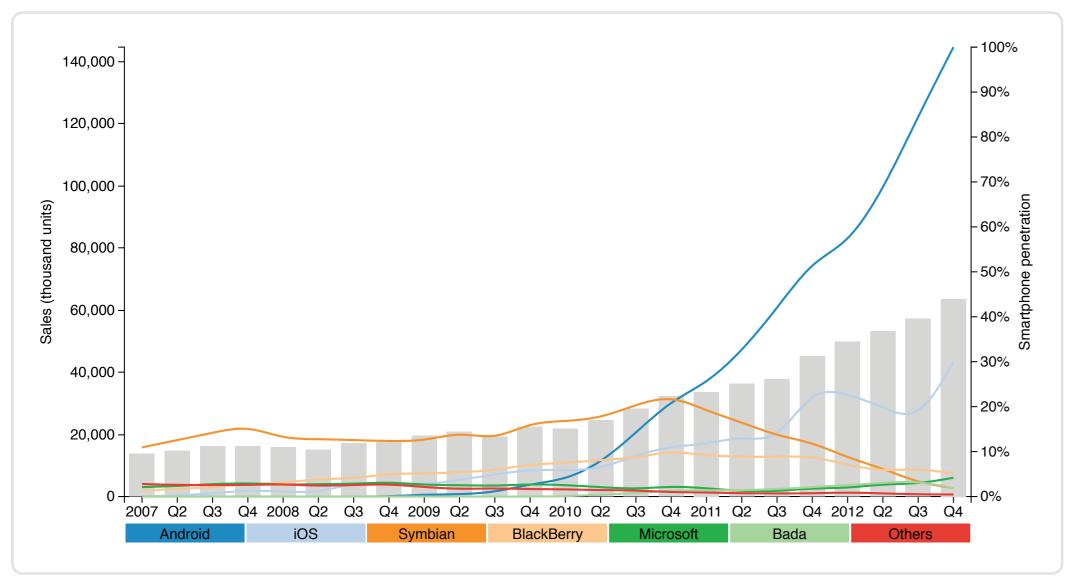


## A comparative study of cross-platform tools for mobile application development

Michiel Staessen, department of computer science, KU Leuven 2012 – 2013

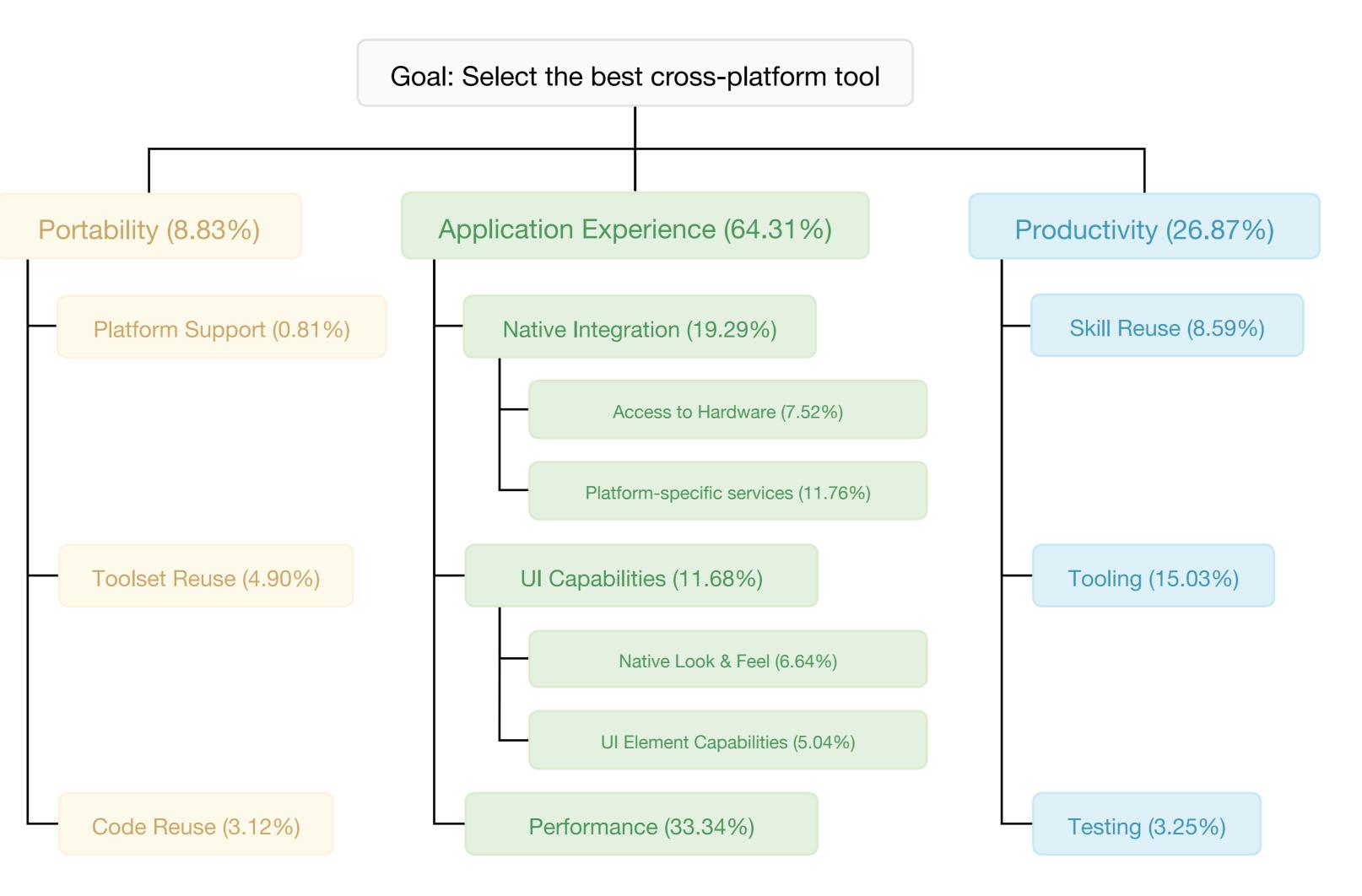


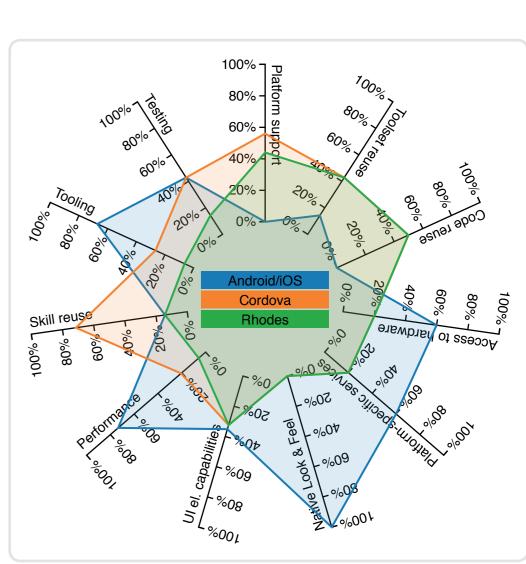
## What is a cross-platform tool?

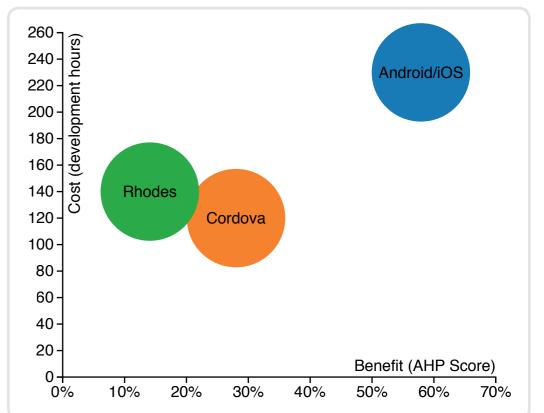
A cross-platform tool allows the development of applications for multiple platforms from a single codebase.

### They...

- ... reduce entry- and exit barriers, ... deal with fragmentation,
- ... provide easy access to new platforms and screens, ... allow for efficient use of developer resources.





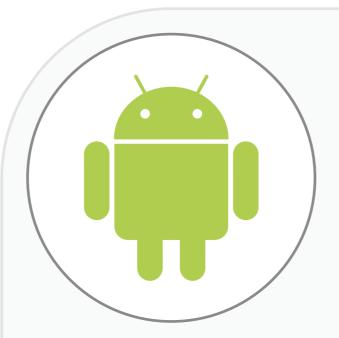






# Apache Cordova

- Produces hybrid applications
- HTML5 JavaScript CSS
- Free (Apache 2.0 open source license)
- Extendable plugin system
- Extremely easy to adopt
- No native look & feel



#### Android

- Native apps
- Java + XML
- High performance
- Cheap
- Awful runtime fragmentation

iOS

#### oid

- Native apps
- XML Objective-C
  - High performance
    - Great IDE
    - Rather expensive





#### **Motorola Rhodes**

- Produces interpreted/hybrid applications
- Ruby + HTML(5) JavaScript CSS
- Free (MIT) + paid extensions (RhoMobile)
- Targets enterprise applications
- Not extendable
- Poor performance and tooling