

WELCOME

Mobile Applications Testing



Mobile Ecosystem

Mobile World Statistics

Carriers/Service Providers

Network

Manufactures

Devices

Platforms/OS

Frameworks

API-Apps

Services

FRAMEWORKS : distinguishing features

SOFTWARE FRAMEWORK

Sets of libraries or classes

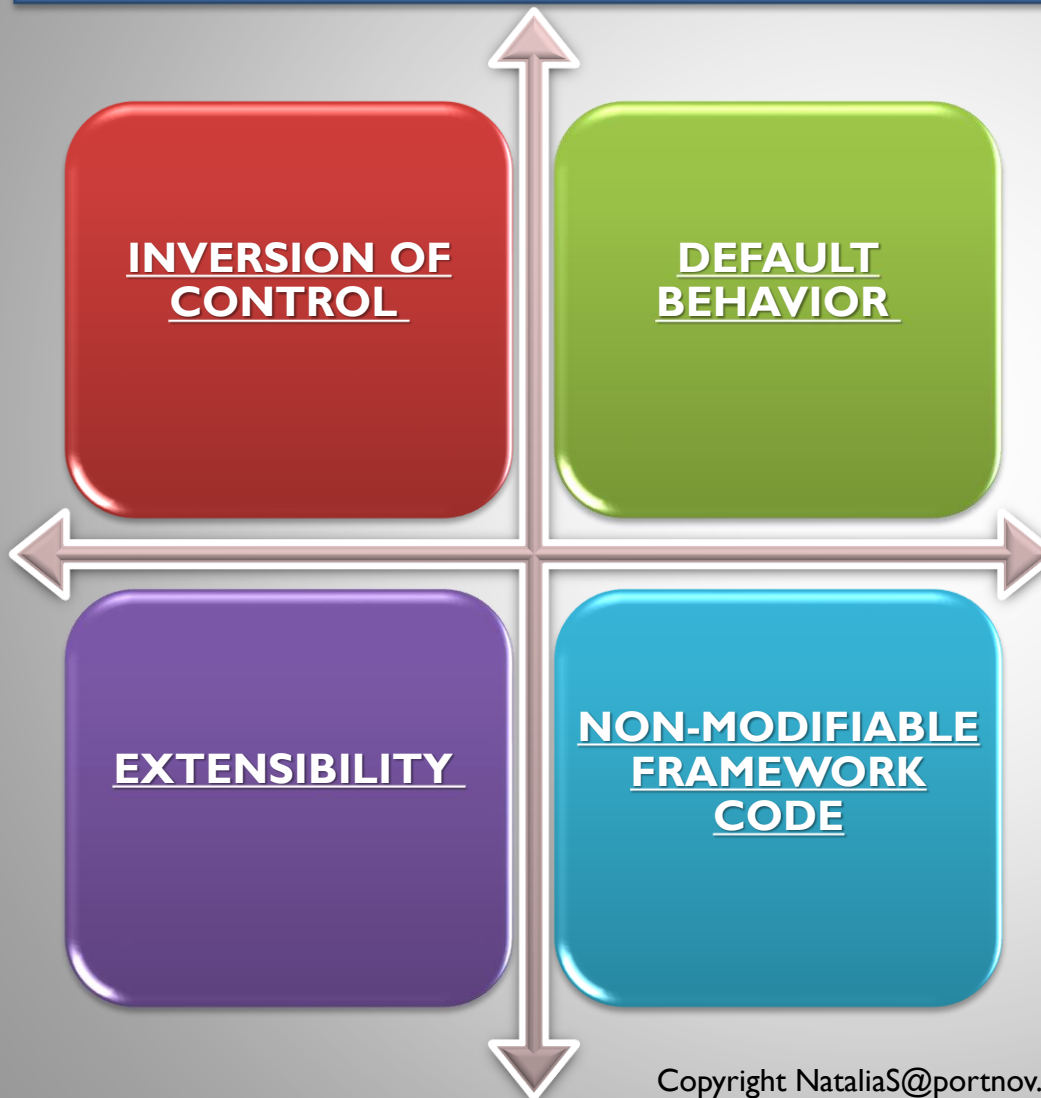
Built-in generic functionalities,
Deals with standard low-level details

Reusable software environment

Working template application

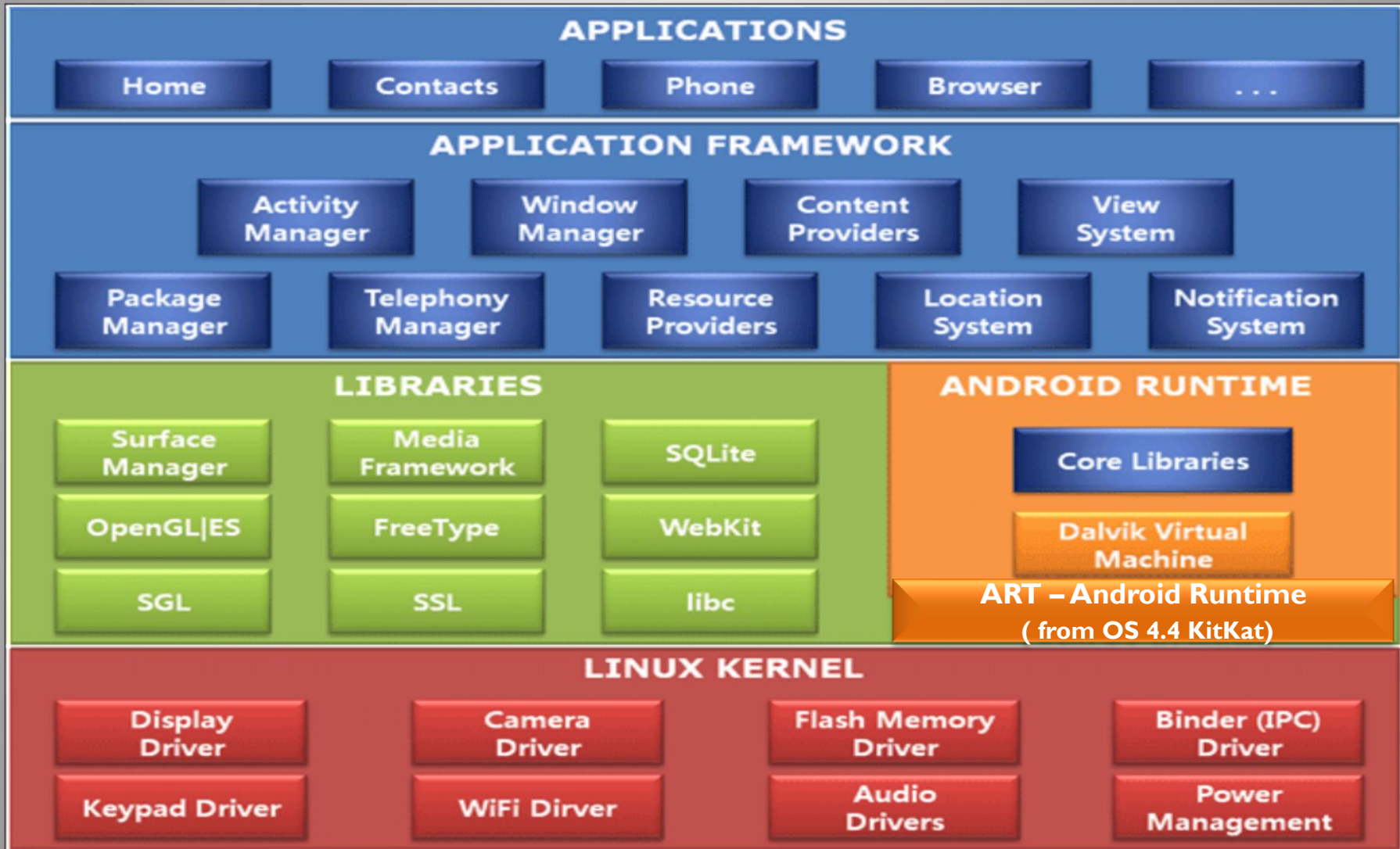
Can be modified by writing additional code

FRAMEWORKS : distinguishing features



Platforms / OS :

ANDROID ARCHITECTURE



FRAMEWORKS

Example → ANDROID APP

Application Framework sits on top of native libraries, android runtime and Linux kernel.

This framework come pre-installed with high-level building blocks that developers can use to program applications.

RIGHT SIDE → the most important application framework components for our application and Android development in general.

Activity Manager

• **Manages the lifecycle of application**

Content Provider

• **Stores and retrieves data and makes it accessible to all applications**

View system

• **Handles GUI related Tasks**

Package Manager

• **Retrieves various info related to the currently installed app on a device**

Resource Manager

• **Provides access to non-code resources such as icons, etc**

Location Manager

• **Location-based and related services**

Notification Manager

• **Executes and Manages all Notifications, alerts, etc**

FRAMEWORKS

Example → Win CE and OS X

SF is a universal, reusable software platform used to develop applications, products and solutions.

SF include support programs, compilers, code libraries ,APIs and tool sets that bring together all the different components to enable development of a project or solution.

- Platform: Windows CE □
- OS: Windows Phone
- Framework: .NET

- Platform: OS X □
- OS: iOS
- Framework: Cocoa Touch



FRAMEWORKS : CONCLUSION

SUMMARY

Soft development is about getting stuff done, not figuring out how to get it done.

Frameworks and libraries help the developers focus on creating rather than figuring stuff out.

Rather than reinventing the wheel, Developers can use a framework or library to delegate brunt, noncreative and repetitive work, freeing up their time and energy to create the actual website or application.

