

Each software needs to embrace a certain number of characteristics.

Characteristics of a Software

- Maintainable and Extendable
- Testable
- Understandable for new developers

Let's take a look at what does each characteristic means.

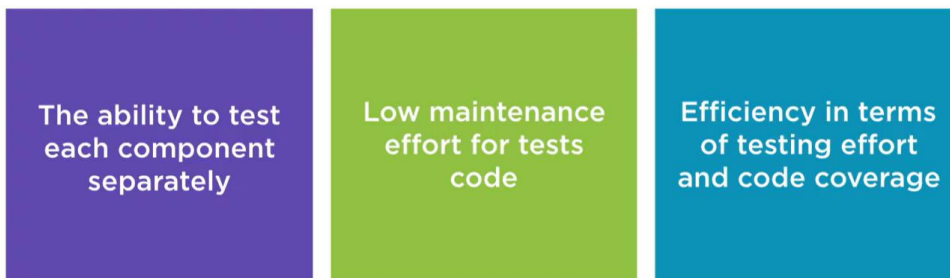
Maintainable Software:



Extendable Software:



Testable Software:



Understandable for new Developers (Stakeholders):



*“Truth can only be found in one place:
the code.”* -Robert C. Martin

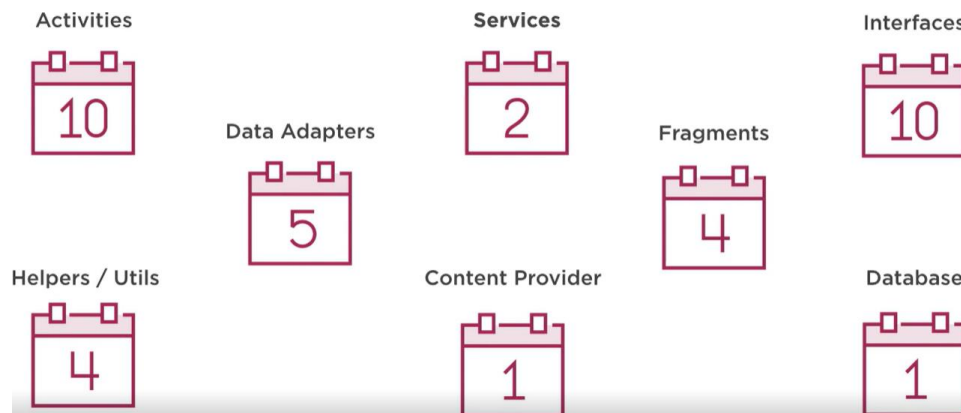
Evaluating the complexity of Android Applications

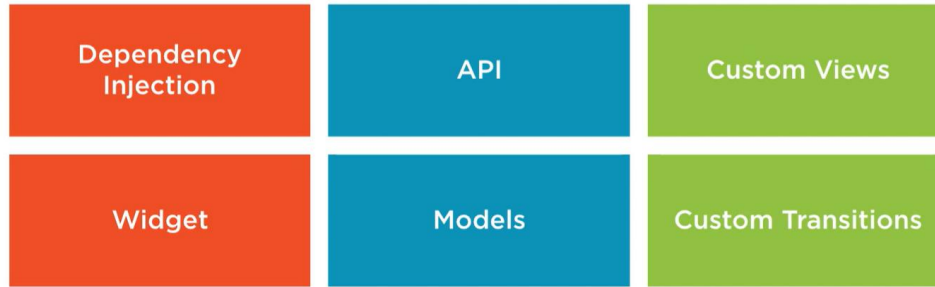
Android applications may seem very simple from the outside but they can become quite complex on the inside.

- Can become very complex
- High number of core components
- High number of libraries
- Have restrictions from the OS
- Components have to comply to restrictions

A typical Android Application

A typical android application seemingly simple can have huge number of components in it. To get a better idea, look at the following structure of a typical android application





Interoperability between Components

Another important feature of android applications is interoperability between different components. To effectively use and implement this, it must be:

- Highly decoupled from each other
- Able to consistently communicate with each other