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# **Software Engineering and Architecture**

The Framework Week

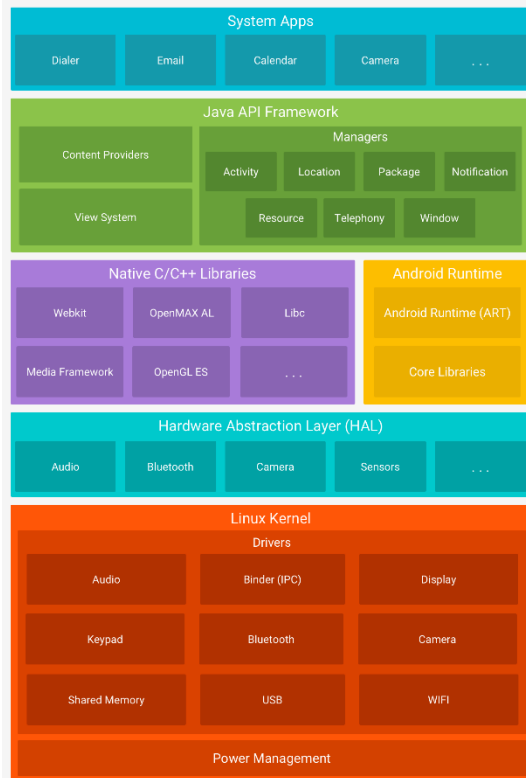
- Up until now we have discussed
  - A lot of Patterns which underlying *flexible architectures*
    - Supporting variations of software along *one axis/dimension*
    - Strategy: Vary between *algorithms* to fulfill responsibility
    - Etc.
- The Theme of this week is
  - Frameworks: Combining Patterns to have *flexible systems*
    - Supporting variations in a (large) set of dimensions
  - A great showcase of *the power of patterns...*

# Programming Smartphones

## ANDROID PLATFORM ARCHITECTURE

One child, many names...  
*Platform, stack*

Framework





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- And already building one 😊

# Another one

- HotStone...

- Start by a (smaller than Android) example
  - MiniDraw
- Provide hints for Iteration 8 mandatory
  - To get you going...
- Define Frameworks from a theoretical perspective
  - Terminology, structure, benefits and liabilities
  - Exemplify
    - MiniDraw, Your HotStone, Android, Java Swing, ...
  - ... as Screencast...