
Overview of Computers

Instructor – Dr. Shiv Ram Dubey

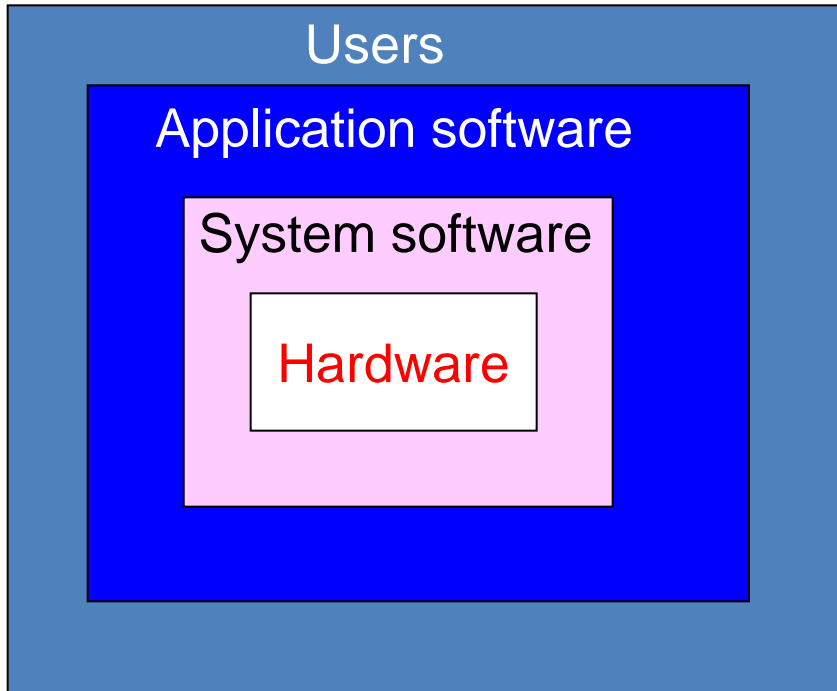
Software

Software ?

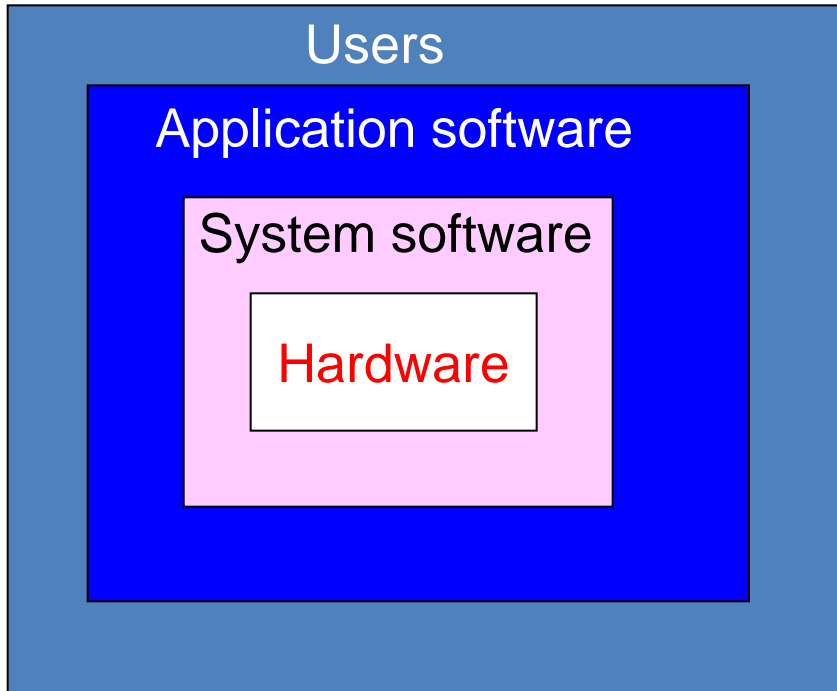
Software

- Software, in its most general sense, is a set of instructions or programs instructing a computer to do specific tasks.
- Software is a generic term used to describe computer programs.
- Scripts, applications, programs and a set of instructions are all terms often used to describe software.

Layers of Software

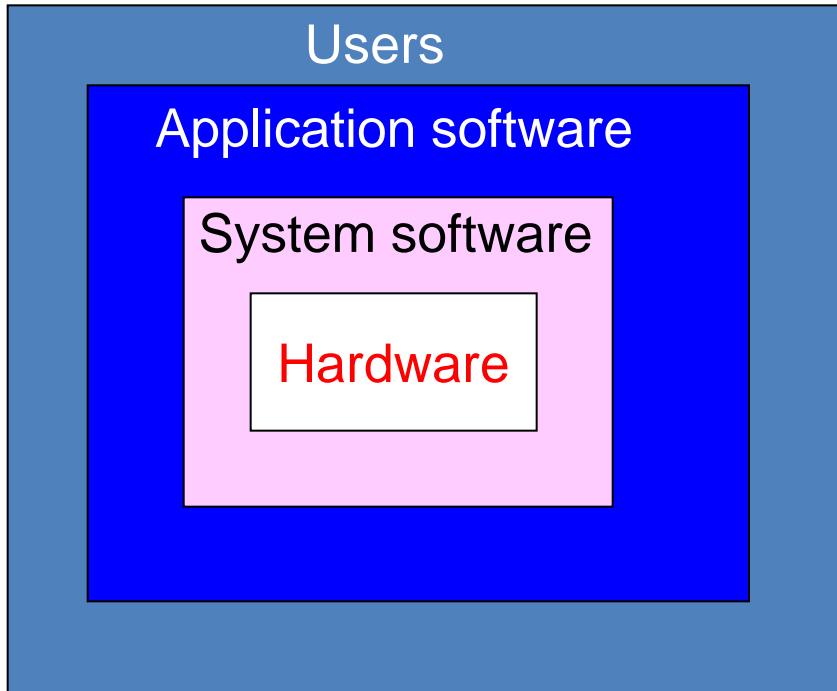


Layers of Software



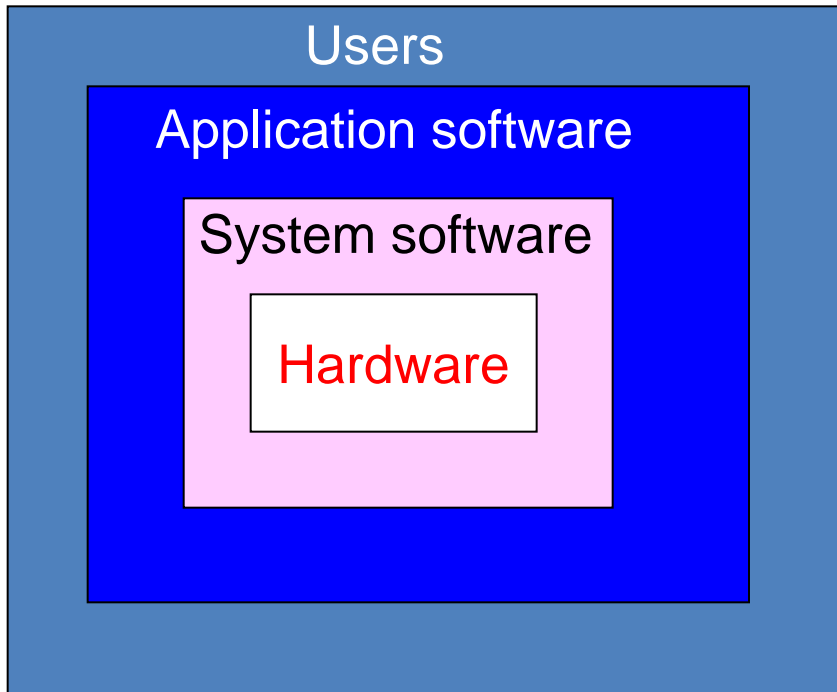
What is Hardware?

Layers of Software



What is Users?

Layers of Software



What is Users?



Users

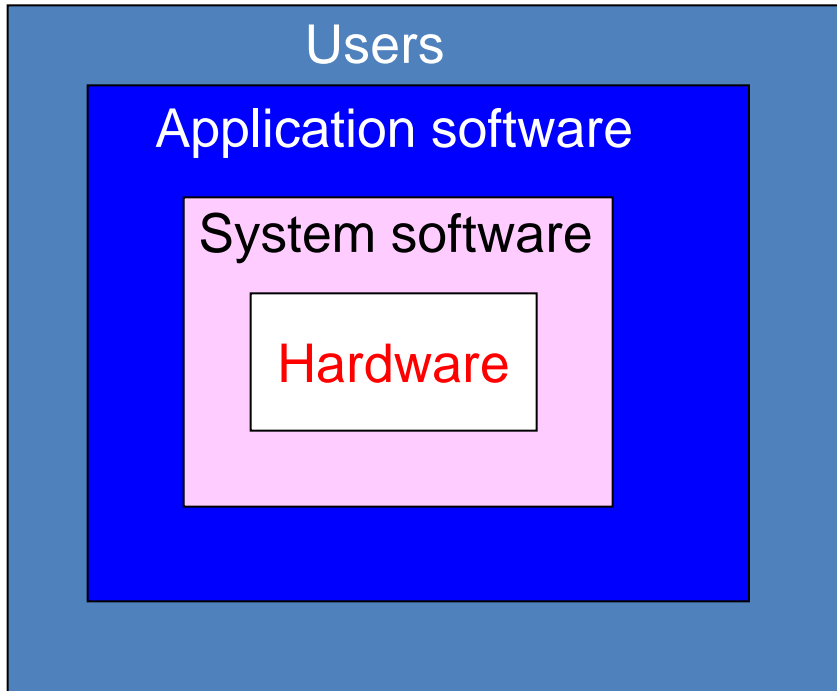
Application
software

Operating
and
systems
software



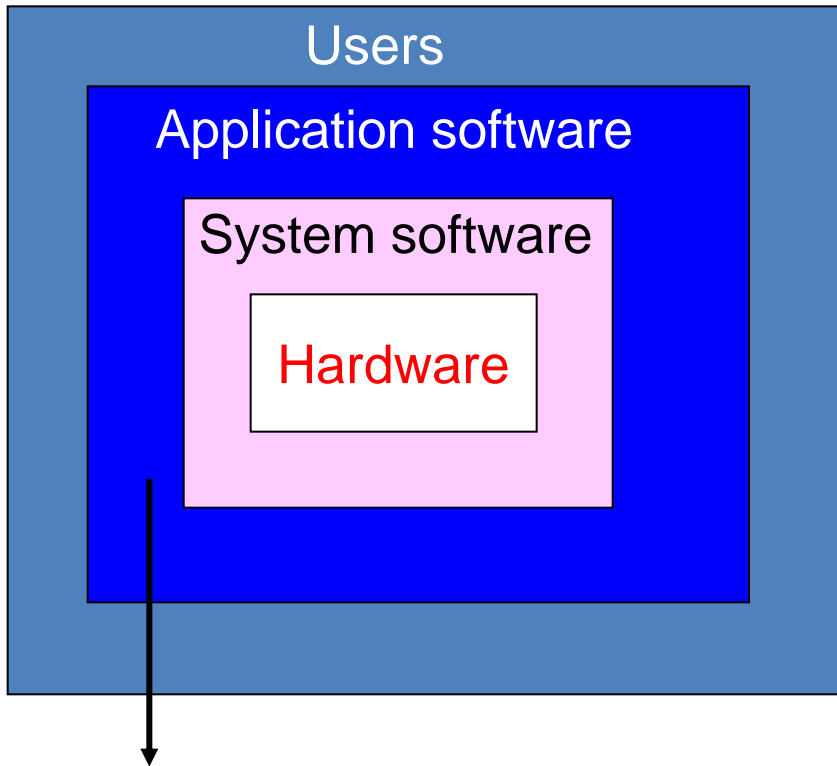
Hardware

Layers of Software



What is Application SW?

Layers of Software



Application Software

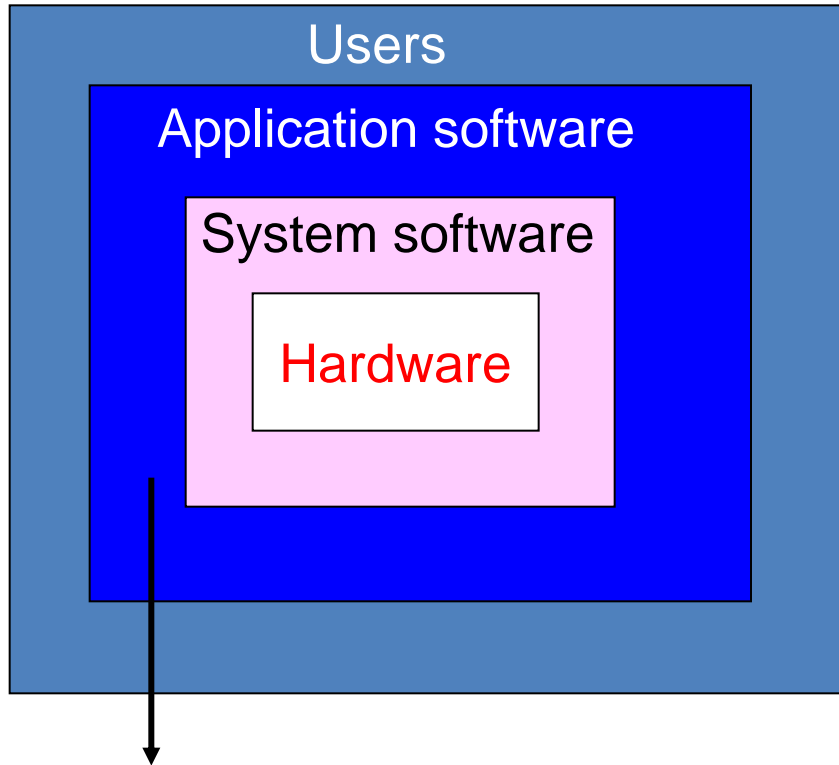
Programming languages

Assembly language

Banking software

Office, etc.

Layers of Software



Application Software

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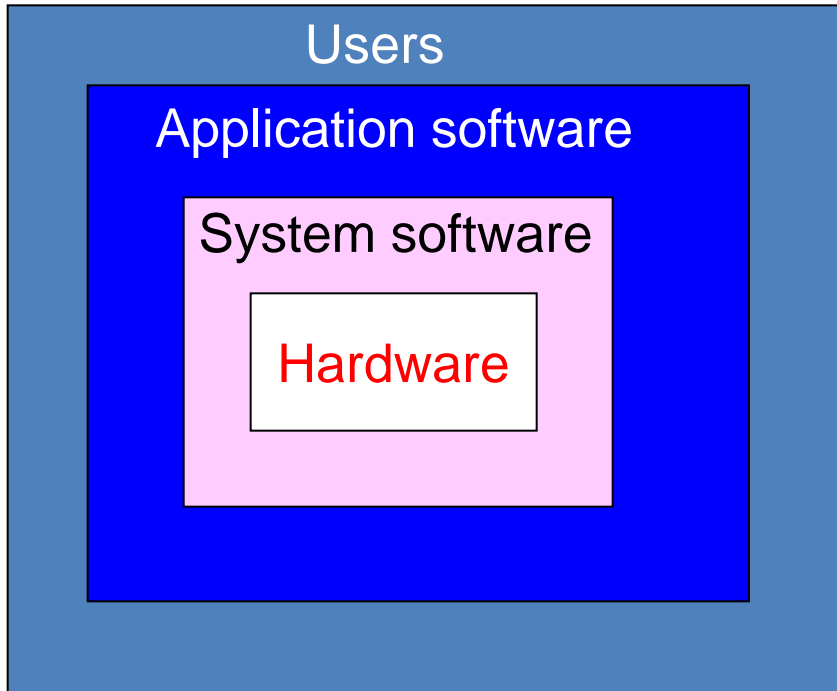
* The Big Picture *

Application software

It is the reason that one wants to buy a computer:

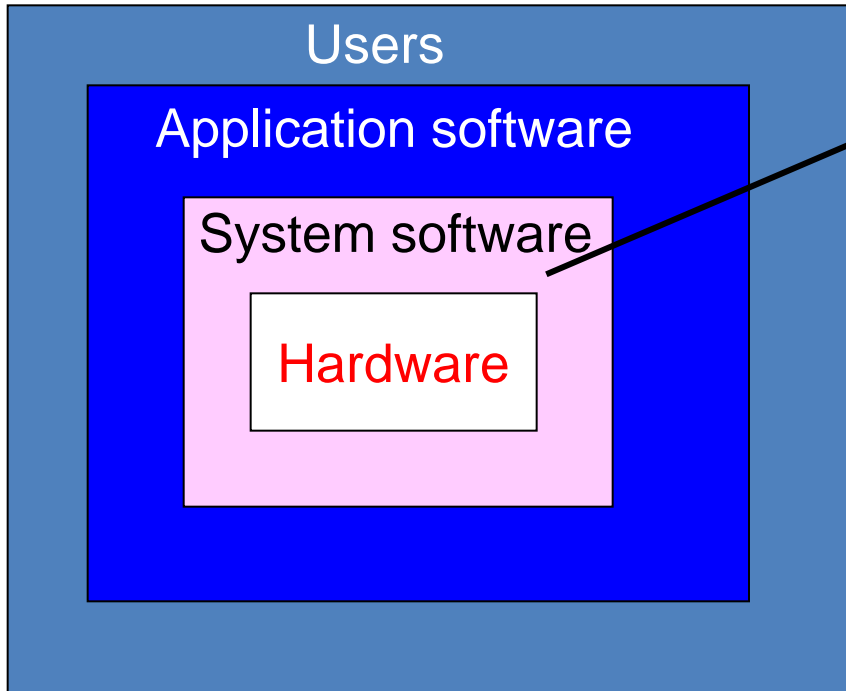
- printout out paychecks
- play Mortal Kombat
- keep track of a stamp collection
- do your taxes
- generate a fancy newsletter
- guide robots
- keep a budget
- draw a flowchart
- browse the Web
- design a car

Layers of Software



What is System SW?

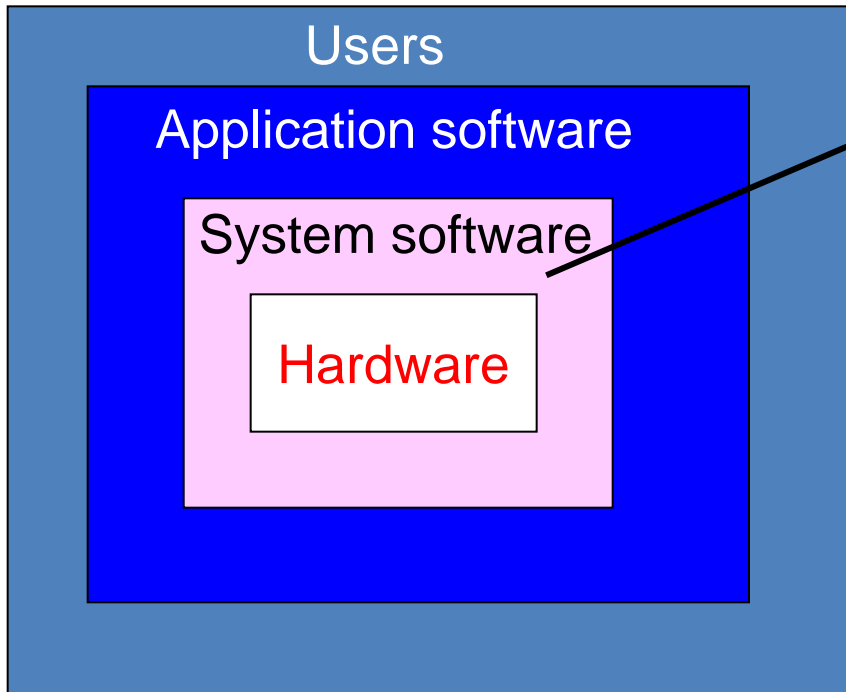
Layers of Software



System Software

- Is an interface or buffer between application software and hardware
- Controls the computer hardware and acts as an interface with applications programs

Layers of Software

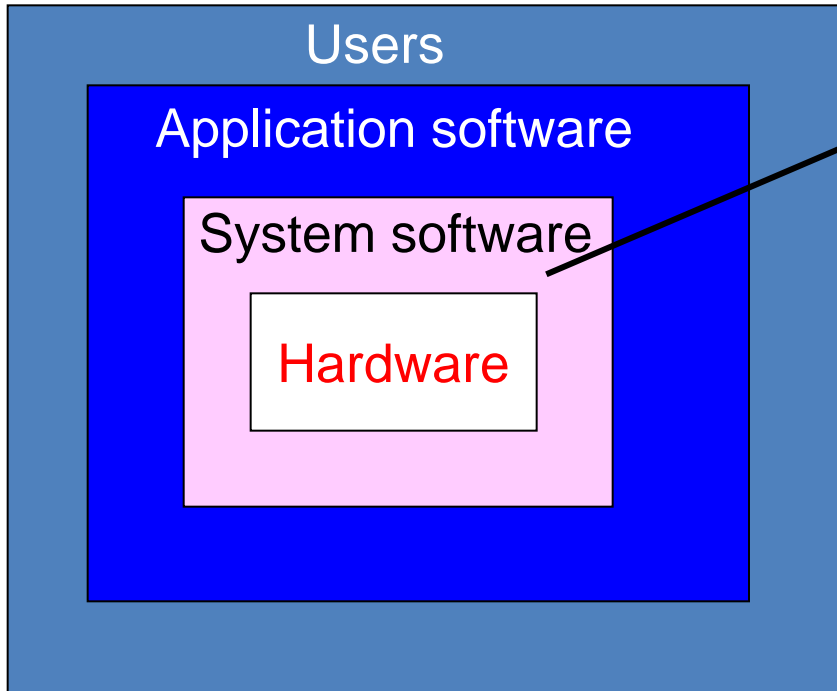


System Software

Operating Systems

An operating system is the software that bridges the gap between the system and the user.

Layers of Software



System Software

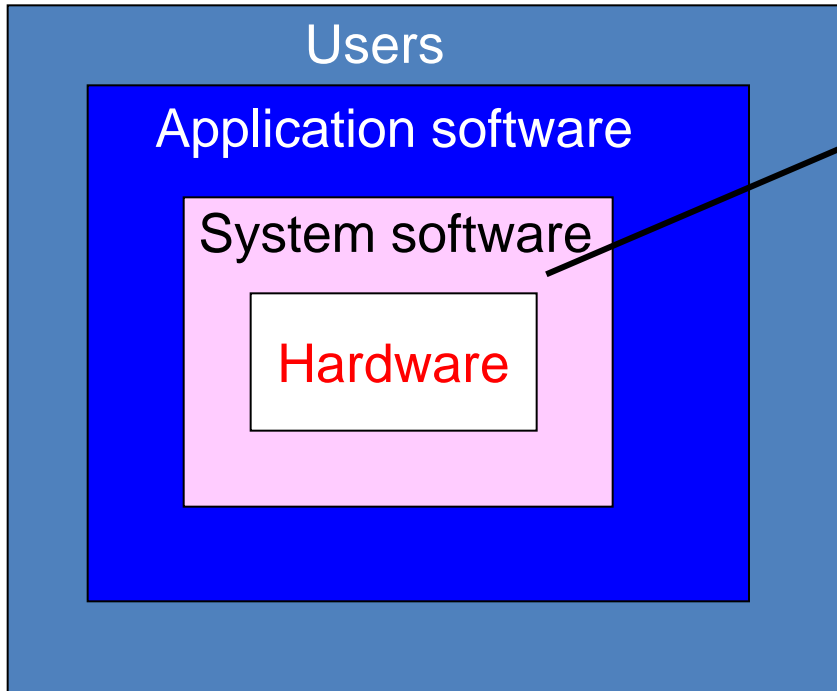
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Utility Programs

Utility software performs actions essential for protecting, guiding, securing, and storing information or data appropriately in the system.

Layers of Software



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Utility Programs

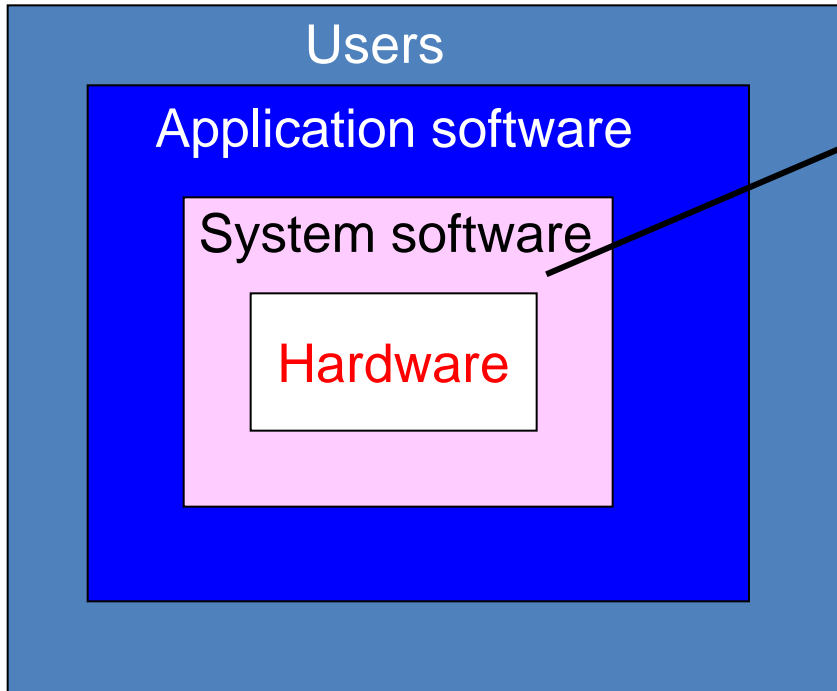
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Language Translators

Interpreters

Compilers

Layers of Software



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Device Drivers

Software for handling the peripheral devices