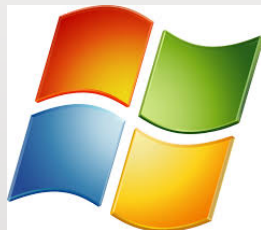
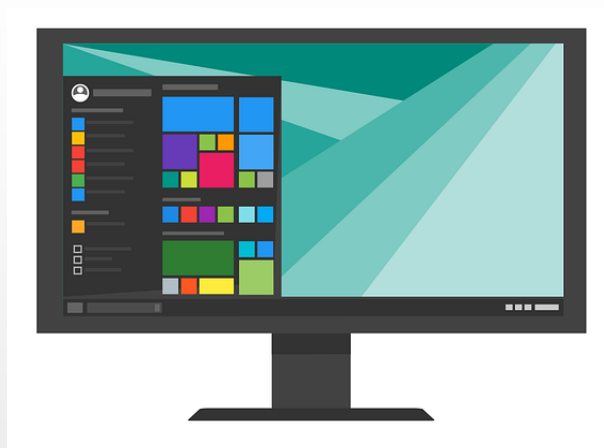




INTRODUCTION TO OPERATING SYSTEM





History Overview

First Generation

- 1940's - 1950's
- First electronic computer introduced without any operating systems
- Solve simple problem using mathematical model

Second Generation

- 1950's – 1960's
- First OS called GMOS – General Motors – IBM's machine – the 701
- Single system batch processing
- Mainframes – operated by professional operator

Third Generation

- 1960's – 1980'
- Multiprogramming system
- Growth of minicomputers (DEC PDP-1 in 1961)
- Help generation of personal computer

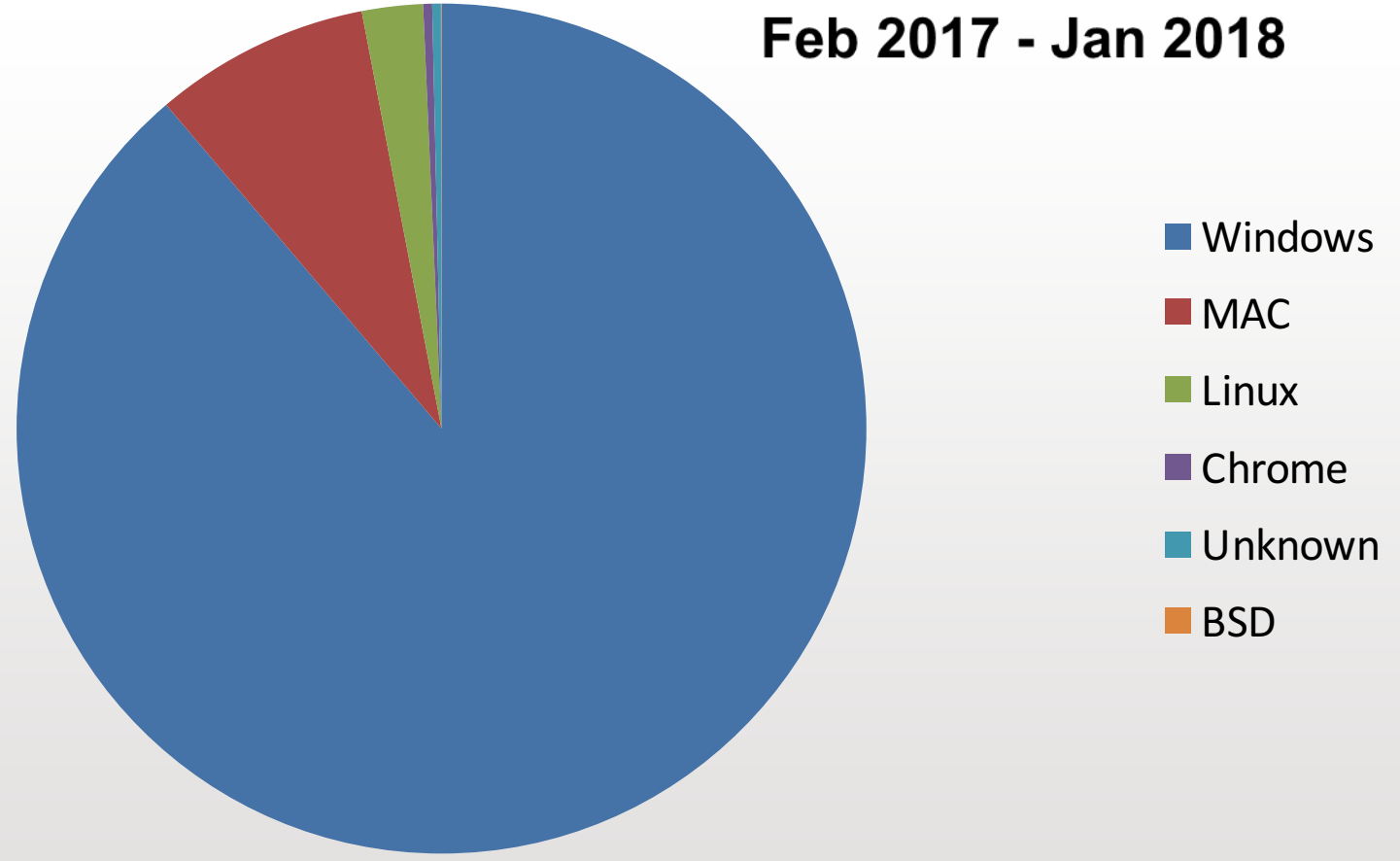
Forth Generation

- Creation and development of personal computer
- Small fraction of minicomputers
- Windows OS - 1975 (Paul Allen and Bill)
- MS-DOS – 1981



Desktop/ Laptop OS Market Share

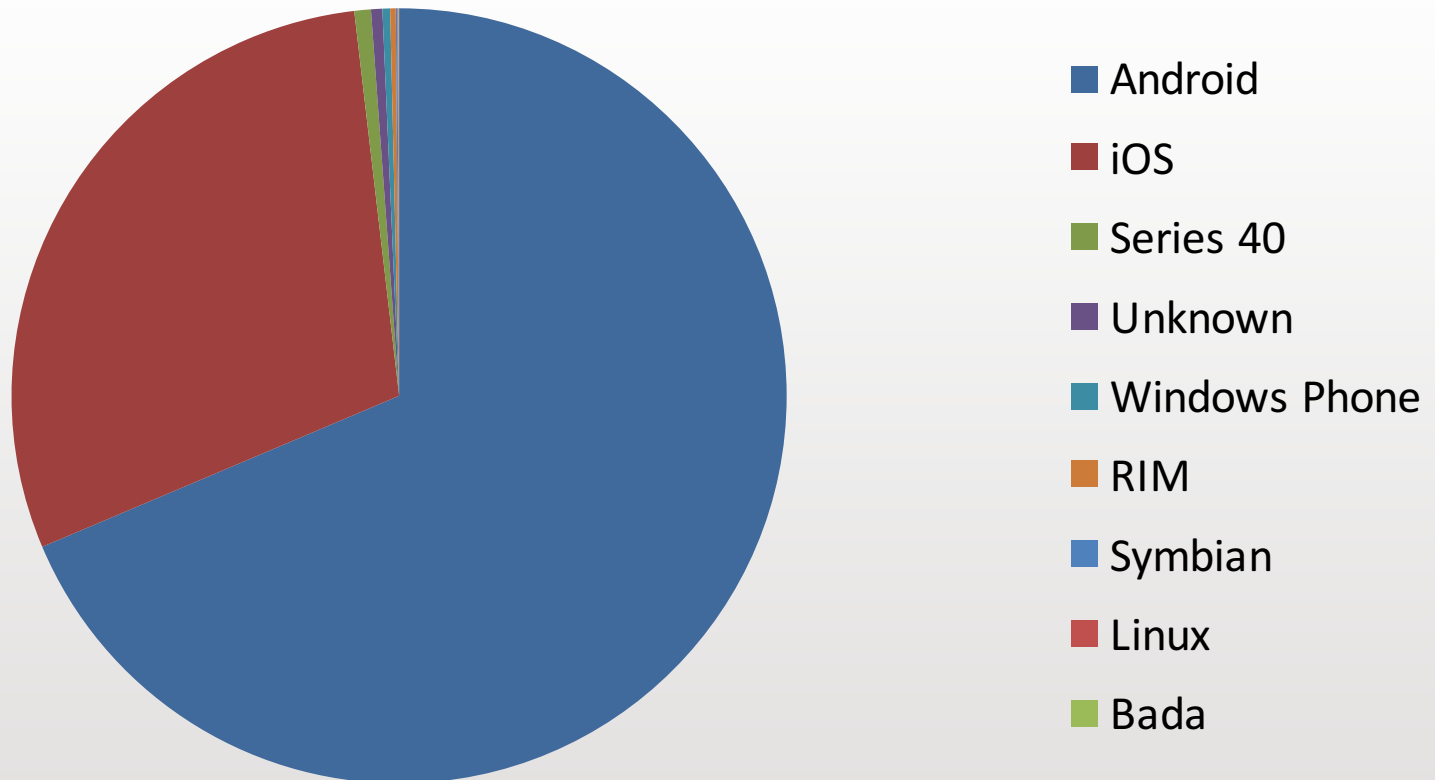
Feb 2017 - Jan 2018



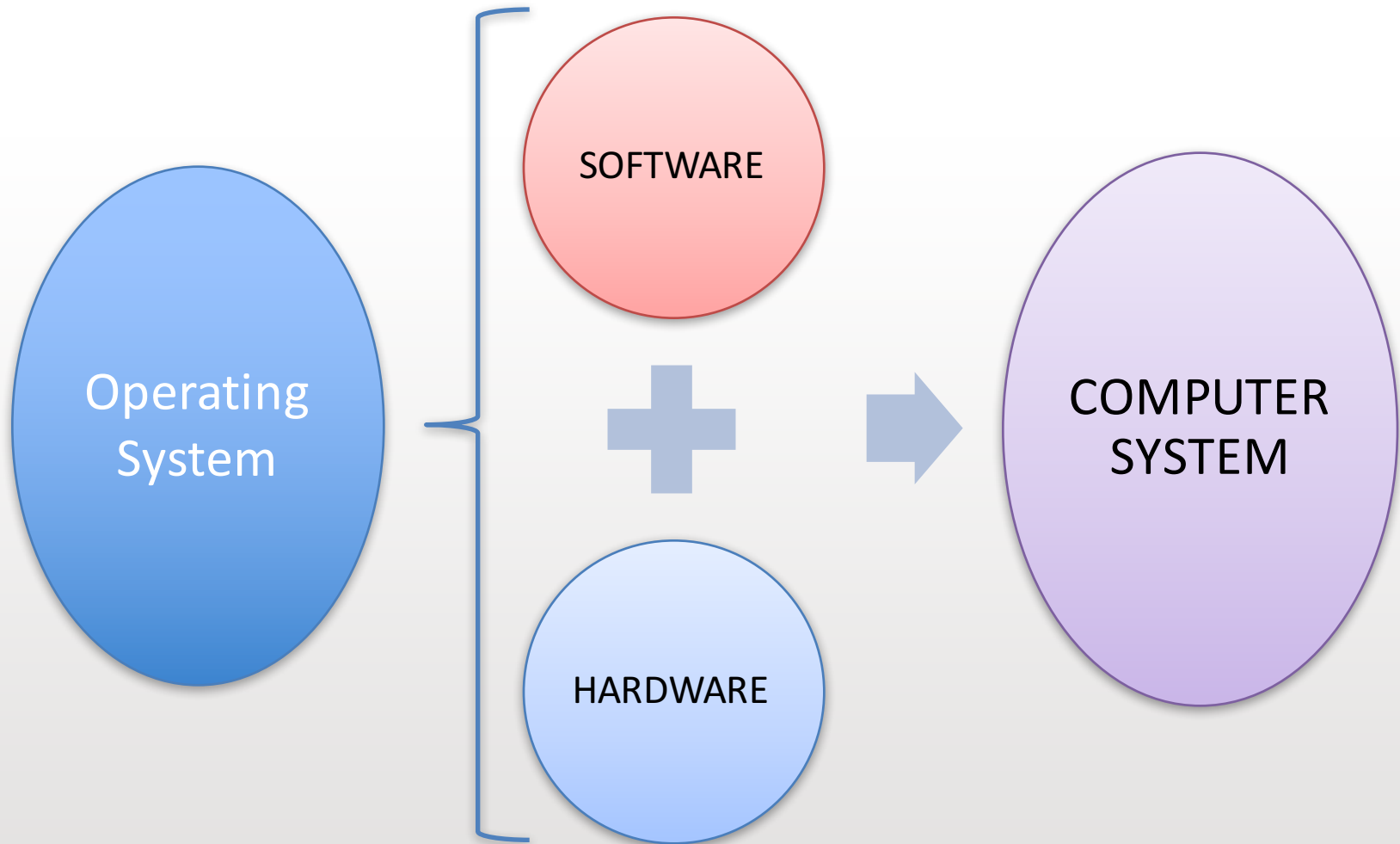


Mobile OS Market Share

Feb 2017 - Jan 2018

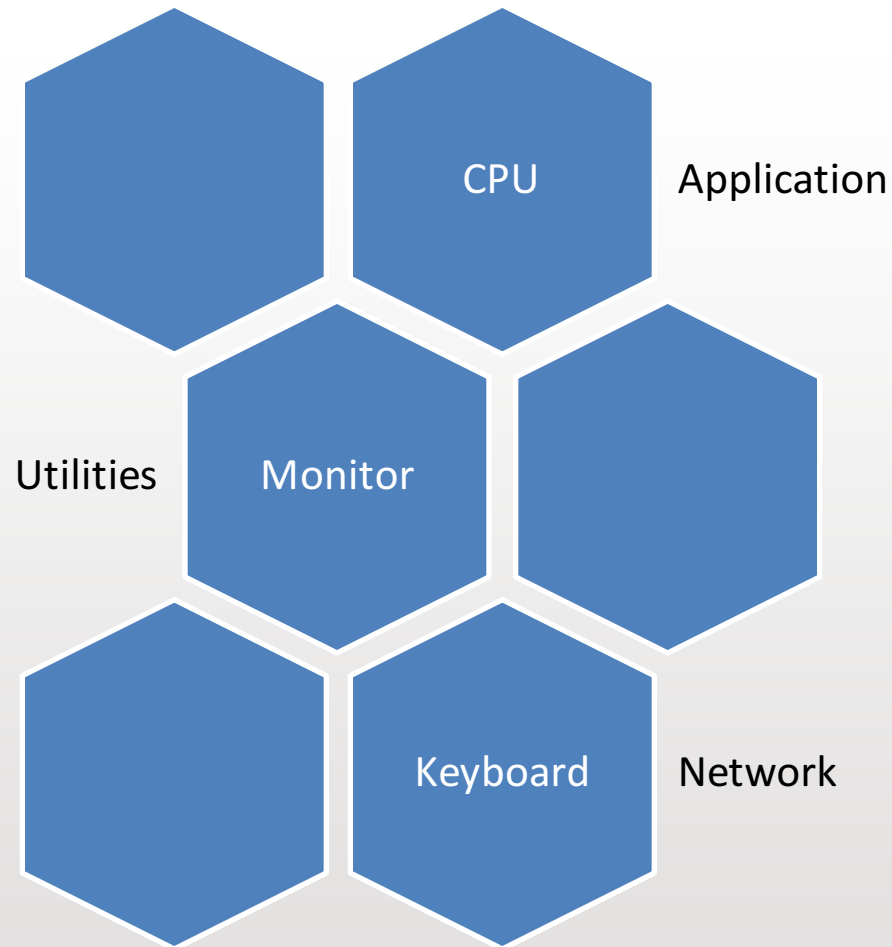


- Android
- iOS
- Series 40
- Unknown
- Windows Phone
- RIM
- Symbian
- Linux
- Bada





Part of OS Composition





Operating System

- Part of computer system (software)
- Controls the execution of application programs
- In-between user and hardware.
- Controls hardware and software
 - file, device, section of main memory and nanosecond of processing time
 - who can use the system
 - how system is used



Operating system goals

- Execute user programs
- User problems solving easier
- Computer system is suitable to use
- Hide difficulty of hardware
- Use computer hardware in well-organized