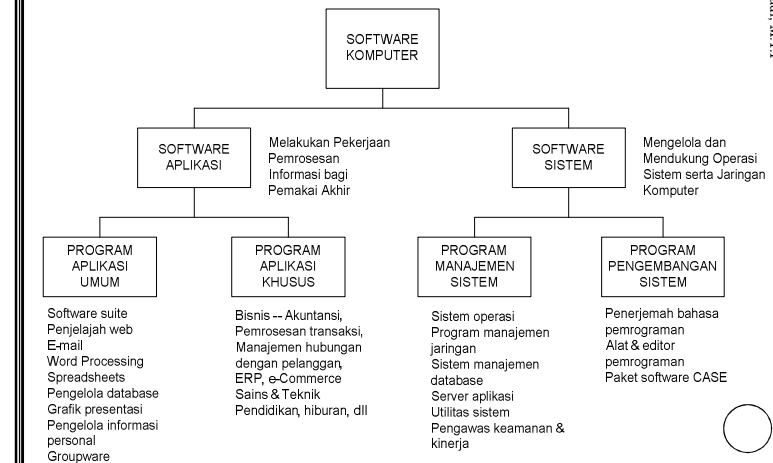


## Software Komputer

By : Hendri Sopryadi, M.T.I

Hendri Sopryadi, M.T.I

## JENIS-JENIS SOFTWARE

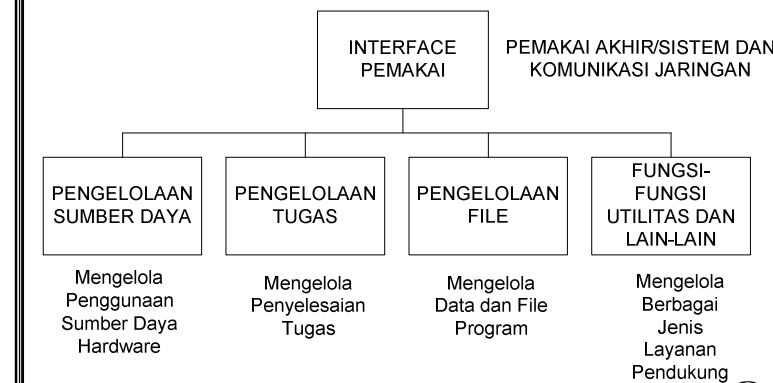


## Alternatif-Alternatif Software

- Sistem Operasi
  - Microsoft Windows
    - Windows 98
    - Windows NT
    - Windows XP
    - Windows 2000
  - UNIX
  - Linux
  - Novell Netware
  - Mac OS X

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## FUNGSI SISTEM OPERASI



## Bahasa Pemrograman

- Bahasa mesin (generasi I)
- Bahasa assembler (generasi II)
- Bahasa tingkat tinggi (generasi III)
  - COBOL
  - Basic
  - Fortran
- Bahasa berorientasi object
  - C++
  - Visual Basic

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## Bahasa & Layanan Web

- HTML (Hypertext Markup Language) → mendeskripsikan halaman web
- XML (eXtensible Markup Language) → mendeskripsikan isi dari halaman-halaman web
- Java → terdiri dari beberapa program aplikasi kecil yg disebut *applets*

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## Biaya Perangkat Lunak

- Berkaitan dgn biaya utk mendapatkan perangkat lunak, perangkat lunak dapat dikelompokkan menjadi:
  - Perangkat lunak komersial
  - Shareware
  - Freeware

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## Shareware

- Shareware = perangkat lunak yang bisa digunakan oleh pemakai dgn tujuan utk dievaluasi selama masa tertentu tanpa membayar sama sekali

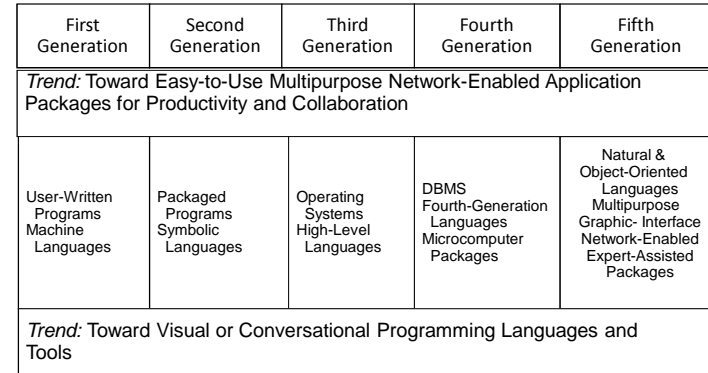
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## Freeware

- Freeware = perangkat lunak yang dapat dipakai oleh siapa pun tanpa membayar sama sekali

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## Trends in Computer Software

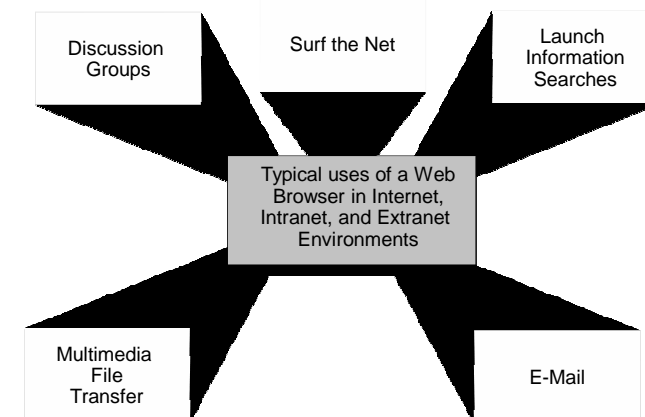


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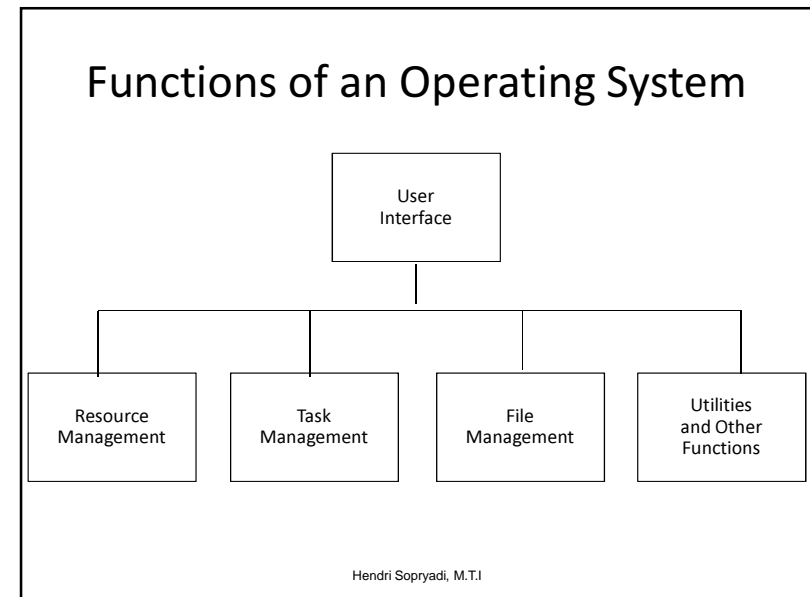
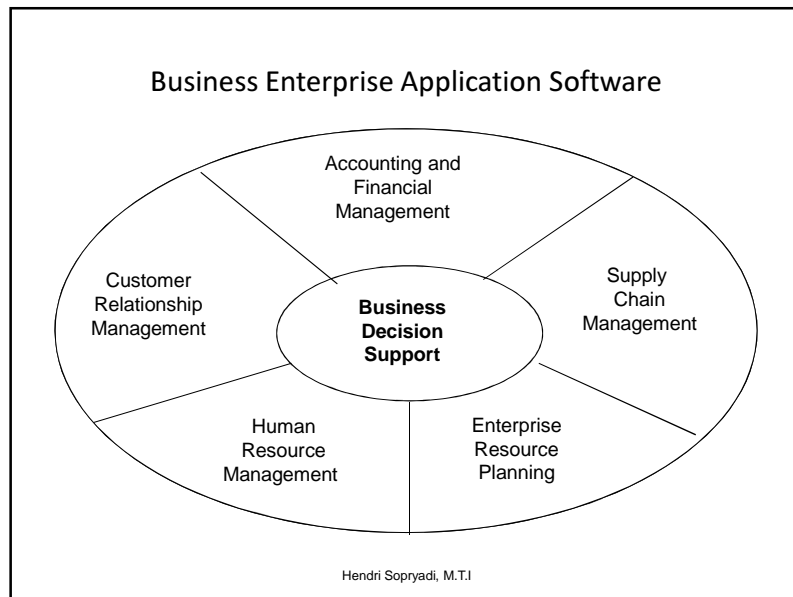
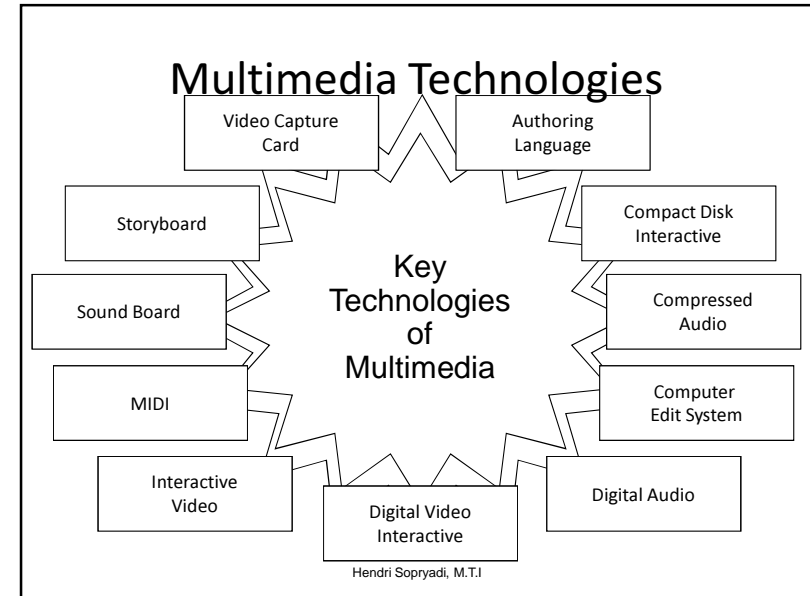
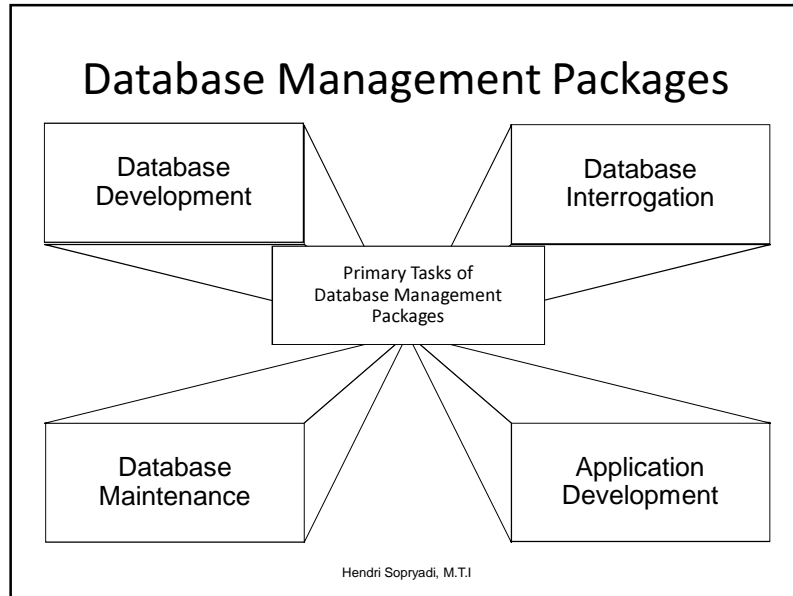
## Common General- Purpose Applications

- Electronic Mail
- Word Processing
- Presentation Graphics
- Multimedia
- Personal Information Manager
- Groupware

## Web Browsers



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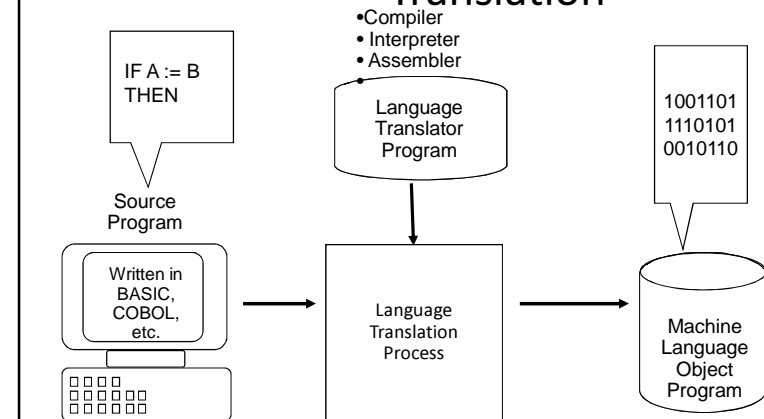


## Categories of Programming Languages

<u>Machine Languages</u> Use binary coded instructions  1001 1001 1100 1101	<u>High Level Languages</u> Use brief statements  Compute X = Y + Z	<u>Markup Languages</u> Use embedded control codes  <H1>First heading</H1> <!ELEMENT Product (#Item   manuf)>
<u>Assembler Languages</u> Use symbolic coded instructions  LOD Y ADD Z	<u>Fourth Generation Languages</u> Use natural statements  SUM THE FOLLOWING NUMBERS	<u>Object-Oriented Languages</u> Define objects that contain data and actions  Document.write ("Hi There")

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## Programming Language Translation



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## Chapter Summary

- Computer software consists of two major types of programs: application software that directs the performance of a particular end user task, and system software that controls and supports the operations of a computer system.
- Application software includes a variety of programs that can be segregated into general-purpose and application-specific categories.

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## Chapter Summary (cont)

- System software can be subdivided into system management programs and system development programs. The former is used to manage hardware, software, networks, and data resources. The latter is used by IS specialists to develop computer programs.
- An operating system is an integrated system of programs that supervises the operations of the CPU.

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## Chapter Summary (cont)



- **There are 5 major levels of programming languages. Language translator programs convert programming language instructions into machine language instructions.**