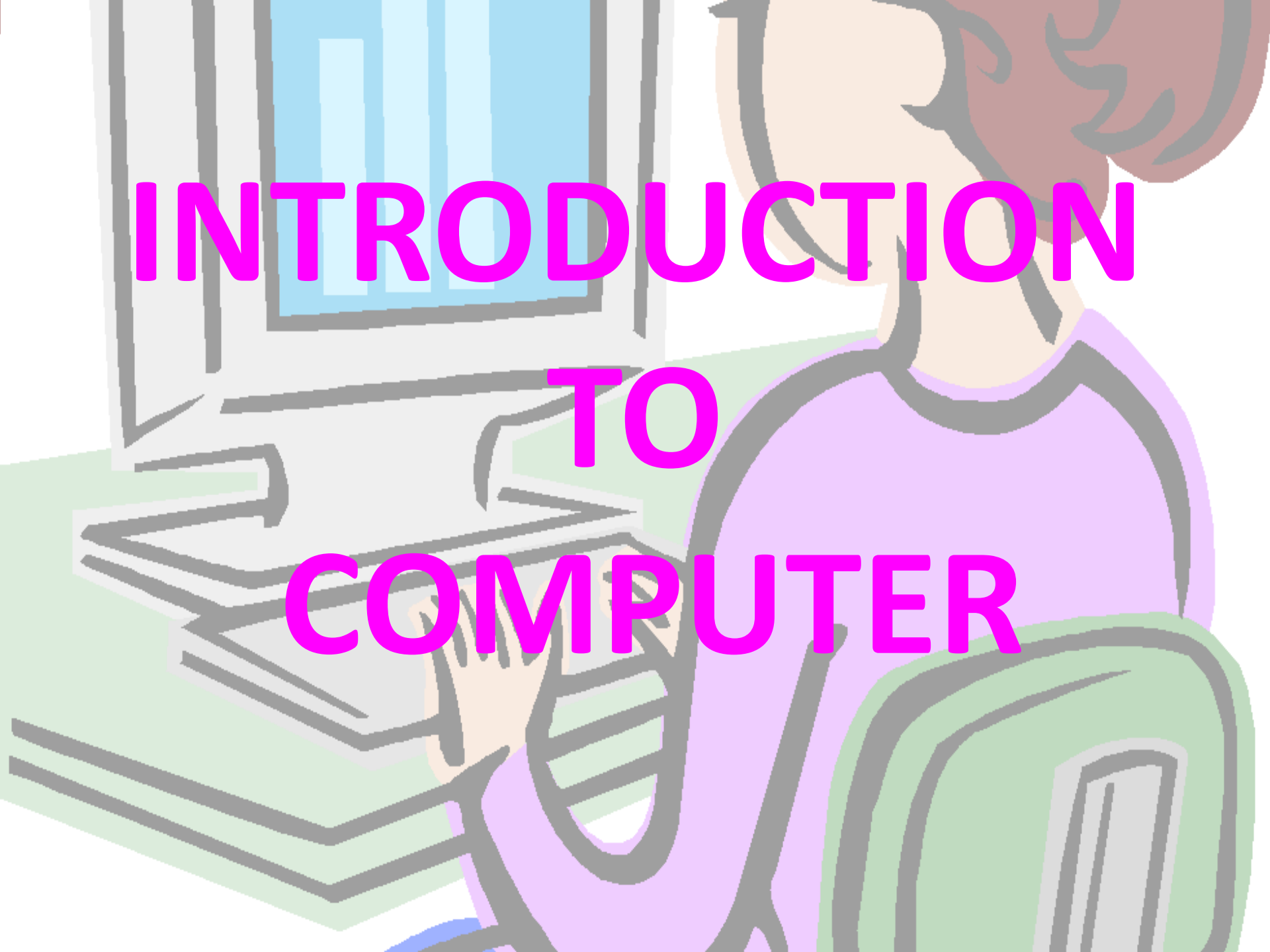
بسم الله الرحمن الرحيم


INTRODUCTION
TO
COMPUTER

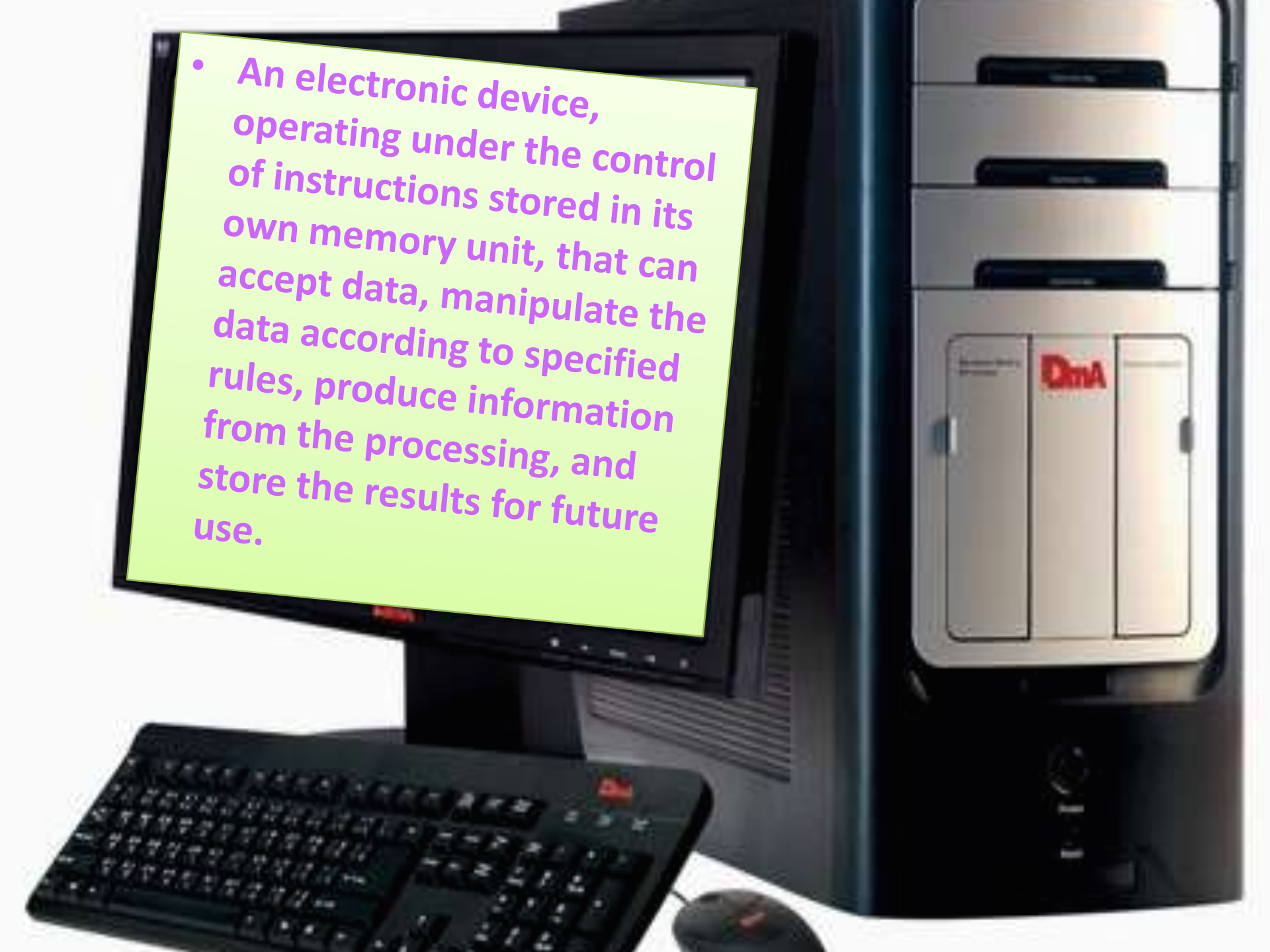
Definition:

- Computer.. Latin word.. compute
- Webster's Dictionary defines "computer" as any programmable electronic device that can store, retrieve, and process data.
- The basic idea of computing develops in the 1200's

History:

- 2000 years ago.----- invention of abacus
- Blaise Pascal invented Pascaline, a hand powered adding machine in 1642.
- In the 1694 true multiplying calculator appears in Germany developed by Gottfried Liebnitz.

- Thomas of Colmar created mechanical calculator that could add, subtract, multiply, and divide.
- After 1900 golden era started.
- In 1942, John P. Eckert, John W. Mauchly .
- John Von Neuman in 1945.
- In the 1960's, efforts to develop the fastest possible computer with the greatest capacity reached a turning point


• An electronic device, operating under the control of instructions stored in its own memory unit, that can accept data, manipulate the data according to specified rules, produce information from the processing, and store the results for future use.

Components:

Input

- Mouse, keyboard,
- Microphone, Digital camera.

Output

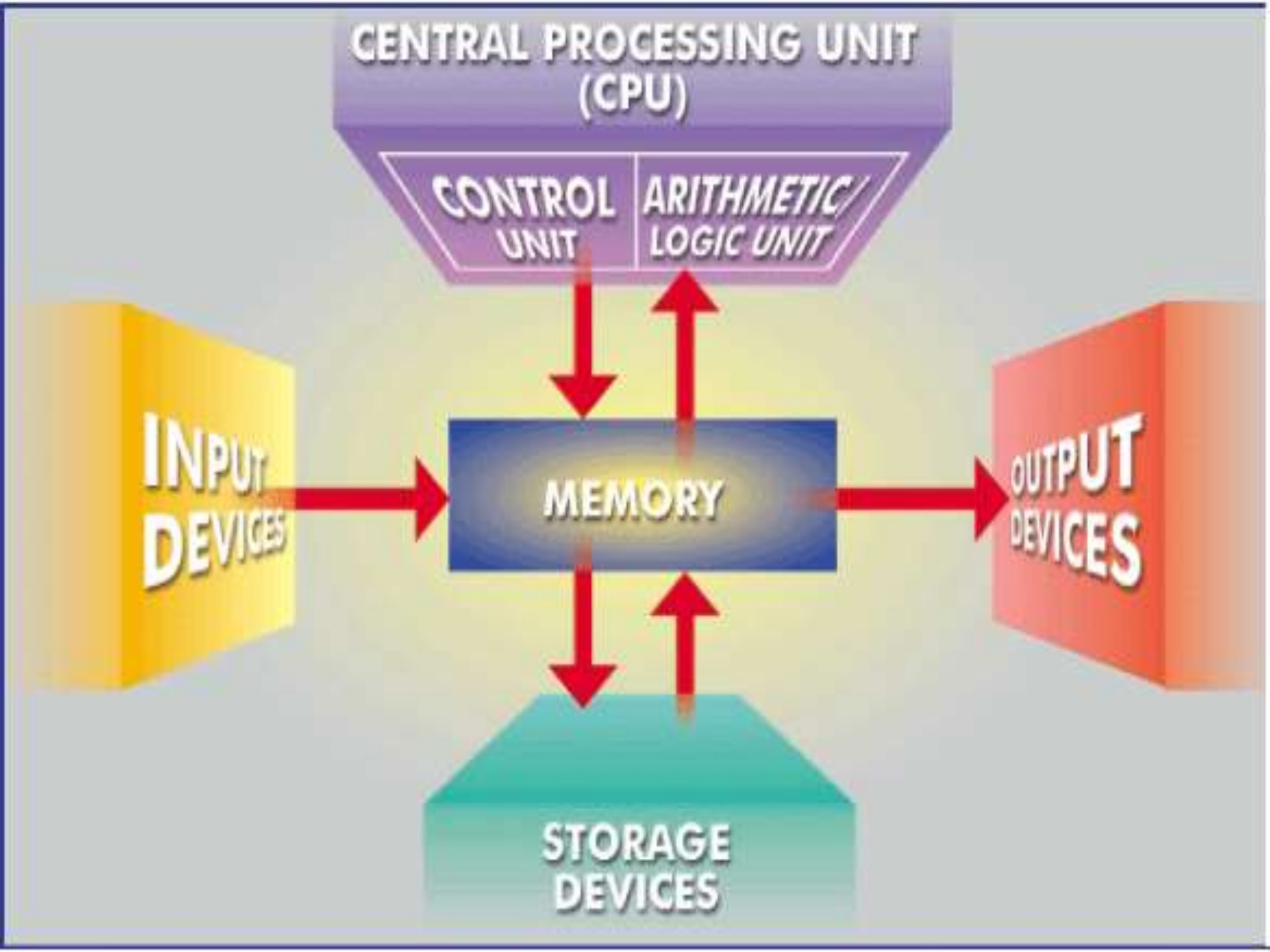
- Monitor, Speakers,
- Printer.

System Unit

- Memory.
- Processor.

Information Processing Cycle—four general operations

- Input.
- Processing.
- Output.
- Storage.


CENTRAL PROCESSING UNIT
(CPU)
CONTROL UNIT
ARITHMETIC/ LOGIC UNIT
INPUT DEVICES
MEMORY
OUTPUT DEVICES
STORAGE DEVICES

Language and Data Representation:

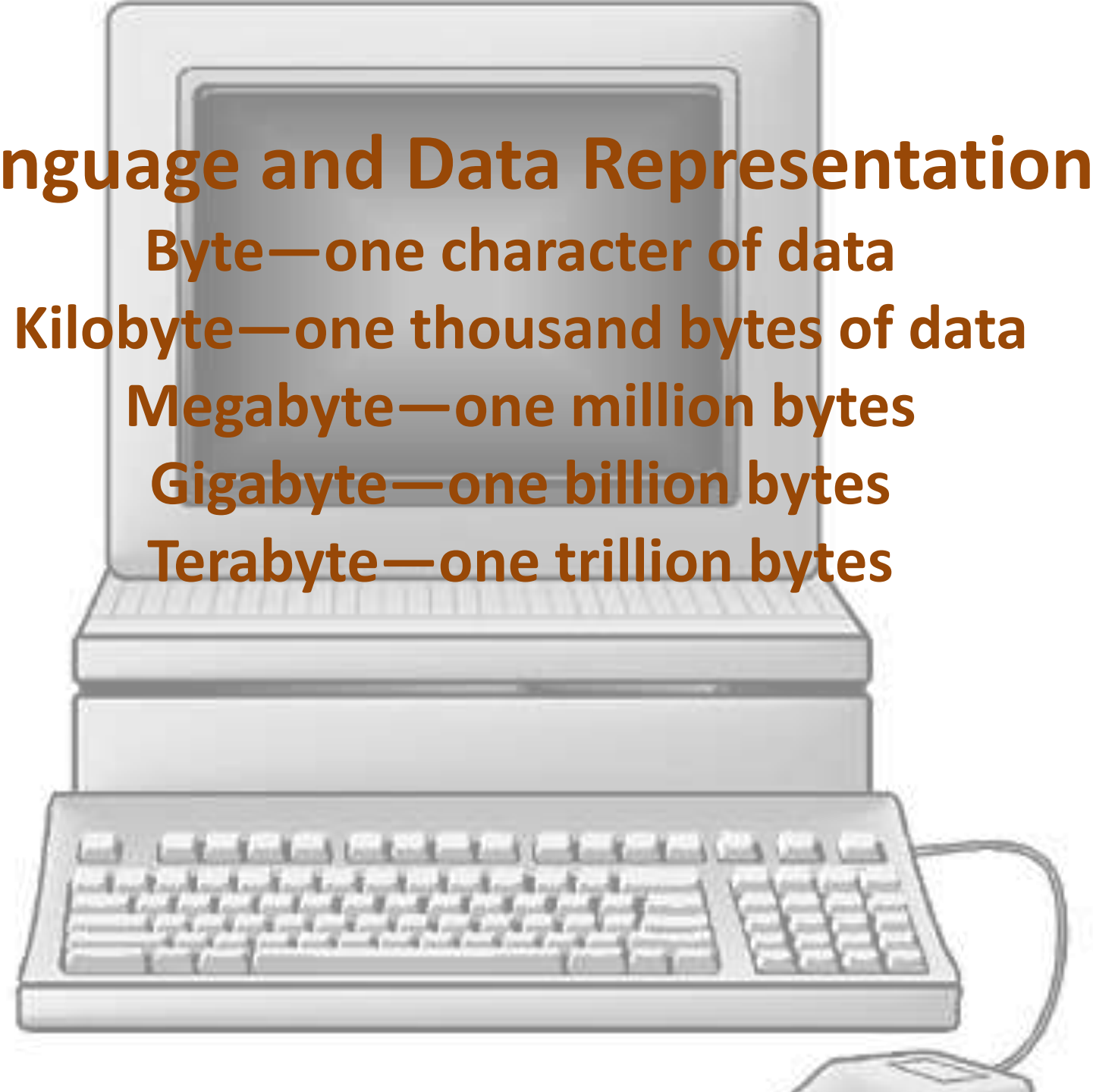
Byte—one character of data

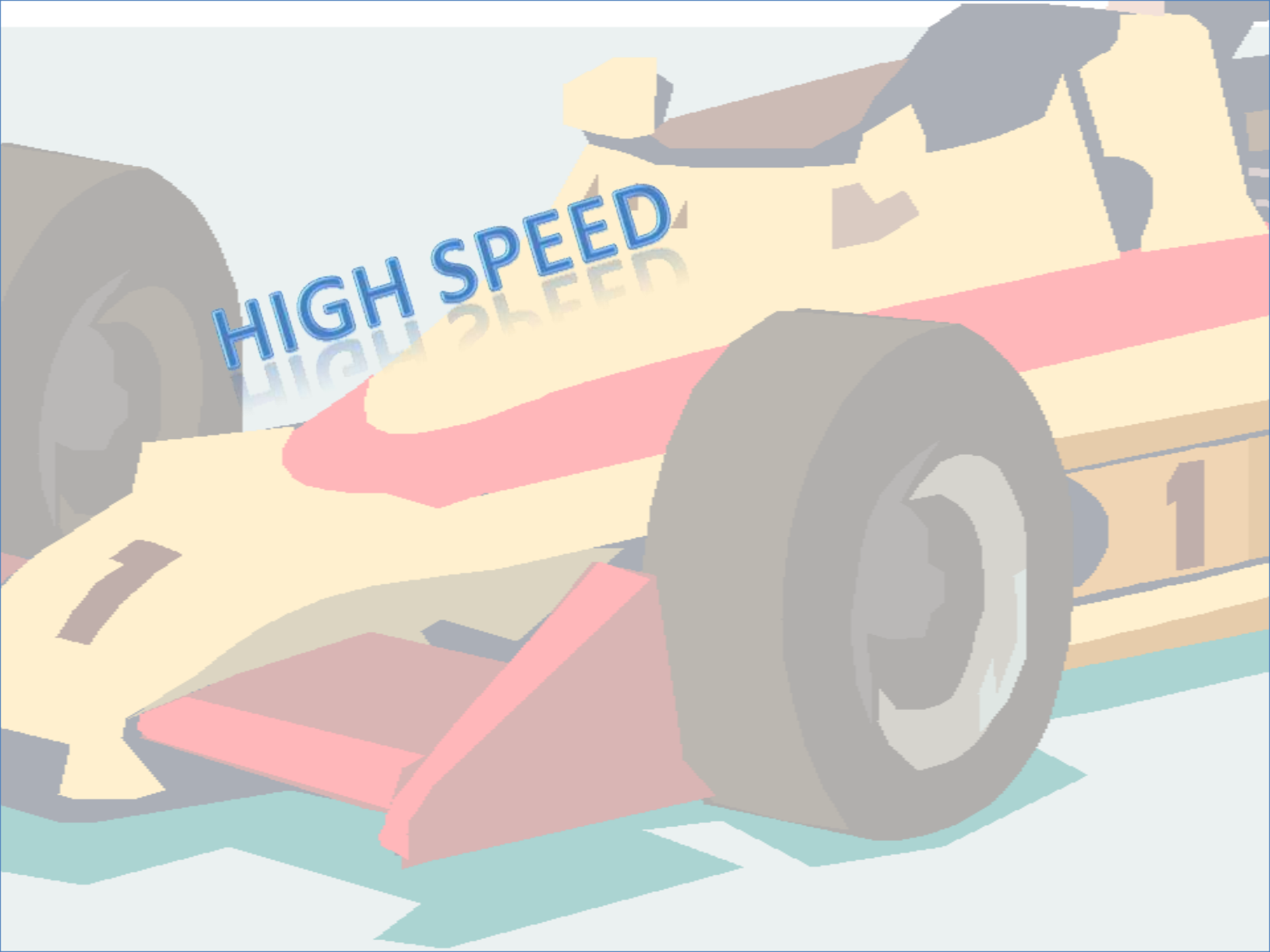
Kilobyte—one thousand bytes of data

Megabyte—one million bytes

Gigabyte—one billion bytes

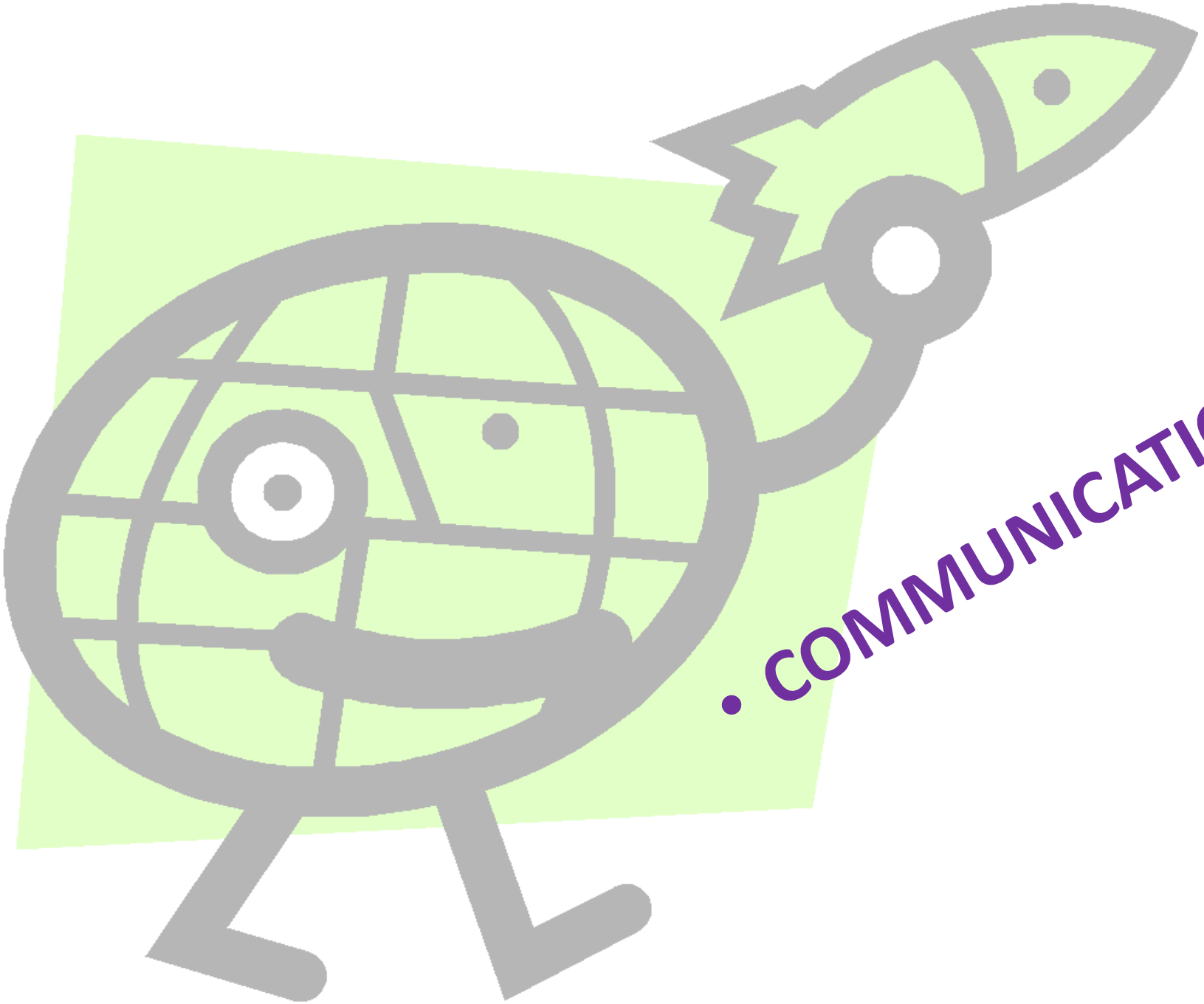
Terabyte—one trillion bytes



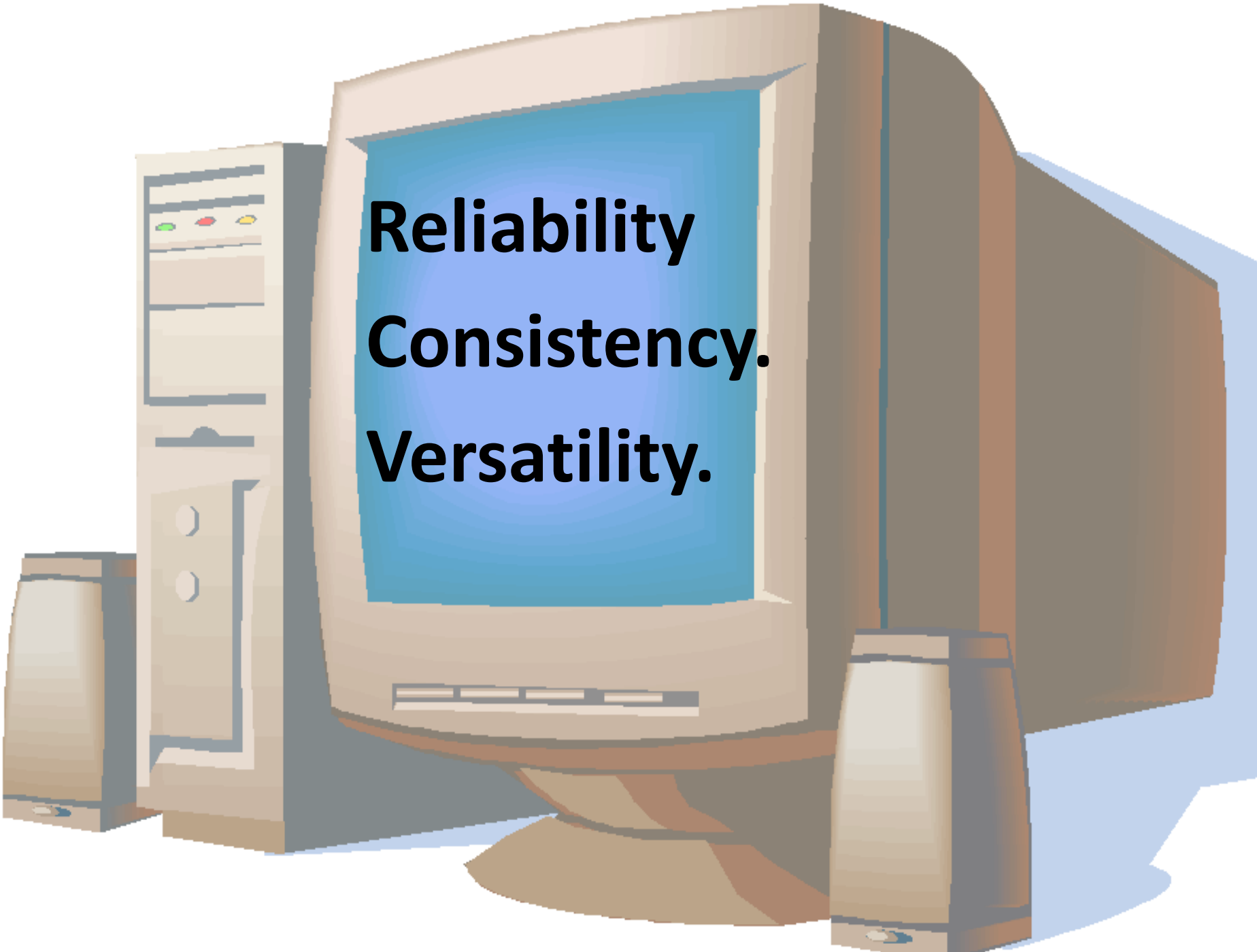

HIGH SPEED

Storage

ACCURACY



• COMMUNICATION

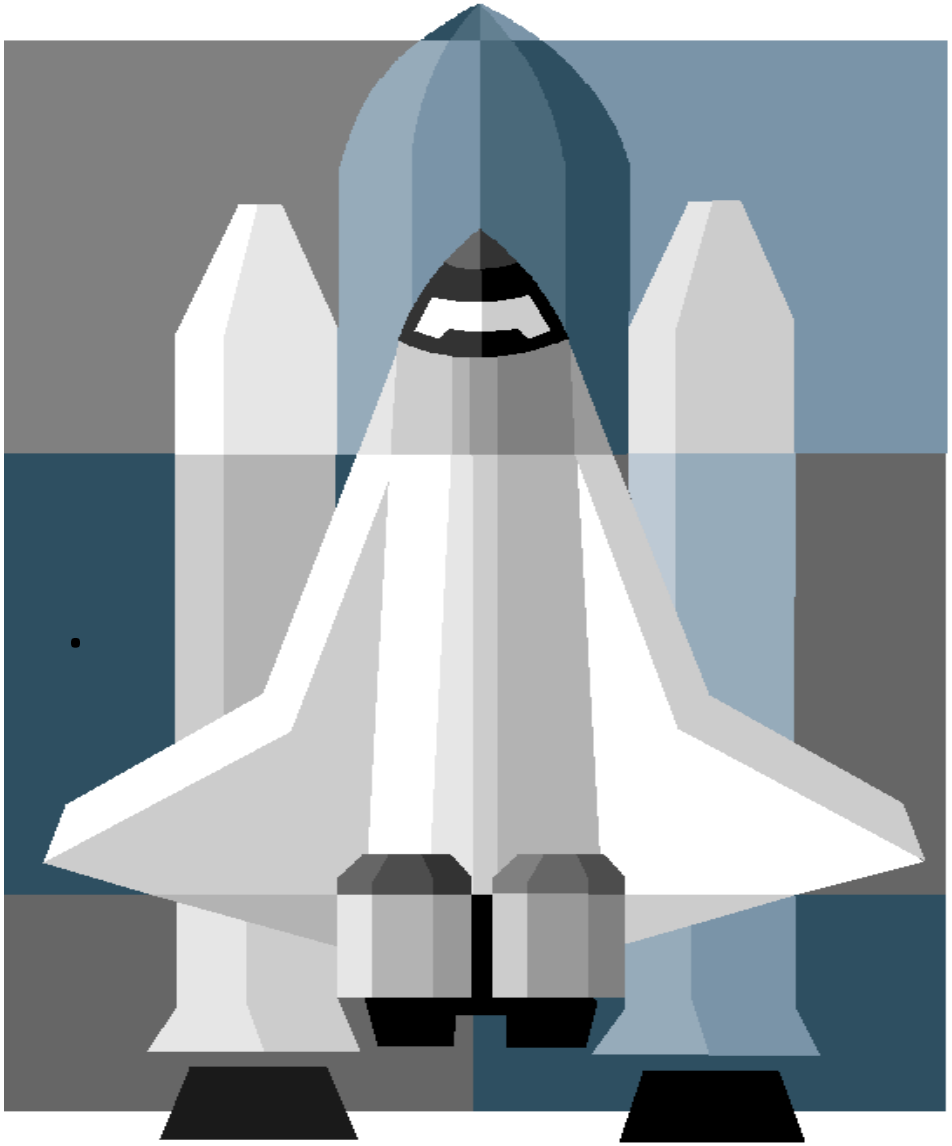

Reliability
Consistency.
Versatility.

USES

At Home.

In Medical field.

In Scientific Work.

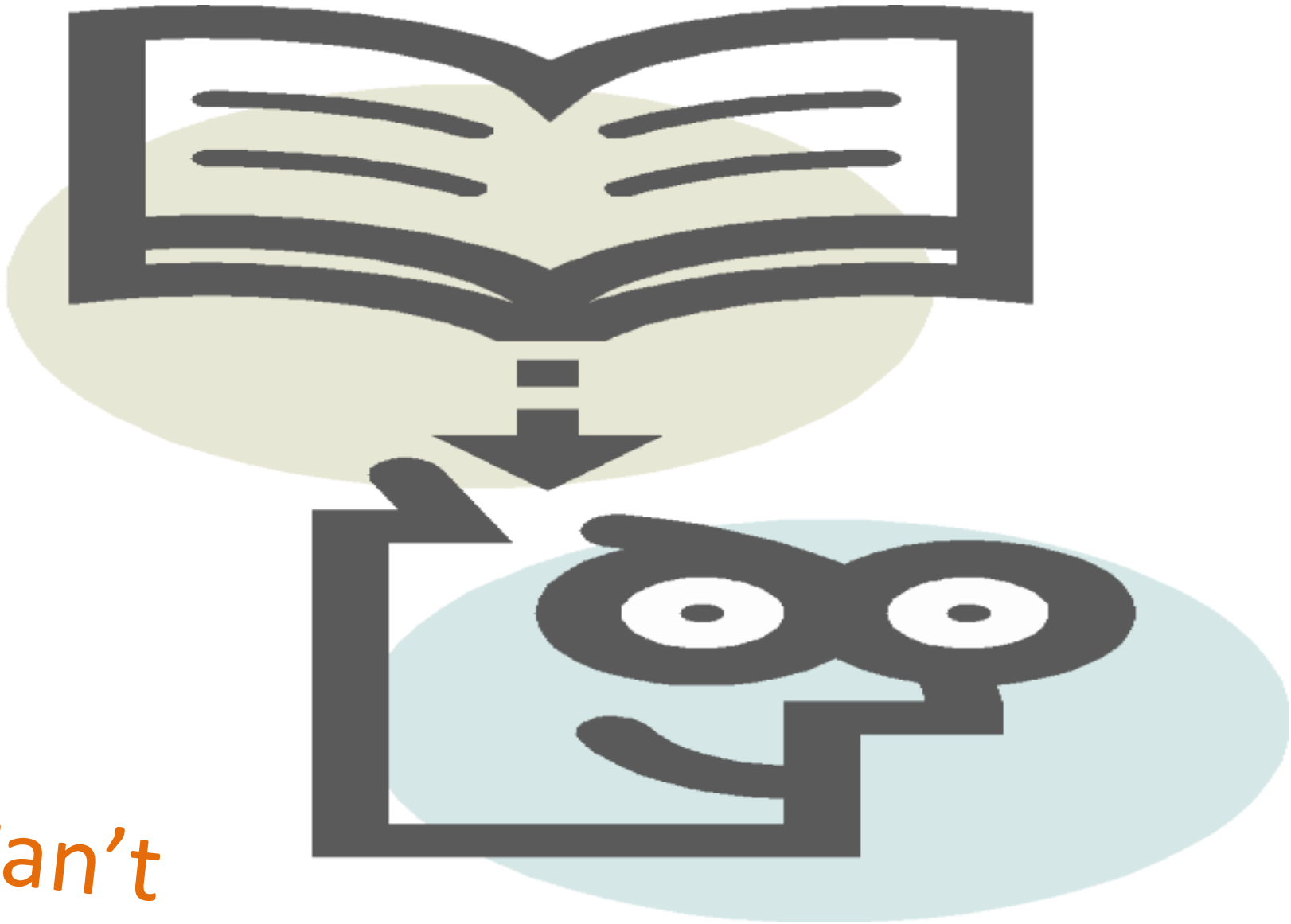


Institutions.

In Business.

Limitations and
disadvantages

- Can’t Think.



- Can’t *feel*

Disadvantages

- Health Risks.
- Violation of privacy.
- Impact on Labor Force.
- Impact on Environment.
- Public Safety.