
An illustration of a person with brown hair, wearing a purple long-sleeved shirt, sitting at a desk and typing on a keyboard. The desk is green and holds a computer monitor displaying a blue bar chart, a keyboard, and a mouse. The person is sitting on a green office chair. The background is white.

# INTRODUCTION TO COMPUTER



# Definition:

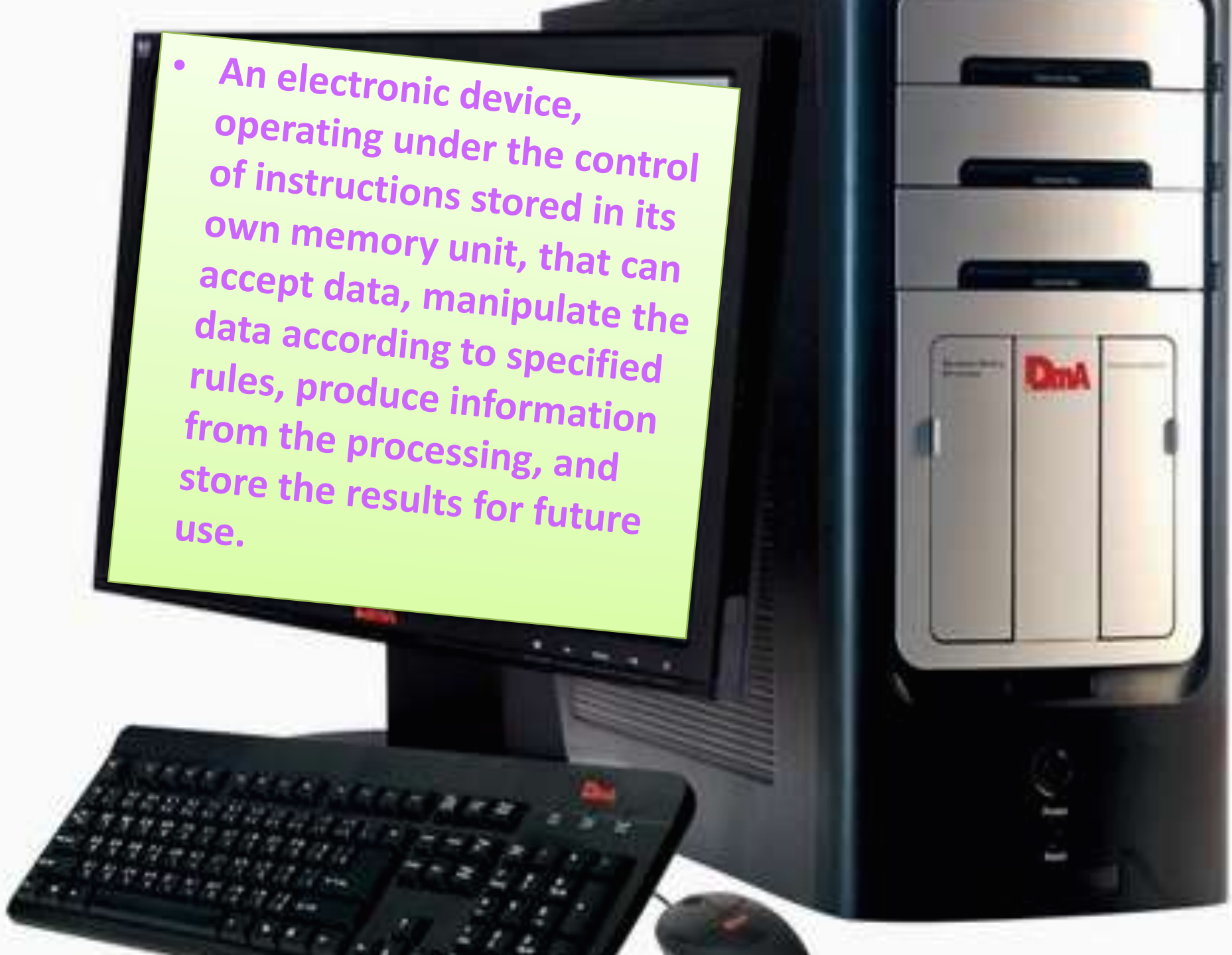
- Computer.. Latin word.. compute
  - Webster's Dictionary defines "computer" as any programmable electronic device that can store, retrieve, and process data.
  - The basic idea of computing develops in the 1200's
- 

# 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 Leibnitz.

- 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**

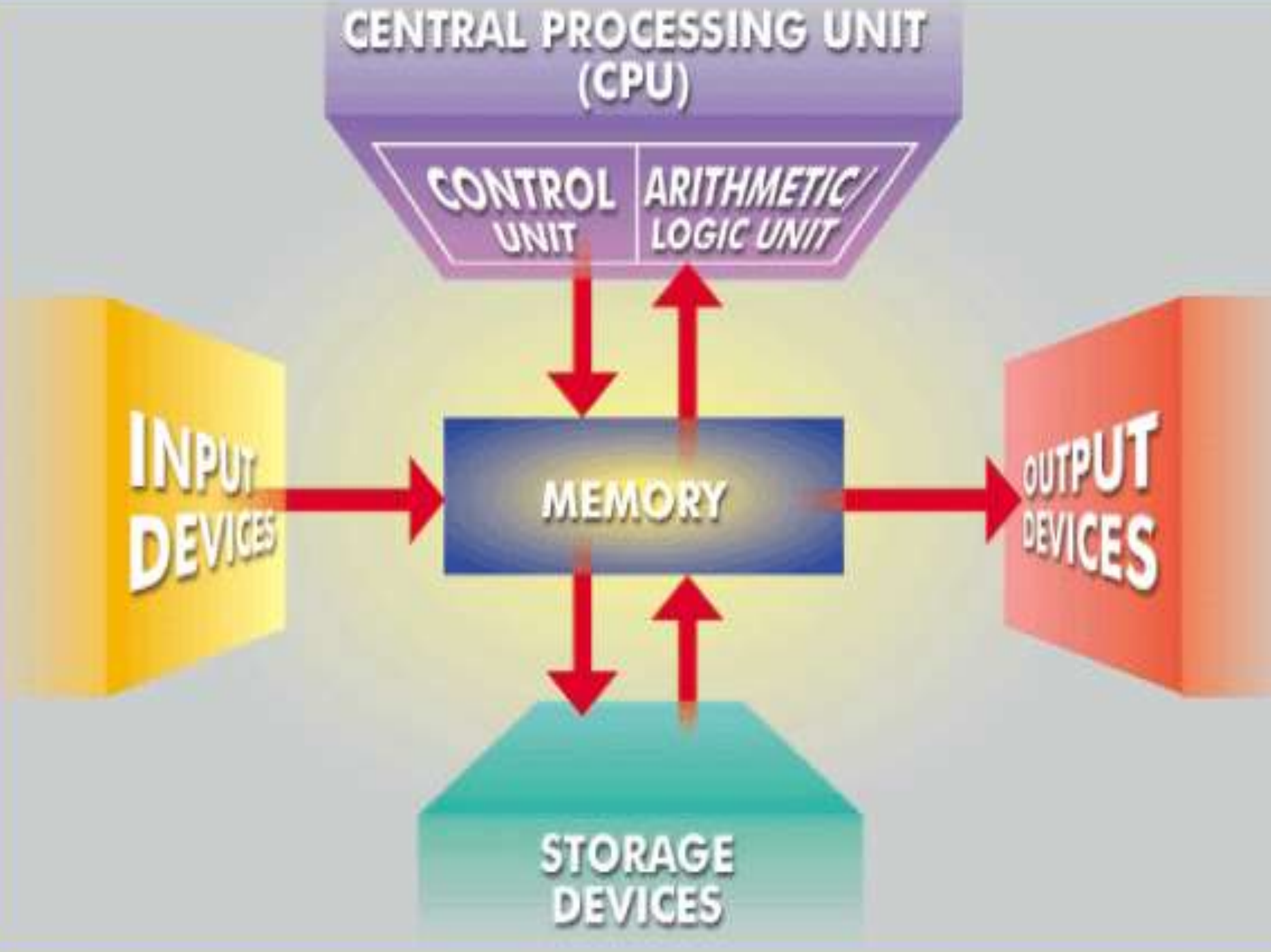
**ARITHMETIC  
LOGIC UNIT**

**INPUT  
DEVICES**

**MEMORY**

**OUTPUT  
DEVICES**

**STORAGE  
DEVICES**



# Language and Data Representation:

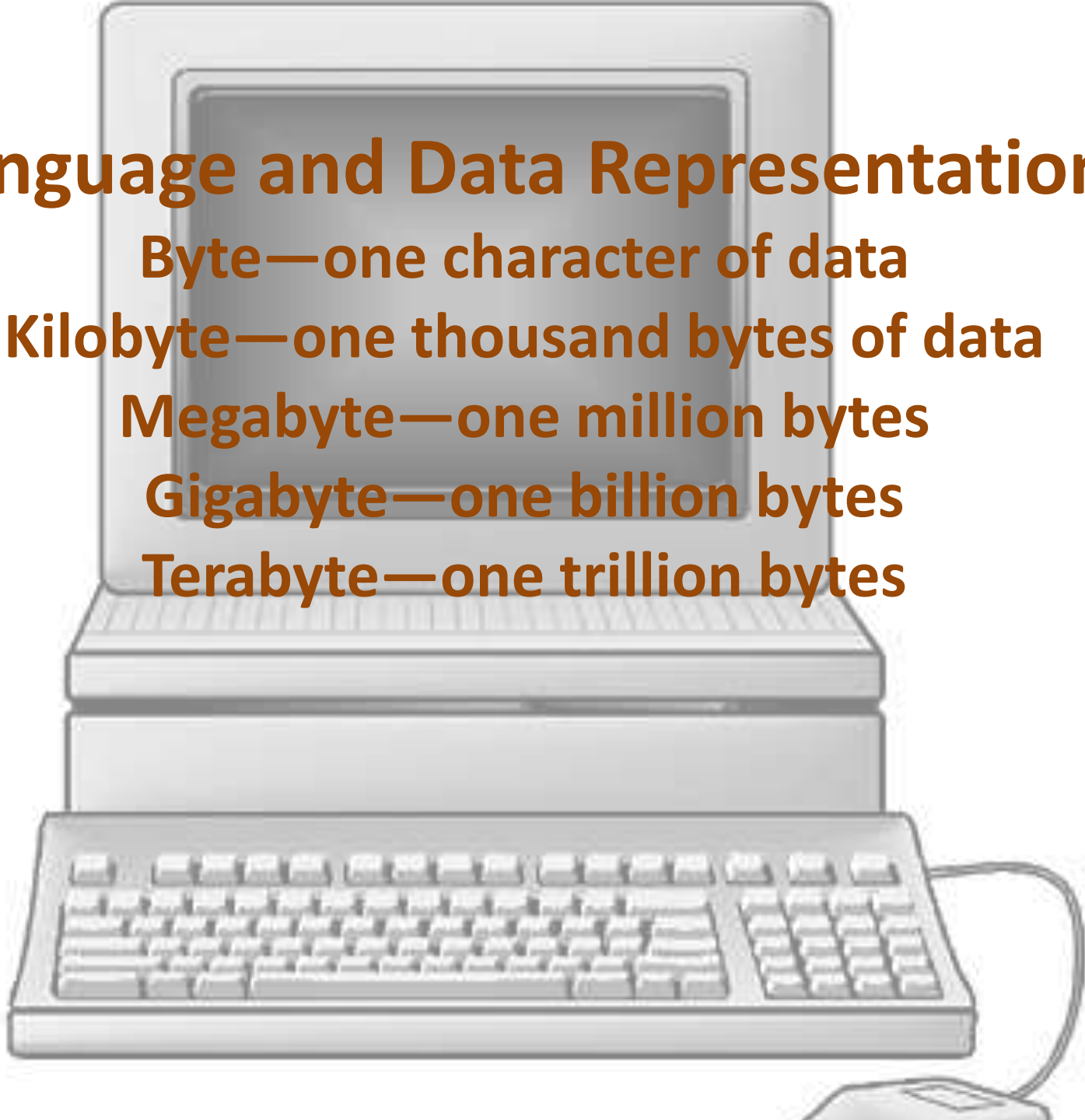
**Byte**—one character of data

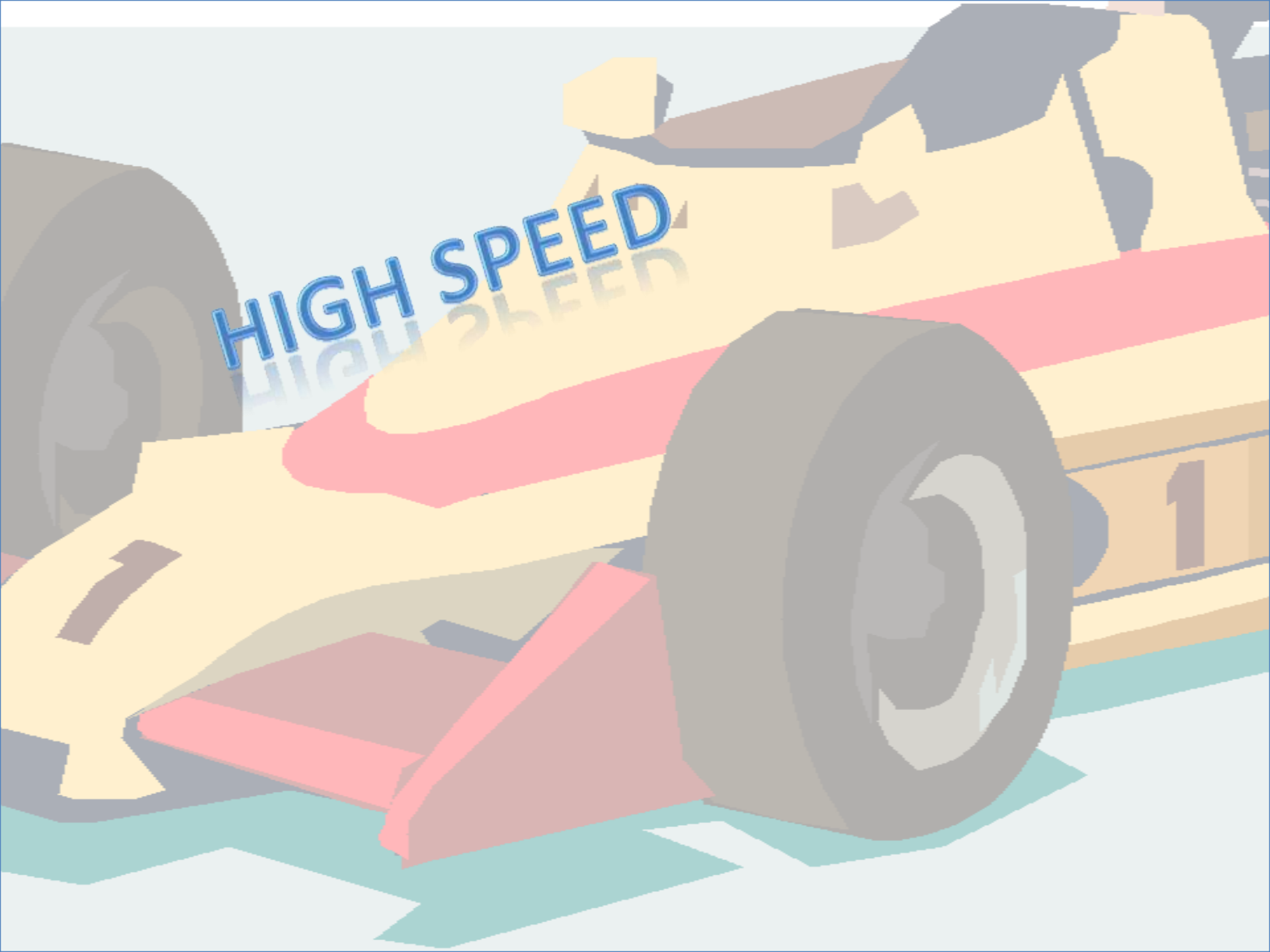
**Kilobyte**—one thousand bytes of data

**Megabyte**—one million bytes

**Gigabyte**—one billion bytes

**Terabyte**—one trillion bytes

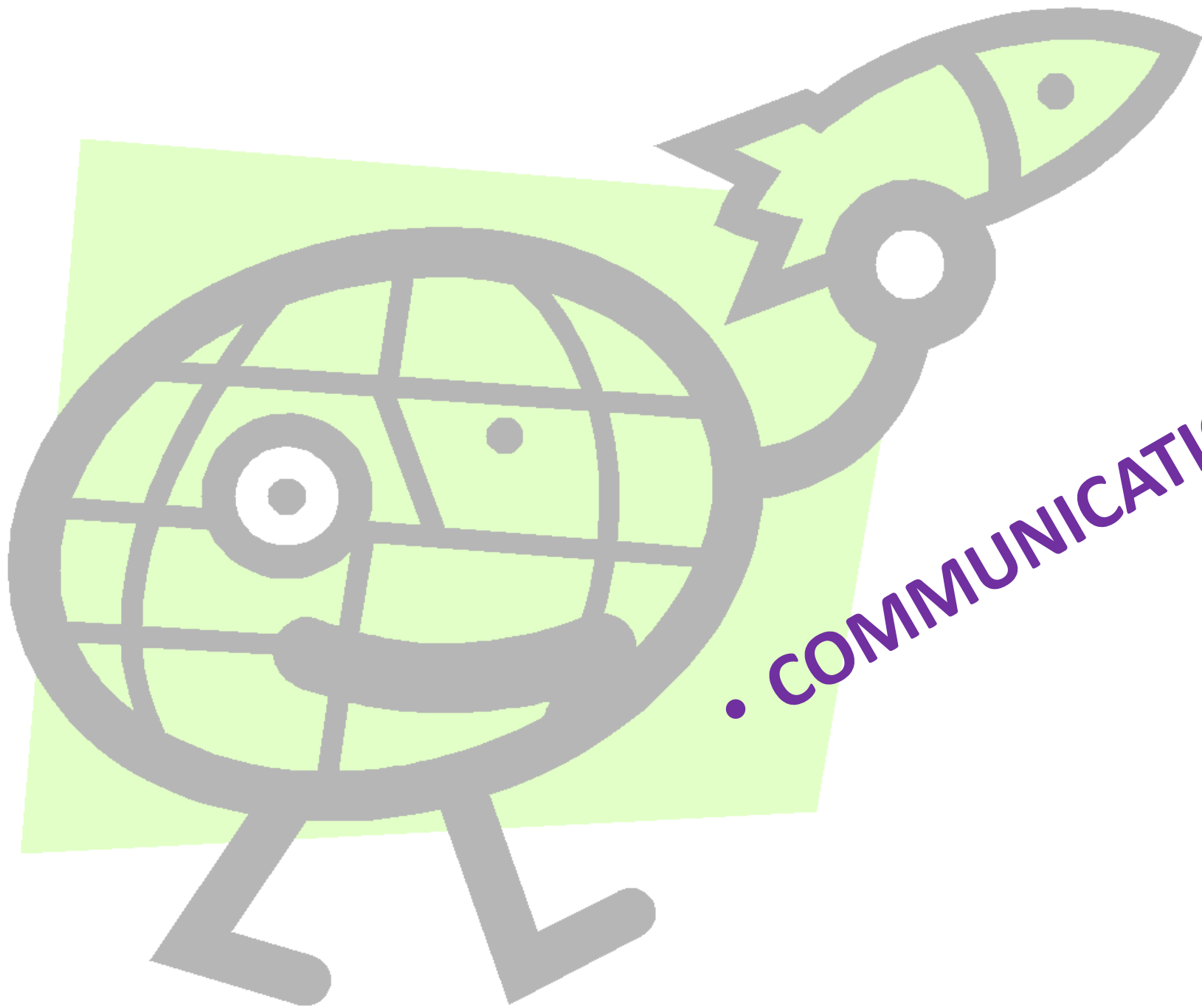




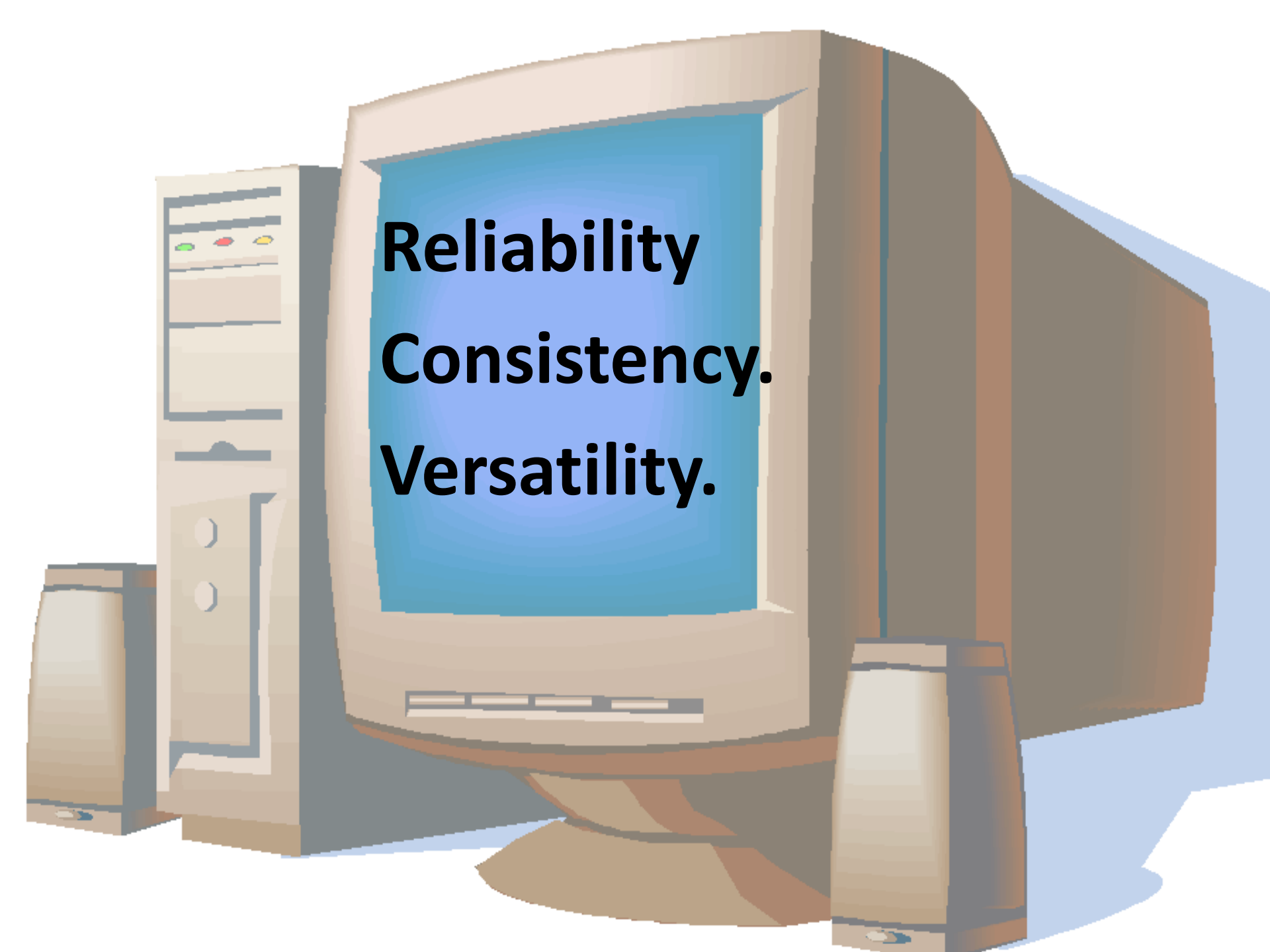


**Storage**





• **COMMUNICATION**

A 3D illustration of a desktop computer system. The central focus is a large CRT monitor with a blue screen. On the screen, the words "Reliability", "Consistency.", and "Versatility." are written in bold black text. To the left of the monitor is a vertical tower PC case with a floppy disk drive and two 3.5-inch floppy disk drives. In front of the monitor is a keyboard, and to the right is a mouse. The entire system is rendered in a light brown/beige color with blue shadows on a white background.

**Reliability**  
**Consistency.**  
**Versatility.**

**USES**



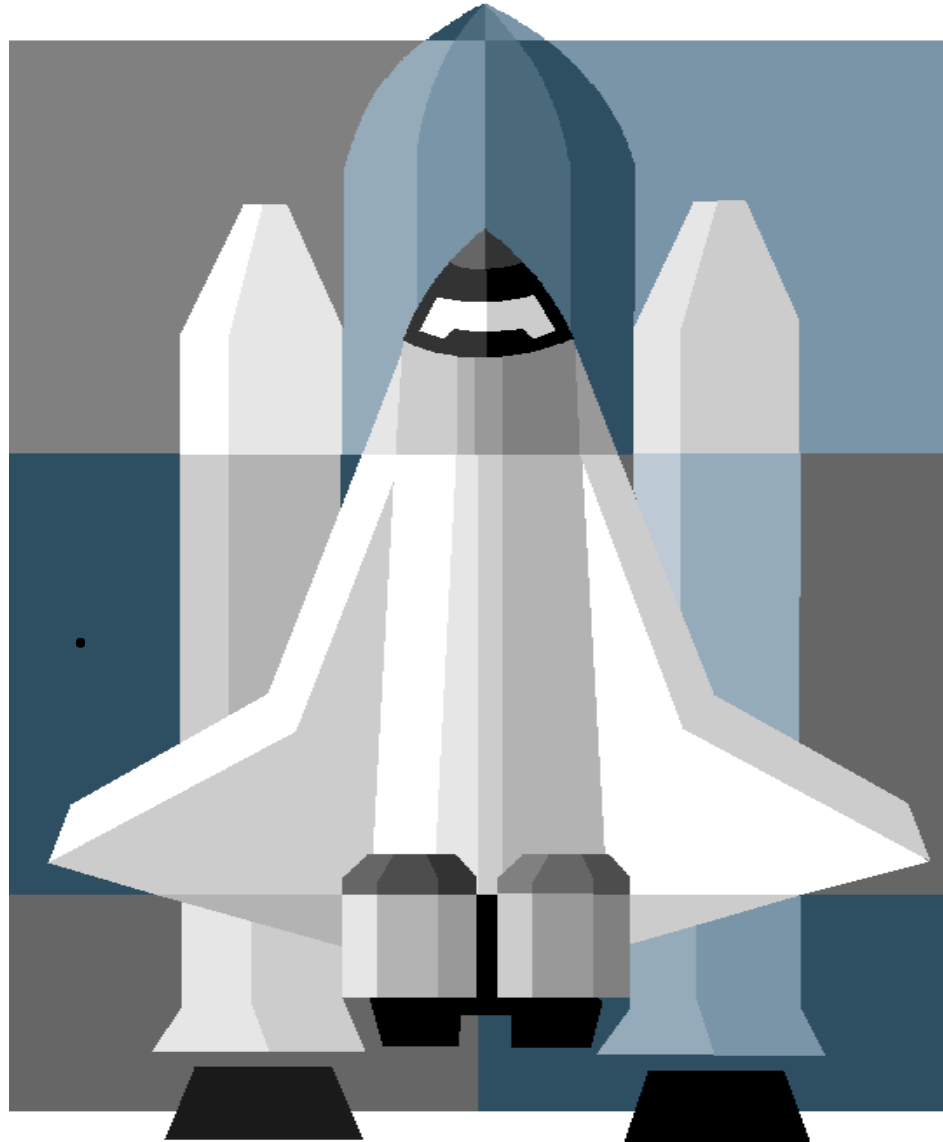
# At Home.



# In Medical field.



# In Scientific Work.



# Institutions.



# In Business.

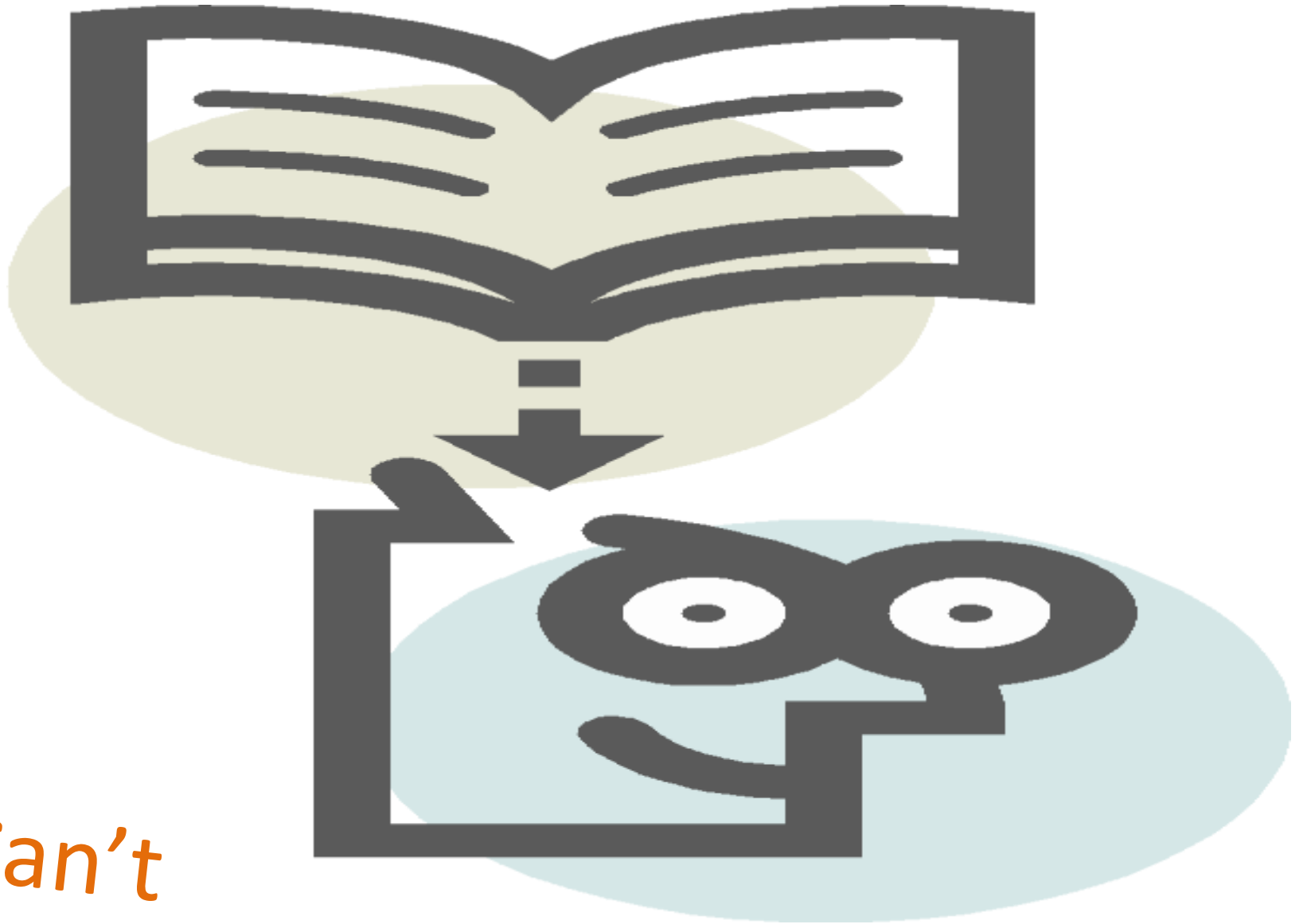




**Limitations and  
disadvantages**

- Can't Think.





- *Can't feel*



# Disadvantages

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