

⚙ Generations of Computer Languages

Computer languages have evolved through five generations:

1 First Generation: Machine Language

- Consists of a series of **zeros** and **ones**.
- Represents **data** or **instructions**.

2 Second Generation: Assembly Language

- A **higher-level language** than machine language.
- **Machine dependent**.

3 Third Generation: High-Level Languages

- **Machine independent**.

4 Fourth Generation: 4GLs (Non-Procedural Languages)

- Also known as **non-procedural languages**.

You don't need to follow a rigorous command syntax to use them.

5 Fifth Generation: 5GLs

- Uses **artificial intelligence** technologies such as:
 - Knowledge-based systems
 - **Natural Language Processing (NLP)**
 - Visual programming
 - A graphical approach to programming
- Codes are **automatically generated**.
- Designed to make the computer **solve a given problem** without a programmer or with minimum programming effort.

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