Computer architecture and computer organization differ in meaningful ways, which explain why the two are mentioned as separate concepts but discussed jointly in our subject, “Architecture and Organization.”

# Explaining the two terms

## Computer architecture

**Computer architecture** is a functional description of the design implementation and requirements of different components of a computer. It refers to the overall design of a computer system, including the hardware and software components that make up the system and how they interact with each other.

## Computer organization

**Computer organization** provides information about the linking of different operational attributes of the computer system. It implements the provided computer architecture and covers the “How to do?” part.

# Differences

|  |  |  |
| --- | --- | --- |
| Difference | Computer Architecture | Computer Organization |
| Purpose | Computer architecture explains what a computer should do. | Computer organization explains how a computer works. |
| Role | Computer architecture assists in understanding the functionality of the computer. | Computer organization helps to understand the exact arrangement of component of a computer. |
| Actor | Actors in Computer architecture are hardware parts. | Actor in computer organization is performance. |

# Reference

* Panigrahi, Kiran Kumar (September 13, 2023). “Differences between Computer Architecture and Computer Organization.” Tutorialspoint. Retrieved via <<https://www.tutorialspoint.com/differences-between-computer-architecture-and-computer-organization>>.