















Visual Simulation Environment

- Simulation refers to the use of a computer's computational capabilities to build a virtual world corresponding to the physical environment.
- For a robot control system developer, computer simulation technology not only allows the design and validation of algorithms but also enables testing of interactions between robots and their environment as well as their capabilities to respond to various situations.

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Visual Simulation Environment (Cont'd)

- One of the functions provided by MRDS is the Visual Simulation Environment (VSE).
- In VSE, all of the robot's body (such as the arms and sensor components), the surface on which the robot moves, the landscape observed, and the static objects connected (e.g., tables, chairs, walls, or columns in a home or hardware devices in a factory) can be constructed easily.
- Through VSE, the robot control system programmer does not require actual robot hardware or physically constructed objects in the robot's surrounding environment to test concepts or algorithms.

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