REQUIREMENTS OF VR

objects.

- (1) Virtual Databases

 Before any image can be displayed, a 3D database is required describing the VE.

 Geometric description of
- Real-time image generation

 The time taken to render

 an image has always been a

 major issue in the world of

 CG.

 There are 2 main reasons for

 such long rendering times:

 due to large databases, & the

 level of realism they want.

- 3 Database Interaction

 Interaction will the database requires attention.

 Eq -> collision detection
- 3 Physical Simulation

 Developing the issue of interaction further.

 Simulating dynamics.
- A Non-immersive VR systems
 leaves the user visually
 aware of the real world
 but able to observe the
 virtual world through
 some display device.
- 5 Hybrid VR systems

 It permits the user to view the real world will virtual images superimp to sed over this view Laiso called augmented reality).

CAVE

- -> It enables 1 or more people to experience the sensation of being completely surrounded by high-res, 3D video & audio.
- -> It is a room formed from 3 rearprojection screens for walls & a down-projection screen for the floor.
- -> High-res video projectors display computer-generated images.
- -> CAVEs have proved to be very useful in exploring visualizations of precomputed datasets.
- > Typical applications Scientific visualizations