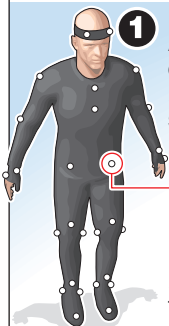


Puppetry brings computer animation to life

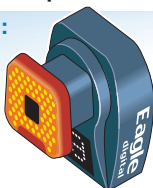
The Jim Henson Company – creator of the Muppets – has developed a digital performance system that takes computer graphics (CG) animation to a new level, speeding up a traditionally lengthy process while producing more naturalistic performances than ever before

1 MOTION CAPTURE:

Actors perform characters' **body movements** on studio soundstage

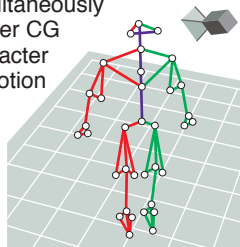


Reflective markers attached to major joints



Eight infra-red cameras detect reflective markers to record body movement

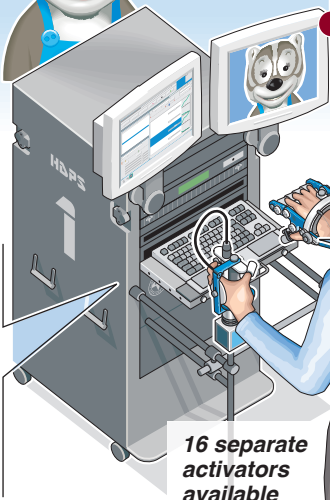
Computer maps movement on to **3D skeleton** to simultaneously render CG character in motion



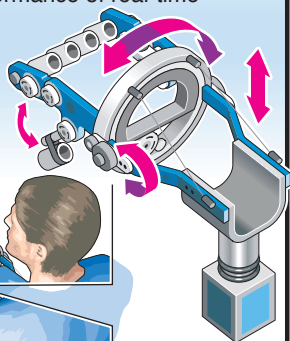
2 MECHANICAL CONTROL: Henson Digital Performance Studio – self-contained mobile workstation – allows puppeteers to control performance of real-time CG character



Two handed controls for head and neck movement and facial expression



16 separate activators available



Puppeteer can create on-screen character's expressions on the fly without need for prior script or programming