Granada Graphics Group

- Created in 1996
- Own lab (Virtual Reality Lab)
- 7 staff researcher and 10 Phd students
- We hosted EG'2003
Research topics

- **Non-photo-realistic rendering.** Stippling. Silhouettes. Stylizing.

- **Virtual reality.** Interaction techniques. Tracking systems. Haptic interaction.

- **Colour.** Restoration of art work. Spectroscopy for colour restoration.
Research topics

- Information systems for cultural heritage.
- Volume Visualization for Medical and Astrophysics.
Facilities

- **Powerwall.** 7.5 x 2.5 m stereo display, using back projection, passive stereo and optic tracking.
- **Stereoscopic table.** Orientable desk passive stereo and magnetic tracking, developed by Moving group.
- **Portable RV system.** Use passive stereo and magnetic tracking, developed by Moving group.
- **HMD,** nVisor SX111 system.
- **Sensegraphics 3D-IW immersive workbench.**
- **Laser scanner Minolta Vivid-910.**
- **Time of flight laser scanner Callidus CP3200.**
Collaborations

- Cultural Heritage sites: Alhambra, Itálica and the Andalucian Institute for Iberian Archaeology
- Research labs: University of Jaén, Polytechnic University of Catalonia, University Paris-Sud, CNR-Visual Computing Group.
Cultural Heritage Information System

- Manage information layer on a 3D model.
- Layer composition using statistical, spatial, arithmetic and logic operations.
- Edit, render and query.
UAV-Cartograph

- Generate high quality DEM models from UAV quad-copters aerial photographs.
- Use Structure from Motion.
3D digitizing of heritage buildings using UAVS

- Adapt UAV technology and Structure from Motion reconstruction software to carry on 3D digitization of outdoors and inside of large buildings.
Adapta

- Customize digital content.
- Recognize audience on public places.
- Select and generate digital content and interaction method adapted to the audience.
Museum of the Lion Court at the Alhambra

- Generate 3D interactive application to show the restoration process performed on the Lion fountain.
- Will be shown at the Alhambra museum.
Future of the lab

- Small but cohesive and experienced group
- Phd programme on Computer Graphics
- Growing with new Phd student every years
- Technology transfer throw our spin-off (Virtum Graphics)