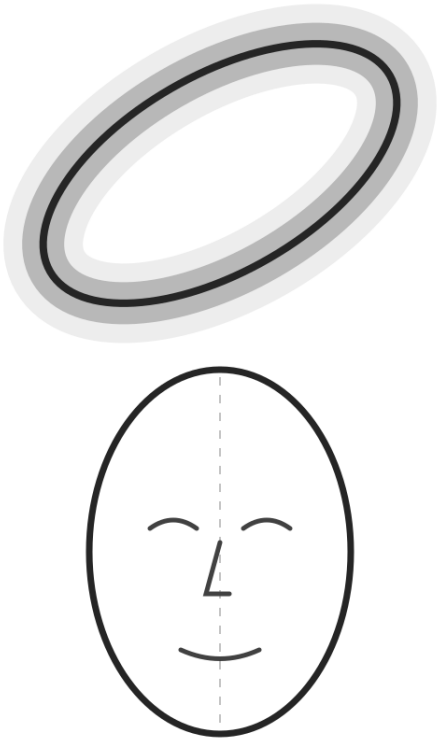
Draw a Halo Ring with Glow and Tilt: A Guided Construction

Ordinary topic reference / separately checked pixels



Draw a Halo Ring with Glow and Tilt: A Guided Construction

Original worked example / unchanged complete key

Prompt: Draw a halo with a 30-degree tilt above a head. Use a major axis of 6 cm and a minor axis of 3 cm. Place the halo center 3 cm above the top of the skull. Shade a near-glow band 3 cm wide and a far-glow band 1.5 cm wide.

Answer: Draw a vertical head center line and mark the skull top. Mark the halo center 3 cm above the skull top on the same line. Draw a tilt axis through the halo center at 30 degrees from horizontal. Mark major axis endpoints 3 cm from center along the tilt line. Mark minor axis endpoints 1.5 cm from center perpendicular to the tilt line. Connect the four points with a smooth ellipse. Shade the core firmly, add a near-glow band with medium pressure, then a far-glow band with light pressure. Check that the ring's lowest point is about 1.02 cm above the skull top. With semi-axes a = 3 cm and b = 1.5 cm at 30 degrees, the vertical half-extent is sqrt((a sin 30 degrees)^2 + (b cos 30 degrees)^2), about 1.98 cm; subtract it from the 3 cm center height and that the glow values fade outward.