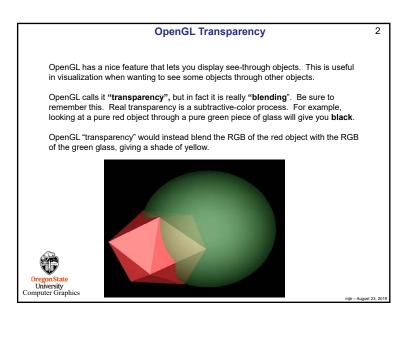
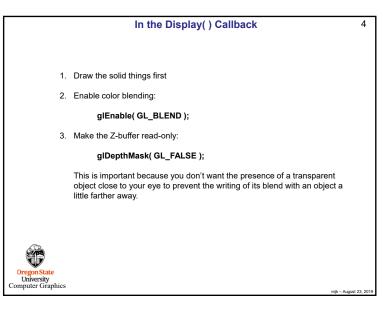


When Defining Your Object 3
Instead of using <b>glColor3f()</b> to specify the red, green, and blue of an object, use <b>glColor4f()</b> to specify red, green, blue, and <i>alpha</i> . Alpha is the transparency factor. Or, if you are using lighting, <b>glMaterialfv( GL_FRONT, GL_AMBIENT, rgba );</b> <b>glMaterialfv( GL_FRONT, GL_DIFFUSE, rgba );</b>
<ul> <li>An alpha value of 0.0 means that this object is completely transparent (i.e., invisible – not too useful).</li> <li>An alpha value of 1.0 means that this object is completely opaque (also not useful as a transparency).</li> </ul>
$C' = \alpha C_{new} + (1 - \alpha) C_{old}$
Oregon State University Computer Graphics mp-August 23, 2019





In the Display( ) Callback		5
	about-to-be-written pixel color (the "sour lo color (the "destination") will end up bein	
glBlendFunc(	src, dst );	
of dst multiplies the alre	lies the about-to-be-written source pixel c ady-existing destination pixel color (D). V the most useful combination is:	
Src (C <sub>new</sub> )	Dst (C <sub>old</sub> )	Result (C')
GL_SRC_ALPHA	GL_ONE_MINUS_SRC_ALPHA	$C' = \alpha S + (1-\alpha)D$
<ol> <li>Draw the transparent th</li> <li>After drawing all the transparent the read-write and disable light glDepthMask(</li> <li>glDisable(GL_</li> </ol>	nsparent elements of the scene, set the d olending: GL_TRUE );	epth mask back to
Oregon State University		

