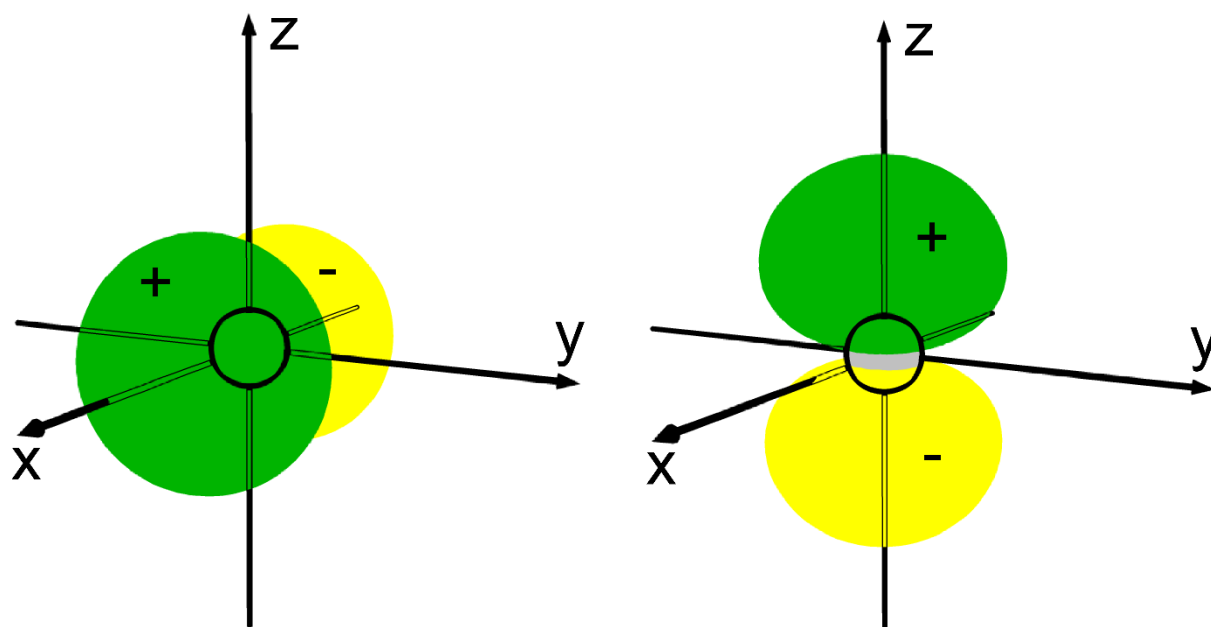


Result: The orbital diagrams look like this:



p_x

p_z

Solution: The p_x orbital has positive phase along the positive x axis and negative phase along the negative x axis. The p_z orbital is similar, but oriented along the z axis.