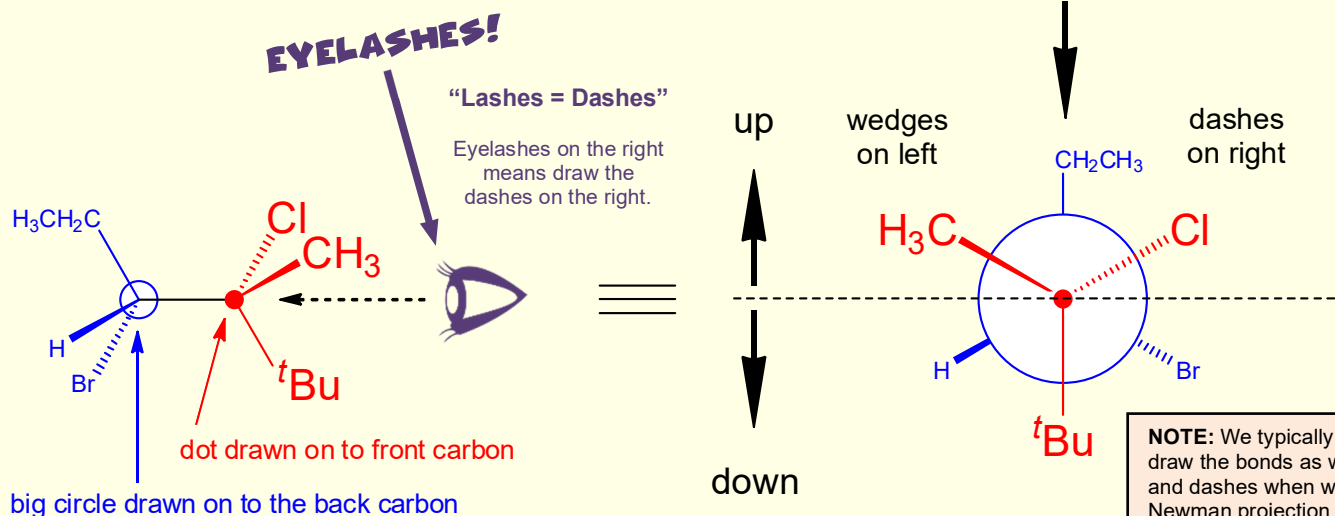


## How to Turn a Wedge-Dash Structure into a Newman Projection (and vice-versa)

When you need to **convert a wedge-dash structure into a Newman projection**, it helps at first to draw a dot on the carbon that will become the front carbon and draw a circle around the carbon that will become the rear carbon.

**"Lashes = Dashes"** is a catchphrase I coined for knowing the side the eyeball (and its eyelashes, tee hee!!) is on is the same side you draw the dashed substituents. For example, below we have the eyeball on the right, so the dashed substituents are drawn on the right. Had the eyeball been on the left, the dashes would have been drawn on the left.

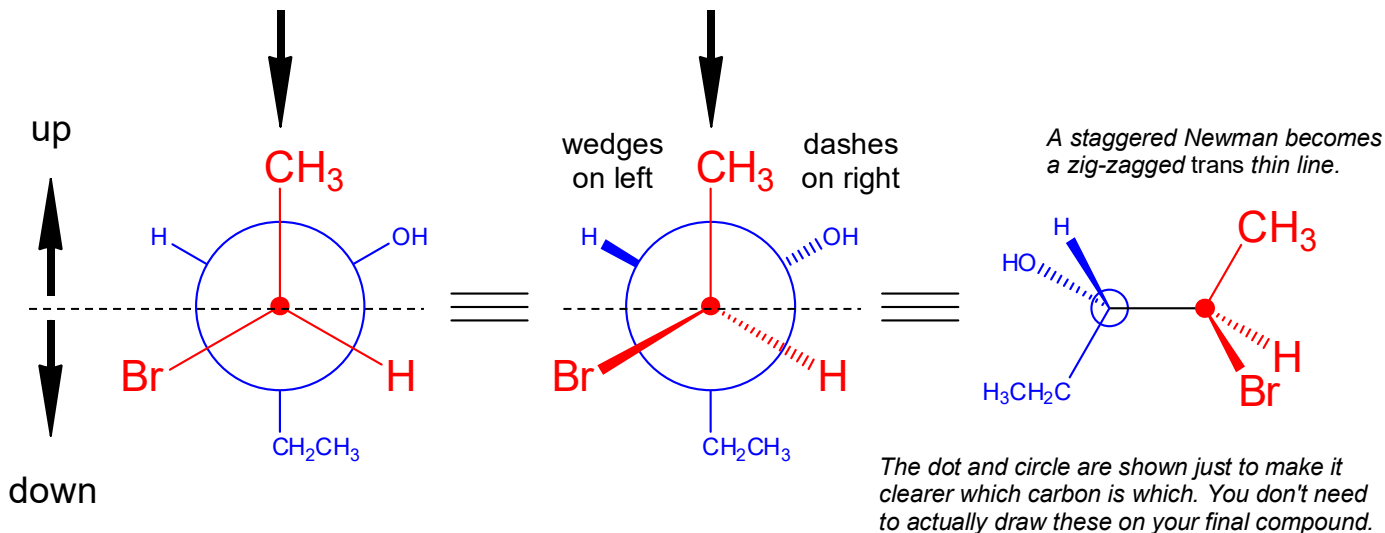
The thin lines from the wedge-dash structure become the "12:00 and/or "6:00" of the Newman.



**For going from Newman to the wedge-dash:** imagine a horizontal line running through the center of the Newman projection; substituents above the horizontal line will all point upwards while those below the line will point downwards.

Choose one side to be the wedges, the other side to be the dashes. In the example below, we made the wedges on the left and the dashes on the right. Now “turn” the molecule 90° so the wedges are in front and the dashes are in the back.

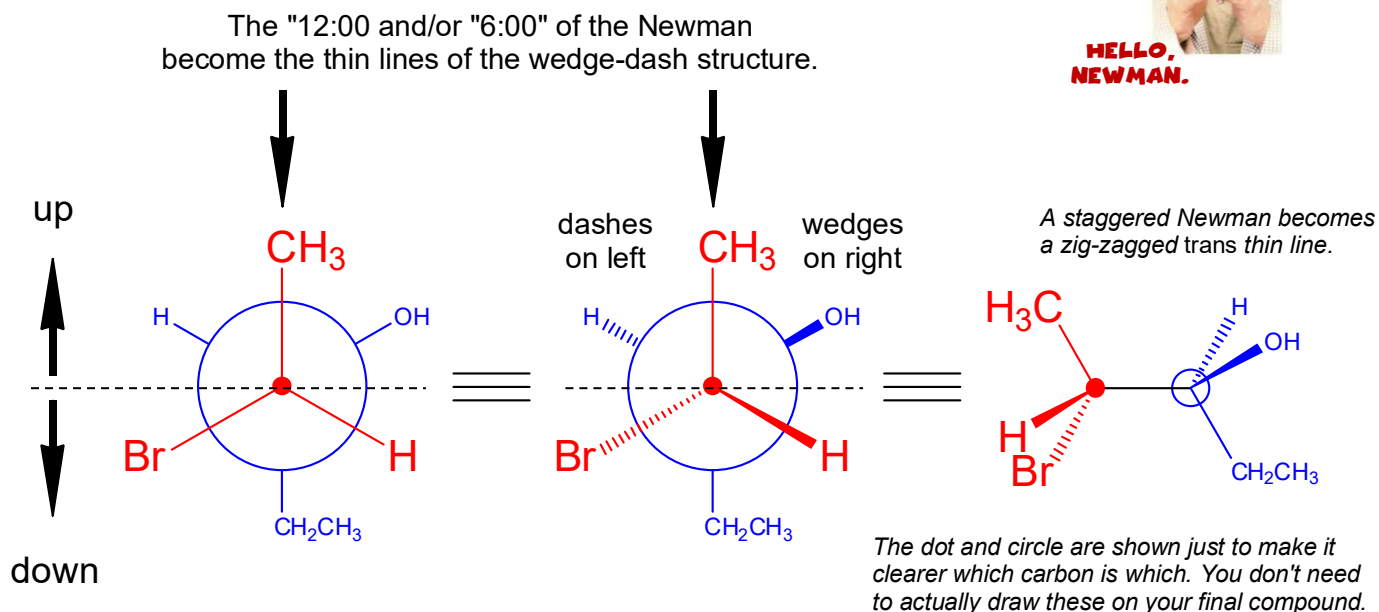
The "12:00 and/or "6:00" of the Newman become the thin lines of the wedge-dash structure.



Equally correct is to put the dashes on the left and the wedges on the right. Just always be sure to "turn" the molecule correctly so the wedges are in the front and the dashes are in the back.



**HELLO,  
NEWMAN.**



The technique we're outlining works the same for an eclipsed Newman projection as well.

