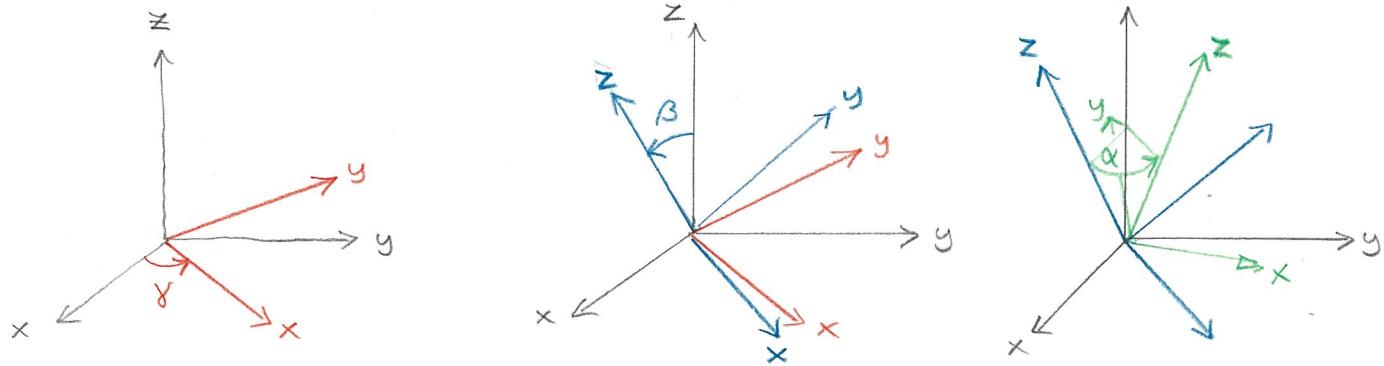
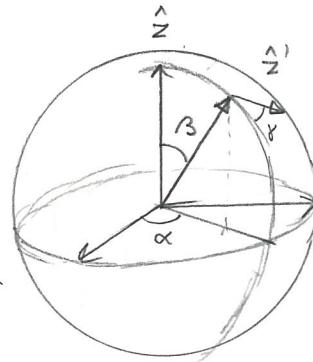


- 2nd definition of Euler angles: all rotations around the original axes.



- Perhaps easier to think about just the \hat{x} -direction located at the tip of the \hat{z} vector
- See DB-3 for the 1st definition of α, β, γ

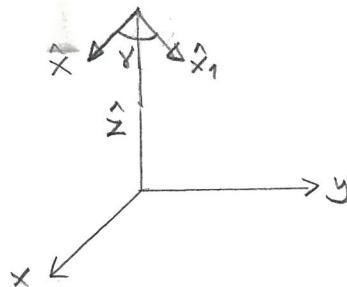


$$(\beta, \alpha) = (\vartheta, \phi) \text{ of new } \hat{z}'$$

If $\gamma=0$ then \hat{x}' points along the original ψ meridian

$\therefore \gamma$ is the angle between the new \hat{x}' direction (located at \hat{z}') and the ψ meridian

- In the 2nd definition this rotation is performed at the original \hat{z} .



Then \hat{z} is moved to $(\vartheta, \phi) = (\beta, 0)$
and to (β, α)

If I had not rotated by γ at first,
 \hat{x}' would now point along the original ψ meridian.

Because of the original γ rotation, it now is γ from it.