

# Center of Mass

$$\vec{r}_{cm} = \frac{m_1 \vec{r}_1 + m_2 \vec{r}_2}{\sum m_i}$$

Center of Mass = Balance point

Center  
of Mass!

- Shown is a yummy doughnut. Where would you expect the center of mass of this breakfast of champions to be located?



in my stomach

The fact that that doughnut is "yummy" is debatable if you ask me. I prefer mine with chocolate frosting and some sort of filling. The center of mass then is much easier to figure out. It's clearly the center of the jelly or custard filling area.

doughnuts don't have a center of mass because they are removed and sold as doughnut hole