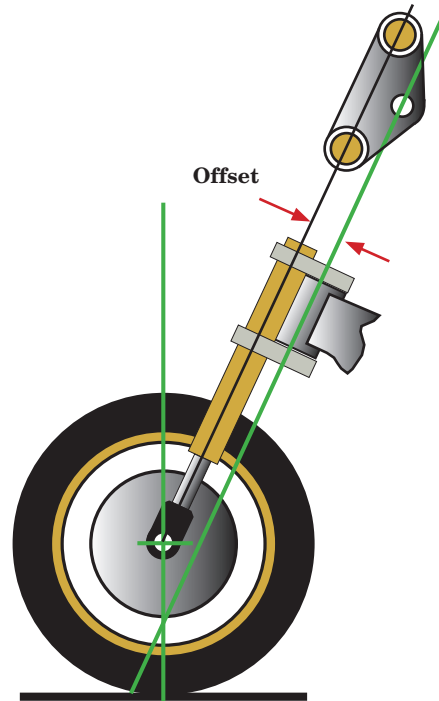


## Offset

Offset is the distance between the steering axis and the axis of the front wheel spindle when measured as shown in Fig 3.24.

On most bikes, the wheel spindle lies along the axis of the forks but on some it is set forward (a leading axle). This must be taken into account when determining the true offset. Clearly then, for any particular fork leg, offset is largely controlled by the design of the fork yokes.

The first thing to note is that *reducing offset will increase the ground trail*, while *increasing the offset will reduce the ground trail*, Fig 3.25.



**Right. Fig 3.24** Offset is defined as shown and it is determined by the design of the fork yokes. If the front wheel spindle is located in front of the fork leg axis, that extension must be included in the offset value.

**Below. Fig 3.25** Offset determines the ground trail you get from any particular rake angle and rolling tyre radius. Note that less offset gives more ground trail while more offset gives less ground trail as shown here.

