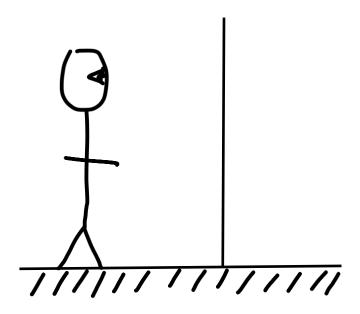
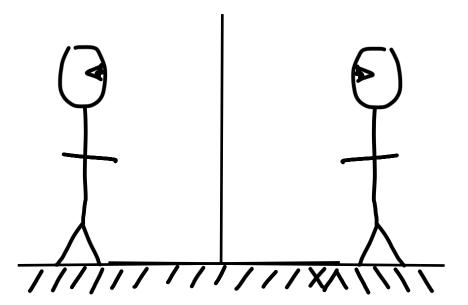
# How mirror works

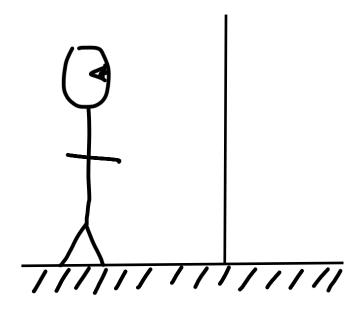
# Two equivalent models of how a mirror works



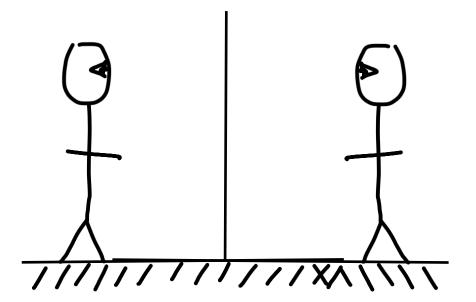
"Wow it's me in the mirror"



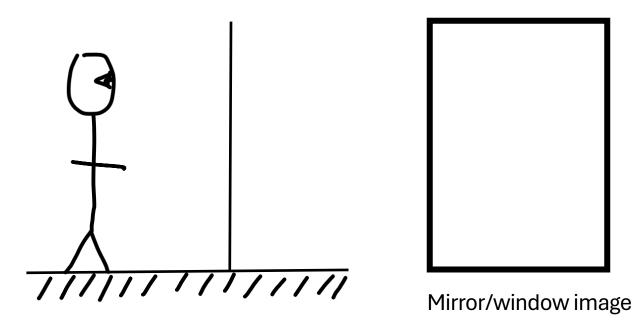
"My twin stands behind this window at an equal distance."

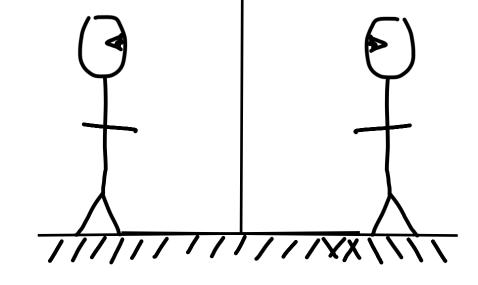


"Wow it's me in the mirror"



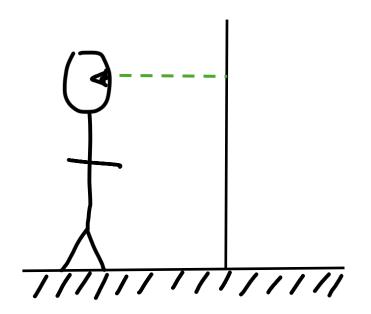
"My twin stands behind this window at an equal distance."

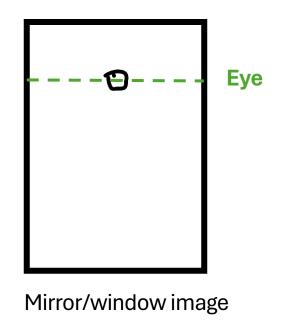


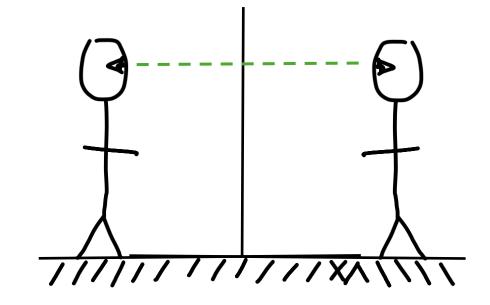


"Wow it's me in the mirror"

"My twin stands behind this window at an equal distance."

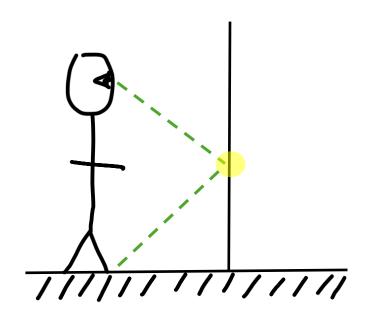


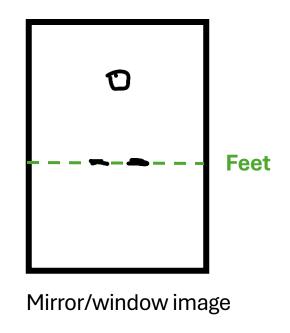


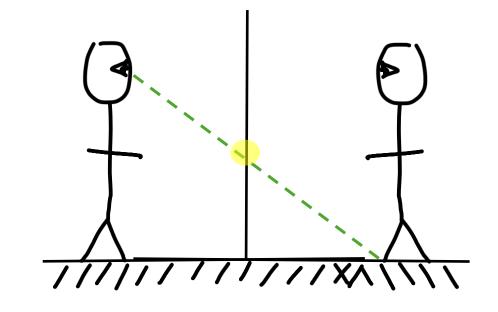


"Wow it's me in the mirror"

"My twin stands behind this window at an equal distance."

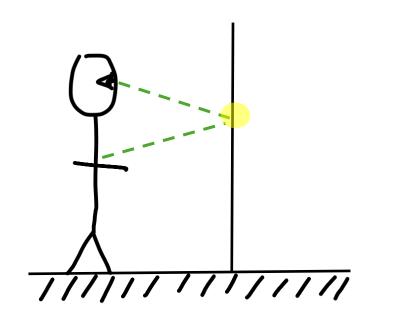


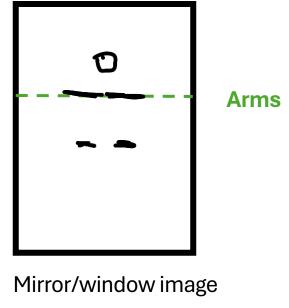


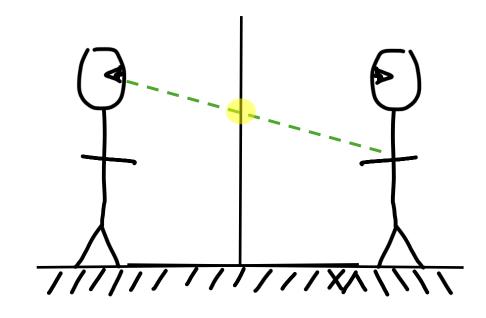


"Wow it's me in the mirror"

"My twin stands behind this window at an equal distance."

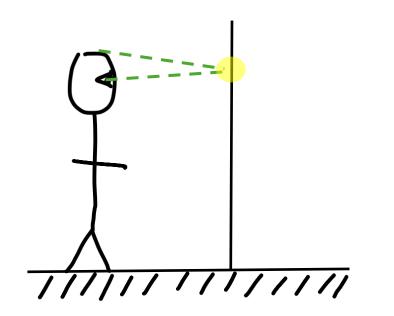


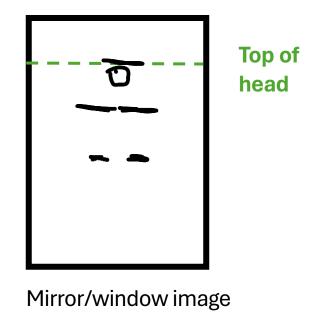


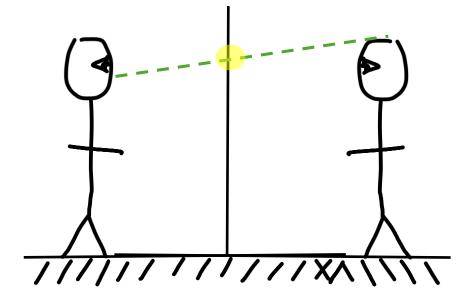


"Wow it's me in the mirror"

"My twin stands behind this window at an equal distance."

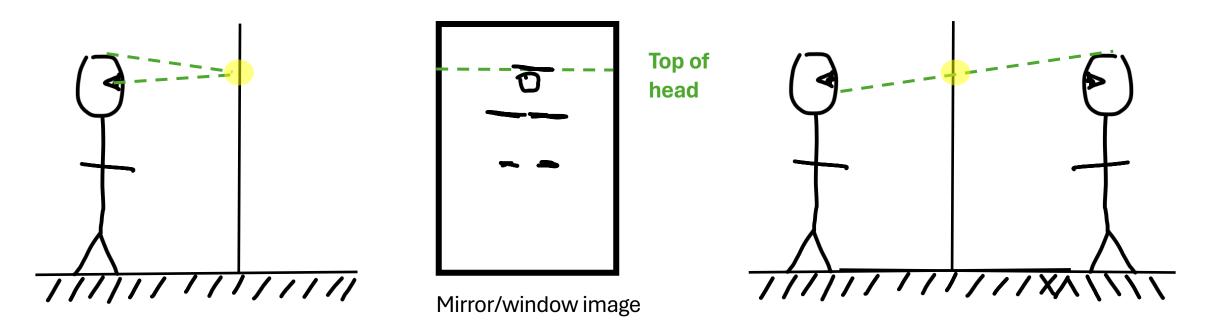






"Wow it's me in the mirror"

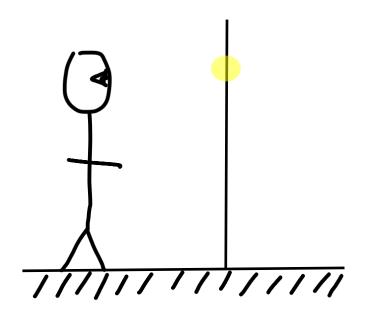
"My twin stands behind this window at an equal distance."

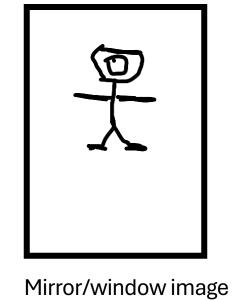


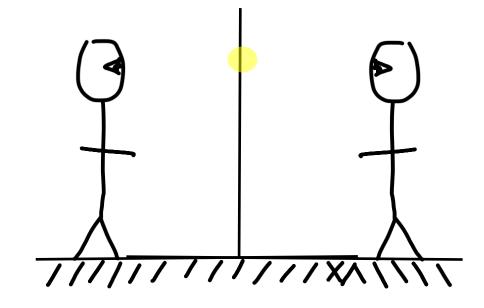
"Wow it's me in the mirror"

"My twin stands behind this window at an equal distance."

The mirror image of each body part is always midway up or down to the actual physical body part.



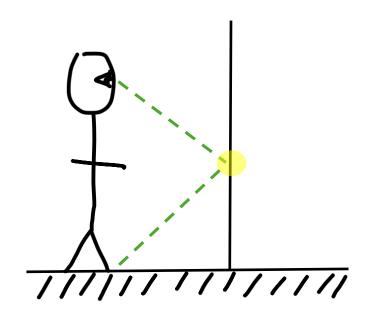


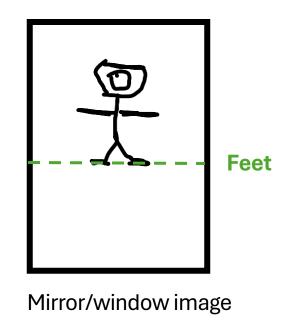


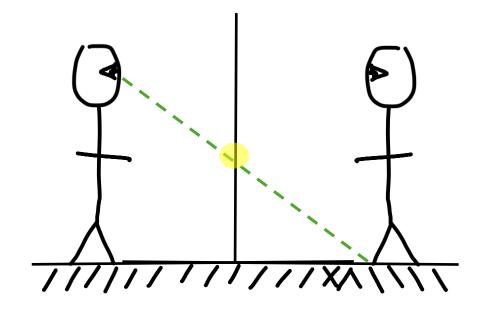
"Wow it's me in the mirror"

"My twin stands behind this window at an equal distance."

**Rest of the picture** 

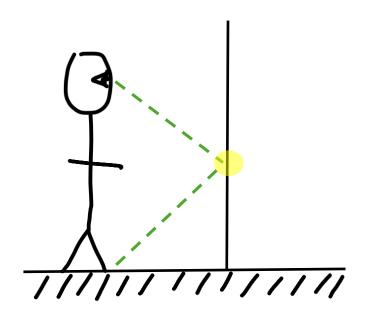


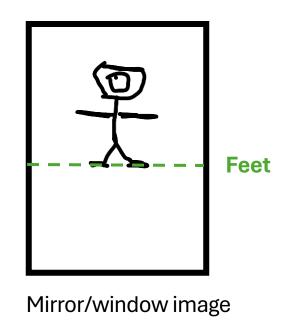


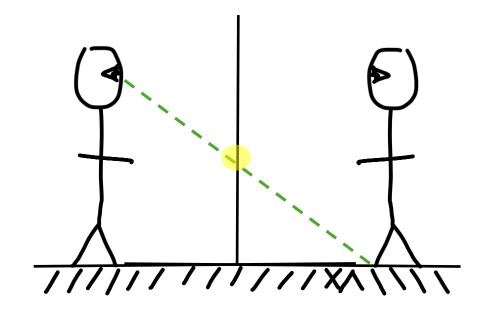


"Wow it's me in the mirror"

Boring Principle: Reflect the light ray. Scene remains unchanged. "My twin stands behind this window at an equal distance."



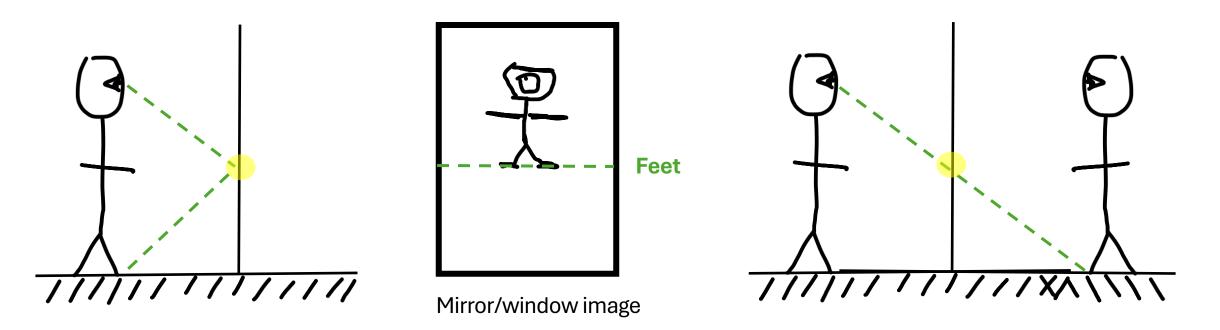




"Wow it's me in the mirror"

Boring Principle: Reflect the light ray. Scene remains unchanged. "My twin stands behind this window at an equal distance."

The Awesome Reflection Principle:
Don't reflect the light ray.
Reflect the scene across mirror instead.



#### Reflection Principle.

When a light ray (billiard ball, etc.) hits a mirror or wall, don't reflect the ray, reflect the scene across the mirror or wall instead.

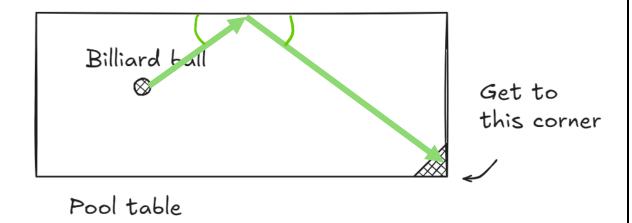
# Application

#### To hit a billiard ball



You could eye the angle...

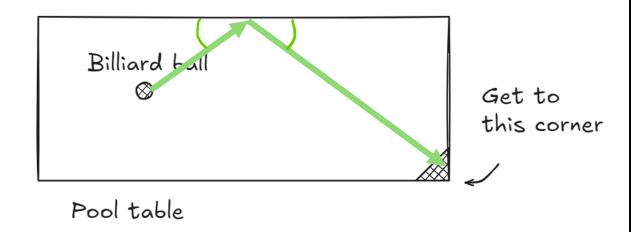
#### To hit a billiard ball



# You could eye the angle...

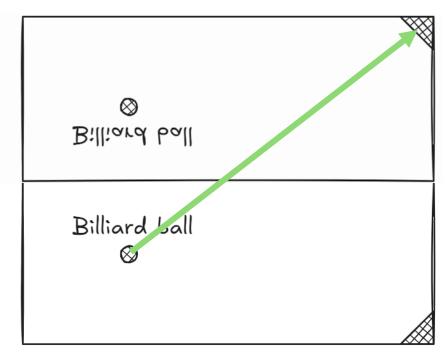
Reflect the line Scene stays the same

#### To hit a billiard ball



#### You could eye the angle...

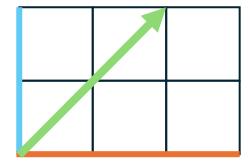
Reflect the line Scene stays the same



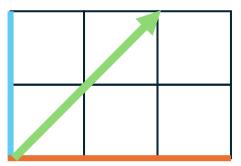
Pool table

### Or you could reflect the scene

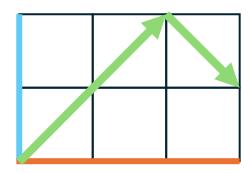
Reflect the scene Continue the line



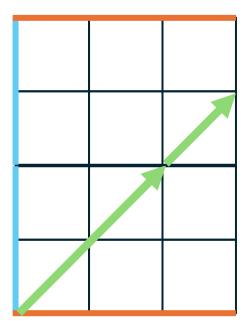
Reflect the line



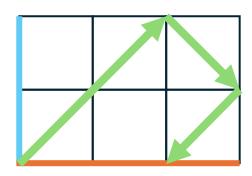
Reflect the scene



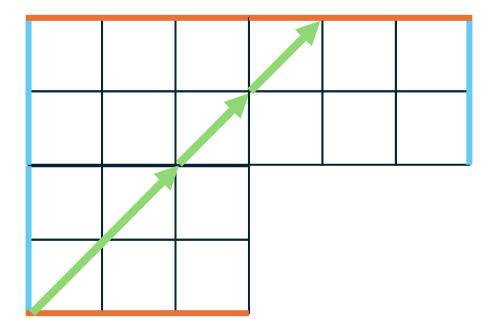
Reflect the line



Reflect the scene

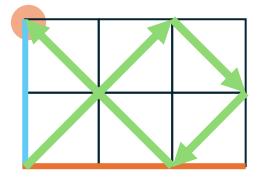


Reflect the line

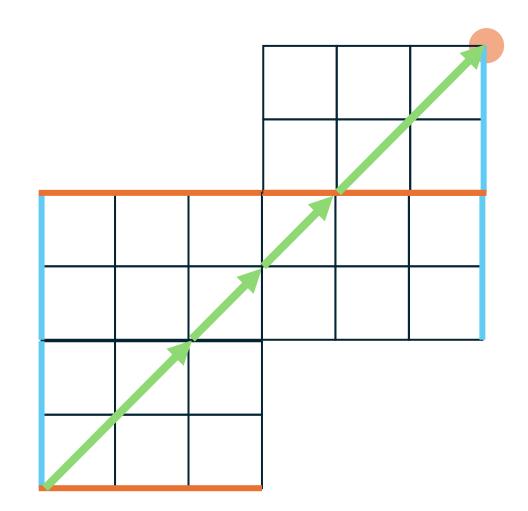


Reflect the scene

Hits corner after 3 bounces



Reflect the line



Reflect the scene