Announcement:

No field trip: Regoired assignment on the web page! (Due 4/22)

Remember: You moment un ometer is designed to help you understand momentum

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Conservation of momentum:
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The total amount of momentum in a situation dorsn't change unless a new object enters the situation.

Analogy:

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Start: # 1.00
# 30

Eval: # 2.00

# 2.00

# 2.00

# 2.00

# 2.00

# 2.00

# 2.00

# 2.00

# 2.00

# 2.00

# 1.00

# 1.00

# 1.00

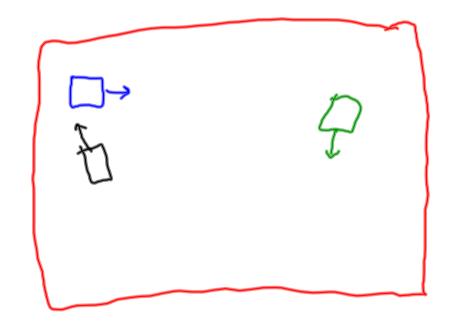
# 1.00

# 1.00

# 1.00
```

Momentum works the same way as money:

If can be transferred from our object to another - but the total momentum in a situation doesn't change



the total momentum
will always be
the same;

the individual momentum
of each (ar will
change!

Transfer of womentum:

- · When two objects collided, they can exchange some of their momentum
- . There are egoctions that our allow us to make predictions
- . We'll focus on problems where one moving object collides with a stationary object and transfers all of its momentum

