


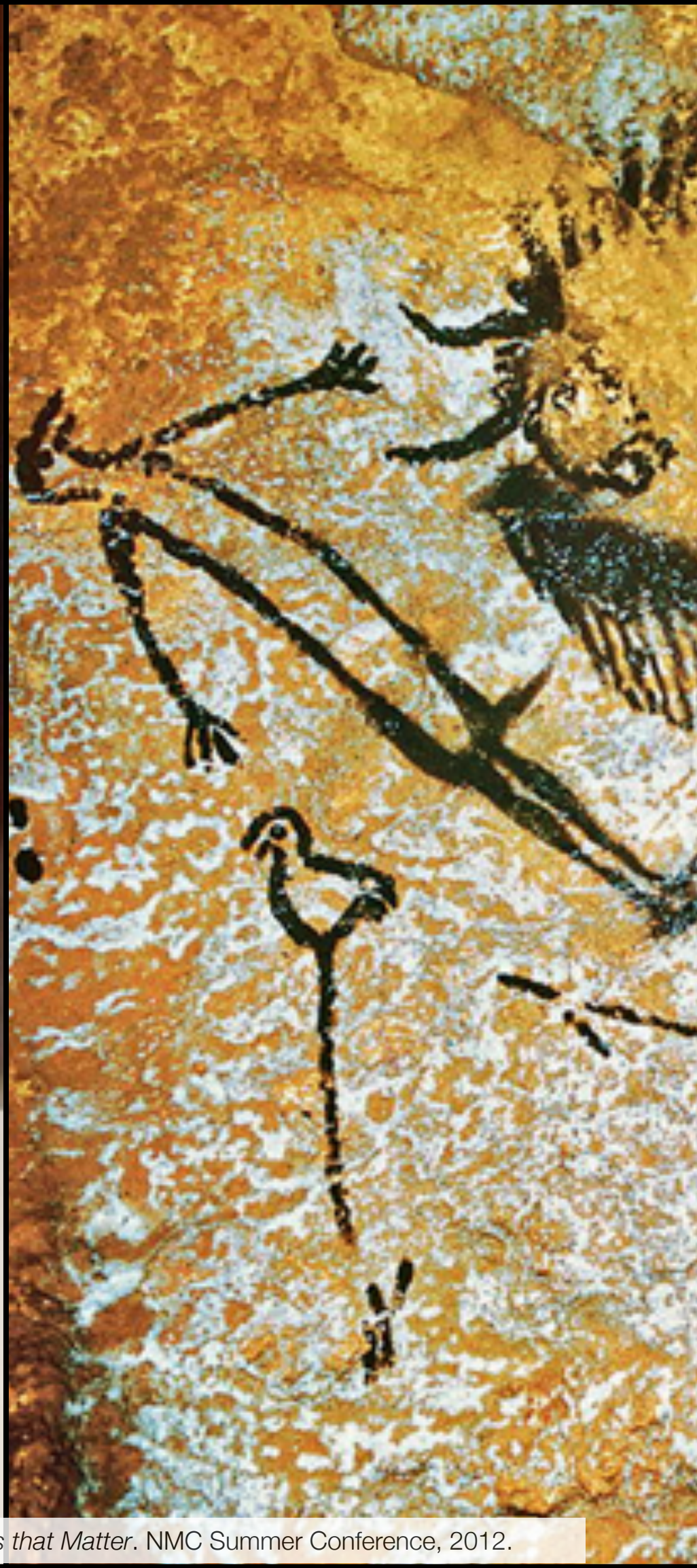



# Mobility and the Road Ahead

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Ruben R. Puentedura, Ph.D.



Social	Mobility	Visualization	Storytelling	Gaming
200,000 years	70,000 years	40,000 years	17,000 years	8,000 years
				



## The EdTech Quintet – Associated Practices

Social	Communication, Collaboration, Sharing
Mobility	Anytime, Anyplace Learning and Creation
Visualization	Making Abstract Concepts Tangible
Storytelling	Knowledge Integration and Transmission
Gaming	Feedback Loops and Formative Assessment





Ubiquity





Intimacy



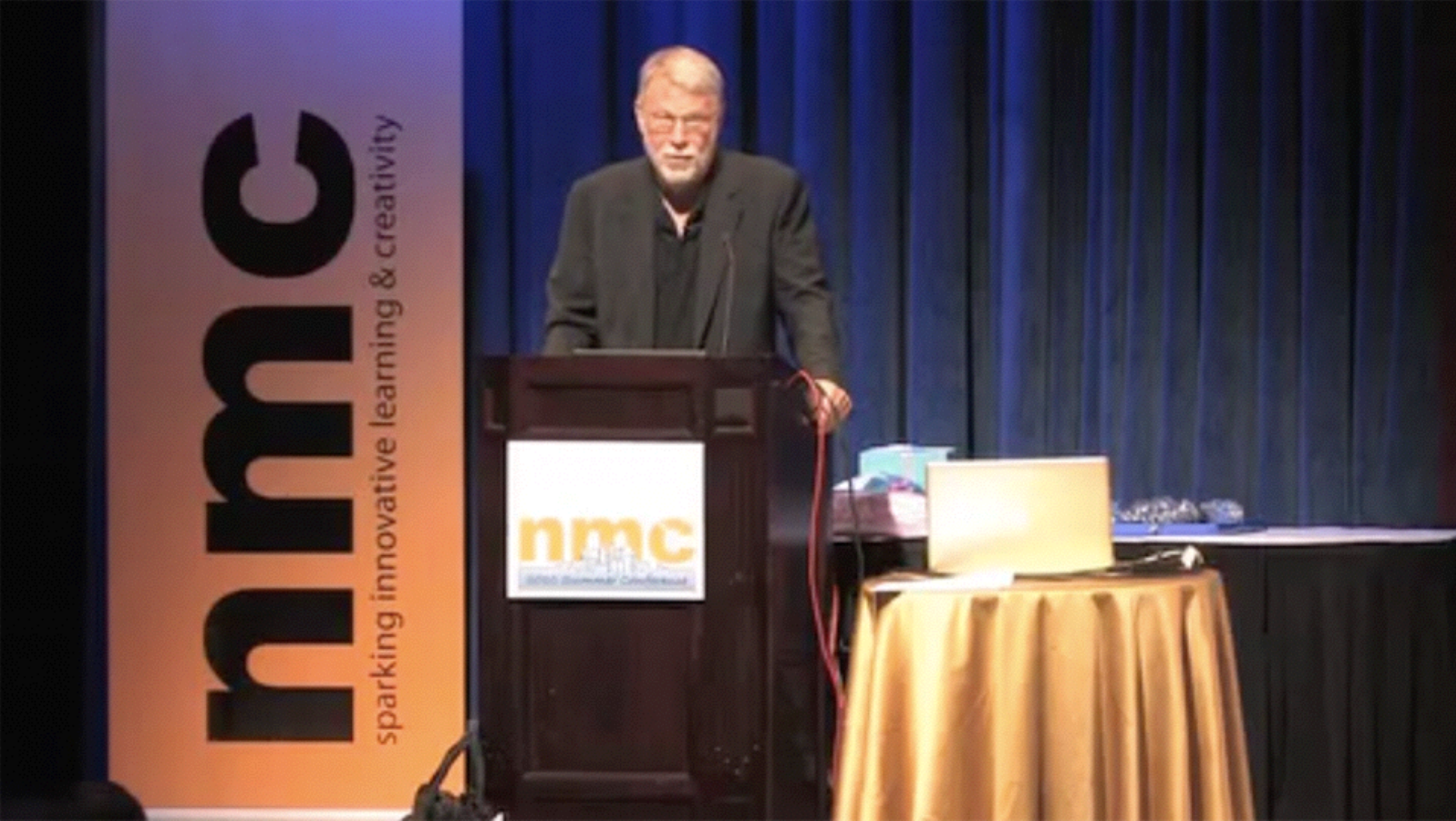


Embeddedness



# The Curiosity Amplifier



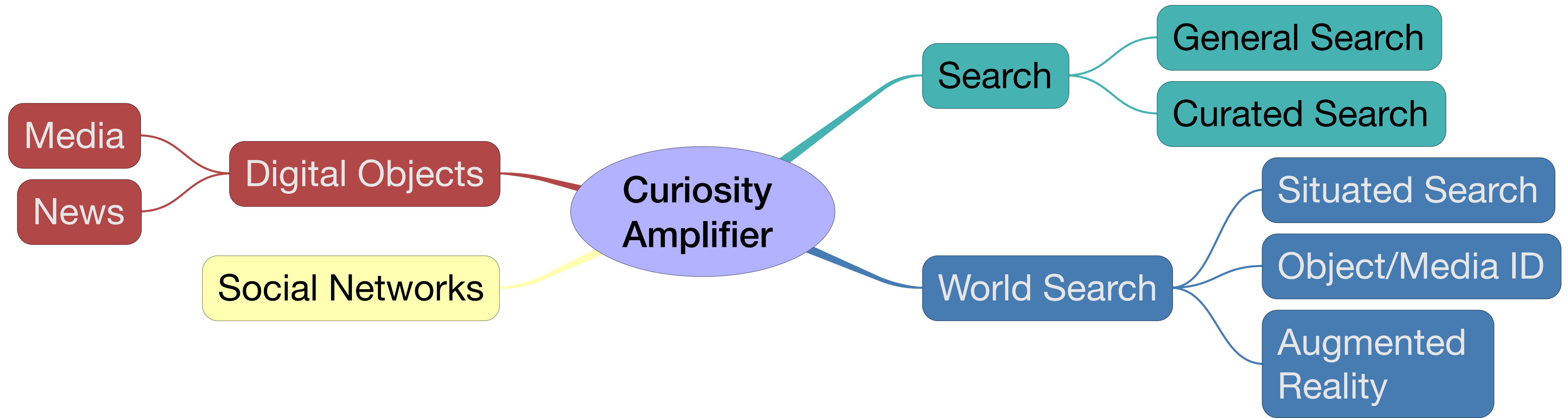


## The Grommets



A story about how fame & fortune was brought to Maui











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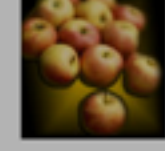
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Game Theory - Video



10 - Mixed strategies  
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6 **Baseball - Correct Throwing Form - POV Homeplate**



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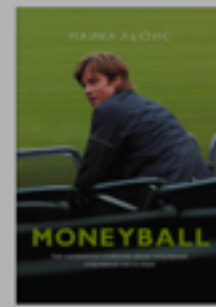
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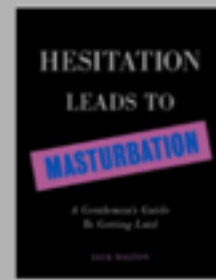
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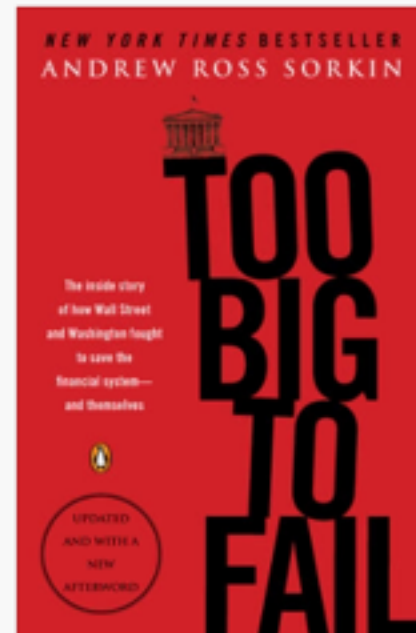
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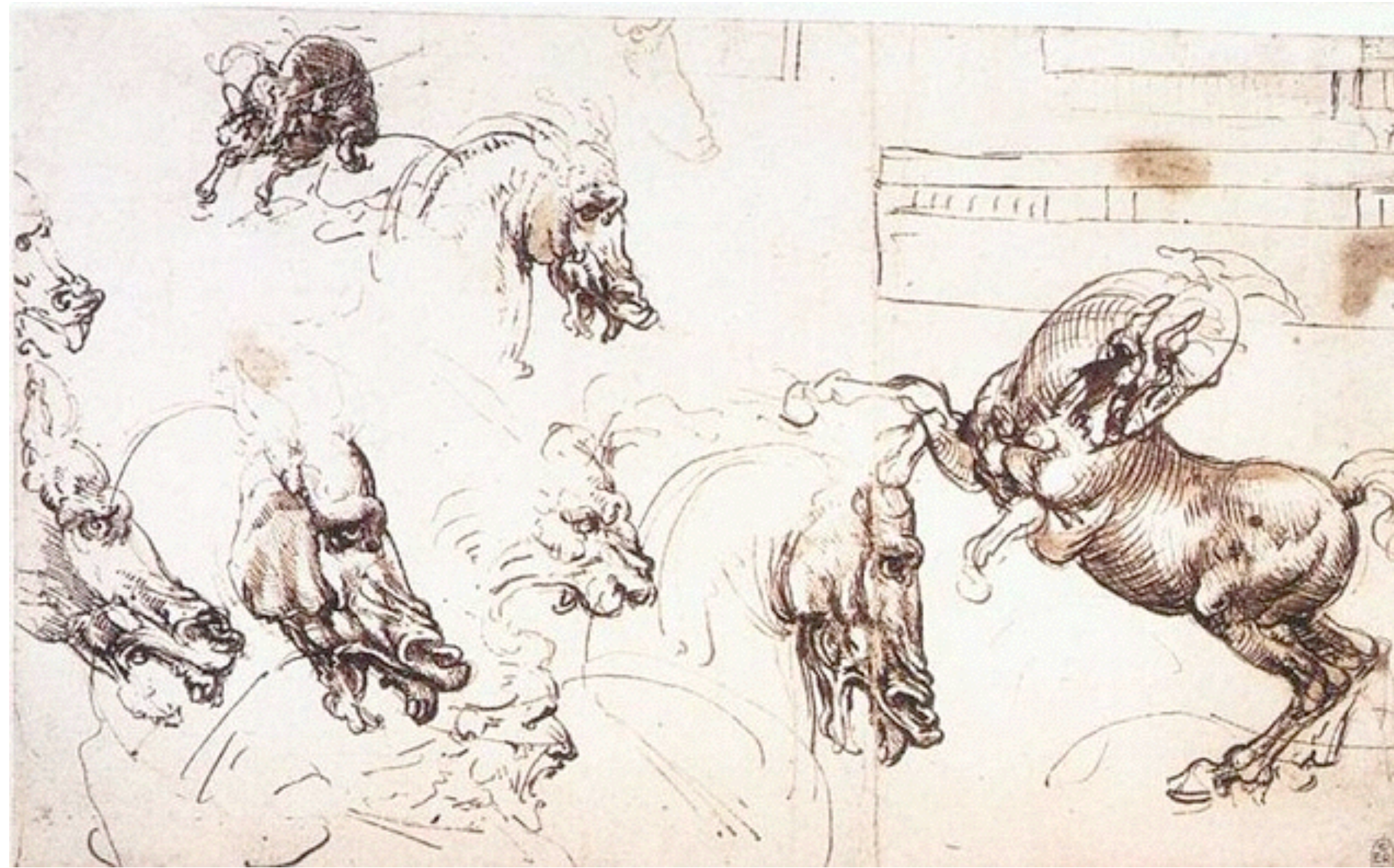


# The Lively Sketchbook





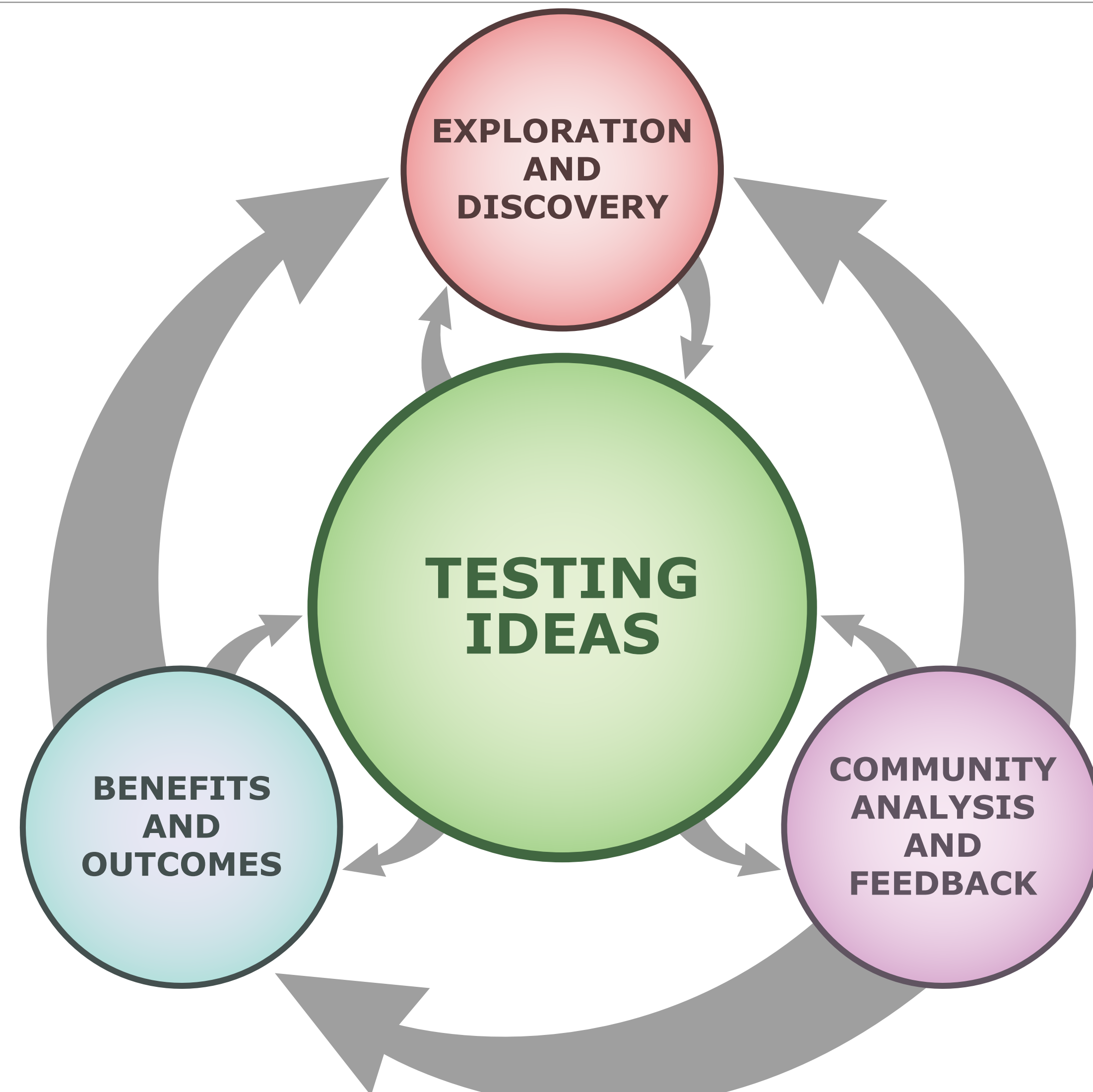






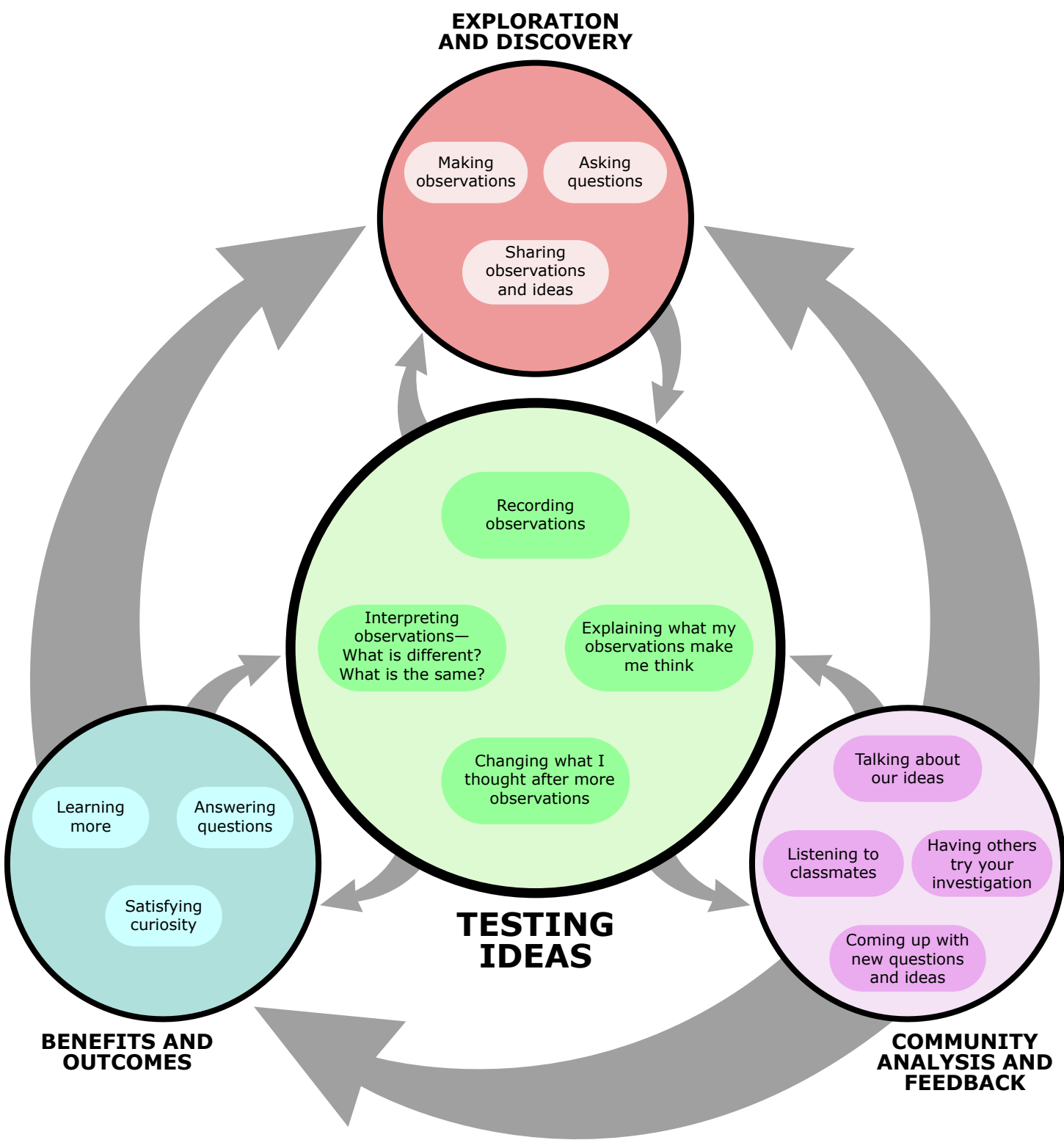
# Understanding Science: How Science Works

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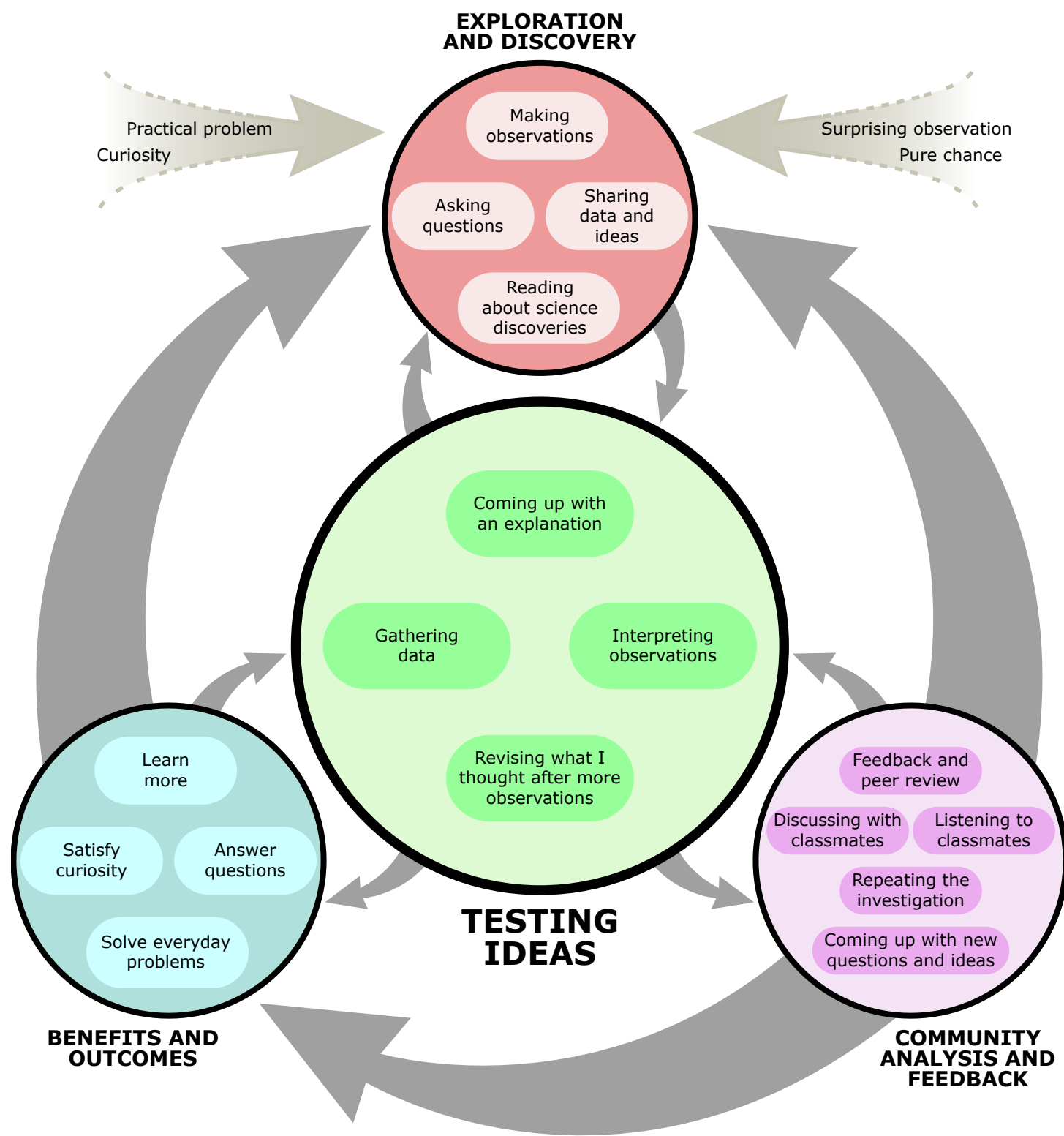




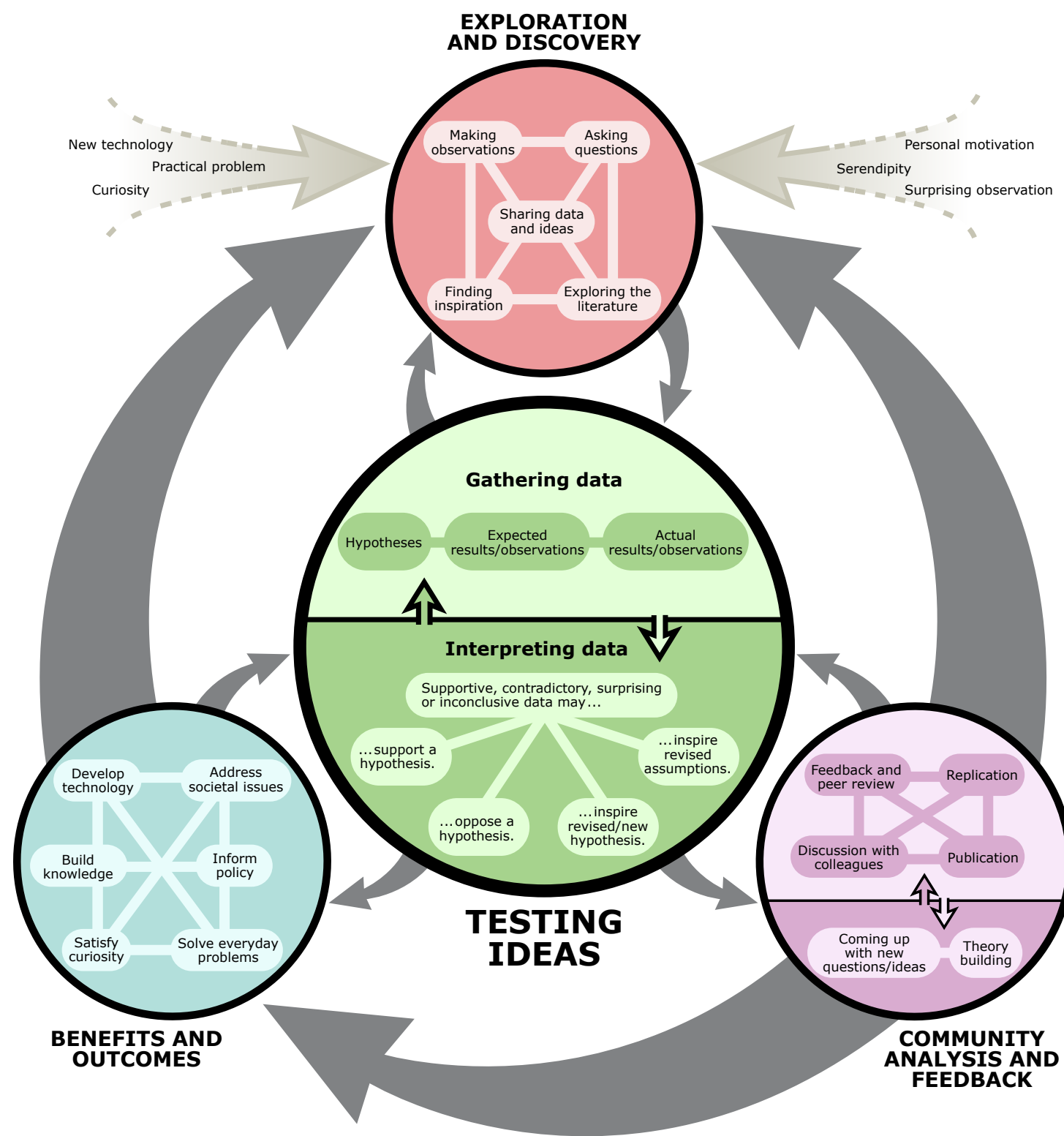
# Understanding Science: How Science Works



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6-16



# Redefinition

Tech allows for the creation of new tasks, previously inconceivable

# Modification

Tech allows for significant task redesign

# Augmentation

Tech acts as a direct tool substitute, with functional improvement

# Substitution

Tech acts as a direct tool substitute, with no functional change

### Aquatic Biomes

Aquatic biomes cover 75 percent of the surface of the Earth. The aquatic and terrestrial biomes are similar in some ways

**bi•ome** | 'bī,ōm |

noun Ecology

a large naturally occurring community of flora and fauna occupying a major habitat, e.g., forest or tundra.

ORIGIN early 20th cent.: from BIO- 'life' + -OME

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ns, the ability of is the food nt for arth and ous oxy- carbon oy pro- ts.

d ma- on of dis-

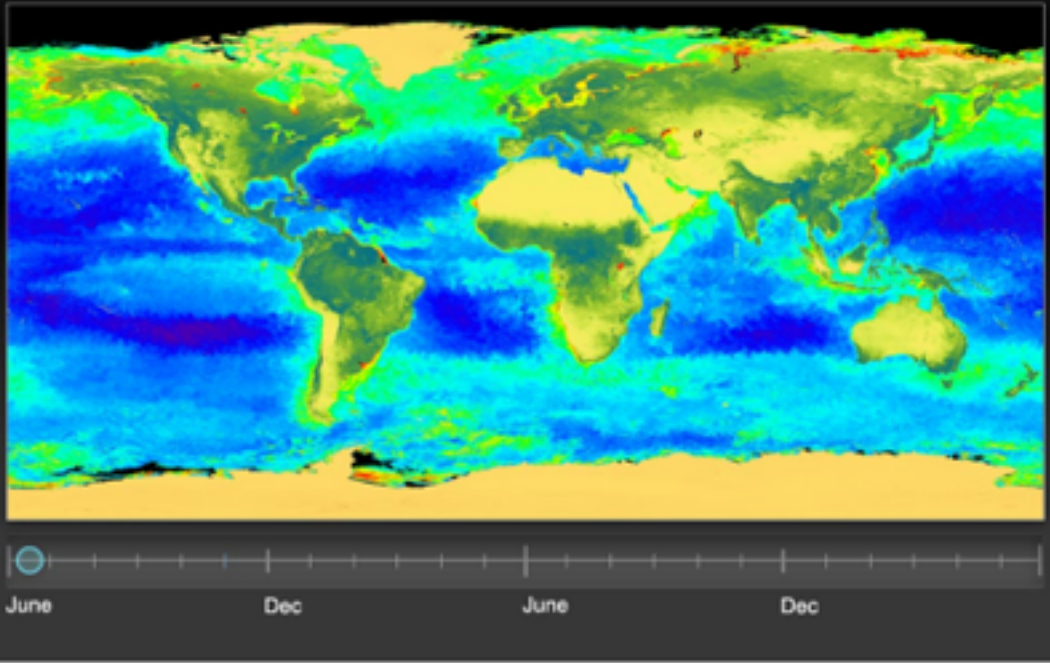
dissolved salts (0.05 percent), whereas ocean water has about 35,000 parts per million (3.5 percent).

Some aquatic organisms are adapted to both conditions for parts of their lives, such as salmon and some eels, but it

is more common for organisms to be confined to one of the two environments.

Aquatic environments have less variation globally than those on land. Taking a broad view (the lumpers' perspective), there are four kinds of aquatic biomes: surface waters, deep waters, shores, and bottoms. Within these categories are a variety of distinctive marine and freshwater life zones that are frequently designated as separate biomes.

#### Worldwide Photosynthetic Activity



June Dec June Dec

**Interactive** The latitudes of peak photosynthesis change with the seasons.

31



## Redefinition

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### EURASIAN COLLARED-DOVE

*Streptopelia decaocto*  
Locally common, exotic

12½–13 in. (32–33 cm)

Recent colonizer of N. America from Caribbean but native to Eurasia; rapidly increasing and spreading. Slightly chunkier than Mourning Dove, *paler beige*, and with *square-cut tail*. Note *narrow black ring on hindneck*. *Grayish undertail coverts*. Three-toned wing pattern in flight.

### SPOTTED DOVE

*Streptopelia chinensis*  
Uncommon, local, exotic

12 in. (30–31 cm)

Note *broad collar of black and white spots* on hindneck. A bit larger than Mourning Dove; tail rounded with much white in corners. *Juvenile*: Lacks collar, but can be told by shape of spread tail.

### ROCK PIGEON (ROCK DOVE, DOMESTIC PIGEON)

*Columba livia*  
Common, exotic

12½ in. (32 cm)

Typical birds are gray with *whitish rump*, *two black wing bars*, and *broad, dark tail band*. Domestic stock or feral birds may have many color variants.





## Redefinition

*Tech allows for the creation of new tasks, previously inconceivable*

## Modification

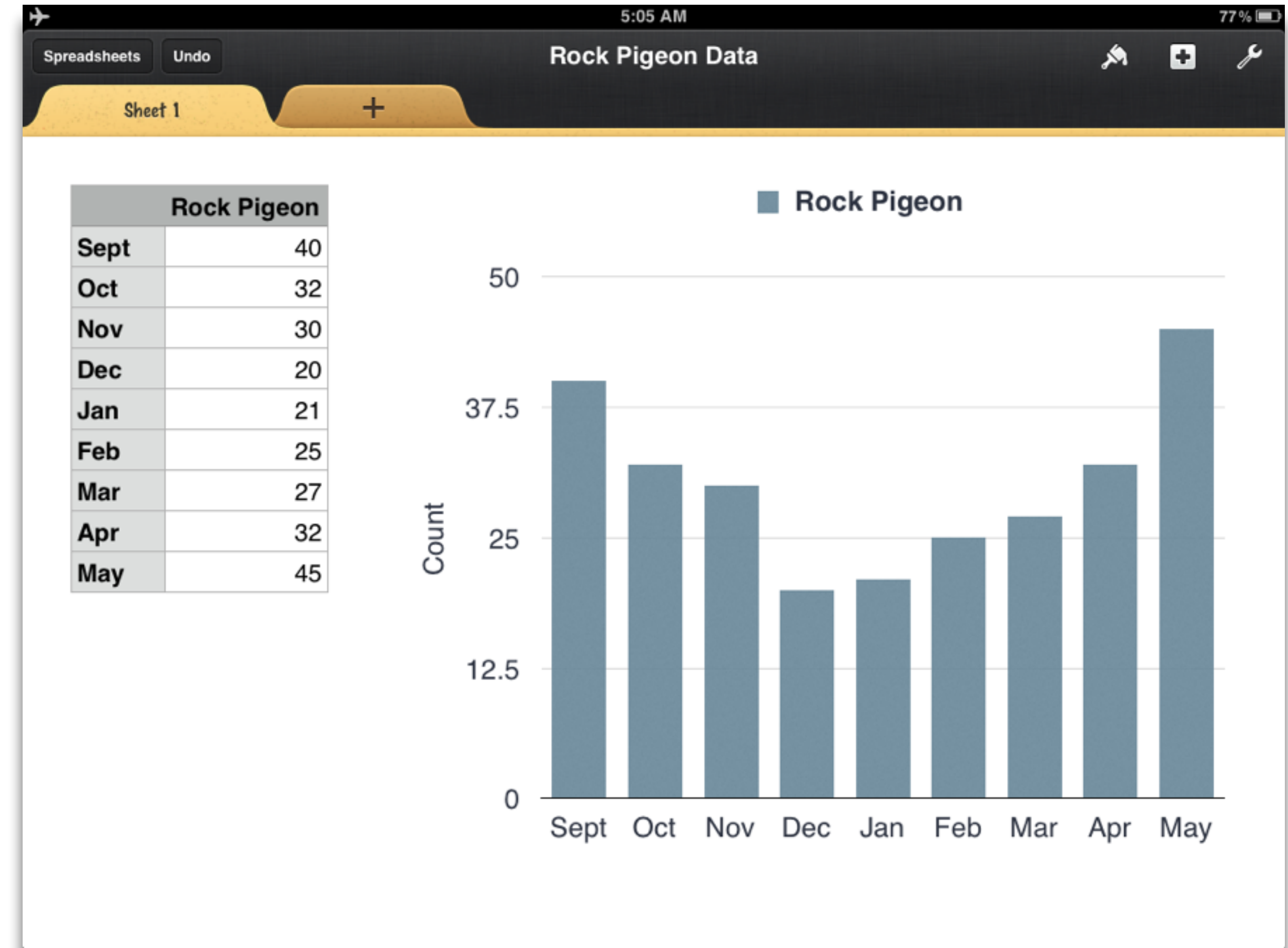
*Tech allows for significant task redesign*

## Augmentation

*Tech acts as a direct tool substitute, with functional improvement*

## Substitution

*Tech acts as a direct tool substitute, with no functional change*





## Redefinition

*Tech allows for the creation of new tasks, previously inconceivable*

## Modification

*Tech allows for significant task redesign*

## Augmentation

*Tech acts as a direct tool substitute, with functional improvement*

## Substitution

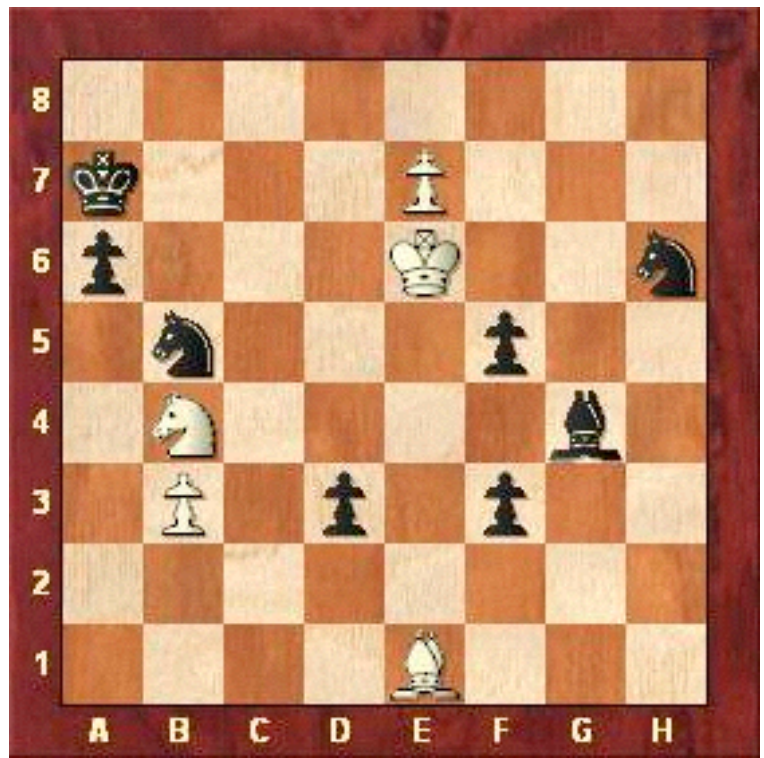
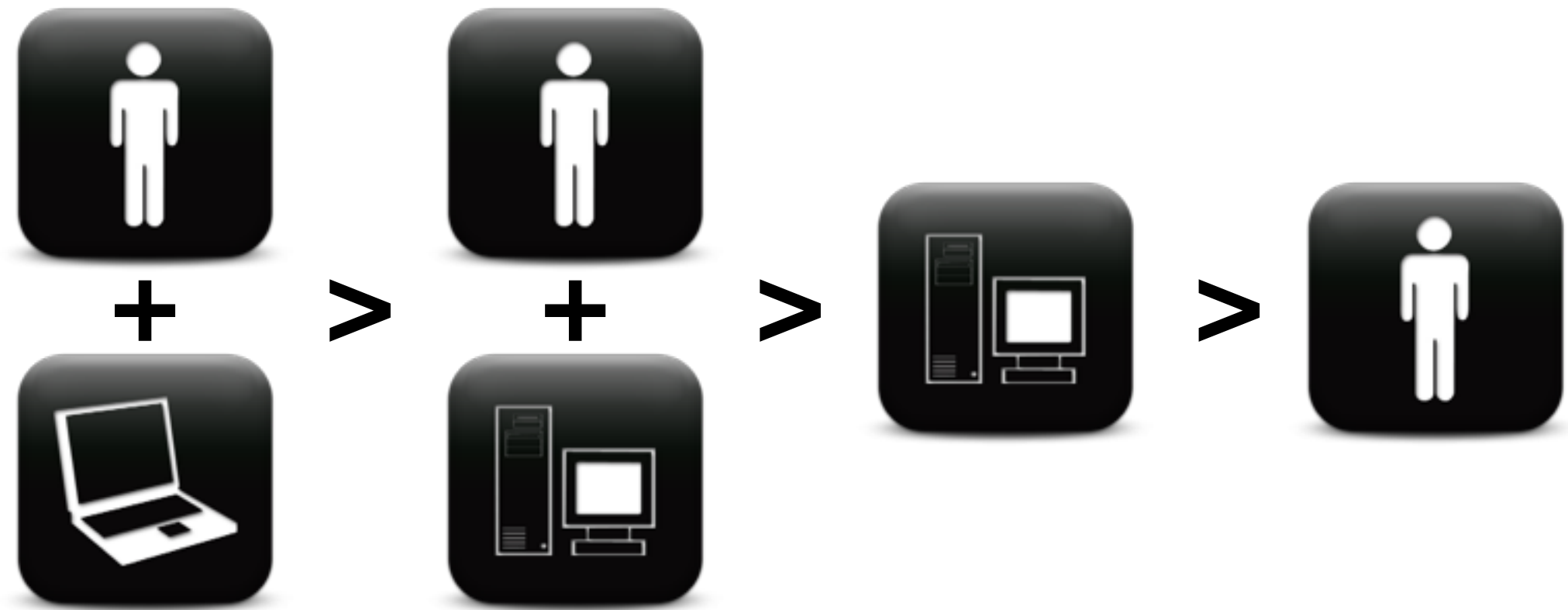
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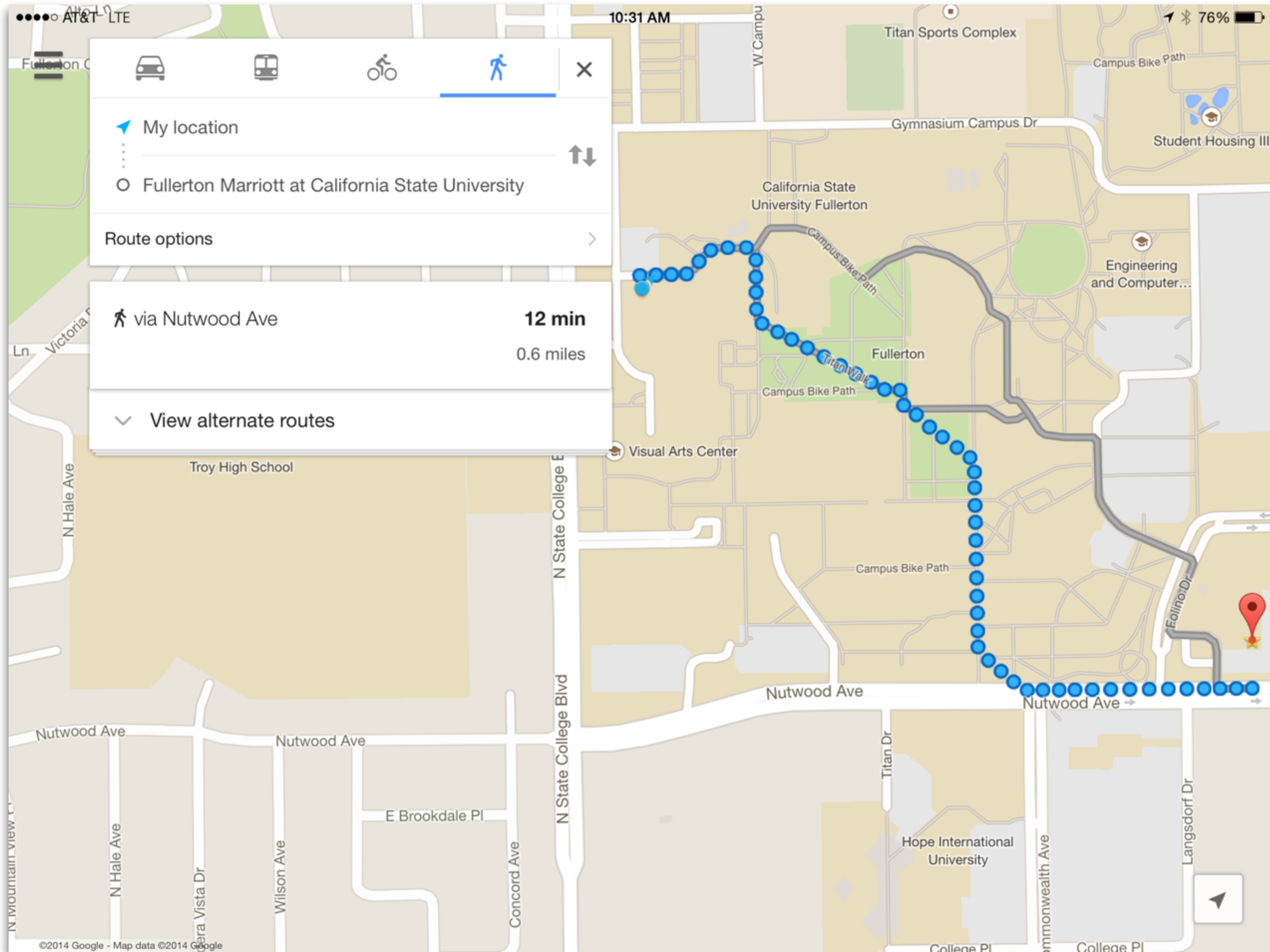
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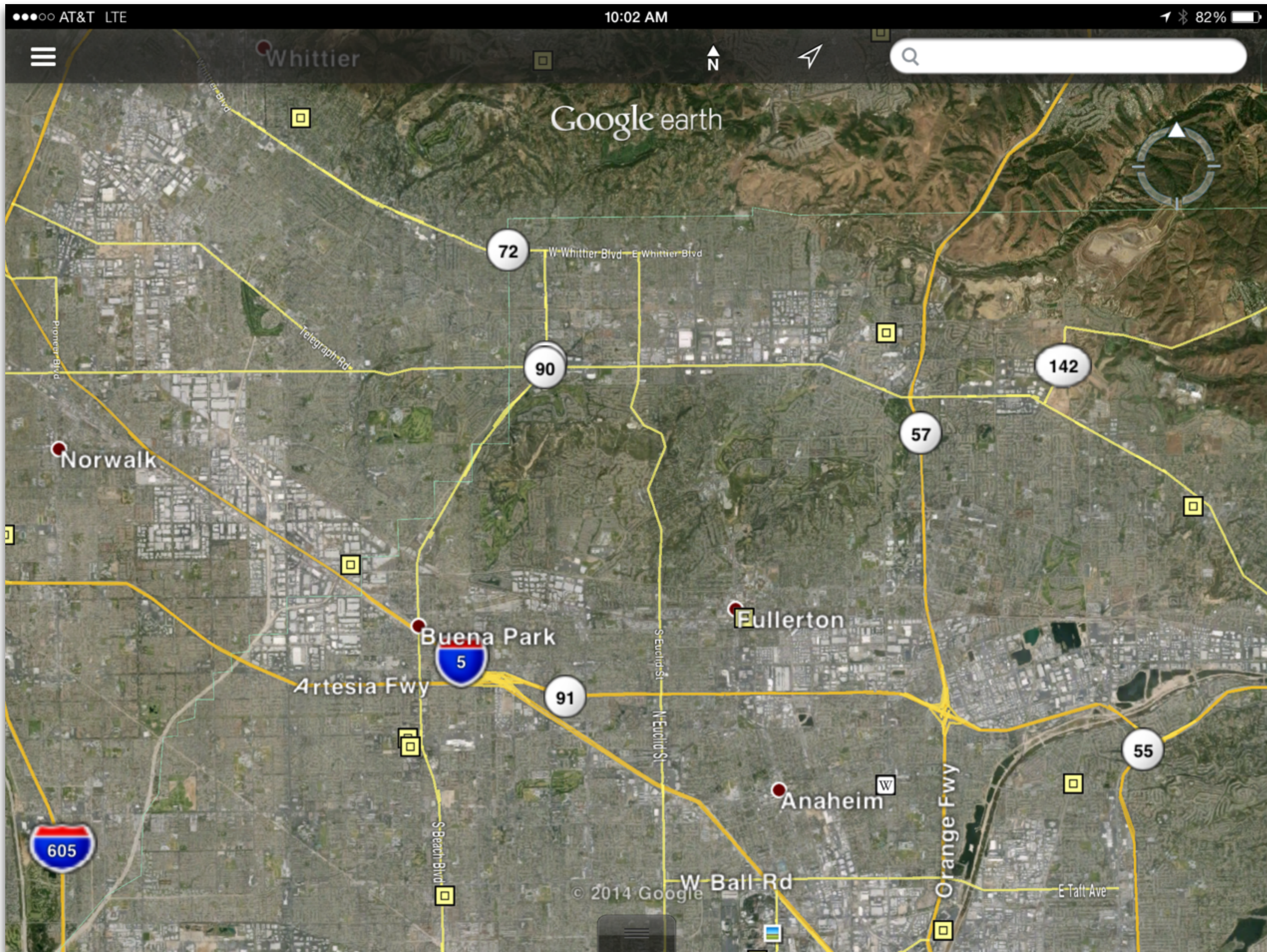


Garry Kasparov, "The Chess Master and the Computer". *The New York Review of Books*. (February 11, 2010)

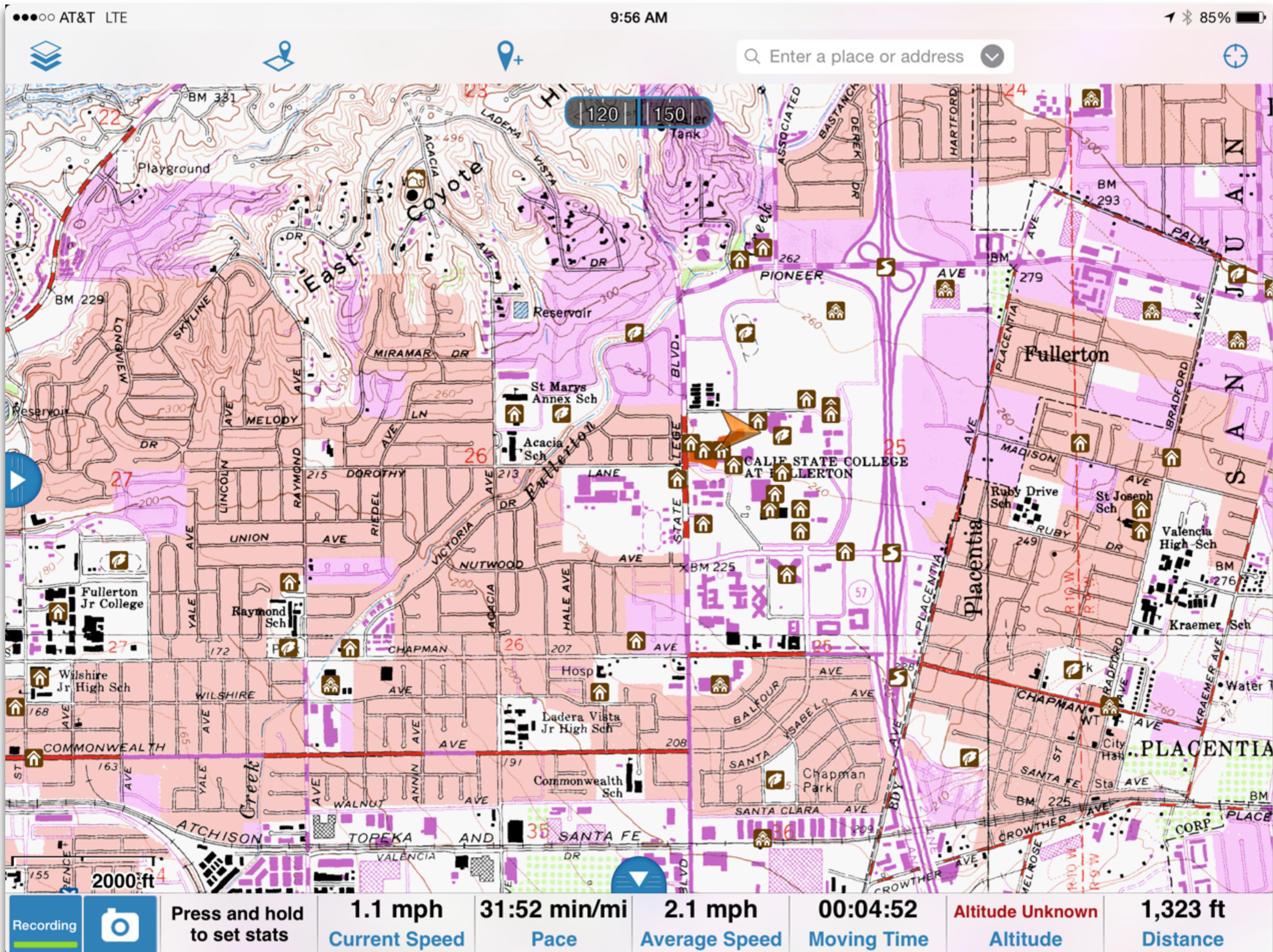














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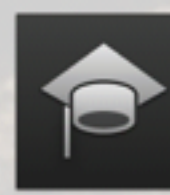
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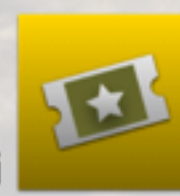
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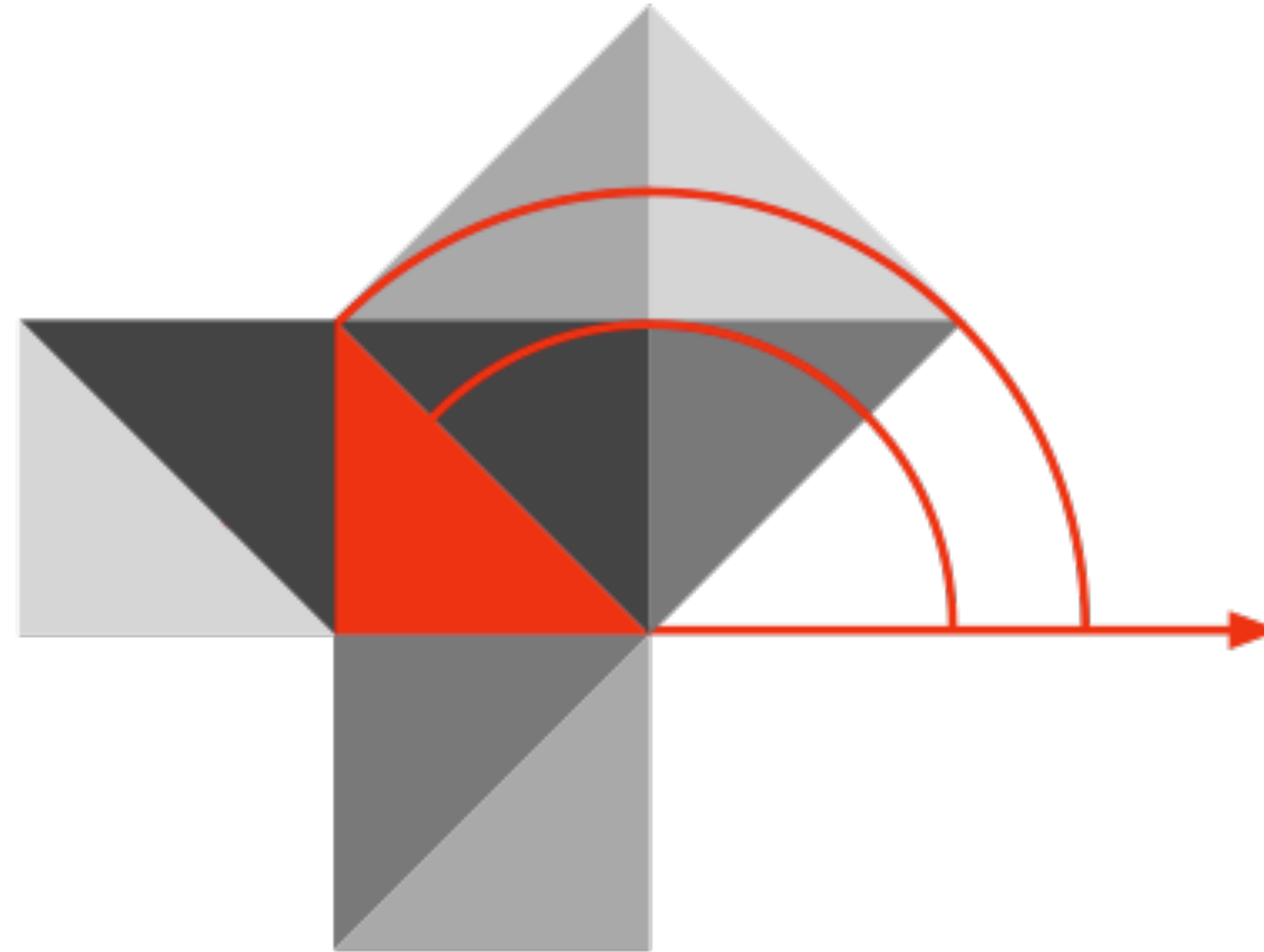
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