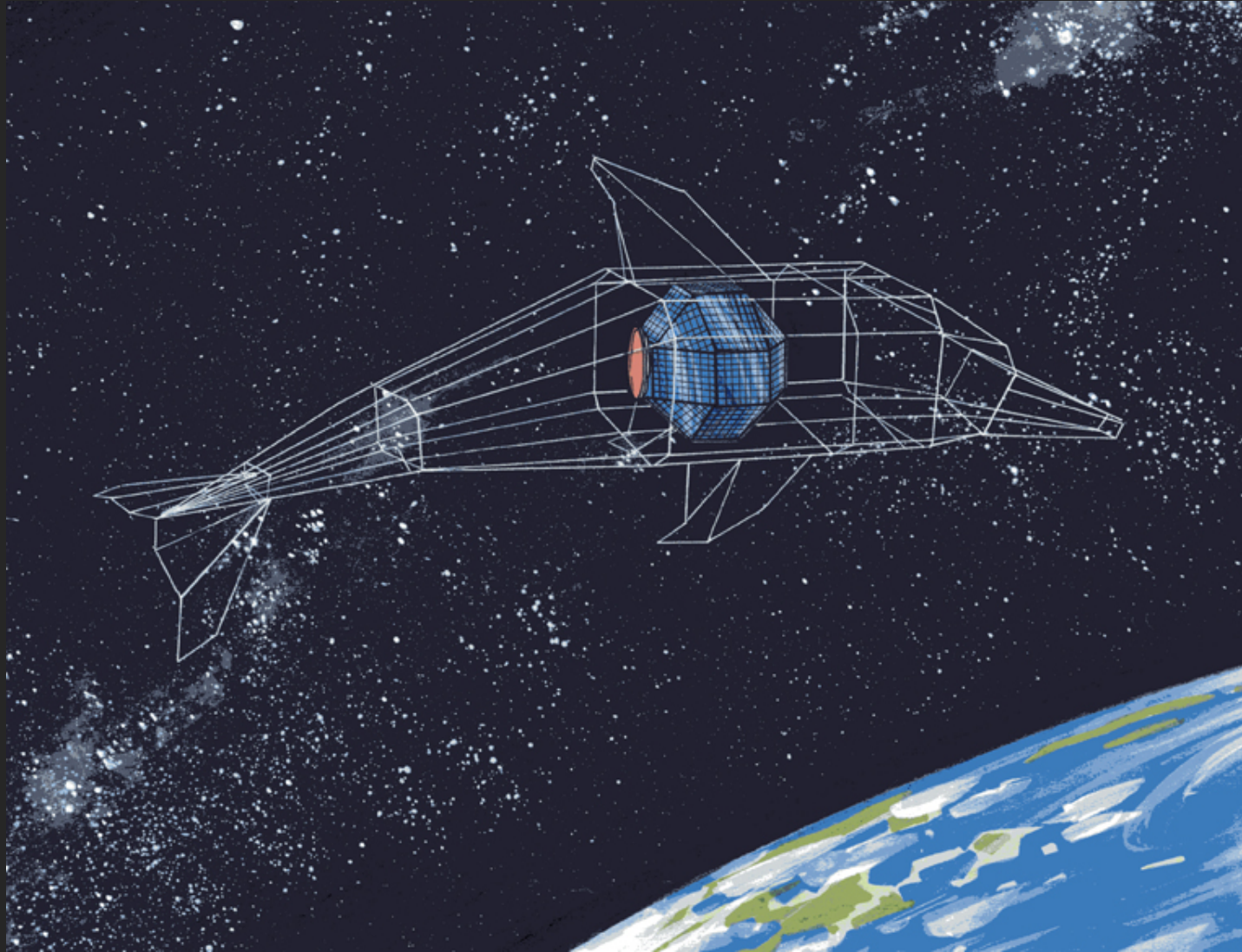


# space travel



# space travel

## Transportation & Geography:

Commerce

Demographics

Politics

Velocity

Borders

Migration

# space travel

“Overcoming space requires expenditure of energy and resources, something that nature and humans try to minimize.”

# space travel

“Desire arises only at a distance from objects.”

# LOCOMOTION / TRAINS

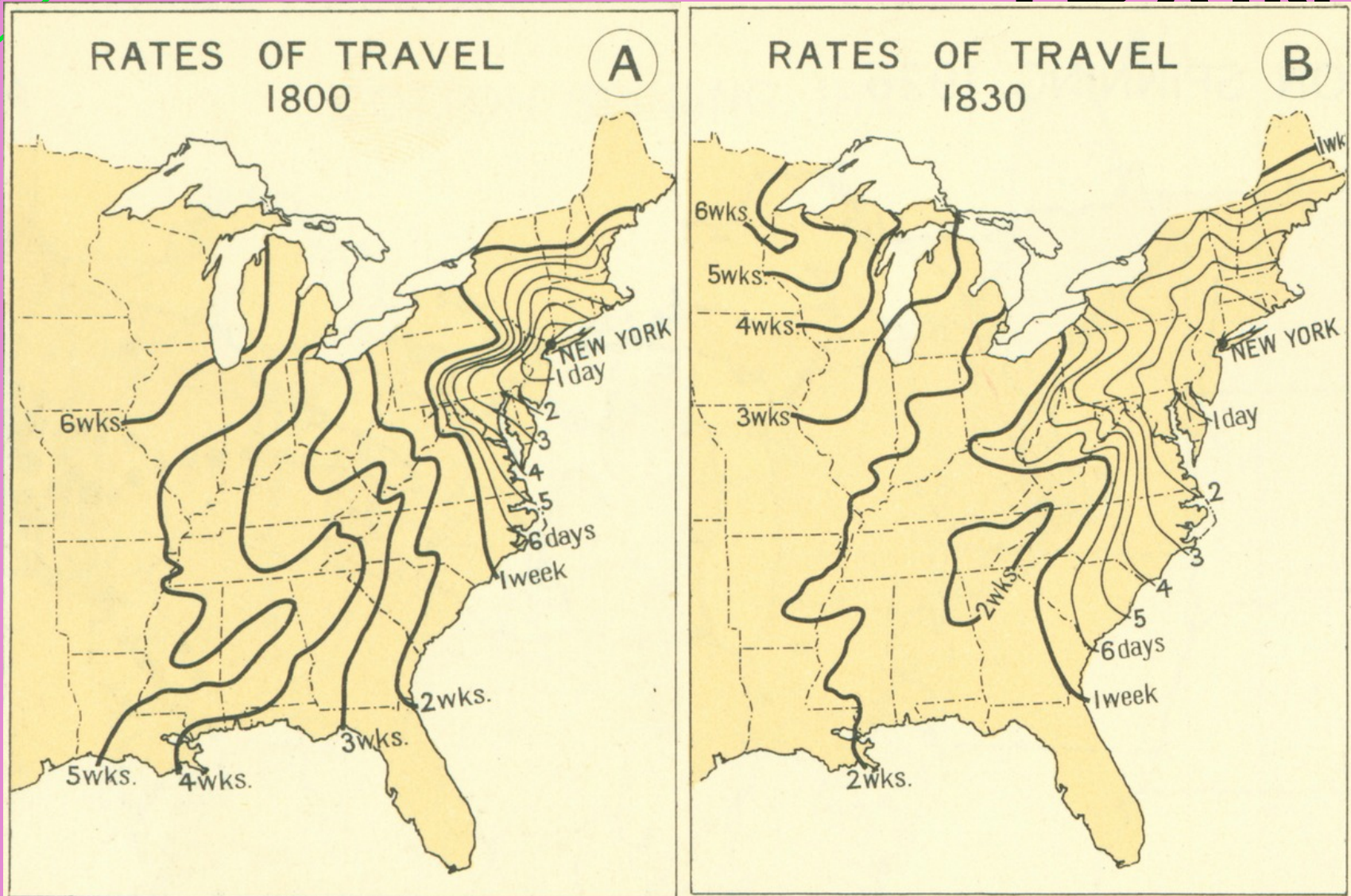




# LOCOMOTION / TRAINS

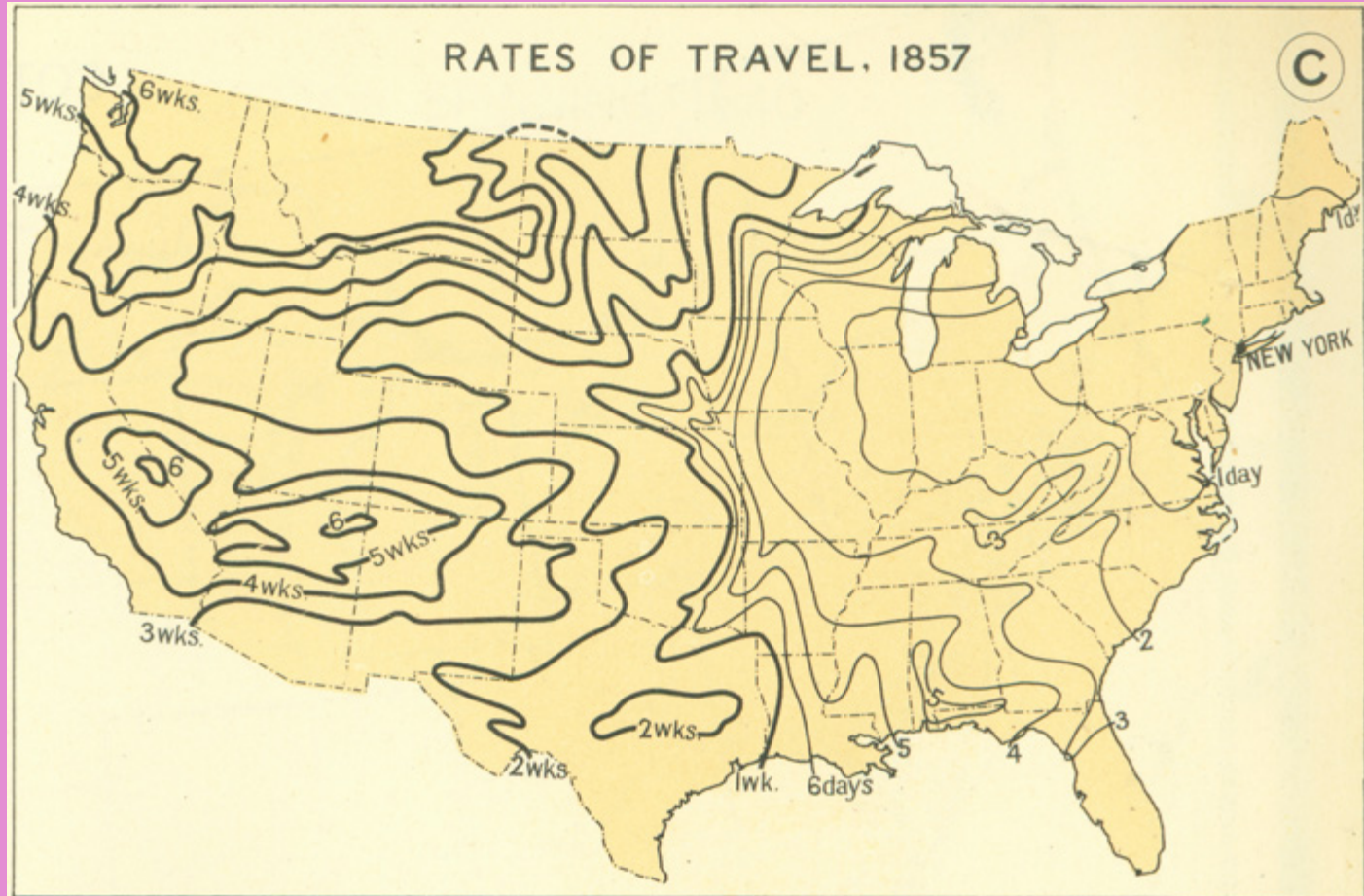


# LOCOMOTION / TRAINS



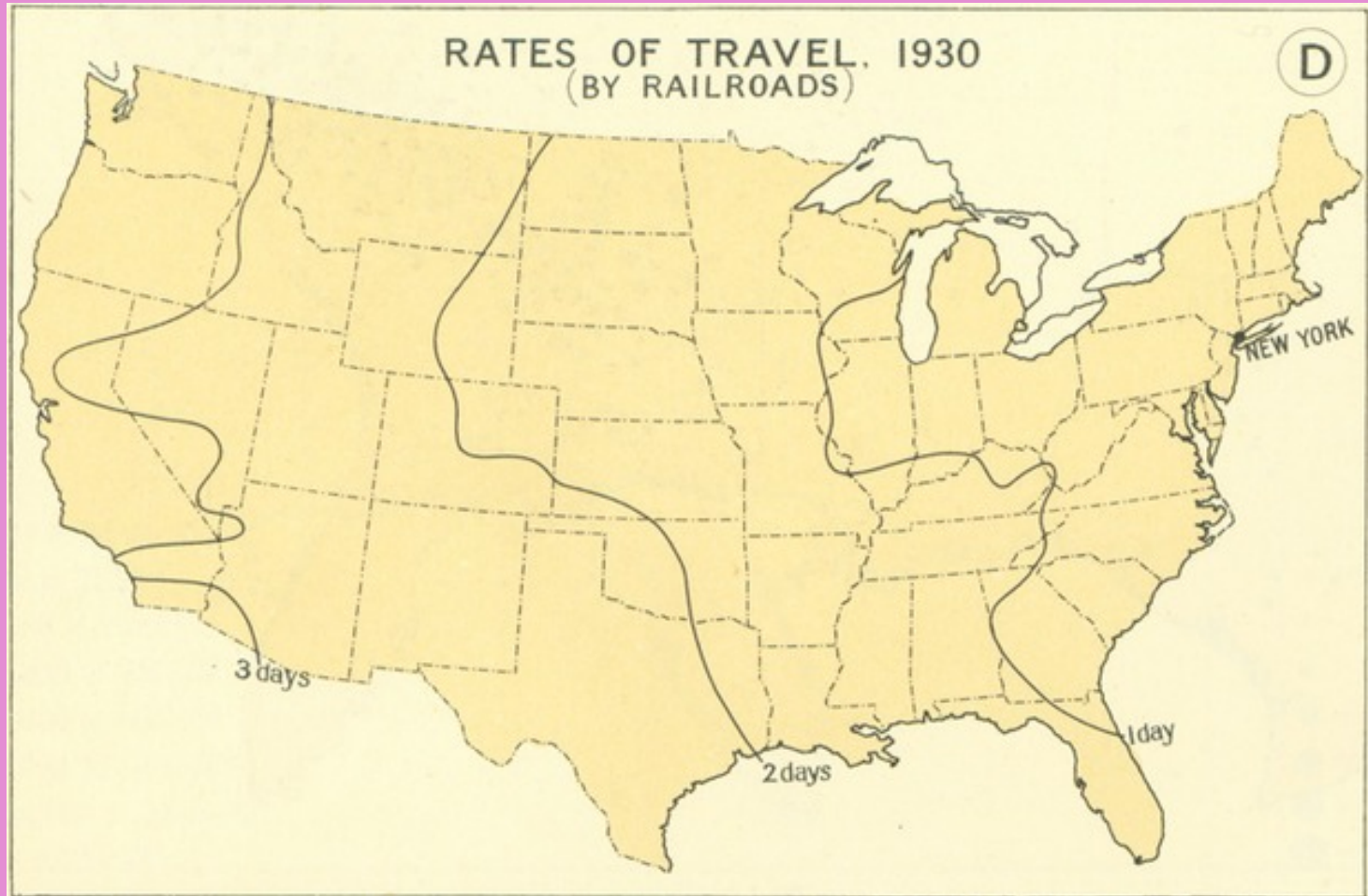


# LOCOMOTION / TRAINS





# LOCOMOTION / TRAINS



# LOCOMOTION / TRAINS

## Facts & Figures:

- 1804 – first working steam locomotive
- 1830 – 98 miles of railway in U.K.
- 1860 – 10,433 miles of railway in U.K.
- 1869 transcontinental railroad completed in U.S.
- Trains travel year-round, unlike water-based shipping.
- Safer than water-based shipping.



# **LOCOMOTION / TRAINS**

**Movement of goods / commodities  
Vs.  
Movement of people**

# LOCOMOTION / TRAINS

Movement of goods / commodities



Movement of people





# LOCOMOTION / TRAINS

LAND

VS.

SEA



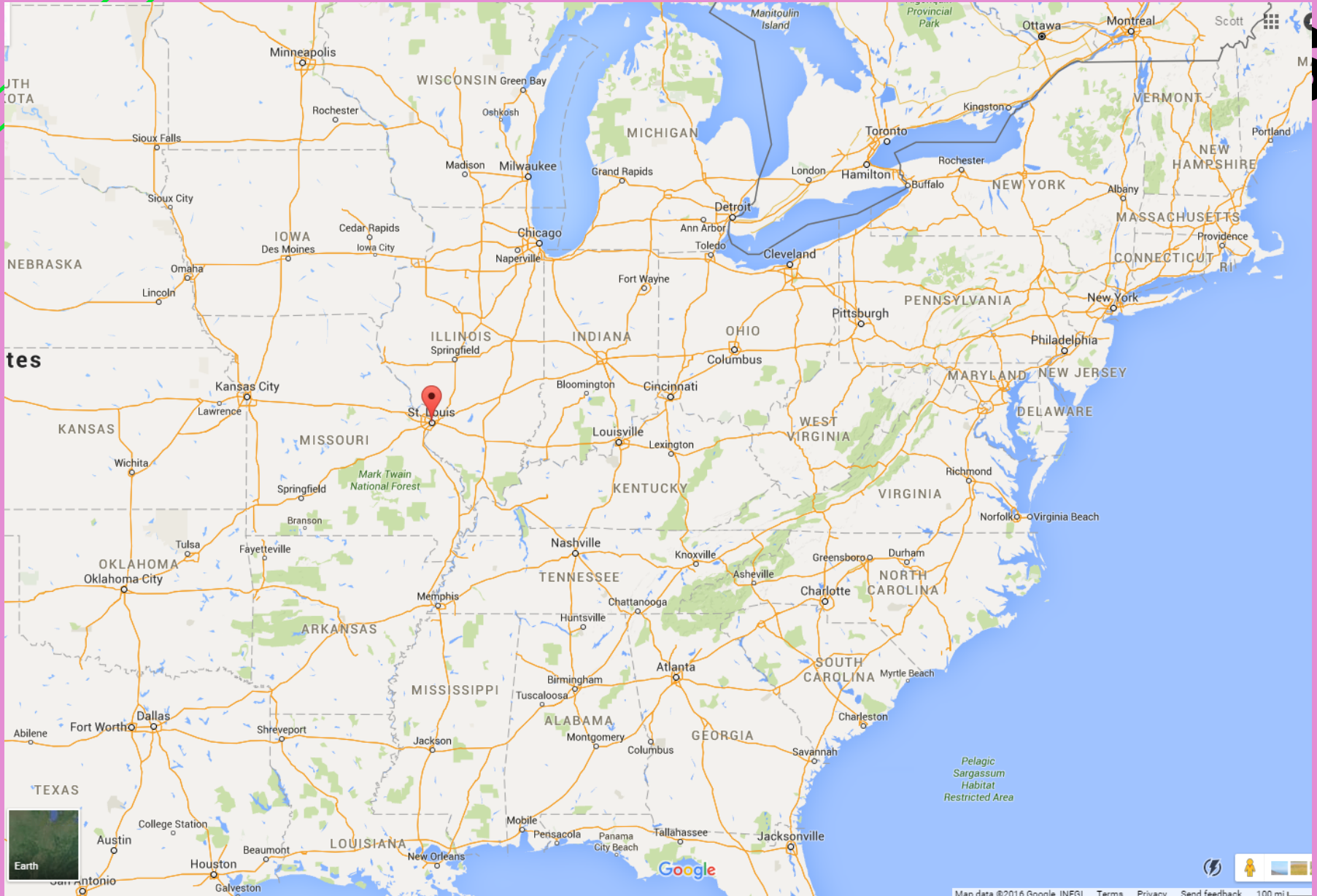
# LOCOMOTION / TRAINS

STL

VS.

CHI

# LOCOMOTION /



# **LOCOMOTION / TRAINS**

**New Orleans**

**Mississippi River**

**Rocky Mountains**

**Louisiana Purchase**

**Eerie Canal**

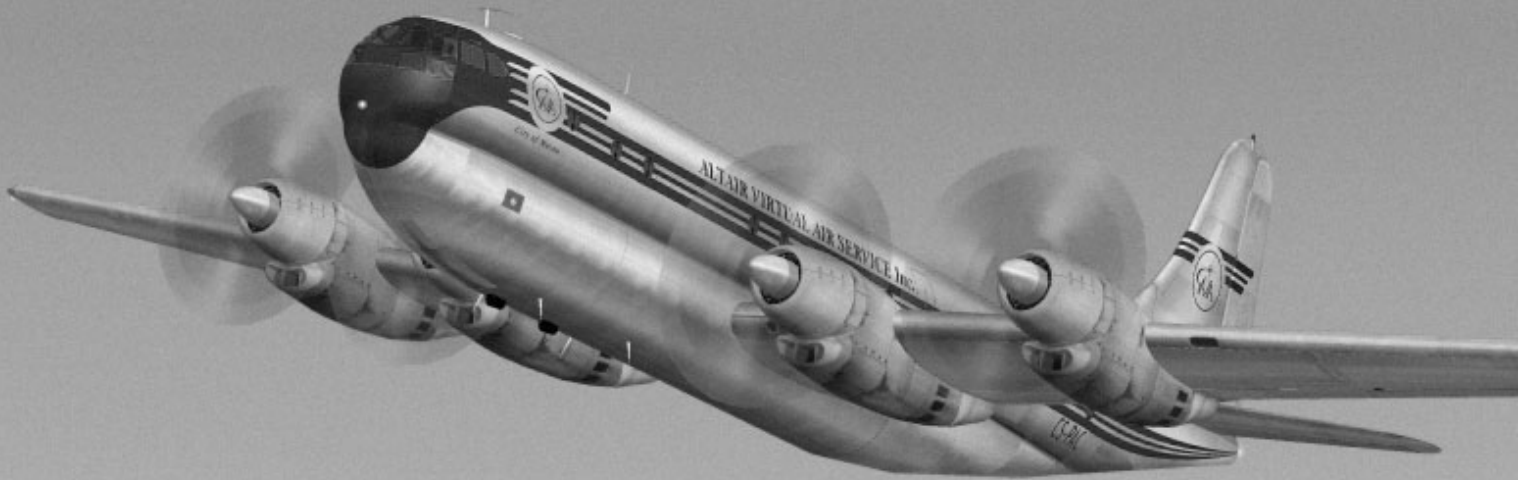
**Great Lakes**

**Breadbasket**

**Civil War**



# LOCOMOTION / PLANES



***SKY TRAVEL***

# **LOCOMOTION / PLANES**

**NY to LA: 5hrs**

**NY to London: 7hrs**

**NY to Tokyo: 13hrs**

**NY to Mumbai: 16hrs**

**NY to Sydney: 20hrs**

# LOCOMOTION / PLANES

## Moving Labor

- People as commodities
- Hopping borders
- Transnational lifestyles
- Temporary migration
- Security / Deregulation

# LOCOMOTION / PLANES

## Moving Labor

**“3% of world population  
lives outside its  
country of birth”**





# LOCOMOTION / PLANES

PUSH | PULL



# LOCOMOTION / PLANES

refugees

**PUSH**



**PULL**

workers



# LOCOMOTION / PLANES

refugees

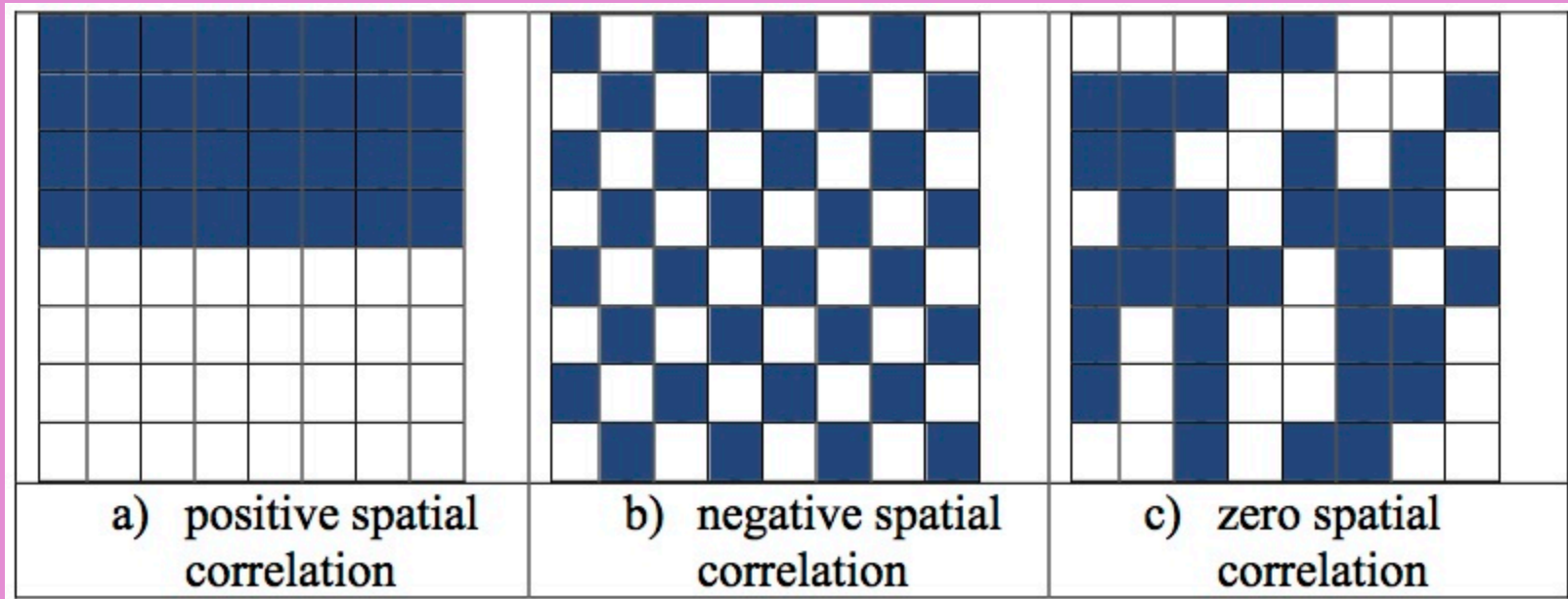
**PUSH**



**PULL**

workers

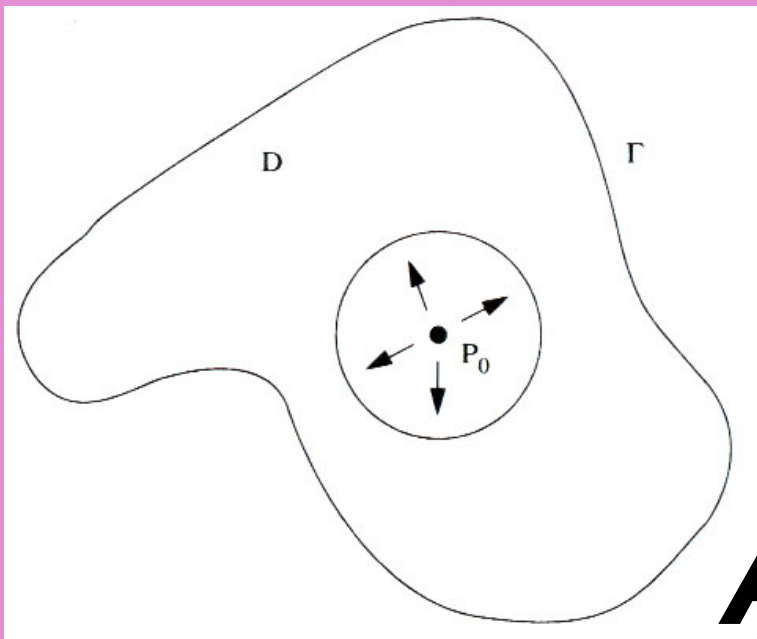
# Spatial (ir)regularities



***Autocorrelation***

# Spatial (ir)regularities

Are nearer things more related than further things?



***Autocorrelation***

# **Spatial (ir)regularities**

**Are nearer things more related than further things?**

You're more likely to have more in common with the person next to you than someone 10 miles away.

***Autocorrelation***



# Spatial (ir)regularities

Are nearer things more related  
than further things?

New York / London

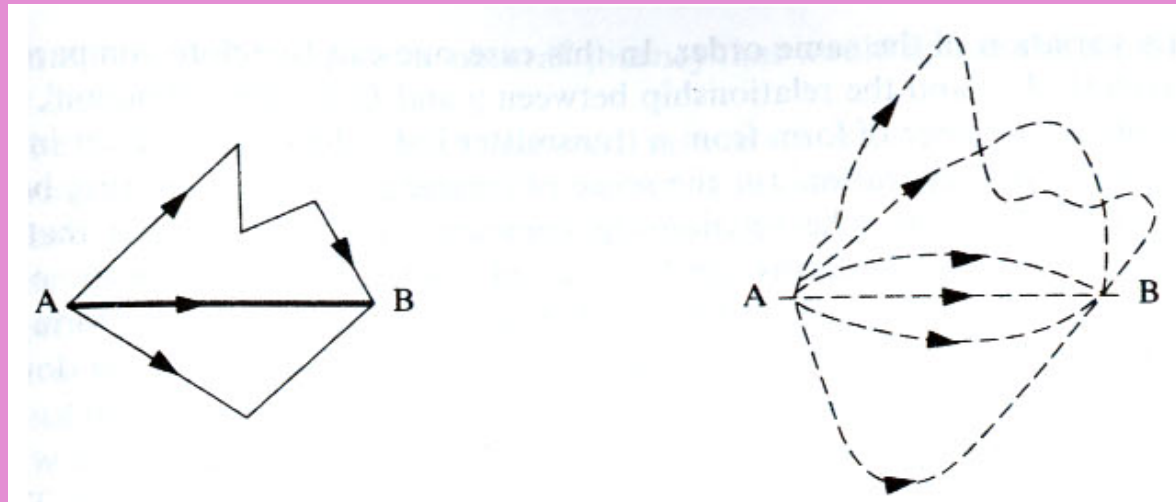
vs.

New York / Scranton, PA

***Autocorrelation***

# Spatial (ir)regularities

Is “nearness” only a spatial concern?



***Autocorrelation***

# Spatial (ir)regularities

Is “nearness” only a spatial concern?

Communication *is*  
Transportation?

***Autocorrelation***

# Spatial (ir)regularities

Whose distance are we using?

Euclid's?

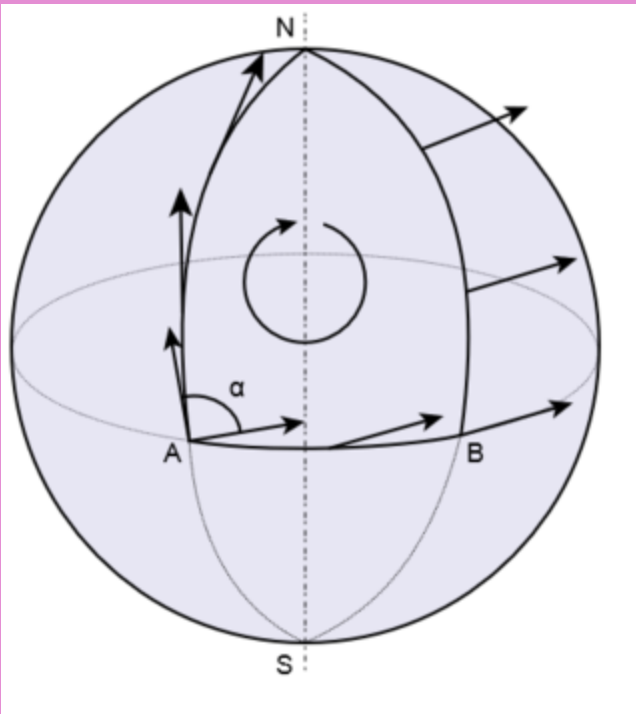
Cartesian?

Poincaré's?

***Autocorrelation***

# Spatial (ir)regularities

Whose distance are we using?



***Autocorrelation***

# **Spatial (ir)regularities**

**Whose distance are we using?**

Is distance linear?

Is distance a surface?

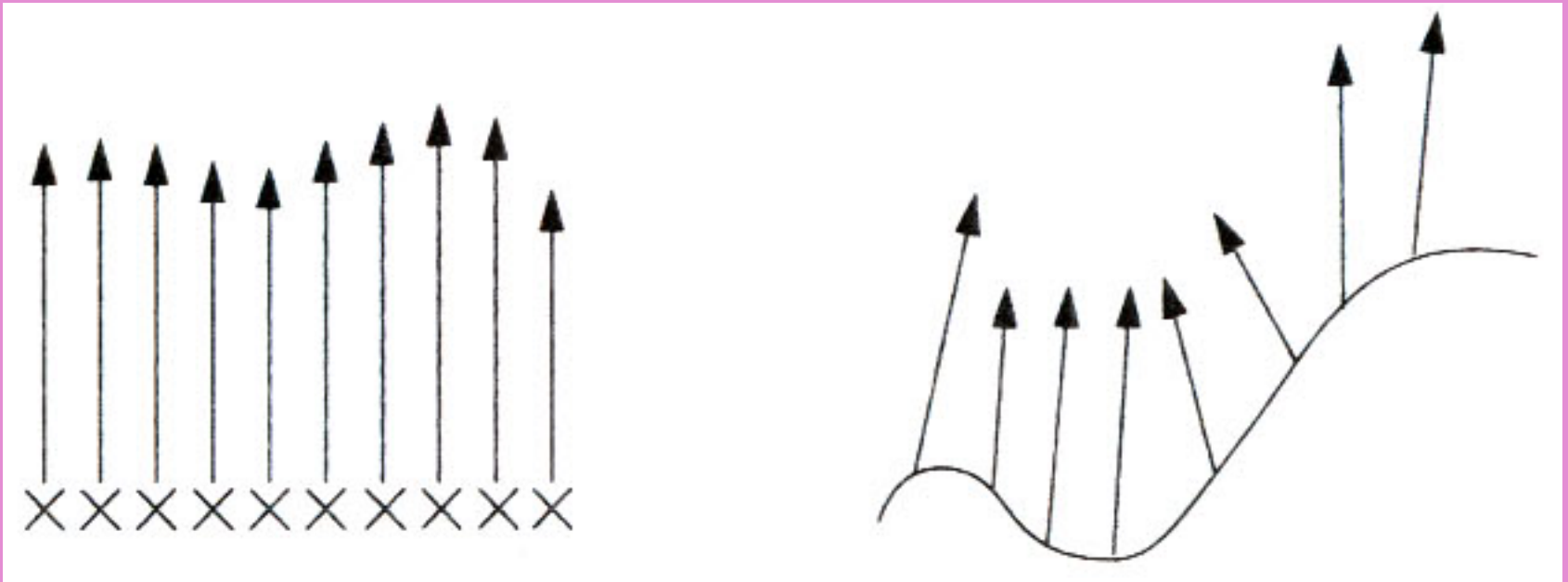
Is distance topographical?

***Autocorrelation***



# Spatial (ir)regularities

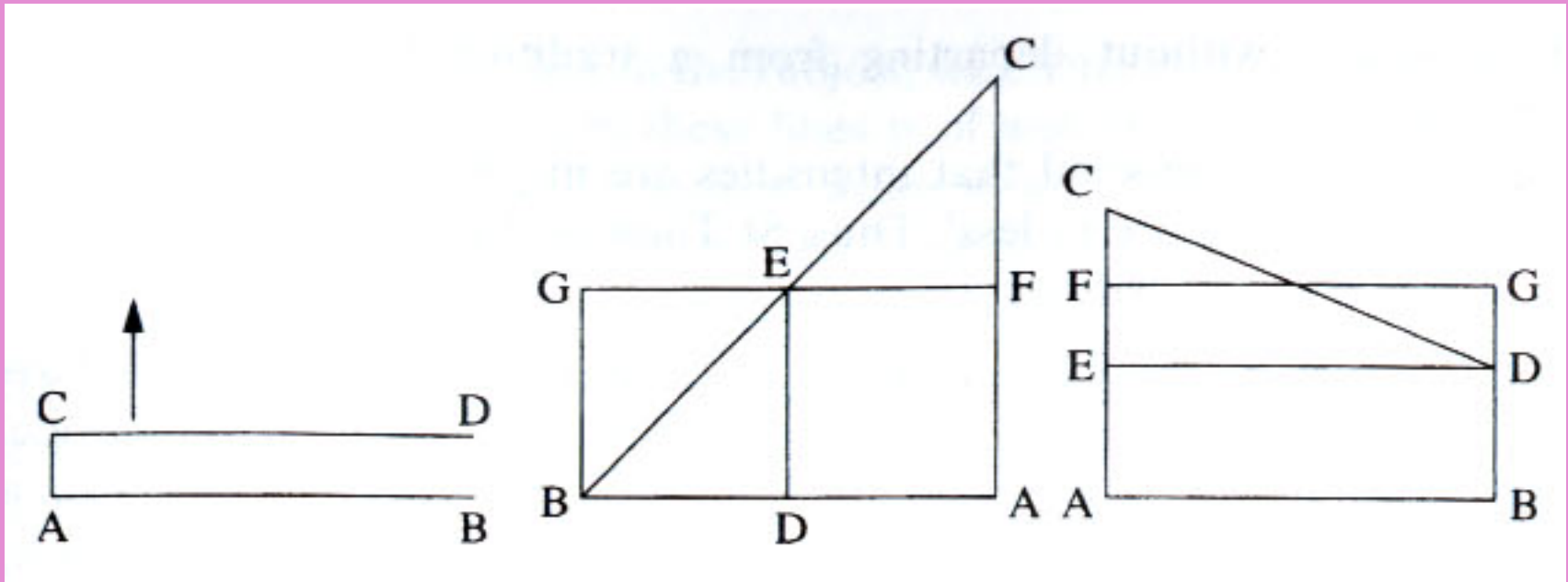
Whose distance are we using?



***Autocorrelation***

# Spatial (ir)regularities

Whose distance are we using?



***Autocorrelation***

# Spatial (ir)regularities

Whose distance are we using?

“Death of distance”

Electronic & Virtual Space?

Not yet!

***Autocorrelation***

# **Spatial (ir)regularities**

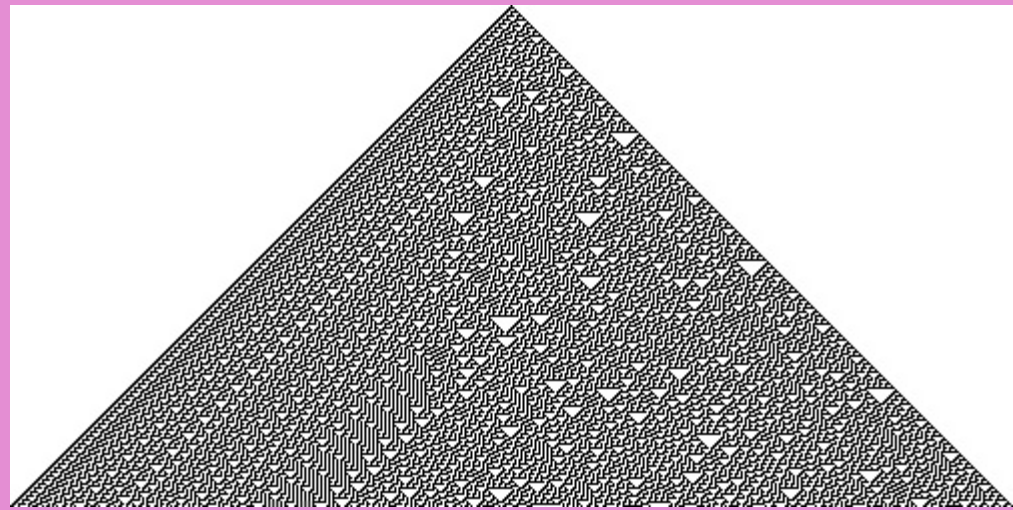
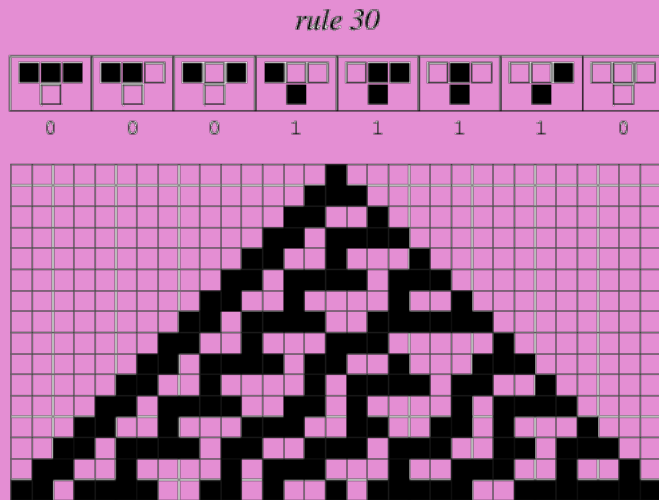
**Whose distance are we using?**

Simple local interactions can result in complex, chaotic unpredictable outcomes.

***Autocorrelation***

# Spatial (ir)regularities

Whose distance are we using?



***Autocorrelation***

# **Spatial (ir)regularities**

**Whose distance are we using?**

Geosocial interactions are not  
determinate.

***Autocorrelation***



# **Spatial (ir)regularities**

**Whose distance are we using?**

Every location is unique

No universal laws

***Autocorrelation***

