MLTI Summer Institute 2015: The Art of Refraction

Ruben R. Puentedura, Ph.D.

Session 2: Connecting the Dots

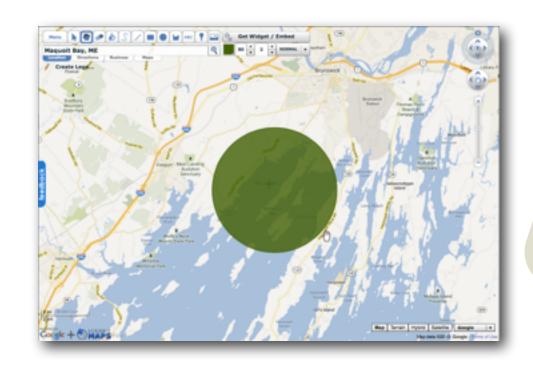
Primary 21C Lens: Cross-Disciplinary Knowledge & Synthesis

Primary Toolset Focus: Visualization

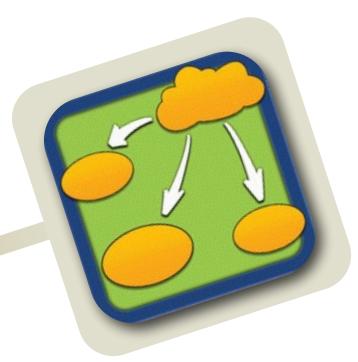
Social	Mobility	Visualization	Storytelling	Gaming
200,000 years	70,000 years	40,000 years	17,000 years	8,000 years

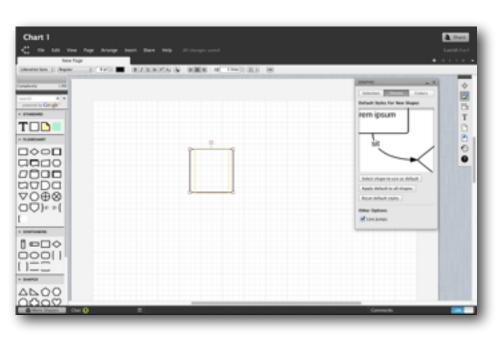




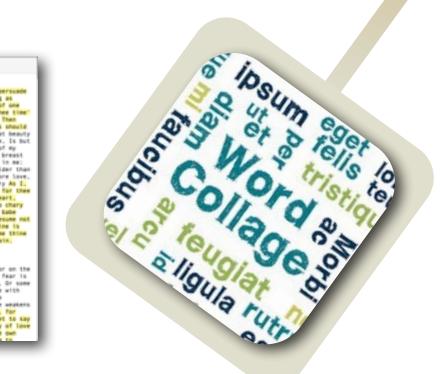




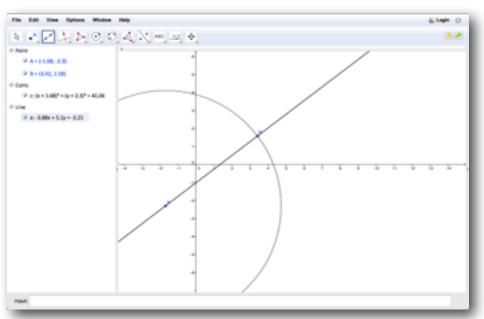


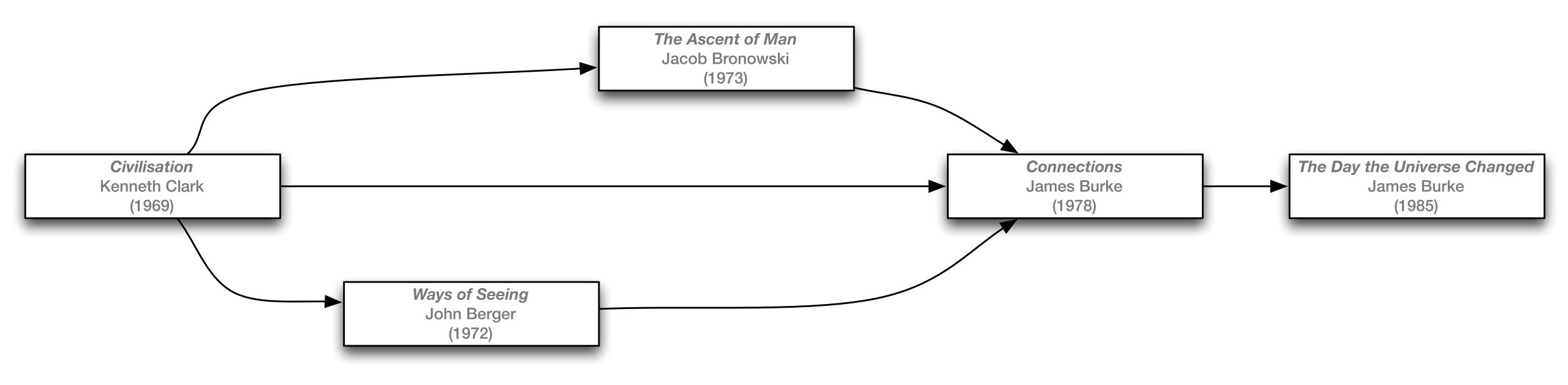




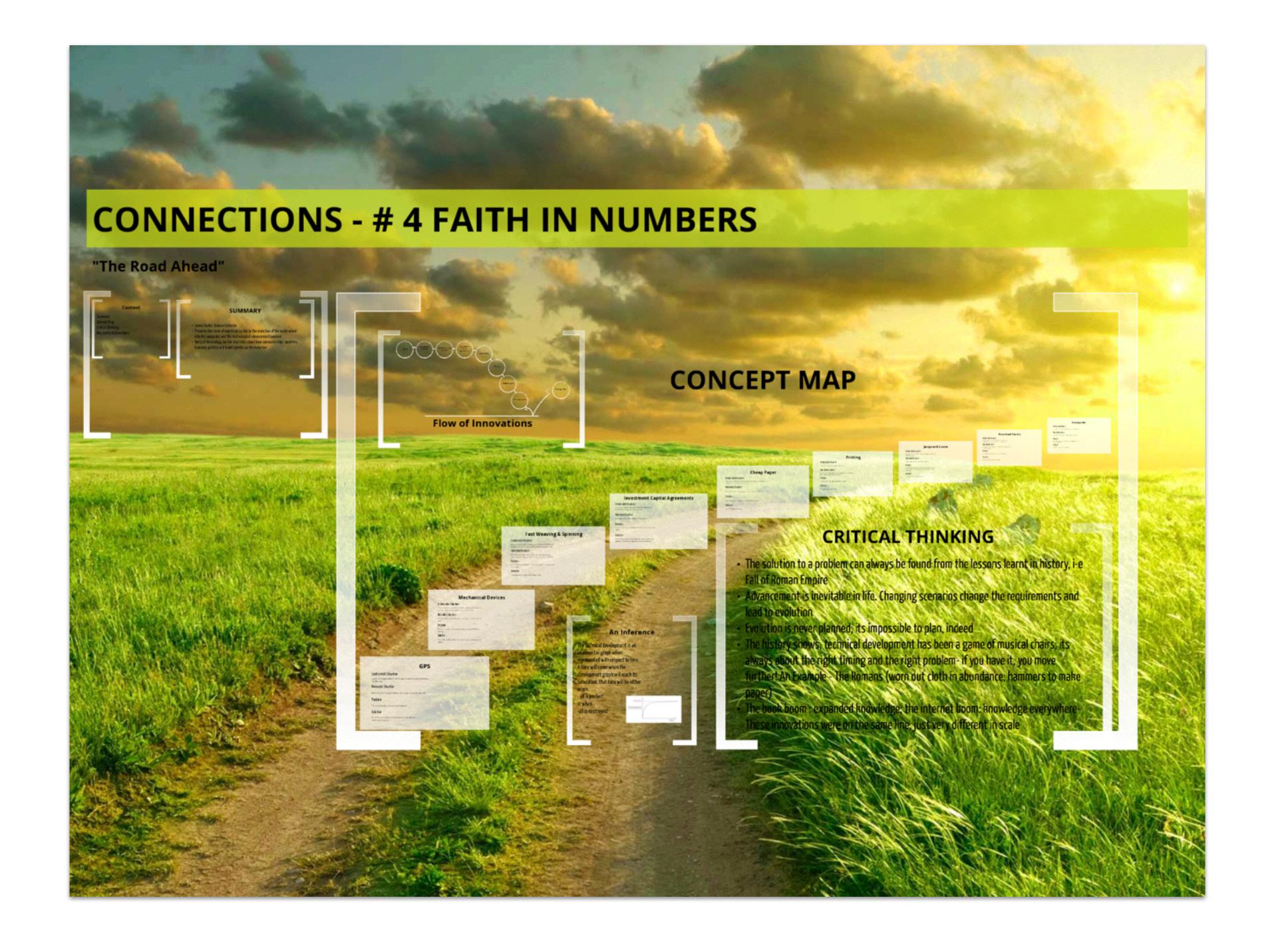












mahalo.com



James Burke Connections Episode 4

Science historian James Burke's ten part series *Connections* traces the progression of technology from ancient to modern times. According to Burke, every invention comes from putting the right pieces of already available technology together to build something new. By tracing the history of technology through a series of "triggers," each one of which sets off the next, Burke demonstrates how technology is an interconnected web and how one seemingly unrelated innovation leads to another.

Episode Overview

The fourth episode of *Connections* shows us how Europeans transitioned from the Middle Ages to the Renaissance. When the Roman Empire fell, Western civilization was once again splintered; people were not sharing ideas or striving for knowledge as they once had. However, increased commercialism and international markets, which originated shortly before the onset of the plague and later flourished when survivors were made rich with inheritances, fueled international communication. The invention of the printing press eased the spread of knowledge to set off a revolution of innovation and chain of invention.

Jump to Episode

- 1. The Trigger Effect
- 2. Death in the Morning
- 3. Distant Voices
- 4. Faith in Numbers
- F The Wheel of Fortune

Fast Facts

Fact: Written and presented by

1 ★ 81% ■

James Burke

Fact: Directed by Mick

Jackson

Episode 50 minutes

length

Fact: First aired in 1978

Network BBC

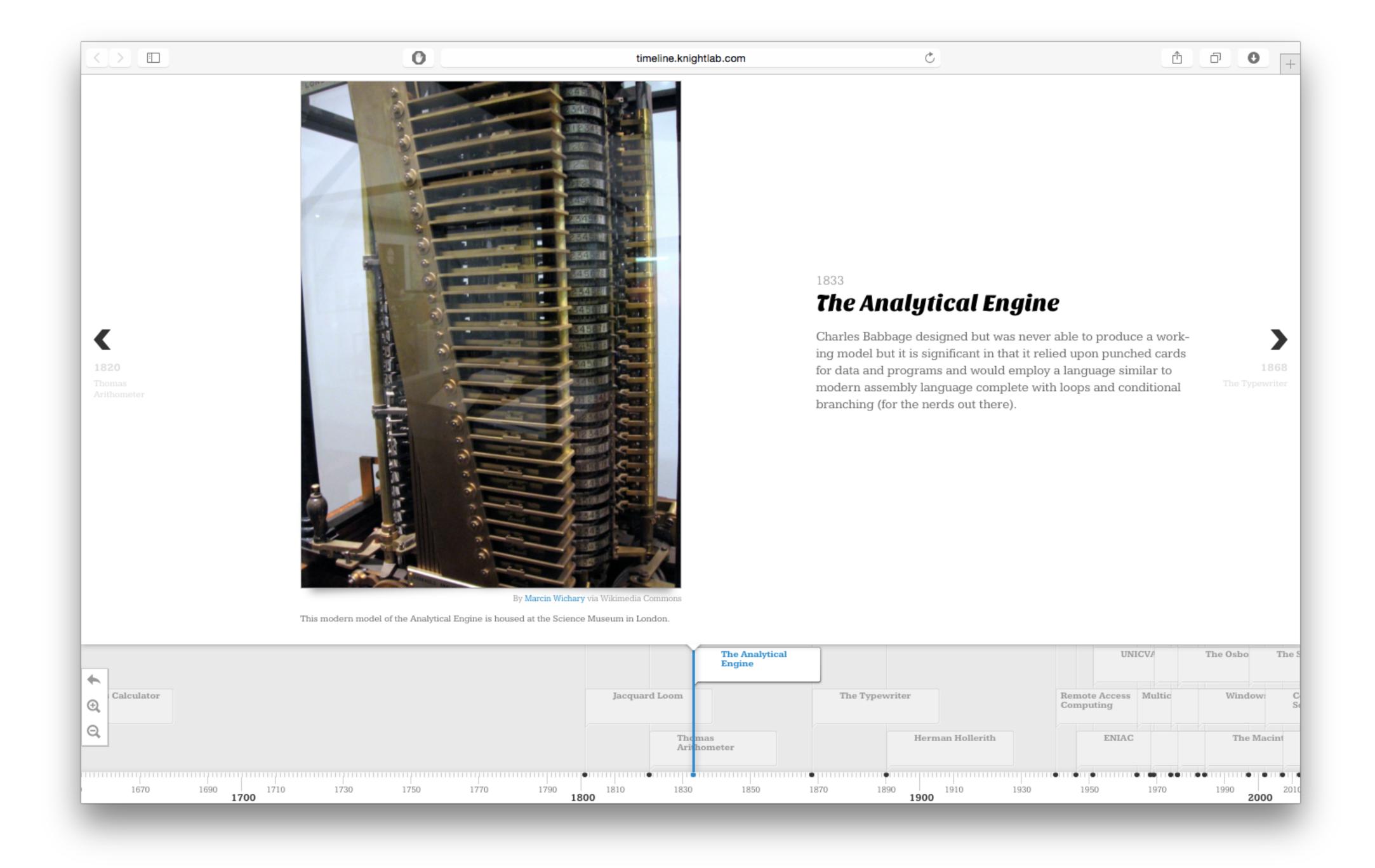
Fact: Shot at over 150

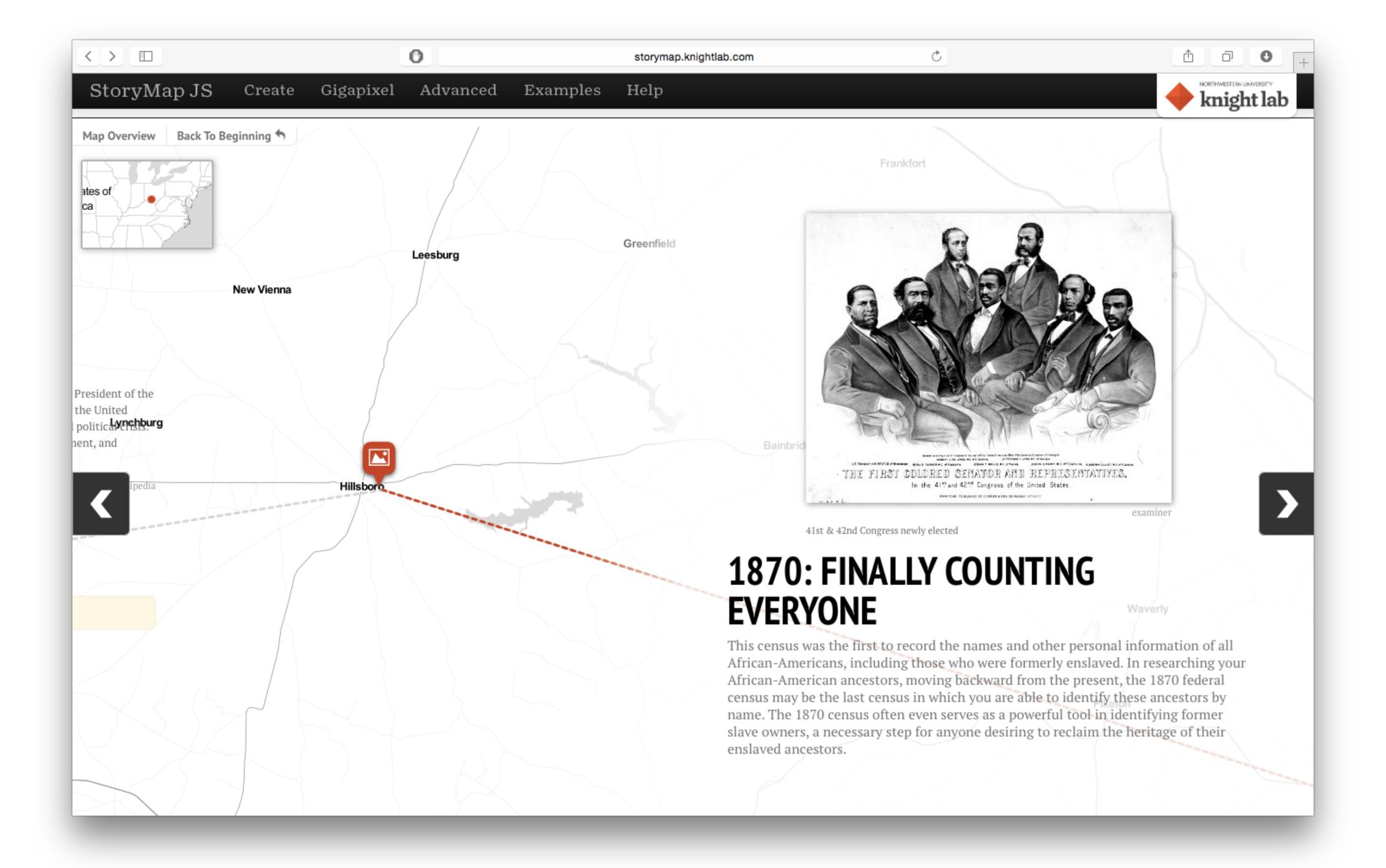
locations in 19 countries¹

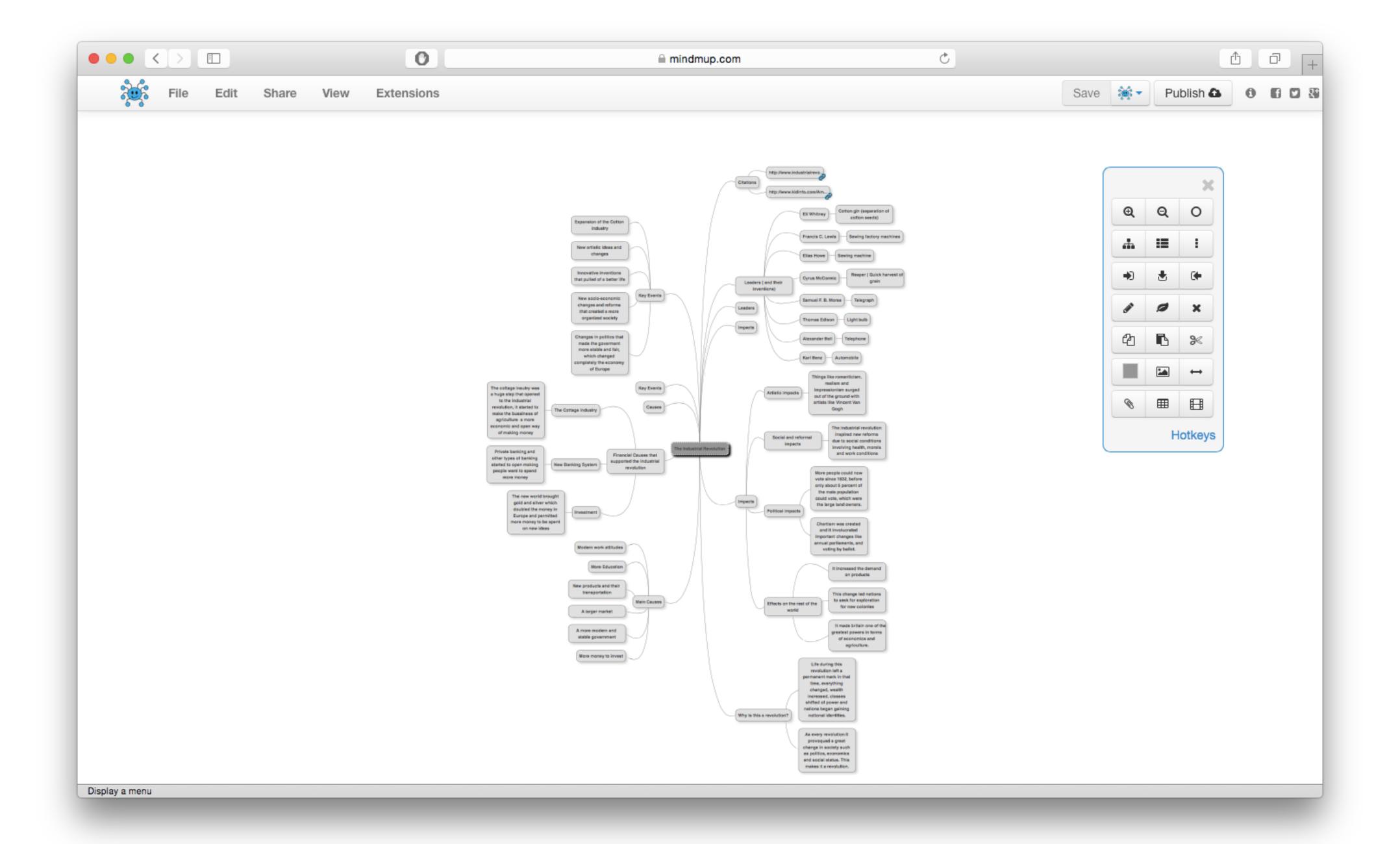
Recommended For You



Jamaa Durke







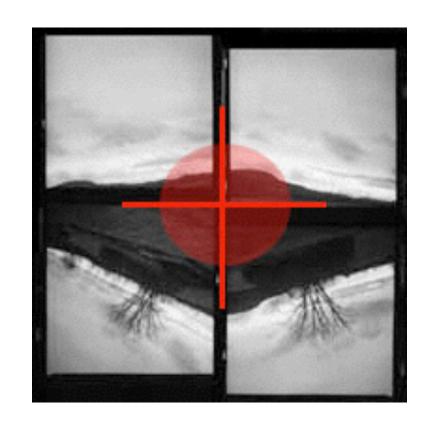
Session 3: A Picture Plus (a Few) Words Is Worth a Million Words

Primary 21C Lens: Life & Job Skills

Primary Toolset Focus: Digital Storytelling

The Power of the Center(s)







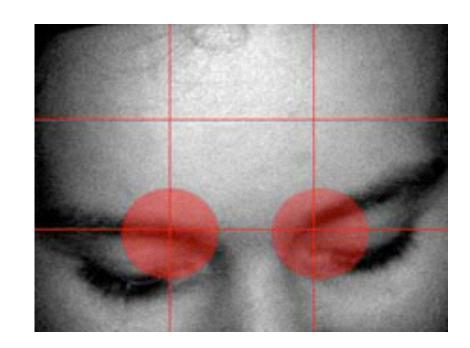


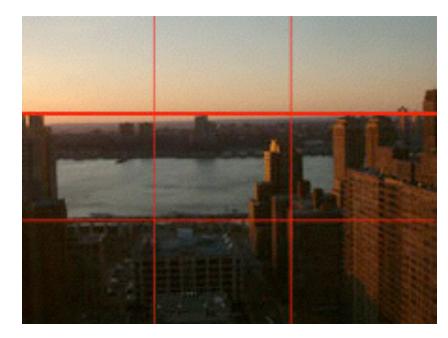
Digital Storytelling - Basic Thoughts about Visual Composition. Marietta Kesting. 2004. http://hippasus.com/resources/viscomp/index.html

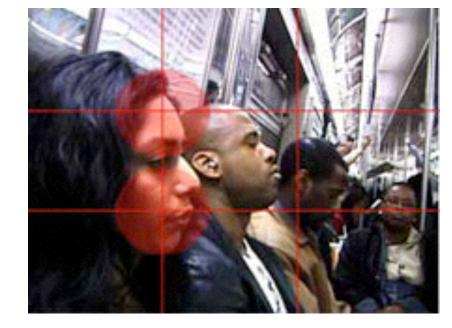
The Rule of Thirds

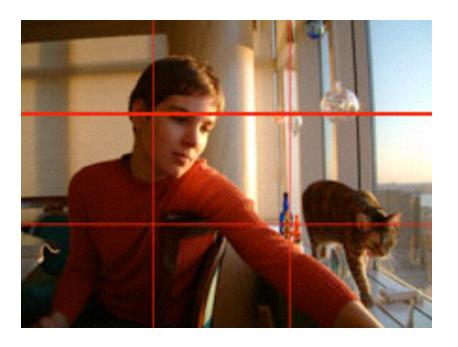












Lines of Direction







Leading the Action







Common Shots

Big Close-Up

Close-Up

Medium Shot

Long Shot



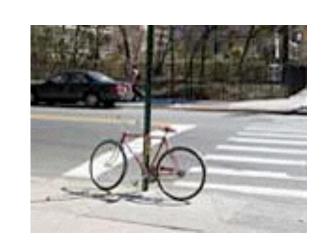














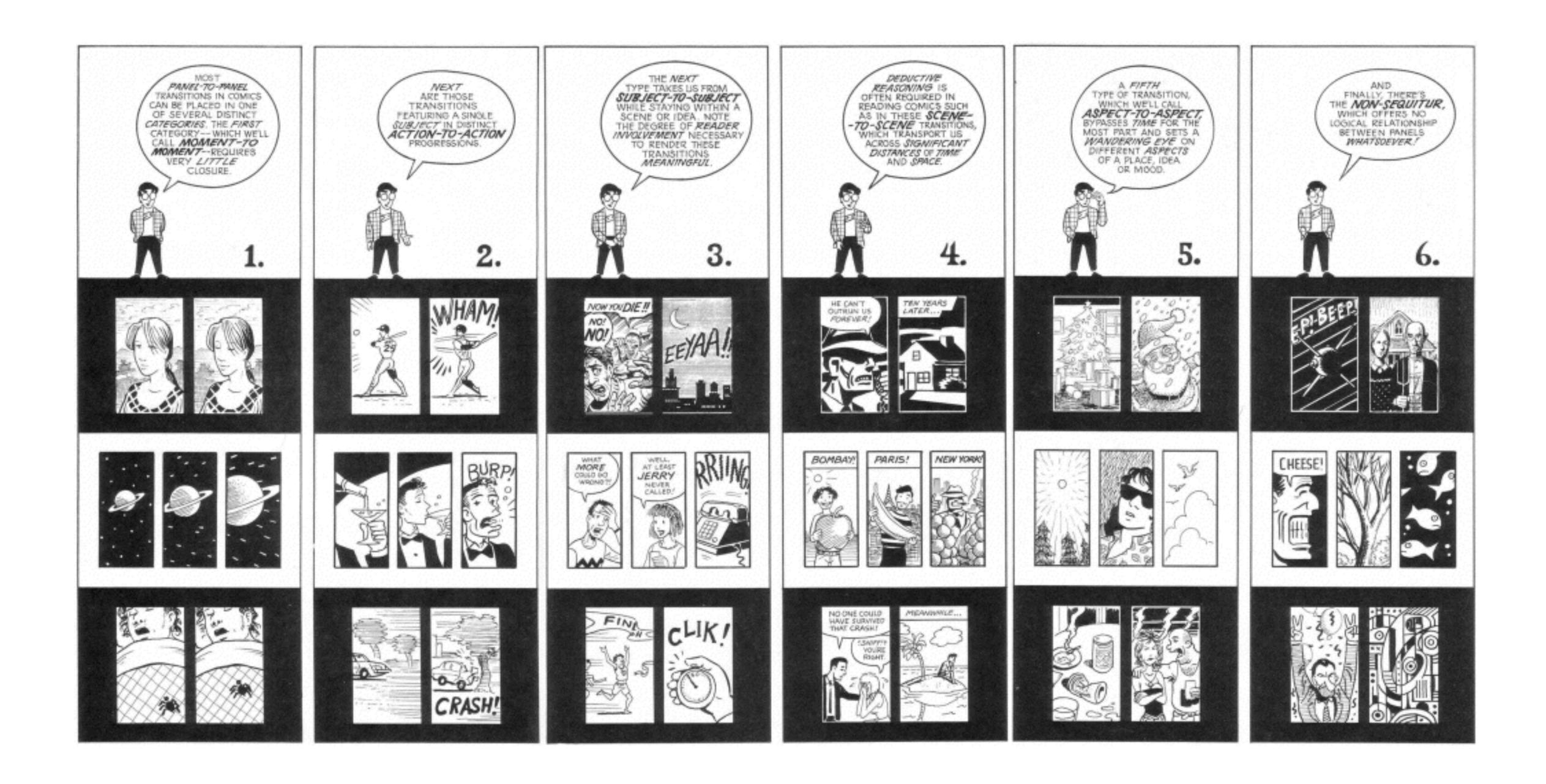












Let's Make



* Featured



Bandsaw blade storage box by seamster in Tools



Grilled Prawns
by Bhawya in BBQ & Grilling



Making a Retro Organ Button Bracelet- The Organ Donor Pro...

by Chuck Stephens in Jewelry



Crabbing Basics for Puget Sound by lumpytrout in Fishing

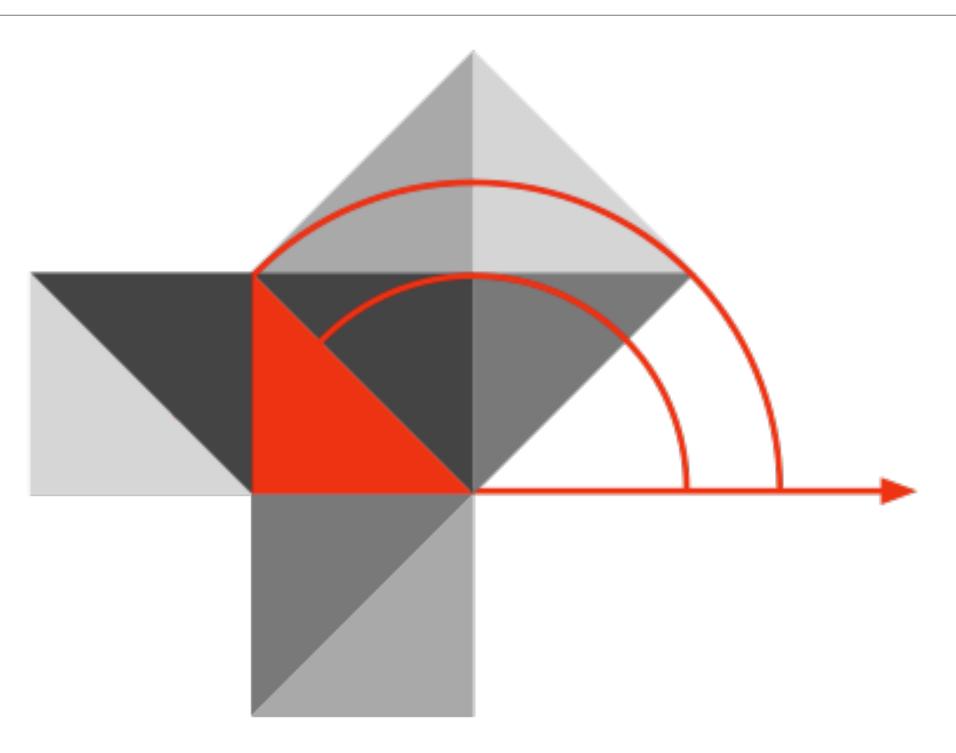








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