Visual Media Examples

Humanities Roadshow Workshop
Visual Storytelling: Conveying Research through Visual Media
By Alya Raphael and Jenny Strakovsky
We already work with visual language...
How do you react to the visual arrangement of the shapes and text?

How are we supposed to “read” the text?

The Tribes of Israel, medieval manuscript
The Calling of St. Matthew, Caravaggio, 1599.

How does this painting tell the story through space?

How does your eye travel around the canvas?
«San Giorgio Maggiore by Twilight», Claude Monet, c.1910.

How does your eye travel around the canvas?

How does the visual shape the space?
Sample Infographics

What’s effective?
What’s less effective?
CIRCLES OF HELL IN DANTE'S INFERNO

In the middle of the journey of life, I found myself in a dark wood; for the forest was belt with thick underwood.

Innmortals of Hell:
- Limbo
- Lust
- Gluttony
- Greed
- Fornication
- Heresy
- Violence
- Fraud
- Treachery

Circle 1: The Wicked
- Acheron
- The Great Lake
- Malicious
- The Distracted
- The Wayward
- The Egregious
- The Negligent
- The Reform

Circle 2: The Rogues
- Styx
- The Gate of Hell
- The Forsaken
- The Disinherited
- The Wretched
- The Accursed
- The Unrepentant
- The Deceived

Circle 3: The Greedy
- The River of Fire
- The Bitter
- The Greedy
- The Gluttonous
- The Envious
- The Avaricious
- The Scheming
- The Greedy

Circle 4: The Fraudulent
- The River of Smoke
- The Fraudulent
- The Dishonest
- The Cheaters
- The Corrupt
- The Deceivers
- The Impostors
- The Unfaithful

Circle 5: The Vengeful
- The Gallow
- The Vengeful
- The Troublemakers
- The Insane
- The Troublemakers
- The Overreaching
- The Saboteurs
- The Sabotage

Circle 6: The Heretical
- The River of Blood
- The Heretical
- The Heretics
- The Injustices
- The Unjust
- The Heretics
- The Egregious
- The Heretics

Circle 7: The Violent
- The River of Terror
- The Violent
- The Violent
- The Tyrants
- The Tyrants
- The Tyrants
- The Tyrants
- The Tyrants

Circle 8: The Treacherous
- The River of Malice
- The Treacherous
- The Traitors
- The betrayers
- The betrayers
- The betrayers
- The betrayers
- The betrayers

Circle 9: The Wicked
- The River of Deceit
- The Wicked
- The Wicked
- The Wicked
- The Wicked
- The Wicked
- The Wicked
- The Wicked
- The Wicked
THE ROLE OF
Parks and Recreation
IN PROMOTING PHYSICAL ACTIVITY

RACIAL DISPARITIES
70% & 81% of African-American neighborhoods of Hispanic neighborhoods
lack recreation facilities, compared to 38% of white neighborhoods.

PROPERTY VALUES
Homes near parks can sell for up to $2,262 more than homes without parks nearby.

TRAILS
A study in Nebraska found that for every $1 spent on trails, there was almost $3 in savings in direct medical costs.

OPEN SPACE
Youths in neighborhoods with 7 recreational facilities were 26% more likely to be active 5 times per week than those in areas without facilities.


Active Living Research
www.activelivingresearch.org
According to international law, Israel remains the occupying power in Gaza, and is responsible for the welfare of the people living there. However, even during periods of “calm,” Israel severely restricts the rights and freedoms of Palestinians in Gaza through its illegal siege and blockade, making daily life a struggle for the 1.8 million Palestinians living under these circumstances.

THE RIGHT TO:

**MOVEMENT**
- Most of Gaza’s 1.8 million people are unable to travel to the outside world for any reason due to Israel’s siege and blockade imposed in conjunction with Egypt.
- Travel to Israel and the West Bank is only allowed in “exceptional humanitarian cases.”
- Palestinians are unable to operate an airport due to Israeli control over airspace.
- Israel blocks all access to Gaza by sea and air.

**HEALTH**
- 370,000 children need specialized and direct psychosocial support.
- Nearly half of all clinics are shut down.
- Gaza’s health system can’t run at full capacity for an extended period of time.
- Palestinians may die waiting for medical treatment outside of Gaza.
- Before this current siege, 20% of essential medicines were at zero stock.

**FOOD**
- 4,208 acres of croplands are damaged. This is a land area close to the size of Washington, D.C.
- Agricultural structures have been destroyed.
- The main greenhouse, irrigation systems, farms, fodder silos, and storage tanks.
- Israel killed half of Gaza’s poultry livestock.
- The loss resulted from direct hits on their shelters, water, and feed, or lack of care due to access restrictions.
- Between January and June 13, the average export of Gaza goods was 7% of what it had been before 2007. At times, Israel has almost completely prohibited Gaza exports anywhere.

**WATER & RESOURCES**
- UP TO 18 HOURS of complete electrical blackout occur each day.
- 60-95% of water is unfit for drinking.
- Electricity shortages disrupt operation of wastewater treatment plants.
- Restrictions on imports make it impossible to maintain water supply and infrastructure.

**SHELTER**
- 110,000 people are presently displaced due to Israel’s latest assault.
- Many are unable to reconstruct their homes destroyed during hostilities.
- Over 18,000 housing units were totally destroyed or severely damaged in Israel’s most recent attack.
- Permitted construction materials meet a fraction of housing demand.

**WORK**
- 200,000 workers are now unemployed.
- Over 740 acres of agricultural fields were destroyed.
- Growth of agriculture is further hampered by ongoing military campaigns and buffer zones around the border that prevent farmers from working.
- Palestinian children are barred from working in the West Bank or Israel.
- Limited employment opportunities push thousands of workers, some of them children, to risk their lives every day in the “furnace industry.”
- Unemployment before Operation Protective Edge was 45% (70% for ages 20-24).

**EDUCATION**
- OVER 200 schools were damaged during Israel’s latest military assault. At least 25 schools were destroyed.
- Restrictions on construction materials have led to a shortage of over 250,000 schools.
- Access to universities in the West Bank and elsewhere is denied to most students.
SILENCED

GENDER GAP IN THE 2012 ELECTION COVERAGE

WHO'S QUOTED ABOUT WOMEN'S ISSUES IN PRINT MEDIA?

ABORTION

BIRTH CONTROL

PLANNED PARENTHOOD

WOMEN'S RIGHTS

WOMEN QUOTED BY MAJOR NEWSPAPERS

WALL STREET JOURNAL

The New York Times

The Washington Post

USA TODAY

Chicago Tribune

WOMEN QUOTED BY MAJOR MEDIA COMPANIES

The Washington Post

TimeWarner

CBS

Gannett

WOMEN QUOTED BY TOP TV NEWS SHOWS

HARDBALL

SPECIAL REPORT

MEET THE PRESS

STATE OF THE UNION

IN PRINT

ON TV

The 4th Estate conducts a survey and counts quotes from a sample of US national print, TV broadcast and radio outlets covering the 2012 election from 11/1/11 - 5/2/12. For more information and research visit www.4thestate.net. Product names, logos, brands and other trademarks referred to within this graphic are the property of their respective owners. These trademark-holders are not affiliated with us and do not endorse the 4th Estate.
The Process of Essay Writing

QUESTION
- Carefully read
- Underline key words
- Read again
- Question answered?
- Essay structure
- Linking sentences

INFORMATION
- People
- Video
- Electronic

ACCESS RESOURCES
- List references
- Make notes

RECORD MATERIAL
- Group ideas
- Add more
- Build up

MIND MAP IDEAS
- Gathering Information
- Planning
- Writing
- Checking

CHECK WORK
- Use Mind Map
- Expand
- Draft and edit

WRITING
THE CURRENT WAR
THE TALE OF AN EARLY TECH RIVALRY

DC
DIRECT CURRENT
The flow of electricity is in one direction only. The system operates at the same voltage level throughout and is not as efficient for high-voltage long-distance transmission. Direct current runs through:
- Battery-Powered Devices
- Fuel and Solar Cells
- Light Emitting Diodes

"TESLA'S ideas are splendid, but they are utterly impractical."
- THOMAS EDISON

AC
ALTERNATING CURRENT
Electric charge periodically reverses direction and is transmitted at lower voltages but higher frequency that could handle much higher voltages.

Alternating current runs through:
- Car Motors
- Radio Signals
- Appliances

"If Edison had a needle to find in a haystack, he would proceed at once... until he found the object of his search. I was a sorry witness of such doings, knowing that a little theory and calculation would have saved him 90 percent of his labor."
- NIKOLA TESLA

FALLING OUT
Edison promised Tesla a generous reward if he could smooth out the direct current system. The young engineer, on the assignment and ended up saving Edison more than $100,000 (millions of dollars by today’s standards). When Tesla asked for his rightful compensation, Edison declined to pay him. Tesla, outraged shortly after, and his elder income kept up the rest of his life spending to discredit his counterpart.

1847 BORN
1858
Thomas Edison, the youngest in his family. Died 10 years to talk until he was almost 4 years old.

1856
Smiljan, Croatia

Wizard of West
NICKNAME
Wizard of Menlo Park

Home-schooled and self-taught
EDUCATION
Studied math, physics, and mechanics at The Polytechnic Institute at Gratz

Max communication and business
FORTE
Electromagnetism and electromagnetic engineering

Trial and error
METHOD
Getting inspired and seeing the invention in his mind in detail before fully constructing it

AC (Alternating Current)

WAR OF CURRENTS: ELECTRICAL TRANSMISSION IDEA

1915—Passed away peacefully in his New Jersey home, surrounded by friends and family

1943—Died lonely and in debt in Room 5227 at the New Yorker Hotel

INVENTIONS
- Tesla coil - resonant transformer circuit, radio transmitter;
- fluorescent lamp, AC motors, and electric power generation system

NOTABLE INVENTIONS

1,093 NUMBER OF US PATENTS

0 NUMBER OF NOBEL PRIZES WON

0 NUMBER OF ELEPHANTS ELECTROCUTED

LATE BLOOMER
Thomas Edison, the youngest in his family. Died 10 years to talk until he was almost 4 years old.

"Genius is one percent inspiration and ninety-nine percent preparation."
- Thomas Edison

EDISON FRIES AN ELEPHANT
In order to prove the dangers of AC’s alternating current, Thomas Edison staged a highly publicized electrocution of an elephant known as "Topsy." She died instantly after being shocked with a 6,600-volt AC charge.

A COLLABORATION BETWEEN GOOD AND COLUMN FIVE

SOURCE: CHEEQY. MARCIAIET. "TESLA: MAN OUT OF TIME." 10TH ANNIVERSARY "TESLA: MASTER OF LIGHTNING."
THOMASEDISON.COM / TESLA.ORG / WEB.MIT.EDU / WIKIT.COM

NOBEL PRIZE CONTROVERSY
In 1915, both Edison and Tesla were to receive Nobel Prizes for their strides in physics, but ultimately, neither win. It is rumored to have been caused by their animosity towards each other and refusal to share the coveted award.
Edgar Allan Poe

Poe was born in Baltimore - USA, on January 19, 1809. He is one of the most beloved writers worldwide, the power and the quality of his writing, the darkness of his horror stories made him the Master of Tales.

He died young (40 years old) on October 7, 1849. But he left behind masterpieces that have influenced pop culture and have inspired authors in movies, TV, and comics.

"Though thy crest be jet, and shaven, thou, I said, art sure no jay."

"Shyly grim and ancient raven perched on糕顶 the indigo house,

Tell me what the Poe buluş name is on the right's Platonian slippers."

"Coth the raven, Nevermore!"
Dystopian Books Again Seize Power

A sign of troubled times? Number of dystopian-themed books at its highest since the 1960s.

Goodreads members are categorizing more and more books as "dystopian".

Publication Year

% Categorized as Dystopian out of all Books

World War II
The Cold War
9/11

The Hunger Games
published in 2008
CONFLICT IN LITERATURE

CLASSICAL
MAN vs. NATURE

MODERN
MAN vs. SOCIETY

POSTMODERN
MAN vs. TECHNOLOGY

MAN vs. MAN

MAN vs. SELF

MAN vs. REALITY

MAN vs. GOD

MAN vs. NO GOD

MAN vs. AUTHOR

GRANT SNIDER
**The Clinical Trials Process**

**Phase I**
- **Sample Size**: 20 - 100
- **Objectives**: Determine the metabolic and pharmacological actions & the maximally tolerated dose

**Phase II**
- **Sample Size**: 100 - 300
- **Objectives**: Evaluate effectiveness, determine short-term side effects & identify common risks for a specific population and disease
All the News That's Fit to Print

In the 17th century, ballads were inexpensively printed on broadsides and hung in local taverns or sold on the street by ballad mongers, bringing the latest news and commentary in song.

What the Sam Hill is a Ballad?

With origins in the English medieval period, a ballad is a poem or song written to tell a story. Rather than a strict poetic form, the ballad is a type of poem written in a narrative structure and is deeply rooted in folk culture. Often, ballads are written in quatrains alternating lines of sixom or sevensyllable iambic meter (4-stressed lines) and lambs (4-stressed lines). Some ballads are written as "fourteens," (rhymed couples of 7-stressed beat lines).
Sample Posters from STAR

What’s effective?
What’s less effective?
The Big Bang and the Cosmic Web

**Inflation**
- The inflation field (\(\phi\)) causes exponential expansion of space
- **10^{-32} seconds**

**Pre-Heating, Re-Heating**
- \(\phi\) interacts with other quantum fields generating particles and radiation
- **380,000 Years**

**Recombination**
- Protons and electrons condense into atomic hydrogen – the universe becomes transparent
- **300 Million Years**

**Dark Ages**
- Universe filled with neutral hydrogen and helium which began to clump due to gravity
- **13.7 Billion years**

**Stars and Galaxies**
- The formation of enormous stars likely predated the first small galaxies – later, these merged to form larger galaxies with smaller stars
- Present Time

**Simulating Preheating**
- I model the universe as having 2 components: the inflaton field (\(\phi\)) and everything else (\(\psi\)).
- The continuous fields are represented in the computer a 3D grid of points.
- Different models predict different interactions between \(\phi\) and \(\psi\).
- Density during (a) and after (b) pre-heating [1]

**The Cosmic Web** [2]: At its largest scales, the universe is a sponge-like tangle of dark matter tendrils. This structure is a signature of the preheating process. So a successful model of inflaton decay should reproduce this pattern in simulations.

**Ask Me:**
- Why is this important?
- How do scientists learn about the Big Bang?
- How old is the universe?
- How does your code work?
- How do you simulate the universe on a computer?
- What is dark matter?