Think Critically!

Evaluate that Information

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The data in this infographic comes from Project Information Literacy’s publications *Balancing Act: How College Students Manage Technology While in the Library during Crunch Time* and *Truth Be Told: How College Students Evaluate and Use Information in the Digital Age.*
*Critical Thinking*

* mode of thinking — about any subject, content, or problem — in which the thinker improves the quality of his or her thinking by skillfully analyzing, assessing, and reconstructing it.

* self-directed, self-disciplined, self-monitored, and self-corrective thinking.

* entails effective communication and problem-solving abilities

Critical Thinking Community
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<th>Elements of Thought: Thinking Things Through</th>
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Meeting the Needs of New Library Users

* Bibliographic Paradigm [Certainty and Order]
  * Finding the answer
  * Information is a thing / Given out
  * Locating a thing

* Information Search Process 1993

* Constructive Process [Uncertainty and Confusion]
  * Inquiry Method [Users’ structuring information]
  * Guiding a process

Moving beyond “Driving the Database”

* Tool Sequence / Limited Transferability
  * How but not Why
  * Pathfinders
  * Database Tutorials

* Constructionist Process: 6 stages
  * Task Initiation
  * Topic Selection
  * Prefocus Exploration
  * Focus Formulation
  * Information Collection
  * Search Closure
* LINKING through Process

* Idea / Discovery Tool / Resources

Brain Usage 10%
Library Assignments

* Focusing the question
* Analyzing an article
* Career Information
* Mediated Opinion
* Current Information
* Focusing the Question

*Idea / Library Discovery Tool / Resources

Brain Usage 10%
Ten percent of brain myth - Wikipedia, the free encyclopedia

The 10% of brain myth is the widely perpetuated urban legend that most or all humans only make use of 3%, 10%, 27% or some other small percentage of their brain. Origin - Refutation - Perpetuation in pop culture - See also

Do People Only Use 10 Percent of Their Brains? - Scientific American

Feb 7, 2008 - Adding to that mystery is the contention that humans "only" employ 10 percent of their brain. If only regular folk could tap that other 90 percent, ...

All You Need To Know About the 10 Percent Brain Myth, in ...

It's based on the immortal myth that we use only 10 percent of our brains. Johansson's character is implanted with drugs that allow her to ...

Do We Use Only 10% of Our Brain?

University of Washington

There is no scientific evidence to suggest that we use only 10% of our brains. Let's look at the possible origins of this "10% brain use" statement and the ...

What Percentage Of Our Brains Do We Actually Use ...

The Huffington Post

Feb 4, 2014 - It's commonly said that we humans use only about 10 percent of our brains, with some people attributing Einstein's brilliance to his ability to ...
Though an alluring idea, the "10 percent myth" is so wrong it is almost laughable, says neurologist Barry Gordon at Johns Hopkins School of Medicine in Baltimore. Although there's no definitive culprit to pin the blame on for starting this legend, the notion has been linked to the American psychologist and author William James, who argued in *The Energies of Men* that "We are making use of only a small part of our possible mental and physical resources." It's also been associated with Albert Einstein, who supposedly used it to explain his cosmic towering intellect.

The myth's durability, Gordon says, stems from people's conceptions about their own brains: they see their own shortcomings as evidence of the existence of untapped gray matter. This is a false assumption. What is correct, however, is that at certain moments in anyone's life, such as when we are simply at rest and thinking, we may be using only 10 percent of our brains.

"It turns out though, that we use virtually every part of the brain, and that [most of] the brain is active almost all the time," Gordon adds. "Let's put it this way: the brain represents three percent of the body's weight and uses 20 percent of the body's energy."
Finding Links

- Wikipedia & Google provided good beginnings
  - Myth
  - Academics Study more granular
    - Psychology - how we use the brain
    - Neurology - how biological systems process reactions to the environment

Thesis sentence

- As we study the brain, we find that the entire brain is involved in even the most simple task. Let's take a closer look at what we know.
  - Psychological studies
    - Key words Psychology study brain usage
Thermal spatio-temporal data for stress recognition
by Sharma, Nandita; Dhall, Abhinav; Gedson, Tom; Goecke, Roland
Stress is a serious concern facing our world today, motivating the development of a better objective understanding through the use of non-intrusive means for... Engineering, Watching films, Stress classification, Signal, Image and Speech Processing, Support vector machines
[Journal Article: Full Text Online]

Robust, accurate and fast automatic segmentation of the spinal cord
by De Leener, Benjamin; Kadoury, Samuel; Cohen-Adad, Julien
NeuroImage, ISSN 1053-8119, 04/2014
[Journal Article: Full Text Online]

Brain activity and prosocial behavior in a simulated life-threatening situation
by Zanon, Marco; Novembre, Giovanni; Zangrando, Nicola; Chittaro, Luca; Silani, Giorgia
NeuroImage, ISSN 1053-8119, 04/2014
... still a puzzle for many social scientists, such a complexity seems to be the driving force that has favored the evolution of a larger and more complex brain (Byrne... [Journal Article: Full Text Online]
* Constructionist Process: 6 stages
  * Task Initiation
  * Topic Selection
  * Prefocus Exploration
  * Focus Formulation
  * Information Collection
  * Search Closure

* Assignment: Choose a myth from the following list and describe the search process as you identify a facet that academic sources can inform

* Starting Points
  * Linking Idea [key words] to search engine
    * Scan source of your idea
    * Try searching in multiple databases
* Analyzing an article
  * Who is the author? [Background, vita, where he/she works]
  * What is the main point of the article? [Hint: check the abstract & conclusion]
  * How did the author incorporate information into the article
  * How is the article structured?
  * Who’s work is included in the references?
  * What other articles did this author publish?
The origin of symbols and their controversies

Jan Michal Burdikiewicz
Institute of Archaeology, University of Wroclaw

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Article history
Available online 11 September 2013

1. Introduction

In the research on the human evolution events is the appearance of symbolism as the constitutive features of human thinking. The combined effects of the cognitive and the cultural revolutions led to a new way of thinking, the modern human (Mellars, 2010, 2011) argued that the appearance of symbolism and they appeared quite late, after the appearance of modern humans (Homo sapiens, 1999). This implies that non-modern Neandertals dominated in Europe, until the end of the Pleistocene (2000; Mellars, 2010, 2011).

References


burdukiewicz jan michał

Prehistoric Britain - Page 353 - Google Books Result
books.google.com/books?id=1136973044
Timothy Davill - 2010 - Social Science

Yes, We Should Clone Neanderthals : Science Not Fiction
blogs.discovermagazine.com/.../yes-we-should-clone-neanderth...
Jul 19, 2010 - 30,000 years ago a Neanderthal woman died in what would become Croatia's Vindija cave. Five years ago, 454 Life Sciences and the Max ...

Ben Underwood : Science Not Fiction
blogs.discovermagazine.com/sciencenotfiction/.../ben-underwoo...
Jul 2, 2009 - We all know the routine with super powers: a mutated gene, alien origin, or a magic object are required, and usually some cataclysmic family ...

Wendy Davis Gave Up Custody of Youngest Daughter in...
www.breitbart.com/.../Wendy-Davis-Gave-Up-Custody-of...
Jan 22, 2014 - "It's not a good time for me right now" Davis said at the time, ... Davis's first daughter Amber, born during her first marriage to Frank Underwood, ...

A Molecular Approach to the Neanderthal Extinction: The ...
www.academia.edu/.../A_Molecular_Approach_to_the_Ne...
Van Andel, Davies, Weninger, Joris (2003) justify their use of archaeological ..... the Neanderthal population as a result of cannibalistic practices (Underwood, ...

Nutritional ecology and the human demography of...
www.academia.edu/.../Nutritional_ecology_and_the_huma...
Jan 1, 2005 - Nutritional ecology and the human demography of Neandertal ..... 2001; Neumann et al., 2002; Underwood, 2002; Viteri and Gonzalez, 2002; ...
**Critical Thinking Components**

- Constructionist Process: 6 stages
  - Task Initiation
  - Topic Selection
  - Prefocus Exploration
  - Focus Formulation
  - Information Collection
  - Search Closure

- Assignment: Analyze an article, the authority of the author and the credibility of the sources used in the article
  - Close reading of article
  - Biographical information
  - Relations between author and sources
Analysis of a Career

* Explore Careers
  * Pay
  * Outlook
  * Preparation
  * Environment
  * Similar Occupations

* Find Current postings for Jobs
  * Compare with Occupational Outlook Handbook
    * Print vs Database
What Librarians Do

Librarians help people find information and conduct research for personal and professional use. Their job duties may change based on the type of library they work in, such as public, school, and medical libraries.

Duties

Librarians typically do the following:

- Help library patrons conduct research and find the information they need
- Teach classes about information resources and help users evaluate search results and reference materials
- Organize library materials so they are easy to find, and maintain collections
- Plan programs for different audiences, such as storytelling for young children
- Develop and index databases of library materials
- Research new books and materials by reading book reviews, publishers' announcements, and catalogs
- Choose new books, audio books, videos, and other materials for the library
- Research and buy new computers and other equipment as needed for the library
- Train and direct library technicians, assistants, other support staff, and volunteers
- Prepare library budgets

In small libraries, librarians are often responsible for many or all aspects of library operations. They may manage a staff of library assistants and technicians.

In larger libraries, librarians usually focus on one aspect of library work, including user services, technical services, or administrative services.

The following are examples of types of librarians:

**User services librarians** help patrons find the information they need. They listen to what patrons are looking for and help them conduct research using both traditional and electronic library resources.
**Critical Thinking Components**

* Constructionist Process: 6 stages
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* Assignment: Locate a career listed in OOH & compare job postings with analysis of OOH. [Compare communities of jobs in 2 different cities]
* Evaluating information
* Searching for jobs
  * Communities
  * Professional Associations
  * Institutions
Mediating Opinions

* Locate two opposing viewpoints, identify information used to support each position, identify common ideas, and search for information that brings these two sides together.
Global Warming

* What can US do to improve greenhouse gases

* CO2 levels
* Rising Temperatures
* Ice Melting
* Rising Oceans

* Sen Barrasso

* Wyoming’s Solution
  * Balance environment & economy
  * Increased regulation won’t help
  * Jobs
  * Unilateral regulations cannot solve global issues
* Central issues
* Economy & Jobs
* Search strategy
* Green Jobs
* Saving

---

**Reconciliation**

---

**Central issues**

**Economy & Jobs**

**Search strategy**

**Green Jobs**

**Saving**

---

**Recommendation:** We found one or more specialized collections that might help you.

- **Education Research Complete** - K12 to higher ed database indexing cover 1500 journals, 700 full text
- **ProQuest Central**

**Jobs, jobs, and green jobs**

By Schnoor, Jerald L
Environmental science & technology, ISSN 0013-938X, 12/2009, Volume 43, Issue 23, p. 8706

**Green jobs**

Paraplegia News, ISSN 0031-1766, 03/2010, Volume 64, Issue 3, p. 14
... with disabilities are included in developing and implementing initiatives tied to the emerging "green jobs" economy. The event was jointly sponsored by the Department of Labor...
Green employment, Disabled persons

**Green Jobs, Brown Jobs**

By Coral Davenport
National Journal, ISSN 0360-4217, 12/2011

**Greens**

By Stefanie Wortman
Southwest Review, ISSN 0038-4712, 07/2012, Volume 97, Issue 3, p. 400
... Wortman shares her desire for greens and her experience growing kale in her community garden.
**Critical Thinking Components**

* Constructionist Process: 6 stages
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* Carefully read two articles
* Compare information used to support each position
* Find common issues
* Use common issues in search for additional information that can be used to bridge the differences
Find an incident in the past six months, and locate academic publications that relate to the issues discussed in the newspaper article.
* Read an article about building collapse in Bangladesh

* Key Terms
* Bangladesh
* “garment factory”
* “American companies”
* Gap | “Children’s Place”

Some Retailers Rethink Role In Bangladesh

Deadly Accidents Put Reputations at Risk

By STEVEN GREENHOUSE

Ever since a building with garment factories collapsed in Bangladesh last week, killing more than 400 people, Western apparel companies with ties to the country have scrambled to address public concerns about working conditions there. Benetton repeatedly revised its accounts of goods produced at one of the factories, while officials at Gap, the Children’s Place and other retailers huddled to figure out how to improve conditions and some debated whether to remain in Bangladesh at all.

At least one big American company with Bangladeshi operations, however, had already decided to leave the country — pushed by the last devastating disaster, a fire just six months ago that killed 112 people.

The Walt Disney Company, considered the world’s largest licensor with sales of nearly $4 billion, in March ordered an end to manufacturing for Disney products in Bangladesh.

The company said at the time that it was reviewing its business in the country, and the decision promptly prompted near-chaos at a key one of its factories, where employees walked off the job in protest of the Disney exit.

The company had been criticized earlier in the year for creating a garment factory that burned and killed 112 people in June. The fire occurred at a factory that had been inspected by the company just hours before the disaster.

The Walt Disney Company, based in Burbank, Calif., has been particularly targeted by critics over the years. In 2006, the company was criticized for continuing business with a factory that burned and killed 112 people.

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Putting the Pieces Together

Can I Intelligently Talk about my Topic

- Background / Context
  - General Article
  - Encyclopedia

- Accurate Reliable
  - Scholarly Articles
  - Popular Articles
  - Newspaper

- Personal Perspectives
  - Primary Documents
  - Interviews
  - Memoirs - Autobiographies

What experts say about my Topic
* Structuring my topic

* IDEA: American companies endanger cheap labor to boost profits

* Key word
  * Bangladesh
  * “American Companies”
  * Reaction

* Thesis:
  * American companies get away with exploiting offshore labor

OR

* American companies were unaware of poor conditions in offshore factories
Describing your Search - Linking Terms

Bangladesh
Factory
Safety
American companies get away with exploiting offshore labor.
American companies unaware of poor conditions in offshore factories

Select the material that best fits your thesis.
Critical Thinking Components

* Constructionist Process: 6 stages
  * Task Initiation
  * Topic Selection
  * Prefocus Exploration
  * Focus Formulation
  * Information Collection
  * Search Closure

Assignment: Find an article in a major newspaper and locate three academic discussions dealing with an aspect of the story.

Linking Idea [key words] an academic publication
  * Scan source of your idea
  * Focus a thesis statement to narrow results & assure relevance to your point
* Critical Thinking

* analyzing, assessing, and reconstructing it.
* self-directed, self-disciplined, self-monitored, and self-corrective thinking.
* entails effective communication and problem-solving abilities

Critical Thinking Community
Library Assignments

* Reflect on the process of
  * Locating
  * Analyzing
  * Connecting sources
* Link ideas [key words] with discovery tools
* Dead ends are part of the process
* No information about an author
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