



New research offers a compelling case for music as an innate biological function

The Adapted Brain

Natural Selection



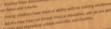








Non-Musicians Sure Are Musical









A Cultural Human Universal

Music is used throughout the world as a means of understanding, respecting, and bridging cultural differences.

Cross-Cultural Meets Popular





Orchestras Bring People Together





World Music Crosses Borders





Music and the Deaf









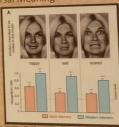
The meaning conveyed by music is not necessarily culturally dependent

Universalty of Cognition





Universal Meaning



Musical Communication

Culturally-more than the qualities attributable to a specific cultural perspective. Matheurose structural, the qualities emanating from biological imperatives, Social-interaction, the qualities that stem from the complexities and peculiar or social interaction.





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World Music Crosses Borders



A Long History of Distrust

Since II is seldom clear whether intellectual activity idenotes a superior mode of being or a wital deficiency, opinion swings between considering intellect a privilege and seeing it as a handicap, -Jacques Barram



Egghead: "A person of spurious intellectual pretentions often a professor or the protegé of a professor. Fundamentaly a professor or the protegé of a professor. Fundamentaly superficial. Over-emotional and ferninnien in reaction to any superficial. Over-emotional and serimine in reaction to any problem. Supercillous and surfeited with conceit and exposence of the experience of more sound and able me. On the experience of t







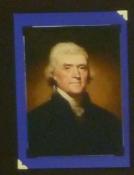


Anti-intellectualism in America

A history of policies and attitudes toward intellectualism, in an attempt to define qualities of modern American culture



Who are these women?



The year freight of the Orders of Theore have desirable to some of Monter's Franchise filters from these hilders is indicated in twenty enemy. Here is considerable to two Monter's theory of the Monter's filters for the Monter's filters and the Monter's filters for the Monter's filters and the present to the Monter's filters and the special properties of the Monter's continued for the Monter's filters and the Monter's

Amounts are in serious intellectual traular in language of language and annique concultural capation in a resistant intellectual or and institutional institutional and low representations.

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Fire and fastioners among the victors of the new unit-mellicitudios.

Fire and fastioners among the victors of the new unit-mellicitudios.

Reading has declined not only aroung the portly obscaled, according to a report but year by the National Endowered for the Arts. In 1918, 22 present of colleges graduates read around so preent for pleasance two decades laters, and by the present that And men than 40 present of a description useful at the fact tract is single back. — Colonial or middless—over the canada of a year. The properties of a 'P-sees' all when read the later of the around the around the around the around the whole the around the around the around the around the around the whole the around consensation. When the arrows the around the around the around the around consensation which the around the aroun



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China

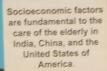
History and Culture

- China's philosophies have centered around the family and respect for elders.
- In earlier times, the younger generations cared for their parents and grandparents. The elderly were consider to have a connection to the ancestors and were very
 - As in India, the practice of using a elder care facility has been rising, but there are still 37 percent of adult children that will and want to take care of their parents. (Hong Kong)
 - *Chinese culture has been heavily influenced by Confucian traditions, which place great emphasis on parasit-child





Caring for the elderly in India, China, and the **United States of America**





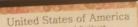






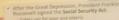




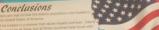


History and Culture

- 1650-1850: Less than 2 percent of the population was considered elderly. They were revered for their waters.
- The American Revolution started a culture where the youth were more cherished than the old. This led to old age being called a disease [Common or content of the content of
- in the 20th century, the elderly were seen as a burden on society because they could not contribute as much to medical and business



populations. Poorhouses in the 1900's, provided shelter for the elderly, but since the passage of Medicare and Medicaid, nursing homes have been used to shorten hospital stays and subsequently cut costs for the.





Reflections





History and Culture









China

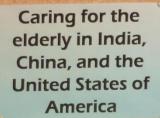
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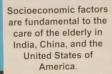
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 - As in India, the practice of using a elder care facility has been rising, but there are still 37 percent of adult children that will and want to take care of their parents. (Hong Kong)
 - "Chinese culture has been heavily influenced by Confucian traditions, which place great emphasis on parent-child relationships" (Tang)



- They have had to take on more work because of the current
- The elderly are discovering self-reliance through pensions and not living with their children.

4 Grandparents



















India

History and Culture

Focus is on the well being of the Children.
Only 1 percent (about 650,000) of India's elder population lives in a senior residence (Liebig).

As percent for the 1 percent; earn-suburbers and "HelpAge India" is an india does not have regulations for group, homes: "HelpAge India" is an organization that help fight for the rights of the elderly.

The most popular form of elderly care is living with multiple generation in one household.

ough senior housing has been around for over 300. s. Indians still live in a co-generational household. As, majes the life in a Co-generational household.

When reaching the misstone of marrying their last child, the
man gives up everything he ownstoproperty, crops, house) and
sales is to their spring he ownstoproperty or cops, house and
as lot of pressure on the helder to pass on his responsibility,
whether he is ready or not.

The effect operators

he elders stay with the family and live with less

we get assessed to the role of the following the role of the household head and his wife is to "settle her children, by arranging their marriages and providing also son with reast to earn a living. The lattle providing sepends on socioeconomic position" (Vera-Sanso).

nike the United States, where 'programs for the poor spile the United States, where 'programs for the poor spile when the bomes for the destitute spile were well-constructed and well.



United States of America History and culture

- 1650-1850: Less than 2 percent of the population was considered elderly. They were revered for
- The American Revolution started a culture where the youth were more cherished than the old.
 This led to old age being called a disease
- in the 20th century, the elderly were seen as a burden on society because they could not contribute as much to medical and business

After the Great Depression, President Fra Roosevelt signed the Social Security Act.

- President Lyndon B. Johnson passed the Medicaid and Medicare programs to help the elderly and poor
- Poorhouses in the 1900's, provided shelter for the elderly, but since the passage of Medicare and Medicaid, nursing homes have been used to shorten, hospital stays and subsequently cut costs for the government.
- 1987-Nursing homes began to have stricter regulations to 30 million people over the age of 65 in 2012 (CIA)



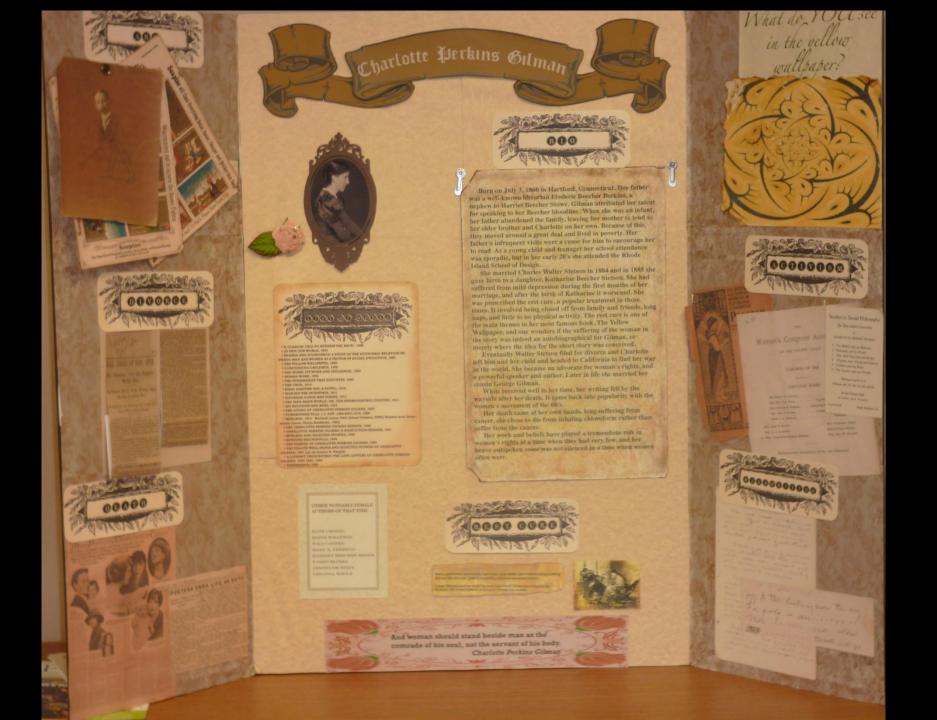
Reflections















DEFINITION

*In mathematics, the maximum and minimum of a function, known

collectively as extrema, are the largest and smallest value that the function

takes at a point either within a given neighborhood (local or relative

extremum) or on the function domain in its entirety (global or absolute

*More generally, the maximum and minimum of a set (as defined in set

theory) are the greatest and least element in the set. Unbounded infinite sets such as the set of real numbers have no minimum and maximum. •To locate extreme values is the basic objective of optimization.

LEONHARD EULER

One of the first mathematicians who found and

heorized applications for Maxima and Minima was Leonhard Euler. He made important discoveries in

fields as diverse as infinitesimal calculus and graph

APPLICATIONS OF THE DERIVATIVE MAXIMUM AND MINIMUM



A critical number of a function f is a number c in the domain of fsuch that

- a. f'(c) = 0 (stationary point)
- b. f'(c) does not exist (singular point)



CANDIDATES FOR RELATIVE EXTREMA

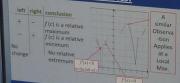
- 1. Stationary points: any x such that x is in the domain of f and f'(x)
- 2. Singular points: any x such that x is in the domain of f and f'(x)
- 3. Remark: notice that not every critical number correspond to a local maximum or local minimum. We use "local extrema" to refer to either a

FERMAT'S THEOREM



If a function f has a local maximum or minimum at c, then NOTICE that the theorem does not say that at every critical number the function has a local maximum or local

FIRST DERIVATIVE TEST



OPTAMIZATION PROBLEMS

An open-top box with a square bottom and rectangular sides is to have a volume of 256 cubic inches. Find the dimensions that require the minimum amount of material.

$$S = x^{x} + 4xy$$

$$V = x^{2}y = 256$$

$$S = x^{2} + 4x\left(\frac{256}{x^{2}}\right)$$

$$S = x^{2} + \frac{1024}{x^{2}}$$

$$S' = 2x - \frac{1024}{x^{2}}$$

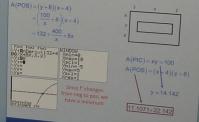
$$0 = 2x - \frac{1024}{x^{2}}$$

$$x = 8 \rightarrow y = 4$$

$$S'' = 2 + \frac{2048}{x^{2}} > 0$$
therefore a min

MARGIN PROBLEM

(calculator required) A poster is to contain 100 square inches of picture surrounded by a 4 inch margin at the top and bottom and a 2 inch margin on each side. Find the overall dimensions that will minimize the total area



MAXIMAXING PROFIT

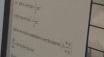
Suppose that the revenue of a company can be represented by the function suppose that the revenue of a company can be represented by the function $(s_1) = 48s$, and company's cost function is $(s_2) = x_1 - x_2 + y_3 + y_4 + y_5 + y_5$



OPEN BOX PROBLEM

Norms window has the outline of a semicircle on top of a rectangle as have in the figure. Suppose there is 8 + x feet of wood trim available for at 4 sides of the rectangle and the semicircle. Find the dimensions of the ustagle (and hence the semicorcle) that will maximize the area of the







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the U.S. mbodia. p, Nike, mpanies ore jobs nproves,

The Impact of the U.S. Outsourcing on Cambodia's Garment Industry











Garment workers are paid low wages, only 0.21 cents per hour. It is equal to\$1.68 per day and \$50. 40 per month, and they get paid at the end of the month ("Watching Brief on Quota-Free Trade in Textiles and Clothing"). Whereas, the United States floor wages is \$ 7.45 per hour, and the owner is responsible to pay health insurance, holiday, sick days, and federal and local government taxes ("Minimum Wage Worker").





Working in Countryside Verse Working in City

Countryside

- Work in field grow crop or rice
- Plantations

















STILL THE WORLD'S UNTAPPED PHARMACY





each year

d into

0 years

t 50

Benefits

The Amazon Rainforest has supplied mankind with thousands of species of plants and animals that have had an enormous impact on curing many human diseases and ailments. One current example is the *Mexican magic mushroom* that is proving to be a long awaited cure for cluster headaches. These headaches are far worse than migraine headaches and can last for weeks. Other plants of the rainforest have provided cures for malaria, ulcers, hepatitis, fevers and even the compounds that go into 'the pill.' Our current form of anesthesia is also derived from the Amazon rainforest. Researchers are currently looking to the rainforest in the fight to overcome some of mankind's more devastating diseases such as cancer, Listeria and HIV/AIDS. Some of the animals of the rainforest, including the Amazon leech, Vampire bat, fire ant and poison dart frogs, are all providing medicinal drugs as well. A recently new field of study into endophytes is also creating a new source of medicinal drugs.





The encouraging pharmaceutica are actively do Cancer Institut Biodiversity (IN still safely seal farmers in Cost benefit both the population. Sin deforestation in livelihoods for







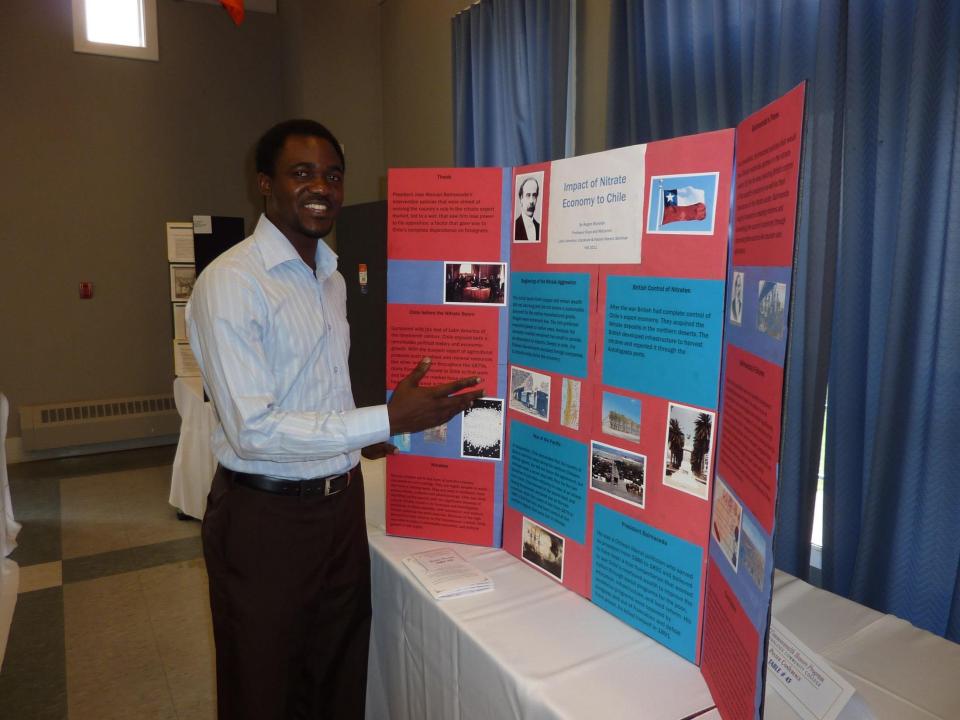
CONCLUSIO

The teachings of Confucius changed the way people in Eafamily structure and relationships. Confucius taught ances elders. Obedience is a characteristic that was emphasiz family the younger siblings were expected to obey any of three obedience stated that a daughter should obey her should obey her husband, and a widow should obey her e allowed to impose their views on their husbands and inst them. The male is considered the head of the family. relationships and how people conduct themselves in soci of the roles they had within a family. The social hierarch precedence. Confucianism became popular in Eastern Asi countries' culture. As a result, many families desired a continue their family's lineage. Confucianism focused on within a family and society.

REFLECTION

"Even though you sleep intimately in the same bed and









The Evolution of Gender Roles in China Marriage and Family









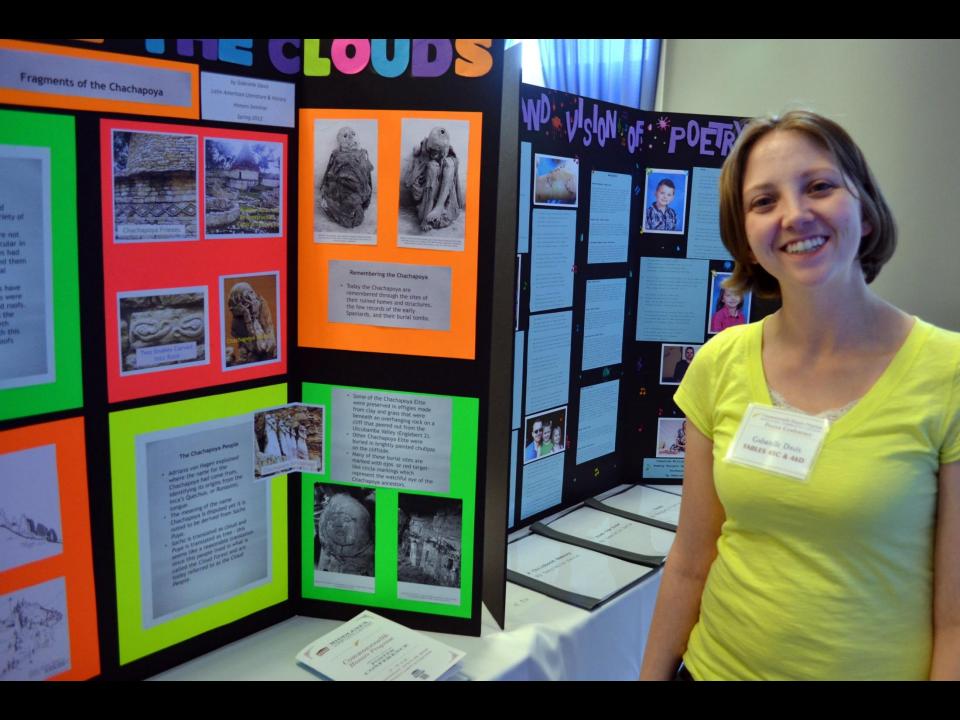




Politica











Patient #1 Winnie-the-Pooh



Patient #2

Hundred Acre

Psychiatric Hospital

Files Patient

Introduction

- * One in four people suffer from some form of mental illness in a given year (World Health Organization), so why not the characters in our books as well?
- When we were young, we went through our lives ignorant to the fact that the characters in our favorite children's novels could be plagued by mental illness.
- * Heanwhile, deep within the Hundred Acre Wood, Christopher Robin and his friends roup the day away. In a forest of foreams, they embark on exciting adventures, getting themselves into all sorts of trouble. But who would have thought that some of the problems they would encounter were due to possible mentai illnesses?

Reflections

In childhood we are more accepting or open to behaviors that, in an adult, we may find abnormal, unconfortable or dangerous and thus not recognize or understand the impact they may have on our future health, relationships or quality of life.

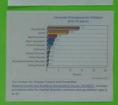
The research shown illustrates that support from family, friends and community can really help those with mental illness.

*Traits of mental illness within the characters is not endemic to Winnie-the-Pooh alone and can be discovered in many other children's books.

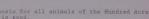
→ Given the character's flaws, one may be able to feel even more invested in the character, itself.

By: Anastasia Dickenson





- ⇒ Prognosis for all animals of the Hundred Acre Wood is good.
- Given all their issues Christopher Robin and pale remain friends and are able to thrive as a community.
- * helping each other work through difficulties with humor and empathy
- * Individuals with mental illness are able to function in society with the help and support of family and friends, living a full life with an abundance of honey pots and haycorns, with lots of room to bounce.





* respecting one-another's idiosyncrasies



Works Cited













