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The Bilingual Advantage: Cognition, Character and Culture That Make a Difference

THANK YOU VERY MUCH!

"I Was Taught Three"

names for the tree facing my window almost within reach, elastic

with squirrels, memory banks, homes. *Castagno* took itself to heart, its pods

like urchins clung to where they landed claiming every bit of shadow

at the hem. *Chassagne*, on windier days, nervous in taffeta gowns,

whispering, on the verge of being anarchic, though well bred.

And then *chestnut*, whipped pale and clean by all the inner reservoirs

called upon to do their even share of work. It was not the kind of tree

got at by default—imagine that—not one in which the only remaining leaf

was loyal. No, this was all first person, and I

was the stem, holding within myself the whole bouquet of three

at once given and received: smallest roadmaps of coincidence. What is the idea

that governs blossoming? The human tree clothed with its nouns, or this one

just outside my window promising more firmly than can be named

that it will reach my sill eventually, the leaves silent as suppressed desires, and I

a name among them.



Contents

The Bilingual Phenomenon

Definitions. Realities. Explanations.

The Bilingual Brain

Questions. Research. Insights.

The Bilingual Promise

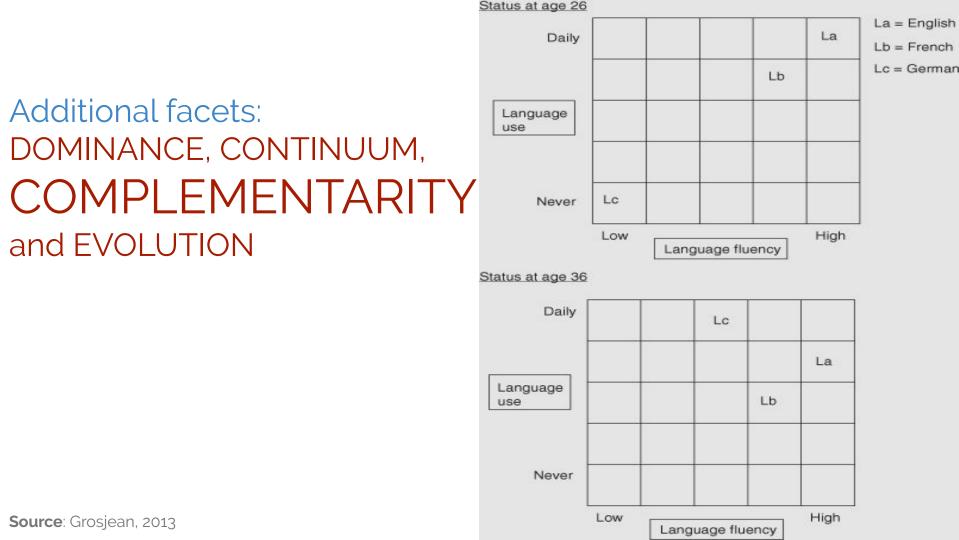
Creativity. Emotional Intelligence. Cross-Cultural Competence.

Bilingualism?

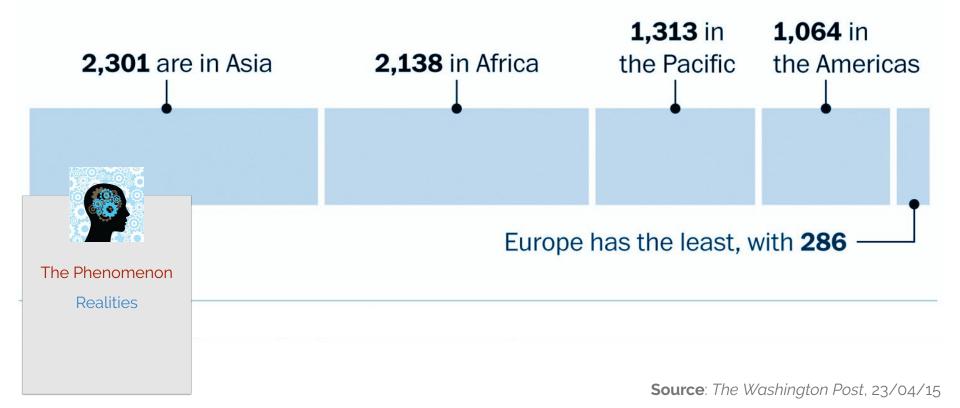
"The use of two or more languages (or dialects) in everyday life" (Grosjean, 2013)

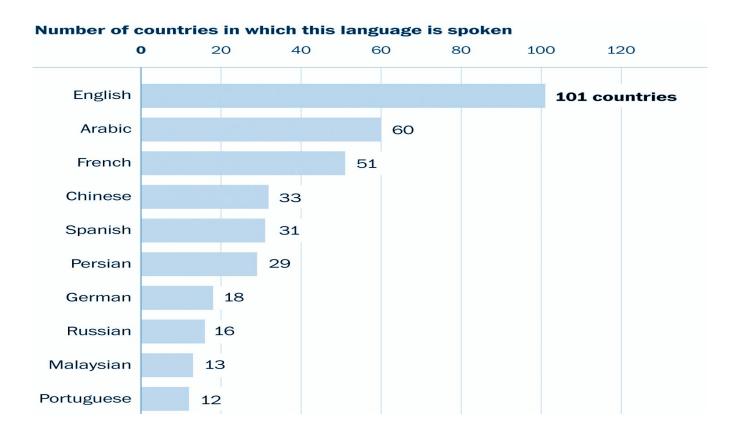
The Phenomenon

Definitions



There are at least **7,102** living languages in the world.





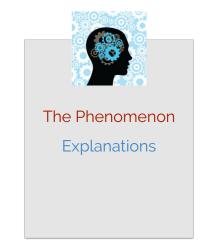
Greenberg's diversity index

The probability that two randomly selected people in a country speak different mother tongues. The highest value is 100, meaning every person in the country speaks a different mother tongue. Papua New Guinea holds the top spot, with 98.8.



Why?

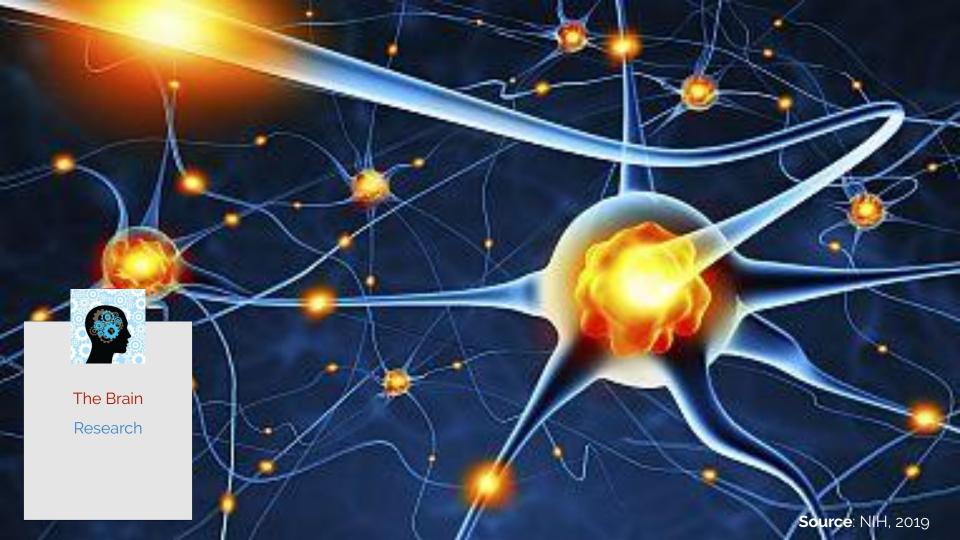
Instinct, expression, COMMUNICATION, adaptation, collaboration...



QUERY #1

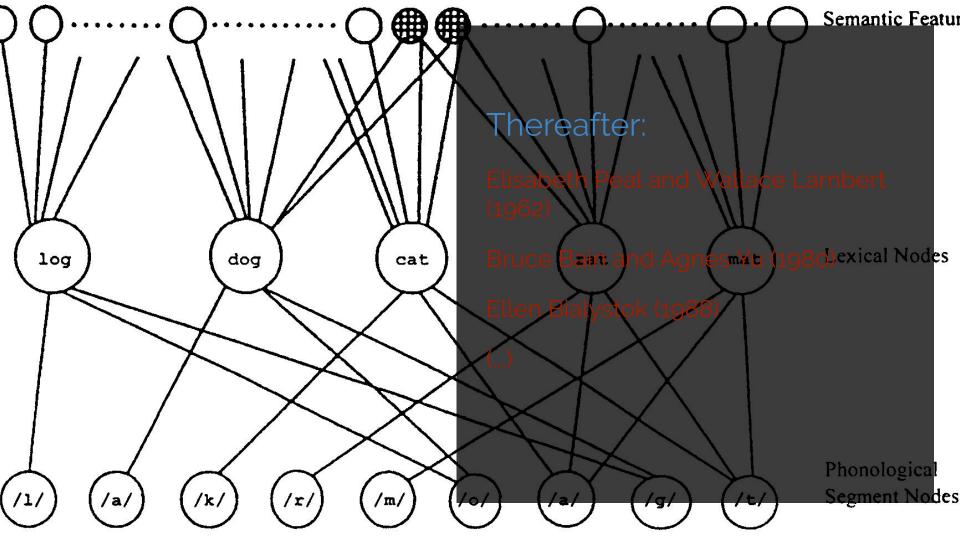
How does BILINGUALISM shape our capacity for learning?







"If it were possible for a child...to live in two languages at once equally well, so much the worse. His intellectual and spiritual growth would not thereby be doubled but halved. Unity of mind and character would have great difficulty" (Laurie, 1890, quoted in Grosjean, 2010)



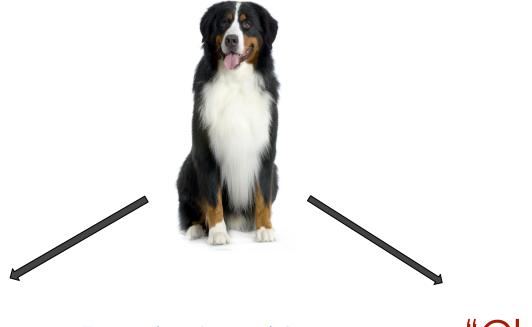
Paradigm Shift

Subjects; methods; our ever-deepening understanding of the HUMAN MIND...

Psycholinguistics

"The field of science [combining psychology and linguistics] that examines the mental processes and knowledge structures involved in acquiring, understanding, and producing language" (De Groot, 2011)





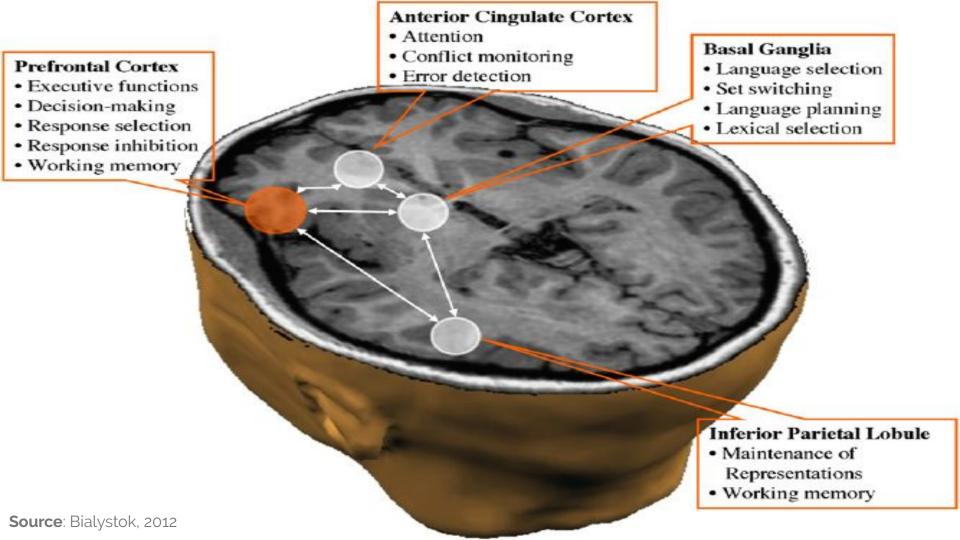
"Dog"

Executive Control System (ECS)

"Chien"

Bilingual Minds

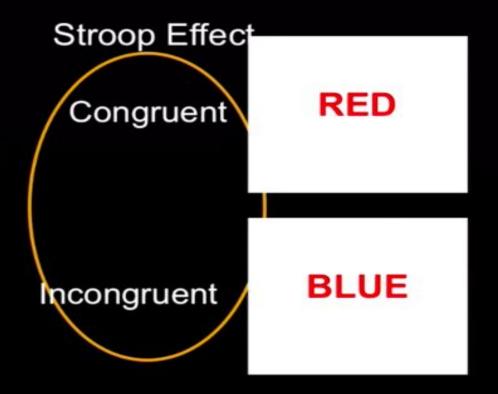
Language structure represented in mind; bilinguals have two interacting systems; there is no language switch; both languages ALWAYS ACTIVE to some degree



Components of executive control

Inhibition and SELECTION; shifting and multitasking; working memory

Stroop Task Name the colour of the ink



Why such differences?

Constant need to manage attention in bilingual language processing recruits ECS; use for language selection reorganizes the ECS; the reorganized ECS is more EFFICIENT

Intervening factors

LINGUISTIC

Comprehensible input, threshold...

PSYCHOLOGICAL

Affective filter, positive climate, cultural purposefulness...

SOCIAL

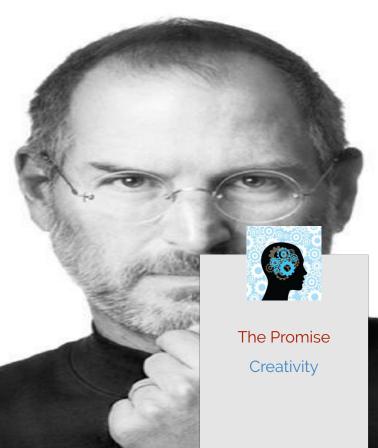
Socioeconomic status, age...

"Creativity is just connecting things. When you ask creative people how they did something, they feel a little guilty because they didn't really do it, they just saw something.

It seemed obvious to them after a while. That's because they were able to connect experiences they've had and synthesize new things. And the reason they were able to do that was that they've had more experiences or they have thought more about their experiences than other people.

Unfortunately, that's too rare a commodity. A lot of people in our industry haven't had very diverse experiences.

So they don't have enough dots to connect, and they end up with very linear solutions without a broad perspective on the problem. The broader one's understanding of the human experience, the better design we will have."



Source: Wired, 1996

METALINGUISTIC awareness

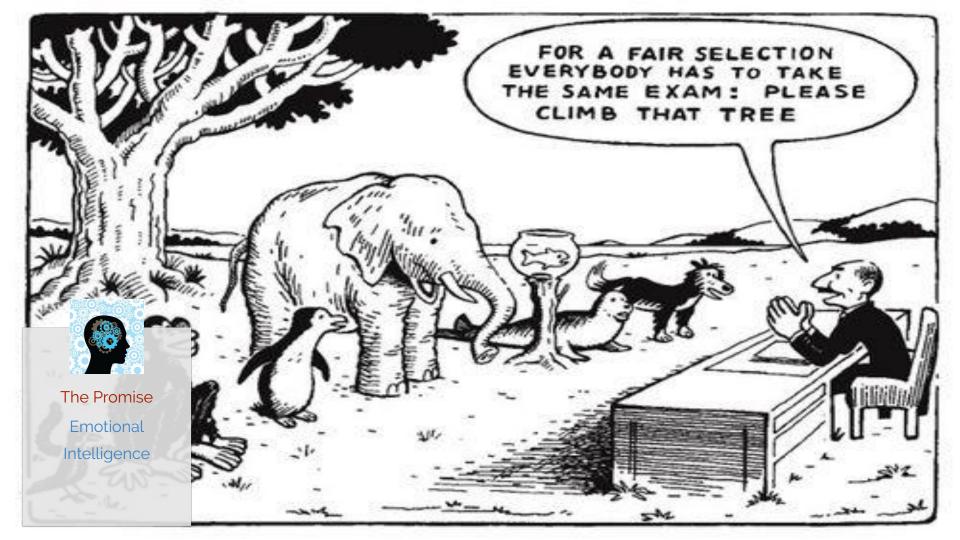
Using two languages sharpens the ways in which the human mind structures its approach towards phonology, morphology, syntax and other such linguistic features (Grosjean, 2010)

"What is significant about the bilingual advantage...is its persistence across verbal and NONVERBAL domains of problem-solving"

(Bialystok, 2005)

Sample	Low-proficient	High-proficient
(F.M) Abbreviated Torrance Tes	12:9	12:9
Appreviated forfance les (Kharkurin, 2008)	19.6 (3.2)	20.7 (1.1)
IQ (Kriarkuriri, 2000)	121.8 (4.1)	123.7 (6.0)
English voetabulary score*	3754 (748)	4164 (520)
AUT Fluency		
Elaboration	4.2 (3.1)	3.3 (2.3)
Fluency*	40.7 (11.6)	32.5 (11.1)
Flexibility Convergence Originality? Divergence vis-à-vis convergence	27.2 (7.5)	26.4 (8.3)
Originality	17.4 (16.1)	12.8 (6.7)
RAT*	13.3 (3.1)	15.8 (4.2)
*p < 0.05 (significant group differen	ce).	

Vocabulary and pronunciation AREN'T everything!



Theory of Mind

Interpersonal communication

For instance, giving instructions for a board and dice game (Genesee, Tucker and Lambert, 1975)



Emotional Intelligence

"The population [of classical Athens when Socrates died.] at the end of the 5th century BC, could have lived in a few skyscrapers...the challenge...is to take minds and hearts formed over the long millennia of living in local troops and equip them with ideas and institutions that will allow us to live together as the global tribe we have BECOME" (Appiah, 2006)

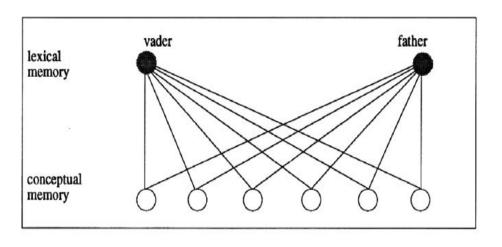
KWAME ANTHONY APPIAH

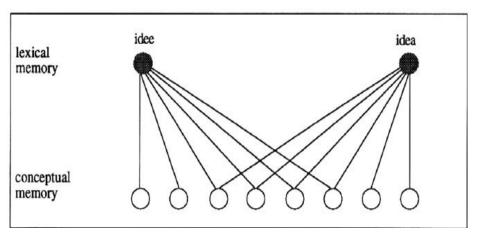
COSMOPOLITANISM

ETHICS IN A WORLD OF STRANGERS









Conceptual Feature MODEL

When my wishes conflict with those of my family...? Real friends SHOULD?

(Ervin-Tripp, 1964)

From diversity, still greater UNITY

(Ramírez-Esparza, Gosling, Benet-Martínez, Potter and Pennebaker, 2006)

Linguistic determinism vs. language RELATIVITY

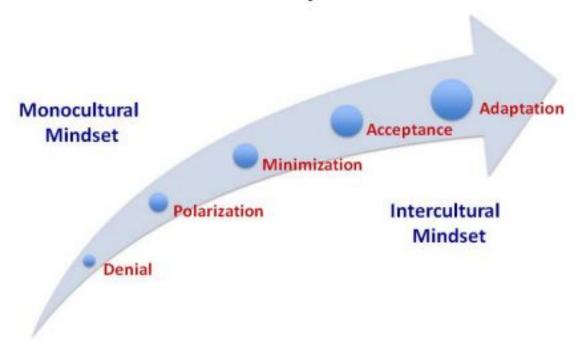
("'Thinking is a matter of LANGUAGE' is an incorrect generalization of the more nearly correct idea that 'thinking is a matter of different tongues," Whorf quoted in Athanasopoulos, 2012)

"The limits of my language mean the limits of my world" (Wittgenstein, 1922)

"We are not captives of our tongues, but we are CITIZENS of our languages. And citizenship is a broad concept that includes behavior and rituals. We approach the secret life of another language more intimately on first approach than after we have married into it. Learning a new language is like learning a new city: you see things you'll never notice, or need, once you go to live there and are habituated by routine"

(Gopnik, 2014)

Intercultural Development Continuum



Source: IDC, 2016

謝謝