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Steve McCarroll: How data is helping us unravel the mysteries of the brain | TED Talk

https://www.ted.com/talks/steve_mccarroll_how_data_is_helping_us_unravel_the_mysteries_of_the_brain

Advanced Words Only

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Session 1: Word List

heroically

adv. in a way that shows great bravery, courage, or self-sacrifice

synonym : bravely, fearlessly, valiantly

(1) **heroically** saved, (2) fight **heroically**

The firefighter acted **heroically** to save the family from the burning building.

thanksgiving

n. an annual holiday celebrated primarily in the United States and Canada, typically observed on the fourth Thursday in November in the U.S. and on the second Monday in October in Canada, that commemorates the giving of thanks for the blessings of the previous year

synonym : gratitude, appreciation, recognition

(1) **thanksgiving** traditions, (2) **thanksgiving** parade

My family gathers together every year for **thanksgiving** dinner.

vivacious

adj. lively, energetic, and full of positive spirit or enthusiasm; animated and outgoing in one's behavior and demeanor

synonym : lively, spirited, energetic

(1) **vivacious** laughter, (2) **vivacious** spirit

She had a **vivacious** personality that lit up any room she entered.

disorganize

v. to disrupt or destroy the systematic order or function of something

synonym: disrupt, demobilize, derange

(1) **disorganized** the party, (2) **disorganize** the whole country

His betrayal **disorganized** the company completely.

schizophrenia

n. a severe mental disorder in which a person has a distorted view of reality and may experience hallucinations, delusions, and disordered thinking and behavior

synonym: psychosis, disorder, mental illness

(1) **schizophrenia** spectrum disorder, (2) **schizophrenia** treatment

The **schizophrenia** patient was experiencing severe auditory hallucinations.

medicinal

adj. of or relating to the treatment or cure of disease

synonym: curative, therapeutic, healing

(1) **medicinal** chemistry, (2) traditional **medicinal**

The **medicinal** properties of this herb have been known to help with various ailments.

bipolar

adj. of, relating to, or occurring in both polar regions; of or relating to manic depressive illness

(1) **bipolar** depression, (2) a **bipolar** semiconductor

The physician prescribed medication to treat **bipolar** disorder.

opportune

adj. suitable or happening at a time that is suitable or convenient for a particular purpose

synonym: suitable, timely, practical

(1) **opportune** occasion, (2) an **opportune** remark

The phone rang at the most **opportune** time.

statin

n. a type of drug used to lower cholesterol levels in the blood, typically by inhibiting an enzyme involved in

cholesterol production

synonym : cholesterol-lowering drug

(1) take a **statin** pill, (2) **statin** therapy

The side effects of **statins** can include muscle pain and weakness.

animate

v. to make something full of interest and energy

synonym : invigorate, energize, enliven

(1) **animate** the body, (2) **animate** his soul

The positive attitude of the supervisor **animated** the discussion.

grind

v. to reduce something to small particles or powder by crushing or rubbing it; to work hard over a long period of time

synonym : mill, crush, grate

(1) **grind** away at my work, (2) **grind** your teeth

She had to **grind** the coffee beans before making a fresh cup.

smoothie

n. a thick, blended beverage made from fruits, vegetables, and often other ingredients such as yogurt, milk, or protein powder; a person, typically a man, who is suave, charming, and polished

synonym : shake, smoothie, blended drink

(1) **smoothie** recipe, (2) fruit **smoothie**

She blended strawberries, yogurt, and ice to make a delicious **smoothie** for breakfast.

droplet

n. a small drop of liquid

synonym : bead, drip, dewdrop

(1) **droplet** size, (2) **droplet** formation

A single **droplet** of water can reflect the entire world upside down.

greet

v. to say hello to someone; to express welcome on meeting someone

synonym: welcome, salute, acknowledge

(1) **greet** a customer, (2) **greet** an idea

He **greeted** his friends with a warm smile and a hug.

inherit

v. to receive money, property, or a title from someone after they have died

synonym: obtain, gain, acquire

(1) **inherit** estate, (2) **inherit** ancestral property

After his death, his sons **inherited** his business.

trait

n. a particular feature of your nature

synonym: attribute, feature, quality

(1) chemical **trait**, (2) personality **traits**

Multiple genes may influence behavioral **traits** concurrently.

synapse

n. the fact or state of failing to finish an activity and of stopping using, making, or doing it

(1) **synapse** circuit, (2) end at a **synapse**

Animals transmit nerve impulses through **synapses**.

overdrive

n. a gear in a vehicle that allows the engine to operate at a higher speed than the vehicle's speed, resulting in greater fuel efficiency and smoother driving; (verb) to drive or work too hard

synonym: high gear, high speed, turbocharge

(1) atrial **overdrive** pacing, (2) go into **overdrive**

The car's **overdrive** function allows it to shift into a higher gear for better fuel efficiency on the highway.

excite

v. to make someone feel suddenly enthusiastic or eager

synonym: thrill, exhilarate, animate

(1) **excite** the crowd, (2) **excite** rebellion

The news of her promotion **excited** her.

neuron

n. a cell that is specialized to carry information within the brain and between the brain and other parts of the body

synonym : nerve cell

(1) excite the **neurons**, (2) **neuron** cell body

Our body transfers information along each **neuron** using an electrical impulse.

ascribe

v. to attribute something to a particular cause or source

synonym : attribute, credit, assign

(1) **ascribe** everything to nature, (2) **ascribe** my failure to bad luck

The project's success was **ascribed** to the team's hard work.

determinant

n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

synonym : cause, factor, element

(1) environmental **determinant**, (2) a **determinant** of crop yields

One **determinant** of success is having a positive attitude and a strong work ethic.

empathy

n. the ability to share another person's feelings or experiences by imagining that person's situation

synonym : compassion, sympathy, tenderness

(1) full of **empathy**, (2) **empathy** for patients

Empathy is also necessary to understand history.

limitless

adj. without end, limit, or boundary; infinite

synonym : boundless, infinite, unrestricted

(1) for a **limitless** time, (2) **limitless** potential

The possibilities for scientific discovery are **limitless**.

Session 2: Spelling

1. fruit sm_____ie *n.* a thick, blended beverage made from fruits, vegetables, and often other ingredients such as yogurt, milk, or protein powder; a person, typically a man, who is suave, charming, and polished
2. a det_____nt of crop yields *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
3. tha_____ing parade *n.* an annual holiday celebrated primarily in the United States and Canada, typically observed on the fourth Thursday in November in the U.S. and on the second Monday in October in Canada, that commemorates the giving of thanks for the blessings of the previous year
4. op_____ne occasion *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
5. ne____n cell body *n.* a cell that is specialized to carry information within the brain and between the brain and other parts of the body
6. full of em_____y *n.* the ability to share another person's feelings or experiences by imagining that person's situation

ANSWERS: 1. smoothie, 2. determinant, 3. thanksgiving, 4. opportune, 5. neuron, 6. empathy

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|-------------------------------------|---|
| 7. her_____ly saved | <i>adv.</i> in a way that shows great bravery, courage, or self-sacrifice |
| 8. ex___e the crowd | <i>v.</i> to make someone feel suddenly enthusiastic or eager |
| 9. traditional me_____al | <i>adj.</i> of or relating to the treatment or cure of disease |
| 10. take a st___n pill | <i>n.</i> a type of drug used to lower cholesterol levels in the blood, typically by inhibiting an enzyme involved in cholesterol production |
| 11. sy_____e circuit | <i>n.</i> the fact or state of failing to finish an activity and of stopping using, making, or doing it |
| 12. excite the ne___ns | <i>n.</i> a cell that is specialized to carry information within the brain and between the brain and other parts of the body |
| 13. as_____e my failure to bad luck | <i>v.</i> to attribute something to a particular cause or source |
| 14. sch_____nia treatment | <i>n.</i> a severe mental disorder in which a person has a distorted view of reality and may experience hallucinations, delusions, and disordered thinking and behavior |
| 15. atrial ov_____ve pacing | <i>n.</i> a gear in a vehicle that allows the engine to operate at a higher speed than the vehicle's speed, resulting in greater fuel efficiency and smoother driving; (verb) to drive or work too hard |

ANSWERS: 7. heroically, 8. excite, 9. medicinal, 10. statin, 11. synapse, 12. neuron, 13. ascribe, 14. schizophrenia, 15. overdrive

16. dr____t size *n.* a small drop of liquid
17. gr__d away at my work *v.* to reduce something to small particles or powder by crushing or rubbing it; to work hard over a long period of time
18. dr____t formation *n.* a small drop of liquid
19. sm____ie recipe *n.* a thick, blended beverage made from fruits, vegetables, and often other ingredients such as yogurt, milk, or protein powder; a person, typically a man, who is suave, charming, and polished
20. an____e the body *v.* to make something full of interest and energy
21. ex____e rebellion *v.* to make someone feel suddenly enthusiastic or eager
22. go into ov____ve *n.* a gear in a vehicle that allows the engine to operate at a higher speed than the vehicle's speed, resulting in greater fuel efficiency and smoother driving; (verb) to drive or work too hard
23. gr__d your teeth *v.* to reduce something to small particles or powder by crushing or rubbing it; to work hard over a long period of time
24. vi____us spirit *adj.* lively, energetic, and full of positive spirit or enthusiasm; animated and outgoing in one's behavior and demeanor
25. me____al chemistry *adj.* of or relating to the treatment or cure of disease

ANSWERS: 16. droplet, 17. grind, 18. droplet, 19. smoothie, 20. animate, 21. excite, 22. overdrive, 23. grind, 24. vivacious, 25. medicinal

26. tha_____ing traditions *n.* an annual holiday celebrated primarily in the United States and Canada, typically observed on the fourth Thursday in November in the U.S. and on the second Monday in October in Canada, that commemorates the giving of thanks for the blessings of the previous year
27. personality tr__ts *n.* a particular feature of your nature
28. li_____ss potential *adj.* without end, limit, or boundary; infinite
29. bi_____r depression *adj.* of, relating to, or occurring in both polar regions; of or relating to manic depressive illness
30. for a li_____ss time *adj.* without end, limit, or boundary; infinite
31. in_____t estate *v.* to receive money, property, or a title from someone after they have died
32. in_____t ancestral property *v.* to receive money, property, or a title from someone after they have died
33. chemical tr__t *n.* a particular feature of your nature
34. an_____e his soul *v.* to make something full of interest and energy
35. as_____e everything to nature *v.* to attribute something to a particular cause or source
36. dis_____ze the whole country *v.* to disrupt or destroy the systematic order or function of something
37. gr__t an idea *v.* to say hello to someone; to express welcome on meeting someone

ANSWERS: 26. thanksgiving, 27. trait, 28. limitless, 29. bipolar, 30. limitless, 31. inherit, 32. inherit, 33. trait, 34. animate, 35. ascribe, 36. disorganize, 37. greet

38. environmental det_____nt *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
39. gr__t a customer *v.* to say hello to someone; to express welcome on meeting someone
40. an op_____ne remark *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
41. end at a sy_____e *n.* the fact or state of failing to finish an activity and of stopping using, making, or doing it
42. a bi_____r semiconductor *adj.* of, relating to, or occurring in both polar regions; of or relating to manic depressive illness
43. vi_____us laughter *adj.* lively, energetic, and full of positive spirit or enthusiasm; animated and outgoing in one's behavior and demeanor
44. sch_____nia spectrum disorder *n.* a severe mental disorder in which a person has a distorted view of reality and may experience hallucinations, delusions, and disordered thinking and behavior
45. em_____y for patients *n.* the ability to share another person's feelings or experiences by imagining that person's situation
46. st_____n therapy *n.* a type of drug used to lower cholesterol levels in the blood, typically by inhibiting an enzyme involved in cholesterol production

ANSWERS: 38. determinant, 39. greet, 40. opportune, 41. synapse, 42. bipolar, 43. vivacious, 44. schizophrenia, 45. empathy, 46. statin

47. fight her_____ly

adv. in a way that shows great bravery, courage, or self-sacrifice

48. dis_____zed the party

v. to disrupt or destroy the systematic order or function of something

ANSWERS: 47. heroically, 48. disorganize

Session 3: Fill in the Blanks

1. My family gathers together every year for _____ dinner.
n. an annual holiday celebrated primarily in the United States and Canada, typically observed on the fourth Thursday in November in the U.S. and on the second Monday in October in Canada, that commemorates the giving of thanks for the blessings of the previous year

2. After his death, his sons _____ his business.
v. to receive money, property, or a title from someone after they have died

3. The _____ properties of this herb have been known to help with various ailments.
adj. of or relating to the treatment or cure of disease

4. He _____ his friends with a warm smile and a hug.
v. to say hello to someone; to express welcome on meeting someone

5. Multiple genes may influence behavioral _____ concurrently.
n. a particular feature of your nature

6. One _____ of success is having a positive attitude and a strong work ethic.
n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

7. _____ is also necessary to understand history.
n. the ability to share another person's feelings or experiences by imagining that person's situation

ANSWERS: 1. thanksgiving, 2. inherited, 3. medicinal, 4. greeted, 5. traits, 6. determinant, 7. Empathy

8. The firefighter acted _____ to save the family from the burning building.
adv. in a way that shows great bravery, courage, or self-sacrifice
9. She had a _____ personality that lit up any room she entered.
adj. lively, energetic, and full of positive spirit or enthusiasm; animated and outgoing in one's behavior and demeanor
10. The side effects of _____ can include muscle pain and weakness.
n. a type of drug used to lower cholesterol levels in the blood, typically by inhibiting an enzyme involved in cholesterol production
11. A single _____ of water can reflect the entire world upside down.
n. a small drop of liquid
12. The possibilities for scientific discovery are _____.
adj. without end, limit, or boundary; infinite
13. The car's _____ function allows it to shift into a higher gear for better fuel efficiency on the highway.
n. a gear in a vehicle that allows the engine to operate at a higher speed than the vehicle's speed, resulting in greater fuel efficiency and smoother driving; (verb) to drive or work too hard
14. Our body transfers information along each _____ using an electrical impulse.
n. a cell that is specialized to carry information within the brain and between the brain and other parts of the body
15. She blended strawberries, yogurt, and ice to make a delicious _____ for breakfast.
n. a thick, blended beverage made from fruits, vegetables, and often other ingredients such as yogurt, milk, or protein powder; a person, typically a man, who is suave, charming, and polished

ANSWERS: 8. heroically, 9. vivacious, 10. statins, 11. droplet, 12. limitless, 13. overdrive, 14. neuron, 15. smoothie

16. The positive attitude of the supervisor _____ the discussion.

v. to make something full of interest and energy

17. The phone rang at the most _____ time.

adj. suitable or happening at a time that is suitable or convenient for a particular purpose

18. She had to _____ the coffee beans before making a fresh cup.

v. to reduce something to small particles or powder by crushing or rubbing it; to work hard over a long period of time

19. His betrayal _____ the company completely.

v. to disrupt or destroy the systematic order or function of something

20. The physician prescribed medication to treat _____ disorder.

adj. of, relating to, or occurring in both polar regions; of or relating to manic depressive illness

21. Animals transmit nerve impulses through _____.

n. the fact or state of failing to finish an activity and of stopping using, making, or doing it

22. The news of her promotion _____ her.

v. to make someone feel suddenly enthusiastic or eager

23. The project's success was _____ to the team's hard work.

v. to attribute something to a particular cause or source

24. The _____ patient was experiencing severe auditory hallucinations.

n. a severe mental disorder in which a person has a distorted view of reality and may experience hallucinations, delusions, and disordered thinking and behavior

ANSWERS: 16. animated, 17. opportune, 18. grind, 19. disorganized, 20. bipolar, 21. synapses, 22. excited, 23. ascribed, 24. schizophrenia

ANSWERS: