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Vocabulary Builder Reference from...

Rodney Brooks: Why we will rely on robots | TED Talk

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

Advanced Words Only

IMPORTANT

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Session 1: Word List

Arthurian

adj. relating to king Arthur and the tales and legends associated with him

(1) the **Arthurian** cycle, (2) **Arthurian** romances

The **Arthurian** legends of King Arthur and the knights of the Round Table are popular literary motifs.

overestimate

v. to estimate something to be greater in amount or importance than it really is

synonym: overrate, overvalue, embellish

(1) **overestimate** the value, (2) **overestimate** the amount of time spent

He tends to **overestimate** his abilities.

underestimate

v. to think or suppose that a quantity, price, or size is smaller than it is

synonym: underrate, misjudge, miscalculate

(1) **underestimate** an enemy, (2) **underestimate** the probability

They frequently **underestimated** their abilities and felt inferior.

mainframe

n. a large and powerful computer with a lot of memory used primarily by large organizations for critical

applications

(1) **mainframe** computer, (2) **mainframe** operating system
IBM has consistently been a significant supplier of **mainframes** for a long time.

reindeer

n. a large deer with branched antlers found in northern regions, often domesticated and used for transportation or as a source of food

synonym: caribou, elk, deer

(1) red-nosed **reindeer**, (2) domesticated **reindeer**

The Sami people have been herding **reindeer** in the Arctic for centuries, using them for food, transportation, and clothing.

mundane

adj. very ordinary and therefore lacking interest or excitement

synonym: ordinary, everyday, prosaic

(1) **mundane** affairs, (2) **mundane** objects

After returning from the war, he had a pretty **mundane** life.

poke

v. to push or prod with a sharp object or the finger

synonym: prod, jab, push

(1) **poke** around the desk, (2) **poke** a fire

They **poked** fun at each other's jokes, laughing and teasing.

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.

ubiquitous

adj. being or existing everywhere at once

synonym: universal, omnipresent, everywhere

(1) **ubiquitous** computing, (2) **ubiquitous** across ecosystems

Sugar is **ubiquitous** in food.

quaternion

n. a mathematical concept consisting of a set of four numbers or quantities used to represent rotation or orientation in three-dimensional space, often used in computer graphics, robotics, and physics

synonym : quad, four, tetrad

(1) **quaternion** rotation, (2) **quaternion** algebra

When working in computer graphics, using a **quaternion** representation can help prevent gimbal lock, a problem faced with Euler angles.

displace

v. to force someone or something to leave their home or place of origin, especially as a result of conflict, natural disaster, or manipulation

synonym : evict, exile, remove

(1) **displace** workers, (2) **displace** the explosive power

The construction of the new dam will **displace** hundreds of families living downstream.

rethink

v. to consider again a plan, idea, etc., especially to change it

synonym : reexplore, review, reconsider

(1) **rethink** a marketing plan, (2) **rethink** the role of the manager

We have to **rethink** our company's product lineup for further growth.

robotic

adj. of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots

synonym : automated, mechanical, laborsaving

(1) **robotic** arm, (2) **robotic** guide operation

The surgeon removed the tumor using **robotic** video assistance.

infer

v. to form an opinion or conclude that something is true based on existing facts

synonym : guess, deduce, assume

(1) **infer** quality from price, (2) **infer** the possibility
Animal desire and preference are always **inferred** from their behavior.

beforehand

adv. ahead of time; in advance

synonym: in advance, preceding, earlier

(1) take a seat **beforehand**, (2) three months **beforehand**
She packed her sunscreen **beforehand** to remember it on the beach trip.

volition

n. the power or ability to make choices or decisions by one's own will or conscious choice; the act of consciously choosing or deciding

synonym: choice, decision, free will

(1) **volition** level, (2) freedom of **volition**

He canceled the meeting of his own **volition** as he thought it was unnecessary.

frail

adj. weak, delicate, and easily broken or worn out; lacking physical, mental, or emotional strength

synonym: weak, delicate, fragile

(1) **frail** body, (2) **frail** condition

My grandfather's health has declined, and he is now quite **frail**.

caregiving

n. the act of providing care and support for someone who is ill, disabled, or elderly

synonym: nurturing, caring, assisting

(1) **caregiving** process, (2) **caregiving** responsibilities

She devoted her life to **caregiving**, looking after her aging parents.

Session 2: Spelling

1. di____ce the explosive power *v.* to force someone or something to leave their home or place of origin, especially as a result of conflict, natural disaster, or manipulation
2. in__r quality from price *v.* to form an opinion or conclude that something is true based on existing facts
3. ro____c arm *adj.* of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
4. fr__l body *adj.* weak, delicate, and easily broken or worn out; lacking physical, mental, or emotional strength
5. qua_____on algebra *n.* a mathematical concept consisting of a set of four numbers or quantities used to represent rotation or orientation in three-dimensional space, often used in computer graphics, robotics, and physics
6. the Ar_____an cycle *adj.* relating to king Arthur and the tales and legends associated with him
7. traditional me_____al *adj.* of or relating to the treatment or cure of disease
8. ma_____me operating system *n.* a large and powerful computer with a lot of memory used primarily by large organizations for critical applications

ANSWERS: 1. displace, 2. infer, 3. robotic, 4. frail, 5. quaternion, 6. Arthurian, 7. medicinal, 8. mainframe

9. und_____ate an enemy *v.* to think or suppose that a quantity, price, or size is smaller than it is
10. ma_____me computer *n.* a large and powerful computer with a lot of memory used primarily by large organizations for critical applications
11. take a seat bef_____nd *adv.* ahead of time; in advance
12. qua_____on rotation *n.* a mathematical concept consisting of a set of four numbers or quantities used to represent rotation or orientation in three-dimensional space, often used in computer graphics, robotics, and physics
13. p__e around the desk *v.* to push or prod with a sharp object or the finger
14. mu_____e objects *adj.* very ordinary and therefore lacking interest or excitement
15. ove_____ate the amount of time spent *v.* to estimate something to be greater in amount or importance than it really is
16. Ar_____an romances *adj.* relating to king Arthur and the tales and legends associated with him
17. three months bef_____nd *adv.* ahead of time; in advance
18. ubi_____us across ecosystems *adj.* being or existing everywhere at once
19. re_____k the role of the manager *v.* to consider again a plan, idea, etc., especially to change it
20. p__e a fire *v.* to push or prod with a sharp object or the finger
21. fr__l condition *adj.* weak, delicate, and easily broken or worn out; lacking physical, mental, or emotional strength

ANSWERS: 9. underestimate, 10. mainframe, 11. beforehand, 12. quaternion, 13. poke, 14. mundane, 15. overestimate, 16. Arthurian, 17. beforehand, 18. ubiquitous, 19. rethink, 20. poke, 21. frail

22. freedom of vo_____on *n.* the power or ability to make choices or decisions by one's own will or conscious choice; the act of consciously choosing or deciding
23. me_____al chemistry *adj.* of or relating to the treatment or cure of disease
24. car_____ng process *n.* the act of providing care and support for someone who is ill, disabled, or elderly
25. ove_____ate the value *v.* to estimate something to be greater in amount or importance than it really is
26. domesticated re_____er *n.* a large deer with branched antlers found in northern regions, often domesticated and used for transportation or as a source of food
27. ubi_____us computing *adj.* being or existing everywhere at once
28. red-nosed re_____er *n.* a large deer with branched antlers found in northern regions, often domesticated and used for transportation or as a source of food
29. in__r the possibility *v.* to form an opinion or conclude that something is true based on existing facts
30. mu_____e affairs *adj.* very ordinary and therefore lacking interest or excitement
31. ro_____c guide operation *adj.* of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
32. di_____ce workers *v.* to force someone or something to leave their home or place of origin, especially as a result of conflict, natural disaster, or manipulation

ANSWERS: 22. volition, 23. medicinal, 24. caregiving, 25. overestimate, 26. reindeer, 27. ubiquitous, 28. reindeer, 29. infer, 30. mundane, 31. robotic, 32. displace

33. re____k a marketing plan *v.* to consider again a plan, idea, etc., especially to change it
34. car_____ng responsibilities *n.* the act of providing care and support for someone who is ill, disabled, or elderly
35. und_____ate the probability *v.* to think or suppose that a quantity, price, or size is smaller than it is
36. vo_____on level *n.* the power or ability to make choices or decisions by one's own will or conscious choice; the act of consciously choosing or deciding

ANSWERS: 33. rethink, 34. caregiving, 35. underestimate, 36. volition

Session 3: Fill in the Blanks

1. IBM has consistently been a significant supplier of _____ for a long time.
n. a large and powerful computer with a lot of memory used primarily by large organizations for critical applications
2. She packed her sunscreen _____ to remember it on the beach trip.
adv. ahead of time; in advance
3. She devoted her life to _____ looking after her aging parents.
n. the act of providing care and support for someone who is ill, disabled, or elderly
4. The _____ properties of this herb have been known to help with various ailments.
adj. of or relating to the treatment or cure of disease
5. The surgeon removed the tumor using _____ video assistance.
adj. of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
6. My grandfather's health has declined, and he is now quite _____.
adj. weak, delicate, and easily broken or worn out; lacking physical, mental, or emotional strength
7. The Sami people have been herding _____ in the Arctic for centuries, using them for food, transportation, and clothing.
n. a large deer with branched antlers found in northern regions, often domesticated and used for transportation or as a source of food

ANSWERS: 1. mainframes, 2. beforehand, 3. caregiving, 4. medicinal, 5. robotic, 6. frail, 7. reindeer

8. The construction of the new dam will _____ hundreds of families living downstream.
- v. to force someone or something to leave their home or place of origin, especially as a result of conflict, natural disaster, or manipulation
9. After returning from the war, he had a pretty _____ life.
- adj. very ordinary and therefore lacking interest or excitement
10. He tends to _____ his abilities.
- v. to estimate something to be greater in amount or importance than it really is
11. He canceled the meeting of his own _____ as he thought it was unnecessary.
- n. the power or ability to make choices or decisions by one's own will or conscious choice; the act of consciously choosing or deciding
12. Animal desire and preference are always _____ from their behavior.
- v. to form an opinion or conclude that something is true based on existing facts
13. They frequently _____ their abilities and felt inferior.
- v. to think or suppose that a quantity, price, or size is smaller than it is
14. They _____ fun at each other's jokes, laughing and teasing.
- v. to push or prod with a sharp object or the finger
15. We have to _____ our company's product lineup for further growth.
- v. to consider again a plan, idea, etc., especially to change it
16. When working in computer graphics, using a _____ representation can help prevent gimbal lock, a problem faced with Euler angles.
- n. a mathematical concept consisting of a set of four numbers or quantities used to represent rotation or orientation in three-dimensional space, often used in computer graphics, robotics, and physics

ANSWERS: 8. displace, 9. mundane, 10. overestimate, 11. volition, 12. inferred, 13. underestimated, 14. poked, 15. rethink, 16. quaternion

17. The _____ legends of King Arthur and the knights of the Round Table are popular literary motifs.

adj. relating to king Arthur and the tales and legends associated with him

18. Sugar is _____ in food.

adj. being or existing everywhere at once

ANSWERS: 17. Arthurian, 18. ubiquitous