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Vocabulary Builder Reference from...

Jeff Dean: AI isn't as smart as you think -- but it could be | TED Talk

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

Advanced Words Only

IMPORTANT

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Session 1: Word List

- alto** *n.* the second-highest vocal range in choral music, typically sung by the second-highest singers in a choir; a type of saxophone
synonym: contralto, countertenor, soprano
(1) **alto** saxophone, (2) an **alto** solo
The **alto** singer had a unique and powerful voice.
- underlie** *v.* to be the support, basis, hidden cause of something; to be located under or below
synonym: govern, control, determine
(1) **underlie** the theory of the big bang, (2) **underlie** the current economic deadlock
His bitter experiences **underlie** his moral principles.
- interconnect** *v.* to connect similar things
synonym: interlink, connect, annex
(1) directly **interconnect** with those systems, (2) human activities **interconnect** with the environment
Our system can now **interconnect** with other databases.
- 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.

emulate

v. to imitate someone else's achievements to try to do something as well as somebody else

synonym: impersonate, mimic, imitate

(1) **emulate** a successful business model, (2) **emulate** his watercolors

They intend to **emulate** the footsteps of successful software companies.

hone

v. to sharpen or perfect something; to improve a skill or ability through practice

synonym: sharpen, refine, perfect

(1) **hone** abilities, (2) **hone** intuition

The athlete worked with a coach to **hone** her techniques and improve her performance.

improvisation

n. the act of making something up on the spot or creating or performing something without preparation

synonym: spontaneity, ad-lib, extemporization

(1) **improvisation** on stage, (2) jazz **improvisation**

He created a beautiful piece of music using only **improvisation**.

curate

n. a clergyman who is in charge of a parish; a person in charge of a museum, gallery, or church, responsible for the care and display of its collections and exhibitions; (verb) to carefully select, organize, and maintain items in a collection, exhibition, or presentation

synonym: minister, caretaker, (verb) arrange

(1) perpetual **curate**, (2) **curate** an art website

The art museum has hired a **curate** to select and display pieces from its collection.

initialize

v. to set the value in a computer program so that it is ready to operate; divide a disk into marked sectors so that it may store data

synonym : boot up, boot, load

(1) **initialize** an array, (2) **initialize** a PC

He **initialized** a magnetic disk to write data on it.

hydroponic

adj. relating to the cultivation of plants in nutrient-rich water instead of soil, often using specialized equipment or systems to optimize growth and production

synonym : soilless, aquaponic, aquacultural

(1) **hydroponic** vegetables, (2) **hydroponic** farm

The **hydroponic** garden in my kitchen allows me to grow fresh herbs and vegetables year-round.

multitasking

n. the ability to do more than one task at the same time; the state of doing more than one task at the same time

synonym : juggling, multihandling, parallelism

(1) computer **multitasking**, (2) **multitasking** ability

She could finish all her work on time because of her **multitasking** skills.

fuse

n. a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat

synonym : (verb) melt, (verb) blend

(1) **fuse** blows, (2) **fuse** with one another

He has a short **fuse**.

leopard

n. a large wild cat that has yellow-brown fur with black spots and lives in Africa and southern Asia

(1) snow **leopard**, (2) **leopard** print

Leopards lurked in the grass to catch their prey.

nonhuman

adj. not human; belonging to or characteristic of animals or things rather than people

synonym : inhuman, animal, artificial

(1) **nonhuman** species, (2) **nonhuman** intelligence

The experiment was conducted on **nonhuman** primates.

sonnet

n. a 14-line poem, typically with a formal rhyme scheme

synonym : poetic form, 14-line verse

(1) **sonnet** poetry, (2) Shakespeare's **sonnets**

The poet wrote a **sonnet** to express his love for his wife.

sparsely

adv. occurring, existing, or situated at wide intervals; in a scattered or thinly populated manner; with a low density or concentration

synonym : rarely, thinly

(1) **sparsely** attended, (2) **sparsely** decorated

The town was **sparsely** populated, with only a few houses scattered around the area.

sparse

adj. only in small quantities or numbers and often spread over a wide area

synonym : scarce, exiguous, infrequent

(1) a **sparse** population, (2) **sparse** snowfall

There is a **sparse** area between galaxies.

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.

infuse

v. to fill something with a particular quality, feeling, or influence; to imbue

synonym : instill, fill, permeate

(1) **infuse** with spirit, (2) **infuse** life with meaning

She **infused** fresh herbs into the soup for added flavor.

individualize

v. to make something personal or more personal to suit the needs of a particular person, place, etc.

synonym : personalize, differentiate

(1) **individualize** each patient, (2) **individualize** dosages

Our schools offer **individualized** education by excellent teachers.

multidisciplinary

adj. integrating or involving various academic fields or different skills in a topic or problem-solving approach

synonym : integrative, interdisciplinary

(1) **multidisciplinary** project, (2) **multidisciplinary** analysis

He adopted a **multidisciplinary** research approach to unravel complex phenomena.

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.

generalize

v. to make something, such as a theory, idea, etc., more widespread or widely applicable based on what is true in some cases

synonym : conclude, derive, extrapolate

(1) **generalize** Kepler's first law, (2) **generalize**

sophisticatedly

It's dangerous to **generalize** about people.

effortless

adj. requiring little or no effort; not difficult or strenuous; easy to accomplish

synonym : easy, simple, uncomplicated

(1) **effortless** victory, (2) **effortless** beauty

The dancer made her performance look **effortless** and graceful.

terrifying

adj. very frightening or intimidating

synonym : frightening, intimidating, alarming

(1) **terrifying** experience, (2) **terrifying** events
Large earthquakes often generate **terrifying** tsunamis.

unintended

adj. not planned or meant

synonym: accidental, unconsenting, involuntary

(1) **unintended** bias, (2) **unintended** misunderstanding
Excessive human interference in the global environment may bring **unintended** consequences.

machine-learning

n. the process through which computers change the way they perform jobs without following explicit instructions by using algorithms and statistical models to analyze and draw inferences from patterns in data

(1) **machine-learning** method, (2) **machine-learning** processor

Many software engineers are developing applications to build **machine-learning** algorithms more quickly.

augment

v. to increase the size, extent, quantity, etc. of something by adding something to it

synonym: boost, increase, expand

(1) **augment** the reality, (2) **augment** immunity

Economic factors and monetary policy **augmented** inflation.

wriggle

v. to twist and turn with quick, writhing motions; to move in a twisting or contorting manner

synonym: squirm, jerk, twist

(1) **wriggle** free, (2) **wriggle** in surprise

The child started to **wriggle** out of their seatbelt during the long car ride.

Session 2: Spelling

1. a sp___e population *adj.* only in small quantities or numbers and often spread over a wide area
2. mul_____ary analysis *adj.* integrating or involving various academic fields or different skills in a topic or problem-solving approach
3. ind_____ize each patient *v.* to make something personal or more personal to suit the needs of a particular person, place, etc.
4. jazz imp_____ion *n.* the act of making something up on the spot or creating or performing something without preparation
5. ex___e the crowd *v.* to make someone feel suddenly enthusiastic or eager
6. computer mul_____ing *n.* the ability to do more than one task at the same time; the state of doing more than one task at the same time
7. sp_____ly attended *adv.* occurring, existing, or situated at wide intervals; in a scattered or thinly populated manner; with a low density or concentration
8. cu___e an art website *n.* a clergyman who is in charge of a parish; a person in charge of a museum, gallery, or church, responsible for the care and display of its collections and exhibitions; (verb) to carefully select, organize, and maintain items in a collection, exhibition, or presentation

ANSWERS: 1. sparse, 2. multidisciplinary, 3. individualize, 4. improvisation, 5. excite, 6. multitasking, 7. sparsely, 8. curate

9. no____an species *adj.* not human; belonging to or characteristic of animals or things rather than people
10. in___e life with meaning *v.* to fill something with a particular quality, feeling, or influence; to imbue
11. ter_____ng experience *adj.* very frightening or intimidating
12. excite the ne___ns *n.* a cell that is specialized to carry information within the brain and between the brain and other parts of the body
13. sp___e snowfall *adj.* only in small quantities or numbers and often spread over a wide area
14. gen_____ze sophisticatedly *v.* to make something, such as a theory, idea, etc., more widespread or widely applicable based on what is true in some cases
15. me_____al chemistry *adj.* of or relating to the treatment or cure of disease
16. ini_____ze a PC *v.* to set the value in a computer program so that it is ready to operate; divide a disk into marked sectors so that it may store data
17. in___e with spirit *v.* to fill something with a particular quality, feeling, or influence; to imbue
18. eff_____ss victory *adj.* requiring little or no effort; not difficult or strenuous; easy to accomplish
19. f___e blows *n.* a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat

ANSWERS: 9. nonhuman, 10. infuse, 11. terrifying, 12. neuron, 13. sparse, 14. generalize, 15. medicinal, 16. initialize, 17. infuse, 18. effortless, 19. fuse

20. an a__o solo *n.* the second-highest vocal range in choral music, typically sung by the second-highest singers in a choir; a type of saxophone
21. so___t poetry *n.* a 14-line poem, typically with a formal rhyme scheme
22. em_____e a successful business model *v.* to imitate someone else's achievements to try to do something as well as somebody else
23. directly int_____ect with those systems *v.* to connect similar things
24. ini_____ze an array *v.* to set the value in a computer program so that it is ready to operate; divide a disk into marked sectors so that it may store data
25. au_____t immunity *v.* to increase the size, extent, quantity, etc. of something by adding something to it
26. mac_____ing processor *n.* the process through which computers change the way they perform jobs without following explicit instructions by using algorithms and statistical models to analyze and draw inferences from patterns in data
27. ex___e rebellion *v.* to make someone feel suddenly enthusiastic or eager
28. au_____t the reality *v.* to increase the size, extent, quantity, etc. of something by adding something to it

ANSWERS: 20. alto, 21. sonnet, 22. emulate, 23. interconnect, 24. initialize, 25. augment, 26. machine-learning, 27. excite, 28. augment

29. le____d print *n.* a large wild cat that has yellow-brown fur with black spots and lives in Africa and southern Asia
30. f__e with one another *n.* a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat
31. uni_____ed bias *adj.* not planned or meant
32. un_____ie the current economic deadlock *v.* to be the support, basis, hidden cause of something; to be located under or below
33. h__e abilities *v.* to sharpen or perfect something; to improve a skill or ability through practice
34. mac_____ing method *n.* the process through which computers change the way they perform jobs without following explicit instructions by using algorithms and statistical models to analyze and draw inferences from patterns in data
35. ind_____ize dosages *v.* to make something personal or more personal to suit the needs of a particular person, place, etc.
36. no_____an intelligence *adj.* not human; belonging to or characteristic of animals or things rather than people
37. uni_____ed misunderstanding *adj.* not planned or meant
38. a__o saxophone *n.* the second-highest vocal range in choral music, typically sung by the second-highest singers in a choir; a type of saxophone

ANSWERS: 29. leopard, 30. fuse, 31. unintended, 32. underlie, 33. hone, 34. machine-learning, 35. individualize, 36. nonhuman, 37. unintended, 38. alto

39. mul_____ary project *adj.* integrating or involving various academic fields or different skills in a topic or problem-solving approach
40. wr_____e free *v.* to twist and turn with quick, writhing motions; to move in a twisting or contorting manner
41. eff_____ss beauty *adj.* requiring little or no effort; not difficult or strenuous; easy to accomplish
42. sp_____ly decorated *adv.* occurring, existing, or situated at wide intervals; in a scattered or thinly populated manner; with a low density or concentration
43. em_____e his watercolors *v.* to imitate someone else's achievements to try to do something as well as somebody else
44. human activities int_____ect with the environment *v.* to connect similar things
45. perpetual cu_____e *n.* a clergyman who is in charge of a parish; a person in charge of a museum, gallery, or church, responsible for the care and display of its collections and exhibitions; (verb) to carefully select, organize, and maintain items in a collection, exhibition, or presentation
46. snow le_____d *n.* a large wild cat that has yellow-brown fur with black spots and lives in Africa and southern Asia
47. Shakespeare's so_____ts *n.* a 14-line poem, typically with a formal rhyme scheme

ANSWERS: 39. multidisciplinary, 40. wriggle, 41. effortless, 42. sparsely, 43. emulate, 44. interconnect, 45. curate, 46. leopard, 47. sonnet

48. hyd_____ic vegetables *adj.* relating to the cultivation of plants in nutrient-rich water instead of soil, often using specialized equipment or systems to optimize growth and production
49. imp_____ion on stage *n.* the act of making something up on the spot or creating or performing something without preparation
50. wr_____e in surprise *v.* to twist and turn with quick, writhing motions; to move in a twisting or contorting manner
51. traditional me_____al *adj.* of or relating to the treatment or cure of disease
52. ter_____ng events *adj.* very frightening or intimidating
53. 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
54. h__e intuition *v.* to sharpen or perfect something; to improve a skill or ability through practice
55. un_____ie the theory of the big bang *v.* to be the support, basis, hidden cause of something; to be located under or below
56. gen_____ze Kepler's first law *v.* to make something, such as a theory, idea, etc., more widespread or widely applicable based on what is true in some cases
57. hyd_____ic farm *adj.* relating to the cultivation of plants in nutrient-rich water instead of soil, often using specialized equipment or systems to optimize growth and production

ANSWERS: 48. hydroponic, 49. improvisation, 50. wriggle, 51. medicinal, 52. terrifying, 53. neuron, 54. hone, 55. underlie, 56. generalize, 57. hydroponic

58. mul_____ing ability

n. the ability to do more than one task at the same time; the state of doing more than one task at the same time

ANSWERS: 58. multitasking

Session 3: Fill in the Blanks

1. The _____ garden in my kitchen allows me to grow fresh herbs and vegetables year-round.
adj. relating to the cultivation of plants in nutrient-rich water instead of soil, often using specialized equipment or systems to optimize growth and production
2. Our system can now _____ with other databases.
v. to connect similar things
3. The poet wrote a _____ to express his love for his wife.
n. a 14-line poem, typically with a formal rhyme scheme
4. Excessive human interference in the global environment may bring _____ consequences.
adj. not planned or meant
5. The athlete worked with a coach to _____ her techniques and improve her performance.
v. to sharpen or perfect something; to improve a skill or ability through practice
6. The experiment was conducted on _____ primates.
adj. not human; belonging to or characteristic of animals or things rather than people
7. The _____ singer had a unique and powerful voice.
n. the second-highest vocal range in choral music, typically sung by the second-highest singers in a choir; a type of saxophone

ANSWERS: 1. hydroponic, 2. interconnect, 3. sonnet, 4. unintended, 5. hone, 6. nonhuman, 7. alto

8. The _____ properties of this herb have been known to help with various ailments.

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

9. It's dangerous to _____ about people.

v. to make something, such as a theory, idea, etc., more widespread or widely applicable based on what is true in some cases

10. There is a _____ area between galaxies.

adj. only in small quantities or numbers and often spread over a wide area

11. The art museum has hired a _____ to select and display pieces from its collection.

n. a clergyman who is in charge of a parish; a person in charge of a museum, gallery, or church, responsible for the care and display of its collections and exhibitions; (verb) to carefully select, organize, and maintain items in a collection, exhibition, or presentation

12. The dancer made her performance look _____ and graceful.

adj. requiring little or no effort; not difficult or strenuous; easy to accomplish

13. Large earthquakes often generate _____ tsunamis.

adj. very frightening or intimidating

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. The news of her promotion _____ her.

v. to make someone feel suddenly enthusiastic or eager

ANSWERS: 8. medicinal, 9. generalize, 10. sparse, 11. curate, 12. effortless, 13. terrifying, 14. neuron, 15. excited

16. The child started to _____ out of their seatbelt during the long car ride.
- v. to twist and turn with quick, writhing motions; to move in a twisting or contorting manner
17. He created a beautiful piece of music using only _____.
- n. the act of making something up on the spot or creating or performing something without preparation
18. Our schools offer _____ education by excellent teachers.
- v. to make something personal or more personal to suit the needs of a particular person, place, etc.
19. Economic factors and monetary policy _____ inflation.
- v. to increase the size, extent, quantity, etc. of something by adding something to it
20. The town was _____ populated, with only a few houses scattered around the area.
- adv. occurring, existing, or situated at wide intervals; in a scattered or thinly populated manner; with a low density or concentration
21. She _____ fresh herbs into the soup for added flavor.
- v. to fill something with a particular quality, feeling, or influence; to imbue
22. Many software engineers are developing applications to build _____ algorithms more quickly.
- n. the process through which computers change the way they perform jobs without following explicit instructions by using algorithms and statistical models to analyze and draw inferences from patterns in data

ANSWERS: 16. wriggle, 17. improvisation, 18. individualized, 19. augmented, 20. sparsely, 21. infused, 22. machine-learning

23. They intend to _____ the footsteps of successful software companies.
- v.* to imitate someone else's achievements to try to do something as well as somebody else
24. His bitter experiences _____ his moral principles.
- v.* to be the support, basis, hidden cause of something; to be located under or below
25. _____ lurked in the grass to catch their prey.
- n.* a large wild cat that has yellow-brown fur with black spots and lives in Africa and southern Asia
26. She could finish all her work on time because of her _____ skills.
- n.* the ability to do more than one task at the same time; the state of doing more than one task at the same time
27. He adopted a _____ research approach to unravel complex phenomena.
- adj.* integrating or involving various academic fields or different skills in a topic or problem-solving approach
28. He has a short _____.
- n.* a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat
29. He _____ a magnetic disk to write data on it.
- v.* to set the value in a computer program so that it is ready to operate; divide a disk into marked sectors so that it may store data

ANSWERS: 23. emulate, 24. underlie, 25. Leopards, 26. multitasking, 27. multidisciplinary, 28. fuse, 29. initialized

ANSWERS: