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Vocabulary Builder Reference from...

Sean Follmer: Shape-shifting tech will change work as we know it | TED Talk

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

Advanced Words Only

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Session 1: Word List

ancestor

n. a person from whom one is descended; a forefather
synonym: forebear, forefather, progenitor

(1) **ancestor** language, (2) earliest human **ancestor**

My remote **ancestor** immigrated to the United States from Ireland in the 1800s.

ax

n. a tool with a metal blade that is usually attached to a wooden handle and is used for chopping wood or other materials

synonym: hatchet, chopper, tomahawk

(1) chop wood with an **ax**, (2) an **ax** in the toolbox

He used an **ax** to chop the firewood for the campfire.

sculpt

v. to create a work of art by carving, casting, or other shaping techniques

synonym: carve, mold, shape

(1) **sculpt** an image, (2) **sculpt** prototype

He spent hours every day **sculpting** figures out of clay.

dexterity

n. skill and speed in performing physical tasks, especially with the hands; mental skill or adroitness in dealing with situations or problems

synonym: skillfulness, agility, expertise

(1) **dexterity** with the pen, (2) manual **dexterity**
The surgeon's **dexterity** was impressive during the delicate surgery.

adept

adj. having or showing knowledge and skill and aptitude to do something quite difficult

synonym: proficient, masterful, experienced

(1) **adept** at fishing, (2) **adept** in handicrafts

She is highly **adept** with medical equipment.

visualize

v. to form a mental image or concept of something; to make something visible

synonym: imagine, picture, envision

(1) **visualize** data, (2) **visualize** flying through space

She tried to **visualize** the layout of the new house in her mind.

deformation

n. the process of changing the physical shape or form of something, usually due to external forces or pressure

synonym: distortion, warping, contortion

(1) **deformation** at room temperature, (2) **deformation** of structures

Various factors, including pressure, temperature, and the application of external forces, can cause the **deformation** of rocks.

tang

n. a strong, sharp taste or smell; a perceptible or distinctive flavor or aftertaste; a metallic ringing or sound

synonym: flavor, taste, zest

(1) metallic **tang**, (2) the **tang** of a lemon

The **tang** of the ocean breeze was refreshing on a hot summer day.

actuate

v. to cause a machine or equipment to start to work

synonym: motivate, spark, drive

(1) **actuate** the circuits, (2) **actuate** a parking brake

A desire for success **actuated** her.

sweatshop

n. a factory or workshop where workers are employed at very low wages and under poor conditions, often characterized by long hours, low pay, and hazardous working conditions

(1) **sweatshop** conditions, (2) **sweatshop** labor

Activists have been pushing for legislation to ban the use of **sweatshops** in the garment industry.

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.

haptic

adj. of or relating to or involving the sense of touch
synonym: tactile, tactual

(1) **haptic** perception, (2) **haptic** feedback

The player controls the game with a joystick or other **haptic** device.

tactile

adj. relating to the sense of touch; tangible or perceptible through the sense of touch
synonym: touchable, tangible, palpable

(1) **tactile** stimulation, (2) **tactile** feedback

The **tactile** sensation of the fabric was soft and smooth to the touch.

embed

v. to fix or set firmly in a surrounding mass
synonym: entrench, fix, set

(1) **embed** scripts in the message, (2) **embed** a sensor

The company **embedded** a tracking code in the product's packaging to monitor its shipment.

pneumatic

adj. relating to or using air or gas under pressure, particularly in machinery or devices; operated by compressed air or gas

synonym : air-powered, gas-pressure, compressed-air

(1) **pneumatic** tire, (2) **pneumatic** cylinder

The mechanic used a **pneumatic** drill to repair the engine.

morph

v. to change or cause to change something or someone smoothly and gradually from one thing to another

synonym : alter, modify, transform

(1) **morph** into a different shape, (2) **morph** into something entirely different

This company **morphed** into an enterprise company.

wristband

n. a strip of material worn around the wrist for decoration, support, or identification purposes

synonym : bracelet, sweatband, wristlet

(1) **wristband** watch, (2) festival **wristband**

The nightclub bouncer checked the **wristbands** of everyone entering the premises to ensure their age.

ken

n. knowledge, perception, understanding, or range of sight; (verb) to be aware of or know

synonym : knowledge, understanding, familiarity

(1) within my **ken**, (2) **ken** of the person

He had a good **ken** of the city and could easily find his way around.

servo

n. a type of motor or mechanism used to control the position or movement of a machine or device, often used in robotics, automation, and other applications

synonym : actuator, motor, controller

(1) analog **servo**, (2) **servo** controller

A **servo** motor controlled the robot's movements.

deform

v. to change or distort the shape or appearance of something; to become misshapen or distorted

synonym : distort, contort, mangle

(1) **deform** the shape, (2) **deform** his way of life

The heat from the fire **deformed** the plastic parts of the appliance.

Session 2: Spelling

1. ta____e feedback *adj.* relating to the sense of touch; tangible or perceptible through the sense of touch
2. analog se__o *n.* a type of motor or mechanism used to control the position or movement of a machine or device, often used in robotics, automation, and other applications
3. ta____e stimulation *adj.* relating to the sense of touch; tangible or perceptible through the sense of touch
4. de____m the shape *v.* to change or distort the shape or appearance of something; to become misshapen or distorted
5. pn____ic cylinder *adj.* relating to or using air or gas under pressure, particularly in machinery or devices; operated by compressed air or gas
6. ad__t in handicrafts *adj.* having or showing knowledge and skill and aptitude to do something quite difficult
7. pn____ic tire *adj.* relating to or using air or gas under pressure, particularly in machinery or devices; operated by compressed air or gas
8. em__d a sensor *v.* to fix or set firmly in a surrounding mass

ANSWERS: 1. tactile, 2. servo, 3. tactile, 4. deform, 5. pneumatic, 6. adept, 7. pneumatic, 8. embed

9. def_____on of structures *n.* the process of changing the physical shape or form of something, usually due to external forces or pressure
10. manual de_____ty *n.* skill and speed in performing physical tasks, especially with the hands; mental skill or adroitness in dealing with situations or problems
11. mo__h into a different shape *v.* to change or cause to change something or someone smoothly and gradually from one thing to another
12. wr_____nd watch *n.* a strip of material worn around the wrist for decoration, support, or identification purposes
13. sc___t prototype *v.* to create a work of art by carving, casting, or other shaping techniques
14. ad__t at fishing *adj.* having or showing knowledge and skill and aptitude to do something quite difficult
15. de___m his way of life *v.* to change or distort the shape or appearance of something; to become misshapen or distorted
16. def_____on at room temperature *n.* the process of changing the physical shape or form of something, usually due to external forces or pressure
17. chop wood with an ax *n.* a tool with a metal blade that is usually attached to a wooden handle and is used for chopping wood or other materials
18. mo__h into something entirely different *v.* to change or cause to change something or someone smoothly and gradually from one thing to another

ANSWERS: 9. deformation, 10. dexterity, 11. morph, 12. wristband, 13. sculpt, 14. adept, 15. deform, 16. deformation, 17. ax, 18. morph

19. ac____e a parking brake *v.* to cause a machine or equipment to start to work
20. vi_____ze data *v.* to form a mental image or concept of something; to make something visible
21. sc___t an image *v.* to create a work of art by carving, casting, or other shaping techniques
22. the t__g of a lemon *n.* a strong, sharp taste or smell; a perceptible or distinctive flavor or aftertaste; a metallic ringing or sound
23. se__o controller *n.* a type of motor or mechanism used to control the position or movement of a machine or device, often used in robotics, automation, and other applications
24. sw_____op conditions *n.* a factory or workshop where workers are employed at very low wages and under poor conditions, often characterized by long hours, low pay, and hazardous working conditions
25. k_n of the person *n.* knowledge, perception, understanding, or range of sight; (verb) to be aware of or know
26. an ax in the toolbox *n.* a tool with a metal blade that is usually attached to a wooden handle and is used for chopping wood or other materials
27. sw_____op labor *n.* a factory or workshop where workers are employed at very low wages and under poor conditions, often characterized by long hours, low pay, and hazardous working conditions

ANSWERS: 19. actuate, 20. visualize, 21. sculpt, 22. tang, 23. servo, 24. sweatshop, 25. ken, 26. ax, 27. sweatshop

28. within my k_n *n.* knowledge, perception, understanding, or range of sight; (verb) to be aware of or know
29. metallic t__g *n.* a strong, sharp taste or smell; a perceptible or distinctive flavor or aftertaste; a metallic ringing or sound
30. vi_____ze flying through space *v.* to form a mental image or concept of something; to make something visible
31. de_____ty with the pen *n.* skill and speed in performing physical tasks, especially with the hands; mental skill or adroitness in dealing with situations or problems
32. ha___c perception *adj.* of or relating to or involving the sense of touch
33. earliest human an_____or *n.* a person from whom one is descended; a forefather
34. festival wr_____nd *n.* a strip of material worn around the wrist for decoration, support, or identification purposes
35. em__d scripts in the message *v.* to fix or set firmly in a surrounding mass
36. ex___e the crowd *v.* to make someone feel suddenly enthusiastic or eager
37. ac_____e the circuits *v.* to cause a machine or equipment to start to work
38. ex___e rebellion *v.* to make someone feel suddenly enthusiastic or eager
39. ha___c feedback *adj.* of or relating to or involving the sense of touch

ANSWERS: 28. ken, 29. tang, 30. visualize, 31. dexterity, 32. haptic, 33. ancestor, 34. wristband, 35. embed, 36. excite, 37. actuate, 38. excite, 39. haptic

40. an____ or language

n. a person from whom one is descended;
a forefather

ANSWERS: 40. ancestor

Session 3: Fill in the Blanks

1. The _____ sensation of the fabric was soft and smooth to the touch.
adj. relating to the sense of touch; tangible or perceptible through the sense of touch
2. She tried to _____ the layout of the new house in her mind.
v. to form a mental image or concept of something; to make something visible
3. The surgeon's _____ was impressive during the delicate surgery.
n. skill and speed in performing physical tasks, especially with the hands; mental skill or adroitness in dealing with situations or problems
4. My remote _____ immigrated to the United States from Ireland in the 1800s.
n. a person from whom one is descended; a forefather
5. The mechanic used a _____ drill to repair the engine.
adj. relating to or using air or gas under pressure, particularly in machinery or devices; operated by compressed air or gas
6. Activists have been pushing for legislation to ban the use of _____ in the garment industry.
n. a factory or workshop where workers are employed at very low wages and under poor conditions, often characterized by long hours, low pay, and hazardous working conditions
7. He spent hours every day _____ figures out of clay.
v. to create a work of art by carving, casting, or other shaping techniques

ANSWERS: 1. tactile, 2. visualize, 3. dexterity, 4. ancestor, 5. pneumatic, 6. sweatshops, 7. sculpting

8. The player controls the game with a joystick or other _____ device.
adj. of or relating to or involving the sense of touch
9. Various factors, including pressure, temperature, and the application of external forces, can cause the _____ of rocks.
n. the process of changing the physical shape or form of something, usually due to external forces or pressure
10. She is highly _____ with medical equipment.
adj. having or showing knowledge and skill and aptitude to do something quite difficult
11. He had a good ____ of the city and could easily find his way around.
n. knowledge, perception, understanding, or range of sight; (verb) to be aware of or know
12. A desire for success _____ her.
v. to cause a machine or equipment to start to work
13. The _____ of the ocean breeze was refreshing on a hot summer day.
n. a strong, sharp taste or smell; a perceptible or distinctive flavor or aftertaste; a metallic ringing or sound
14. The company _____ a tracking code in the product's packaging to monitor its shipment.
v. to fix or set firmly in a surrounding mass
15. The news of her promotion _____ her.
v. to make someone feel suddenly enthusiastic or eager

ANSWERS: 8. haptic, 9. deformation, 10. adept, 11. ken, 12. actuated, 13. tang, 14. embedded, 15. excited

16. He used an ___ to chop the firewood for the campfire.

- n.* a tool with a metal blade that is usually attached to a wooden handle and is used for chopping wood or other materials

17. A _____ motor controlled the robot's movements.

- n.* a type of motor or mechanism used to control the position or movement of a machine or device, often used in robotics, automation, and other applications

18. The nightclub bouncer checked the _____ of everyone entering the premises to ensure their age.

- n.* a strip of material worn around the wrist for decoration, support, or identification purposes

19. This company _____ into an enterprise company.

- v.* to change or cause to change something or someone smoothly and gradually from one thing to another

20. The heat from the fire _____ the plastic parts of the appliance.

- v.* to change or distort the shape or appearance of something; to become misshapen or distorted

ANSWERS: 16. ax, 17. servo, 18. wristbands, 19. morphed, 20. deformed