

Englist.me



Vocabulary Builder Reference from...

Anders Ynnerman: Visualizing the medical data explosion | TED Talk

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

Advanced Words Only

IMPORTANT

This material is a commentary and does not contain any copyrighted material of the reference source. We strongly recommend accessing/buying the reference source at the same time.

Session 1: Word List

tomography

n. a diagnostic imaging technique used to produce detailed images of structures inside the body, typically by using X-rays, CT scans, or ultrasound

synonym : imaging, scanning, x-ray

(1) acoustic **tomography**, (2) **tomography** image

The **tomography** scan showed a clear image of the patient's internal organs.

rot

v. to decay, or cause something to decay, naturally and gradually

synonym : perish, decay, corrode

(1) begin to **rot**, (2) **rot** with age

Please refrigerate the meat, or it will **rot**.

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**.

radiology

n. the branch of medicine that uses medical imaging technologies such as X-rays, CT scans, MRIs, and

ultrasound to diagnose and treat diseases and injuries
synonym : medical imaging, radiography, radioscopy

(1) interventional **radiology**, (2) diagnostic **radiology**

The patient underwent a **radiology** scan to diagnose their medical condition.

smartphone

n. a mobile phone that functions as a computer and connects to the Internet

(1) **smartphone** app developer, (2) **smartphone** addict

Internet traffic volumes have increased significantly with the advent of **smartphones**.

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.

nifty

adj. attractive and stylish; clever and ingenious; neat and handy

synonym : cool, clever, ingenious

(1) **nifty** gadget, (2) **nifty** idea

The car has a **nifty** feature that alerts you when you're about to veer off the road.

compress

v. to press or squeeze together to make something take up less space

synonym : condense, constrict, squeeze

(1) **compress** the chest, (2) **compress** gas

She **compressed** the files into a single ZIP archive to save space on her computer.

scatter

v. to cause to separate and go in different directions

synonym : disperse, spread, bestrew

(1) **scatter** seeds, (2) **scatter** around the internet

The hunter's approach **scattered** the geese.

artifact

n. a person-made object, especially one of historical or cultural interest

synonym : antique, relic, heirloom

(1) paleolithic **artifacts**, (2) Peruvian **artifacts**

The museum has a vast collection of Greek **artifacts**.

stent

n. a small tube or wire mesh device that is used to keep an artery or other body opening open after surgery or other medical procedures

(1) cardiac **stent**, (2) remove a **stent**

The doctor inserted a **stent** into the patient's artery to keep it open.

clamp

v. to fasten or secure something tightly, often using a tool or device called a clamp; to restrict something or someone's freedom or movement; (noun) a device used to secure, fasten, or hold objects together; a mass or group of things that are held or gathered tightly together

synonym : fasten, secure, hold tight

(1) **clamp** down on extremism, (2) **clamp** coupling

He used a wrench to **clamp** down the pipes tightly.

autopsy

n. a medical examination performed on a dead body to determine the cause of death or identify any underlying medical conditions or injuries; a postmortem examination or necropsy (in animals)

synonym : postmortem examination, necropsy, examination

(1) forensic **autopsy**, (2) perform an **autopsy**

The **autopsy** report revealed that the cause of death was a heart attack.

peel

v. to remove the skin of fruit and vegetables

synonym : pare, unclothe, disrobe

(1) **peel** a fruit, (2) **peel** off easily

The storm had **peeled** all paint off the siding.

stab

v. to cause harm with a sharp, pointed object, such as a knife

synonym: poke, thrust, jab

(1) **stab** at the enemy with a knife, (2) **stab** in the chest

He was **stabbed** many times with scissors.

eyeball

n. the round part of the eye of a vertebrate that is usually inside the head and, therefore, cannot be seen

(1) **eyeball** motion, (2) redness of the **eyeball**

Increased **eyeball** pressure leads to the development of glaucoma.

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.

hands-on

adj. actively involved, practical; having hands involved in the doing or making of something

synonym: practical, involved, hands-in

(1) **hands-on** activity, (2) take a **hands-on** approach

The **hands-on** workshop allowed attendees to work with tools and materials, developing their skills in a hands-on environment.

slush

n. partially melted snow or ice that is usually lying on the ground and dirty; dirty and injustice

(1) ice **slush**, (2) illicit **slush** funds

The streets and sidewalks were covered in snow and **slush**.

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.

heartbeat

n. the regular movement or sound of the heart as it sends blood around the body; an animating or vital unifying force

synonym : beat, pulse, force

(1) **heartbeat** abnormality, (2) a pounding **heartbeat**
New York is the commercial **heartbeat** of America.

deplete

v. to reduce something, especially supplies of energy, money, etc., by a large amount; to use up resources or materials

synonym : exhaust, consume, use up

(1) **deplete** customer confidence, (2) **deplete** glycogen stores

If we continue to **deplete** the Earth's natural resources, we will cause severe damage to the environment.

goggle

v. to look at someone or something with amazement; to look stupidly; (noun, plural) tight-fitting spectacles that are worn to prevent particulates, water, or chemicals from striking the eyes

synonym : gaze, gawk, gape

(1) **goggle** his eyes, (2) infrared **goggles**

The software company bought the VR **goggles** manufacturer.

freaky

adj. strange or unusual in a way that is frightening or unsettling

synonym : weird, strange, unusual

(1) **freaky** accident, (2) **freaky-deaky**

The **freaky** clown at the haunted house scared the children.

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.

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.

sedate

adj. calm, tranquil, and composed, often as a result of being under the influence of a sedative or tranquilizer; unhurried, deliberate, and without excessive movement or activity

synonym : calm, composed, tranquil

(1) **sedate** atmosphere, (2) **sedate** patient

The **sedate** environment of the library was perfect for studying.

veterinarian

n. (formal for a vet) a medical professional who specializes in the care and treatment of animals, especially those that are domesticated or kept as pets

synonym : vet, animal doctor, pet doctor

(1) **veterinarian** clinic, (2) experienced **veterinarian**

I took my pet to the **veterinarian** for a routine check-up.

cuddle

v. to hold close and lovingly in one's arms, often for comfort or affection; to snuggle or nestle against someone or something

synonym : embrace, snuggle, hug

(1) **cuddle** buddy, (2) **cuddle** up with a book

I love to **cuddle** with my dog on the couch after a long day.

motto

n. a phrase or slogan that expresses a guiding principle or goal

synonym : slogan, catchphrase, phrase

(1) the **motto** for safe traffic, (2) company **motto**

The company's **motto** is "Innovation and Service," which is reflected in its products and customer support.

Session 2: Spelling

- | | |
|-----------------------------------|--|
| 1. p__l a fruit | <i>v.</i> to remove the skin of fruit and vegetables |
| 2. acoustic tom_____hy | <i>n.</i> a diagnostic imaging technique used to produce detailed images of structures inside the body, typically by using X-rays, CT scans, or ultrasound |
| 3. op_____ne occasion | <i>adj.</i> suitable or happening at a time that is suitable or convenient for a particular purpose |
| 4. ey_____l motion | <i>n.</i> the round part of the eye of a vertebrate that is usually inside the head and, therefore, cannot be seen |
| 5. me_____al chemistry | <i>adj.</i> of or relating to the treatment or cure of disease |
| 6. fr___y accident | <i>adj.</i> strange or unusual in a way that is frightening or unsettling |
| 7. an op_____ne remark | <i>adj.</i> suitable or happening at a time that is suitable or convenient for a particular purpose |
| 8. s__b at the enemy with a knife | <i>v.</i> to cause harm with a sharp, pointed object, such as a knife |
| 9. ice sl__h | <i>n.</i> partially melted snow or ice that is usually lying on the ground and dirty; dirty and injustice |
| 10. experienced vet_____ian | <i>n.</i> (formal for a vet) a medical professional who specializes in the care and treatment of animals, especially those that are domesticated or kept as pets |

ANSWERS: 1. peel, 2. tomography, 3. opportune, 4. eyeball, 5. medicinal, 6. freaky, 7. opportune, 8. stab, 9. slush, 10. veterinarian

11. ha___c feedback *adj.* of or relating to or involving the sense of touch
12. co_____ss the chest *v.* to press or squeeze together to make something take up less space
13. sma_____ne addict *n.* a mobile phone that functions as a computer and connects to the Internet
14. sc_____r around the internet *v.* to cause to separate and go in different directions
15. 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
16. traditional me_____al *adj.* of or relating to the treatment or cure of disease
17. Peruvian ar_____cts *n.* a person-made object, especially one of historical or cultural interest
18. remove a st__t *n.* a small tube or wire mesh device that is used to keep an artery or other body opening open after surgery or other medical procedures
19. fr___y-deaky *adj.* strange or unusual in a way that is frightening or unsettling
20. cu___e buddy *v.* to hold close and lovingly in one's arms, often for comfort or affection; to snuggle or nestle against someone or something
21. se___e patient *adj.* calm, tranquil, and composed, often as a result of being under the influence of a sedative or tranquilizer; unhurried, deliberate, and without excessive movement or activity

ANSWERS: 11. haptic, 12. compress, 13. smartphone, 14. scatter, 15. neuron, 16. medicinal, 17. artifact, 18. stent, 19. freaky, 20. cuddle, 21. sedate

22. ha___c perception *adj.* of or relating to or involving the sense of touch
23. tom_____hy image *n.* a diagnostic imaging technique used to produce detailed images of structures inside the body, typically by using X-rays, CT scans, or ultrasound
24. cl__p coupling *v.* to fasten or secure something tightly, often using a tool or device called a clamp; to restrict something or someone's freedom or movement; (noun) a device used to secure, fasten, or hold objects together; a mass or group of things that are held or gathered tightly together
25. imp_____ion on stage *n.* the act of making something up on the spot or creating or performing something without preparation
26. r_t with age *v.* to decay, or cause something to decay, naturally and gradually
27. p__l off easily *v.* to remove the skin of fruit and vegetables
28. cu___e up with a book *v.* to hold close and lovingly in one's arms, often for comfort or affection; to snuggle or nestle against someone or something
29. cardiac st__t *n.* a small tube or wire mesh device that is used to keep an artery or other body opening open after surgery or other medical procedures
30. infrared go___es *v.* to look at someone or something with amazement; to look stupidly; (noun, plural) tight-fitting spectacles that are worn to prevent particulates, water, or chemicals from striking the eyes

ANSWERS: 22. haptic, 23. tomography, 24. clamp, 25. improvisation, 26. rot, 27. peel, 28. cuddle, 29. stent, 30. goggle

31. ni__y idea *adj.* attractive and stylish; clever and ingenious; neat and handy
32. the mo__o for safe traffic *n.* a phrase or slogan that expresses a guiding principle or goal
33. diagnostic ra_____gy *n.* the branch of medicine that uses medical imaging technologies such as X-rays, CT scans, MRIs, and ultrasound to diagnose and treat diseases and injuries
34. co_____ss gas *v.* to press or squeeze together to make something take up less space
35. go___e his eyes *v.* to look at someone or something with amazement; to look stupidly; (noun, plural) tight-fitting spectacles that are worn to prevent particulates, water, or chemicals from striking the eyes
36. sc_____r seeds *v.* to cause to separate and go in different directions
37. sma_____ne app developer *n.* a mobile phone that functions as a computer and connects to the Internet
38. redness of the ey_____l *n.* the round part of the eye of a vertebrate that is usually inside the head and, therefore, cannot be seen
39. company mo__o *n.* a phrase or slogan that expresses a guiding principle or goal
40. he_____at abnormality *n.* the regular movement or sound of the heart as it sends blood around the body; an animating or vital unifying force

ANSWERS: 31. nifty, 32. motto, 33. radiology, 34. compress, 35. goggles, 36. scatter, 37. smartphone, 38. eyeball, 39. motto, 40. heartbeat

49. illicit sl__h funds *n.* partially melted snow or ice that is usually lying on the ground and dirty; dirty and injustice
50. begin to r_t *v.* to decay, or cause something to decay, naturally and gradually
51. jazz imp_____ion *n.* the act of making something up on the spot or creating or performing something without preparation
52. se___e atmosphere *adj.* calm, tranquil, and composed, often as a result of being under the influence of a sedative or tranquilizer; unhurried, deliberate, and without excessive movement or activity
53. take a ha_____on approach *adj.* actively involved, practical; having hands involved in the doing or making of something
54. vet_____ian clinic *n.* (formal for a vet) a medical professional who specializes in the care and treatment of animals, especially those that are domesticated or kept as pets
55. de_____e customer confidence *v.* to reduce something, especially supplies of energy, money, etc., by a large amount; to use up resources or materials
56. forensic au_____y *n.* a medical examination performed on a dead body to determine the cause of death or identify any underlying medical conditions or injuries; a postmortem examination or necropsy (in animals)
57. paleolithic ar_____cts *n.* a person-made object, especially one of historical or cultural interest

ANSWERS: 49. slush, 50. rot, 51. improvisation, 52. sedate, 53. hands-on, 54. veterinarian, 55. deplete, 56. autopsy, 57. artifact

58. de____e glycogen stores
59. vi_____ze data
60. perform an au____y
- v.* to reduce something, especially supplies of energy, money, etc., by a large amount; to use up resources or materials
- v.* to form a mental image or concept of something; to make something visible
- n.* a medical examination performed on a dead body to determine the cause of death or identify any underlying medical conditions or injuries; a postmortem examination or necropsy (in animals)

ANSWERS: 58. deplete, 59. visualize, 60. autopsy

Session 3: Fill in the Blanks

1. The _____ properties of this herb have been known to help with various ailments.
adj. of or relating to the treatment or cure of disease
2. Please refrigerate the meat, or it will _____.
v. to decay, or cause something to decay, naturally and gradually
3. The _____ report revealed that the cause of death was a heart attack.
n. a medical examination performed on a dead body to determine the cause of death or identify any underlying medical conditions or injuries; a postmortem examination or necropsy (in animals)
4. 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
5. The _____ workshop allowed attendees to work with tools and materials, developing their skills in a hands-on environment.
adj. actively involved, practical; having hands involved in the doing or making of something
6. 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
7. 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

ANSWERS: 1. medicinal, 2. rot, 3. autopsy, 4. neuron, 5. hands-on, 6. improvisation, 7. visualize

8. The _____ clown at the haunted house scared the children.
adj. strange or unusual in a way that is frightening or unsettling
9. The doctor inserted a _____ into the patient's artery to keep it open.
n. a small tube or wire mesh device that is used to keep an artery or other body opening open after surgery or other medical procedures
10. The storm had _____ all paint off the siding.
v. to remove the skin of fruit and vegetables
11. The hunter's approach _____ the geese.
v. to cause to separate and go in different directions
12. The streets and sidewalks were covered in snow and _____.
n. partially melted snow or ice that is usually lying on the ground and dirty; dirty and injustice
13. The _____ scan showed a clear image of the patient's internal organs.
n. a diagnostic imaging technique used to produce detailed images of structures inside the body, typically by using X-rays, CT scans, or ultrasound
14. The phone rang at the most _____ time.
adj. suitable or happening at a time that is suitable or convenient for a particular purpose
15. The museum has a vast collection of Greek _____.
n. a person-made object, especially one of historical or cultural interest
16. The software company bought the VR _____ manufacturer.
v. to look at someone or something with amazement; to look stupidly; (noun, plural) tight-fitting spectacles that are worn to prevent particulates, water, or chemicals from striking the eyes

ANSWERS: 8. freaky, 9. stent, 10. peeled, 11. scattered, 12. slush, 13. tomography, 14. opportune, 15. artifacts, 16. goggles

17. He used a wrench to _____ down the pipes tightly.

- v.* to fasten or secure something tightly, often using a tool or device called a clamp; to restrict something or someone's freedom or movement; (noun) a device used to secure, fasten, or hold objects together; a mass or group of things that are held or gathered tightly together

18. The player controls the game with a joystick or other _____ device.

- adj.* of or relating to or involving the sense of touch

19. The patient underwent a _____ scan to diagnose their medical condition.

- n.* the branch of medicine that uses medical imaging technologies such as X-rays, CT scans, MRIs, and ultrasound to diagnose and treat diseases and injuries

20. He was _____ many times with scissors.

- v.* to cause harm with a sharp, pointed object, such as a knife

21. The _____ environment of the library was perfect for studying.

- adj.* calm, tranquil, and composed, often as a result of being under the influence of a sedative or tranquilizer; unhurried, deliberate, and without excessive movement or activity

22. She _____ the files into a single ZIP archive to save space on her computer.

- v.* to press or squeeze together to make something take up less space

23. The car has a _____ feature that alerts you when you're about to veer off the road.

- adj.* attractive and stylish; clever and ingenious; neat and handy

24. I took my pet to the _____ for a routine check-up.

- n.* (formal for a vet) a medical professional who specializes in the care and treatment of animals, especially those that are domesticated or kept as pets

ANSWERS: 17. clamp, 18. haptic, 19. radiology, 20. stabbed, 21. sedate, 22. compressed, 23. nifty, 24. veterinarian

25. The company's _____ is "Innovation and Service," which is reflected in its products and customer support.
- n.* a phrase or slogan that expresses a guiding principle or goal
26. If we continue to _____ the Earth's natural resources, we will cause severe damage to the environment.
- v.* to reduce something, especially supplies of energy, money, etc., by a large amount; to use up resources or materials
27. I love to _____ with my dog on the couch after a long day.
- v.* to hold close and lovingly in one's arms, often for comfort or affection; to snuggle or nestle against someone or something
28. New York is the commercial _____ of America.
- n.* the regular movement or sound of the heart as it sends blood around the body; an animating or vital unifying force
29. Internet traffic volumes have increased significantly with the advent of _____.
- n.* a mobile phone that functions as a computer and connects to the Internet
30. Increased _____ pressure leads to the development of glaucoma.
- n.* the round part of the eye of a vertebrate that is usually inside the head and, therefore, cannot be seen

ANSWERS: 25. motto, 26. deplete, 27. cuddle, 28. heartbeat, 29. smartphones, 30. eyeball