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Vocabulary Builder Reference from...

Dina Katabi: A new way to monitor vital signs (that can see through walls) | TED Talk

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

Advanced Words Only

IMPORTANT

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Session 1: Word List

fascinate

v. to attract and hold the attention of someone deeply and irresistibly

synonym: captivate, intrigue, mesmerize

(1) **fascinate** the public, (2) **fascinate** the young

The magic tricks **fascinated** the children.

nag

v. to annoy or irritate someone persistently with repeated complaints, requests, or criticism; (noun) an old or over-worked horse

synonym: hassle, bother, badger

(1) **nag** about the minor thing, (2) **nag** political leaders

She couldn't stop **nagging** her husband to take out the trash.

occlude

v. to obstruct or block something, usually a passage or opening, in a way that prevents normal flow or access

synonym: block, obstruct, close

(1) **occlude** a blood vessel, (2) **occlude** the ureteral orifice

The traffic jam **occluded** the road and caused a significant delay in the journey.

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.

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.

actigraphy

n. a method of monitoring physical activity and rest patterns over time, often used in medical research to diagnose sleep disorders or assess the effects of treatments

synonym : actometer, motion logger, motion watch

(1) objective **actigraphy** sleep measures, (2) **actigraphy** monitoring

The sleep clinic used portable **actigraphy** device to track the patient's sleep patterns over several nights.

brainwave

n. a sudden idea or inspiration; a moment of great insight or creativity

synonym : inspiration, brainstorm, revelation

(1) **brainwave** idea, (2) sudden **brainwave**

The engineer had a **brainwave** and redesigned the product to be more efficient.

Alzheimer

n. a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults

synonym : dementia, memory loss, cognitive decline

(1) **Alzheimer's** brain, (2) **Alzheimer's** risk factors

My grandmother has **Alzheimer's** disease requires special

care and attention from her caregivers.

spit

v. to eject saliva or other liquid from the mouth

synonym: expectorate, saliva, spew

(1) **spit** a bullet, (2) **spit** a mouthful of saliva

She tried to **spit** out the gum that she had been chewing.

inhale

v. to breathe in air or a different substance, such as smoke

synonym: breathe in, take in, draw in

(1) **inhale** the smoke, (2) **inhale** the aroma

He **inhaled** deeply, trying to calm down.

exhale

v. to breathe out air or vapor from the lungs or mouth; to release or emit something slowly or gently

synonym: breathe out, expel, emit

(1) **exhale** a big sigh, (2) **exhale** cigarette smoke

He took a deep breath and slowly began to **exhale**.

blip

n. a sudden and small, and typically temporary, change or deviation from a general trend

(1) temporary **blip**, (2) minor **blip**

The stock market had one bad **blip** today.

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.

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.

hospitalize

v. to admit someone to a hospital for medical treatment

synonym : admit, place in hospital

(1) **hospitalize** patient, (2) **hospitalize** child

She had to be **hospitalized** due to her injuries.

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**.

grandparent

n. a parent of one's father or mother

(1) great- **grandparent**, (2) person of **grandparent** age

She was close to her paternal **grandparents** and often spent summers with them.

Session 2: Spelling

1. temporary b__p *n.* a sudden and small, and typically temporary, change or deviation from a general trend
2. fa_____te the public *v.* to attract and hold the attention of someone deeply and irresistibly
3. person of gra_____nt age *n.* a parent of one's father or mother
4. oc_____e the ureteral orifice *v.* to obstruct or block something, usually a passage or opening, in a way that prevents normal flow or access
5. in___e the smoke *v.* to breathe in air or a different substance, such as smoke
6. act_____hy monitoring *n.* a method of monitoring physical activity and rest patterns over time, often used in medical research to diagnose sleep disorders or assess the effects of treatments
7. oc_____e a blood vessel *v.* to obstruct or block something, usually a passage or opening, in a way that prevents normal flow or access
8. minor b__p *n.* a sudden and small, and typically temporary, change or deviation from a general trend
9. ex___e a big sigh *v.* to breathe out air or vapor from the lungs or mouth; to release or emit something slowly or gently
10. ex___e rebellion *v.* to make someone feel suddenly enthusiastic or eager

ANSWERS: 1. blip, 2. fascinate, 3. grandparent, 4. occlude, 5. inhale, 6. actigraphy, 7. occlude, 8. blip, 9. exhale, 10. excite

11. 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
12. 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
13. hos_____ze child *v.* to admit someone to a hospital for medical treatment
14. Al_____er's brain *n.* a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults
15. 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
16. interventional 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
17. great-gra_____nt *n.* a parent of one's father or mother

ANSWERS: 11. machine-learning, 12. radiology, 13. hospitalize, 14. Alzheimer, 15. machine-learning, 16. radiology, 17. grandparent

18. br_____ve idea *n.* a sudden idea or inspiration; a moment of great insight or creativity
19. jazz imp_____ion *n.* the act of making something up on the spot or creating or performing something without preparation
20. in___e the aroma *v.* to breathe in air or a different substance, such as smoke
21. n_g political leaders *v.* to annoy or irritate someone persistently with repeated complaints, requests, or criticism; (noun) an old or over-worked horse
22. objective act_____hy sleep measures *n.* a method of monitoring physical activity and rest patterns over time, often used in medical research to diagnose sleep disorders or assess the effects of treatments
23. s__t a bullet *v.* to eject saliva or other liquid from the mouth
24. 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
25. ex___e cigarette smoke *v.* to breathe out air or vapor from the lungs or mouth; to release or emit something slowly or gently
26. s__t a mouthful of saliva *v.* to eject saliva or other liquid from the mouth
27. a pounding he_____at *n.* the regular movement or sound of the heart as it sends blood around the body; an animating or vital unifying force

ANSWERS: 18. brainwave, 19. improvisation, 20. inhale, 21. nag, 22. actigraphy, 23. spit, 24. heartbeat, 25. exhale, 26. spit, 27. heartbeat

28. n_g about the minor thing *v.* to annoy or irritate someone persistently with repeated complaints, requests, or criticism; (noun) an old or over-worked horse
29. Al_____er's risk factors *n.* a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults
30. hos_____ze patient *v.* to admit someone to a hospital for medical treatment
31. fa_____te the young *v.* to attract and hold the attention of someone deeply and irresistibly
32. imp_____ion on stage *n.* the act of making something up on the spot or creating or performing something without preparation
33. sudden br_____ve *n.* a sudden idea or inspiration; a moment of great insight or creativity
34. ex___e the crowd *v.* to make someone feel suddenly enthusiastic or eager

ANSWERS: 28. nag, 29. Alzheimer, 30. hospitalize, 31. fascinate, 32. improvisation, 33. brainwave, 34. excite

Session 3: Fill in the Blanks

1. He took a deep breath and slowly began to _____.
 - v. to breathe out air or vapor from the lungs or mouth; to release or emit something slowly or gently

2. 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

3. My grandmother has _____ disease requires special care and attention from her caregivers.
 - n. a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults

4. He _____ deeply, trying to calm down.
 - v. to breathe in air or a different substance, such as smoke

5. The engineer had a _____ and redesigned the product to be more efficient.
 - n. a sudden idea or inspiration; a moment of great insight or creativity

6. 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

7. The news of her promotion _____ her.
 - v. to make someone feel suddenly enthusiastic or eager

ANSWERS: 1. exhale, 2. machine-learning, 3. Alzheimer's, 4. inhaled, 5. brainwave, 6. radiology, 7. excited

8. She had to be _____ due to her injuries.
v. to admit someone to a hospital for medical treatment
9. She tried to _____ out the gum that she had been chewing.
v. to eject saliva or other liquid from the mouth
10. The stock market had one bad _____ today.
n. a sudden and small, and typically temporary, change or deviation from a general trend
11. The sleep clinic used portable _____ device to track the patient's sleep patterns over several nights.
n. a method of monitoring physical activity and rest patterns over time, often used in medical research to diagnose sleep disorders or assess the effects of treatments
12. The traffic jam _____ the road and caused a significant delay in the journey.
v. to obstruct or block something, usually a passage or opening, in a way that prevents normal flow or access
13. 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
14. The magic tricks _____ the children.
v. to attract and hold the attention of someone deeply and irresistibly
15. She was close to her paternal _____ and often spent summers with them.
n. a parent of one's father or mother

ANSWERS: 8. hospitalized, 9. spit, 10. blip, 11. actigraphy, 12. occluded, 13. improvisation, 14. fascinated, 15. grandparents

16. 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

17. She couldn't stop _____ her husband to take out the trash.

- v.* to annoy or irritate someone persistently with repeated complaints, requests, or criticism; (noun) an old or over-worked horse

ANSWERS: 16. heartbeat, 17. nagging