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Vocabulary Builder Reference from...

José Américo N L F de Freitas: How exactly does binary code work? | TED Talk

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

Advanced Words Only

IMPORTANT

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Session 1: Word List

transistor

n. a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics

synonym : semiconductor, microchip, circuit

(1) **transistor** radio, (2) **transistor** circuit

The invention of the **transistor** revolutionized the field of electronics.

oscillate

v. to swing or move back and forth like a pendulum or a wave; to fluctuate or alternate between two points or states; to hesitate or be indecisive

synonym : fluctuate, swing, vibrate

(1) **oscillate** back and forth, (2) **oscillate** between joy and anger

The fan in the room **oscillates**, making the airflow more evenly.

predetermine

v. to decide or determine in advance; to establish or influence beforehand

synonym : determine in advance, predestine, decide beforehand

(1) **predetermine** effectiveness, (2) **predetermine** result

I can't **predetermine** the game's outcome, and anything can happen.

determinant

n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

synonym: cause, factor, element

(1) environmental **determinant**, (2) a **determinant** of crop yields

One **determinant** of success is having a positive attitude and a strong work ethic.

hue

n. the quality of a color as determined by its dominant wavelength

synonym: dye, tint, coloring

(1) the **hues** of a rainbow, (2) **hue** change

To achieve a warmer **hue**, add orange paint.

modulate

v. to change the key, style, loudness, etc., of something in music to create a particular effect; to fix or adjust the time, amount, degree, or rate of something

synonym: regulate, inflect, adjust

(1) **modulate** the function, (2) **modulate** from one key to another

These chemicals **modulate** the effect of metabolism.

vibrate

v. to move or cause anything to move fast and in small increments from side to side

synonym: oscillate, convulse, jerk

(1) **vibrate** at a regular frequency, (2) **vibrate** with anger

During the flight, the wings of the plane **vibrate**.

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.

ternary

adj. consisting of three parts or elements

synonym: three-part, triplet, trine

(1) **ternary** system, (2) **ternary** relationship

In **ternary** logic, there are only three possible values: true, false, and unknown.

Session 2: Spelling

1. environmental det_____nt
n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
2. co_____ss the chest
v. to press or squeeze together to make something take up less space
3. te_____y system
adj. consisting of three parts or elements
4. mo_____te the function
v. to change the key, style, loudness, etc., of something in music to create a particular effect; to fix or adjust the time, amount, degree, or rate of something
5. tra_____or radio
n. a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics
6. vi_____e at a regular frequency
v. to move or cause anything to move fast and in small increments from side to side
7. tra_____or circuit
n. a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics
8. te_____y relationship
adj. consisting of three parts or elements
9. os_____te back and forth
v. to swing or move back and forth like a pendulum or a wave; to fluctuate or alternate between two points or states; to hesitate or be indecisive

ANSWERS: 1. determinant, 2. compress, 3. ternary, 4. modulate, 5. transistor, 6. vibrate, 7. transistor, 8. ternary, 9. oscillate

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|---------------------------------------|----|--|
| 10. pre_____ine effectiveness | v. | to decide or determine in advance; to establish or influence beforehand |
| 11. pre_____ine result | v. | to decide or determine in advance; to establish or influence beforehand |
| 12. h_e change | n. | the quality of a color as determined by its dominant wavelength |
| 13. a det_____nt of crop yields | n. | a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result |
| 14. os_____te between joy and anger | v. | to swing or move back and forth like a pendulum or a wave; to fluctuate or alternate between two points or states; to hesitate or be indecisive |
| 15. mo_____te from one key to another | v. | to change the key, style, loudness, etc., of something in music to create a particular effect; to fix or adjust the time, amount, degree, or rate of something |
| 16. vi_____e with anger | v. | to move or cause anything to move fast and in small increments from side to side |
| 17. the h_es of a rainbow | n. | the quality of a color as determined by its dominant wavelength |
| 18. co_____ss gas | v. | to press or squeeze together to make something take up less space |

ANSWERS: 10. predetermine, 11. predetermine, 12. hue, 13. determinant, 14. oscillate, 15. modulate, 16. vibrate, 17. hue, 18. compress

Session 3: Fill in the Blanks

1. In _____ logic, there are only three possible values: true, false, and unknown.
adj. consisting of three parts or elements
2. 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
3. One _____ of success is having a positive attitude and a strong work ethic.
n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
4. The invention of the _____ revolutionized the field of electronics.
n. a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics
5. I can't _____ the game's outcome, and anything can happen.
v. to decide or determine in advance; to establish or influence beforehand
6. To achieve a warmer _____ add orange paint.
n. the quality of a color as determined by its dominant wavelength
7. These chemicals _____ the effect of metabolism.
v. to change the key, style, loudness, etc., of something in music to create a particular effect; to fix or adjust the time, amount, degree, or rate of something
8. During the flight, the wings of the plane _____.
v. to move or cause anything to move fast and in small increments from side to side

ANSWERS: 1. ternary, 2. compressed, 3. determinant, 4. transistor, 5. predetermine, 6. hue, 7. modulate, 8. vibrate

9. The fan in the room _____ making the airflow more evenly.
- v. to swing or move back and forth like a pendulum or a wave; to fluctuate or alternate between two points or states; to hesitate or be indecisive

ANSWERS: 9. oscillates,