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Vocabulary Builder Reference from...

Diego Prilusky: How volumetric video brings a new dimension to filmmaking | TED Talk

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

Advanced Words Only

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Session 1: Word List

filmmaking

n. the process or art of making movies

synonym: movie-making, film production, cinema

(1) **filmmaking** industry, (2) retire from **filmmaking**

The history of **filmmaking** dates back to the late 19th century when motion pictures were first shown to audiences.

mindset

n. the established set of attitudes or fixed ideas held by someone

synonym: attitude, ethos, mentality

(1) flexible **mindset**, (2) the **mindset** in an education system

Countries whose goal is economic development often focus on fostering an entrepreneurial **mindset** in each individual.

parallax

n. the apparent shift in the position of an object when viewed from two different perspectives, caused by differences in vantage point or angle of observation; the effect of an observing instrument that produces apparent displacement or shift of an object or its parts

synonym: shift, displacement, difference

(1) optical **parallax**, (2) **parallax** error

The **parallax** of the star was measured to determine its distance from Earth.

foreground

n. the part of a view, picture, etc., that is nearest to the viewer

(1) **foreground** segmentation, (2) **foreground** galaxy

A happy group of friends occupies the **foreground** of the picture.

onstage

adv. onto or on a stage in a theater; in front of an audience

(1) appeared **onstage**, (2) walk **onstage**

He performed his magic trick **onstage**, leaving the audience in awe.

immerse

v. to become fully involved in a particular activity; to dip or submerge in a liquid, especially so that they or it are entirely covered

synonym: dip, inundate, submerge

(1) **immerse** the cloth in the dye, (2) completely **immerse** the ingredient

He **immersed** himself in his research.

panoramic

adj. relating to an unobstructed and wide view of an extensive area; all-encompassing

synonym: expansive, wide-ranging, scenic

(1) **panoramic** landscape, (2) **panoramic** camera

We hiked to the top of the hill for a **panoramic** view of the city below.

afterward

adv. after the time mentioned

synonym: later, thereafter, following

(1) a few years **afterward**, (2) go there **afterward**

We will explain the countermeasure concerning this problem **afterward**.

reconstruct

v. to build or form something again that has been damaged or destroyed

synonym: rebuild, revamp, reorganize

(1) **reconstruct** an image, (2) **reconstruct** the original text

They've decided to **reconstruct** a ruined castle.

volumetric

adj. relating to or measured by volume, which refers to the amount of space occupied by an object or substance

synonym : dimensional, spatial, cubic

(1) **volumetric** flow rate, (2) **volumetric** analysis

The 3D printer uses **volumetric** calculations to determine the material needed for each print job.

voxel

n. a 3D pixel (= a small but volumetric unit) in a three-dimensional space defined by x-, y-, and z-coordinates; a digital image element representing a tiny cube in a 3D picture, with its color and brightness determined by the values assigned to the voxels in its vicinity

synonym : 3d pixel, volumetric pixel

(1) **voxel** engine, (2) 3D **voxel** model

Doctors used **voxel-based** imaging to create a 3D model of the patient's brain.

supercomputer

n. a computer with a high level of computing power and speed, typically used for scientific or engineering computations that require immense amounts of data processing

synonym : high-performance computer, mainframe, giant computer

(1) **supercomputer** performance, (2) **supercomputer** technology

China has developed one of the world's fastest **supercomputers** for its space program.

flawless

adj. without any imperfections or errors; perfect or impeccable in appearance or performance

synonym : perfect, impeccable, faultless

(1) **flawless** execution, (2) **flawless** performance

The football team had a **flawless** season and went undefeated all year.

emit

v. to give off or send out something such as light, heat, sound, gas, etc.

synonym: give off, radiate, expel

(1) **emit** a gamma ray, (2) **emit** air pollution

During the unloading, the container box **emits** a clicking sound.

storytelling

n. the act or art of narrating or writing stories

synonym: narrating, relating, recounting

(1) **storytelling** performance, (2) courtroom **storytelling**

She was skilled in **storytelling** techniques, such as using different voices for other characters.

gallop

v. (of a horse) to run very quickly so that all four feet come off the ground together; to proceed very quickly

synonym: canter, race, bound

(1) **gallop** a horse, (2) **gallop** off at top speed

The horse **galloped** across the field at a fast pace.

paramount

adj. more important than anything else; having superior power and influence or the highest position

synonym: central, major, crucial

(1) the lord **paramount**, (2) **paramount** to all the others

This country became a country of **paramount** geostrategic importance to us.

reimagine

v. to imagine or conceive of something in a new or different way

synonym: re-conceptualize, re-envision, re-create

(1) **reimagine** the future, (2) **reimagine** the possibilities

The company is trying to **reimagine** its business model to stay competitive.

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.

singe

v. to burn something slightly or superficially, usually by mistake

synonym: sear, char, burn

(1) **singe** off the hair over the flames, (2) **singe** the edges of a fabric

I didn't realize the iron was still hot and **singed** my dress.

electrify

v. to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something

synonym: wire, amaze, astonish

(1) **electrify** the audience, (2) **electrify** a manufacturing process

The product developed through years of research continues to **electrify** the market.

Session 2: Spelling

- | | |
|---------------------------------------|---|
| 1. completely im_____e the ingredient | <i>v.</i> to become fully involved in a particular activity; to dip or submerge in a liquid, especially so that they or it are entirely covered |
| 2. retire from fil_____ng | <i>n.</i> the process or art of making movies |
| 3. go there af_____rd | <i>adv.</i> after the time mentioned |
| 4. au_____t immunity | <i>v.</i> to increase the size, extent, quantity, etc. of something by adding something to it |
| 5. rec_____ct an image | <i>v.</i> to build or form something again that has been damaged or destroyed |
| 6. flexible mi_____t | <i>n.</i> the established set of attitudes or fixed ideas held by someone |
| 7. courtroom sto_____ing | <i>n.</i> the act or art of narrating or writing stories |
| 8. the lord pa_____nt | <i>adj.</i> more important than anything else; having superior power and influence or the highest position |
| 9. re_____ne the future | <i>v.</i> to imagine or conceive of something in a new or different way |
| 10. for_____nd galaxy | <i>n.</i> the part of a view, picture, etc., that is nearest to the viewer |
| 11. fl_____ss performance | <i>adj.</i> without any imperfections or errors; perfect or impeccable in appearance or performance |

ANSWERS: 1. immerse, 2. filmmaking, 3. afterward, 4. augment, 5. reconstruct, 6. mindset, 7. storytelling, 8. paramount, 9. reimagine, 10. foreground, 11. flawless

12. pa_____ic landscape *adj.* relating to an unobstructed and wide view of an extensive area; all-encompassing
13. ga___p a horse *v.* (of a horse) to run very quickly so that all four feet come off the ground together; to proceed very quickly
14. e__t air pollution *v.* to give off or send out something such as light, heat, sound, gas, etc.
15. pa_____ic camera *adj.* relating to an unobstructed and wide view of an extensive area; all-encompassing
16. el_____fy a manufacturing process *v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
17. optical pa_____ax *n.* the apparent shift in the position of an object when viewed from two different perspectives, caused by differences in vantage point or angle of observation; the effect of an observing instrument that produces apparent displacement or shift of an object or its parts
18. e__t a gamma ray *v.* to give off or send out something such as light, heat, sound, gas, etc.
19. si__e off the hair over the flames *v.* to burn something slightly or superficially, usually by mistake
20. a few years af_____rd *adv.* after the time mentioned
21. ga___p off at top speed *v.* (of a horse) to run very quickly so that all four feet come off the ground together; to proceed very quickly

ANSWERS: 12. panoramic, 13. gallop, 14. emit, 15. panoramic, 16. electrify, 17. parallax, 18. emit, 19. singe, 20. afterward, 21. gallop

22. fl_____ss execution *adj.* without any imperfections or errors; perfect or impeccable in appearance or performance
23. for_____nd segmentation *n.* the part of a view, picture, etc., that is nearest to the viewer
24. im_____e the cloth in the dye *v.* to become fully involved in a particular activity; to dip or submerge in a liquid, especially so that they or it are entirely covered
25. pa_____ax error *n.* the apparent shift in the position of an object when viewed from two different perspectives, caused by differences in vantage point or angle of observation; the effect of an observing instrument that produces apparent displacement or shift of an object or its parts
26. vol_____ic analysis *adj.* relating to or measured by volume, which refers to the amount of space occupied by an object or substance
27. re_____ne the possibilities *v.* to imagine or conceive of something in a new or different way
28. sup_____ter technology *n.* a computer with a high level of computing power and speed, typically used for scientific or engineering computations that require immense amounts of data processing
29. rec_____ct the original text *v.* to build or form something again that has been damaged or destroyed
30. the mi_____t in an education system *n.* the established set of attitudes or fixed ideas held by someone

ANSWERS: 22. flawless, 23. foreground, 24. immerse, 25. parallax, 26. volumetric, 27. reimagine, 28. supercomputer, 29. reconstruct, 30. mindset

31. 3D vo__l model
- n.* a 3D pixel (= a small but volumetric unit) in a three-dimensional space defined by x-, y-, and z- coordinates; a digital image element representing a tiny cube in a 3D picture, with its color and brightness determined by the values assigned to the voxels in its vicinity
32. sup_____ter performance
- n.* a computer with a high level of computing power and speed, typically used for scientific or engineering computations that require immense amounts of data processing
33. vol_____ic flow rate
- adj.* relating to or measured by volume, which refers to the amount of space occupied by an object or substance
34. sto_____ing performance
- n.* the act or art of narrating or writing stories
35. si__e the edges of a fabric
- v.* to burn something slightly or superficially, usually by mistake
36. walk on_____e
- adv.* onto or on a stage in a theater; in front of an audience
37. appeared on_____e
- adv.* onto or on a stage in a theater; in front of an audience
38. au_____t the reality
- v.* to increase the size, extent, quantity, etc. of something by adding something to it
39. el_____fy the audience
- v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something

ANSWERS: 31. voxel, 32. supercomputer, 33. volumetric, 34. storytelling, 35. singe, 36. onstage, 37. onstage, 38. augment, 39. electrify

40. pa_____nt to all the others

adj. more important than anything else; having superior power and influence or the highest position

41. fil_____ng industry

n. the process or art of making movies

42. vo__l engine

n. a 3D pixel (= a small but volumetric unit) in a three-dimensional space defined by x-, y-, and z- coordinates; a digital image element representing a tiny cube in a 3D picture, with its color and brightness determined by the values assigned to the voxels in its vicinity

ANSWERS: 40. paramount, 41. filmmaking, 42. voxel

Session 3: Fill in the Blanks

1. The product developed through years of research continues to _____ the market.
 - v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something

2. Doctors used _____ imaging to create a 3D model of the patient's brain.
 - n.* a 3D pixel (= a small but volumetric unit) in a three-dimensional space defined by x-, y-, and z- coordinates; a digital image element representing a tiny cube in a 3D picture, with its color and brightness determined by the values assigned to the voxels in its vicinity

3. She was skilled in _____ techniques, such as using different voices for other characters.
 - n.* the act or art of narrating or writing stories

4. Economic factors and monetary policy _____ inflation.
 - v.* to increase the size, extent, quantity, etc. of something by adding something to it

5. They've decided to _____ a ruined castle.
 - v.* to build or form something again that has been damaged or destroyed

6. The company is trying to _____ its business model to stay competitive.
 - v.* to imagine or conceive of something in a new or different way

7. This country became a country of _____ geostrategic importance to us.
 - adj.* more important than anything else; having superior power and influence or the highest position

ANSWERS: 1. electrify, 2. voxel-based, 3. storytelling, 4. augmented, 5. reconstruct, 6. reimagine, 7. paramount

8. The 3D printer uses _____ calculations to determine the material needed for each print job.

adj. relating to or measured by volume, which refers to the amount of space occupied by an object or substance

9. He performed his magic trick _____ leaving the audience in awe.

adv. onto or on a stage in a theater; in front of an audience

10. He _____ himself in his research.

v. to become fully involved in a particular activity; to dip or submerge in a liquid, especially so that they or it are entirely covered

11. A happy group of friends occupies the _____ of the picture.

n. the part of a view, picture, etc., that is nearest to the viewer

12. I didn't realize the iron was still hot and _____ my dress.

v. to burn something slightly or superficially, usually by mistake

13. The horse _____ across the field at a fast pace.

v. (of a horse) to run very quickly so that all four feet come off the ground together; to proceed very quickly

14. Countries whose goal is economic development often focus on fostering an entrepreneurial _____ in each individual.

n. the established set of attitudes or fixed ideas held by someone

15. China has developed one of the world's fastest _____ for its space program.

n. a computer with a high level of computing power and speed, typically used for scientific or engineering computations that require immense amounts of data processing

ANSWERS: 8. volumetric, 9. onstage, 10. immersed, 11. foreground, 12. singed, 13. galloped, 14. mindset, 15. supercomputers

16. We hiked to the top of the hill for a _____ view of the city below.

adj. relating to an unobstructed and wide view of an extensive area;
all-encompassing

17. We will explain the countermeasure concerning this problem _____.

adv. after the time mentioned

18. During the unloading, the container box _____ a clicking sound.

v. to give off or send out something such as light, heat, sound, gas, etc.

19. The football team had a _____ season and went undefeated all year.

adj. without any imperfections or errors; perfect or impeccable in appearance or performance

20. The _____ of the star was measured to determine its distance from Earth.

n. the apparent shift in the position of an object when viewed from two different perspectives, caused by differences in vantage point or angle of observation; the effect of an observing instrument that produces apparent displacement or shift of an object or its parts

21. The history of _____ dates back to the late 19th century when motion pictures were first shown to audiences.

n. the process or art of making movies

ANSWERS: 16. panoramic, 17. afterward, 18. emits, 19. flawless, 20. parallax, 21. filmmaking