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Fei-Fei Li: How we're teaching computers to understand pictures | TED Talk

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

Advanced Words Only

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Session 1: Word List

crumple

v. to collapse or crumple into a disordered or wrinkled mass; to fall apart or lose strength suddenly; to become emotionally distressed or overwhelmed

synonym: crinkle, crush, mash

(1) **crumple** paper, (2) **crumple** clothes

The car **crumpled** after colliding with the tree.

drone

n. a low continuous humming noise; someone who takes more time than necessary; a pilot-less aerial vehicle that is operated by remote control

synonym: hum, whirr, idler

(1) **drone** flight, (2) the speaker's **drone**

He heard a **drone** of sirens roar from the neighboring town.

rainforest

n. a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall

(1) **rainforest** destruction, (2) tropical **rainforest**

The destruction of the **rainforest** is a ticking time bomb for the Earth.

drown

v. to die or cause to die by being unable to breathe underwater

synonym: douse, drench, overwhelm

(1) **drown** in a bath, (2) I was **drowned** in work
Floods have the potential to **drown** any subsurface animals easily.

lifeless

adj. without life; dead

synonym: inanimate, inert, motionless

(1) fall **lifeless**, (2) a **lifeless** corpse

The plant had a **lifeless** appearance, indicating that it was not getting enough water.

infer

v. to form an opinion or conclude that something is true based on existing facts

synonym: guess, deduce, assume

(1) **infer** quality from price, (2) **infer** the possibility

Animal desire and preference are always **inferred** from their behavior.

weave

v. to make cloth, a carpet, a basket, etc., by repeatedly crossing a single thread through two sets of long threads at a right angle to them

synonym: braid, unite, contrive

(1) **weave** on a loom, (2) **weave** a story

The girl **weaves** a garland for her friend.

trove

n. a valuable collection of rare or interesting things, usually on the earth

synonym: hoard, collection, assemblage

(1) **trove** of information, (2) stumble on a **trove**

The treasure **trove** of ancient artifacts was a museum's dream come true.

crowdsourcing

n. the practice of obtaining needed services, ideas, or content by enlisting the services of a large number of people, either paid or unpaid, typically via the internet

(1) **crowdsourcing** apps, (2) **crowdsourcing** in climate policy

The company used this **crowdsourcing** platform to gather ideas for its next product.

hindsight

n. understanding or knowledge that comes after an event has occurred; the ability to perceive or understand events with greater clarity or accuracy in retrospect

synonym : retrospect, afterthought

(1) **hindsight** bias, (2) 20/20 **hindsight**

With **hindsight**, we can see that investing in that company was a mistake.

nourish

v. to provide a person, an animal, or plant with food to make them grow and stay healthy

synonym : feed, sustain, nurture

(1) **nourish** damaged skin, (2) **nourish** hope

The mother used her breast milk to **nourish** the baby.

convolution

n. a complex or intricate twist, turn, or arrangement of something; a complex or winding thought process, argument, or situation

synonym : complexity, intricacy, twist

(1) complex **convolution**, (2) mathematical **convolution**

The novel's plot is full of twists and turns, creating a complex **convolution** of events.

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.

nod

v. to lower and raise one's head, sometimes several times, as to show approval, agreement, greeting, or confirmation

synonym : respond, acknowledge, greet

(1) **nod** at each other, (2) **nod** courteously

She **nodded** quietly in response to the question.

moreover

adv. indicating that what follows is an additional or supplementary point; furthermore; in addition to what has been said before

synonym: furthermore, besides, in addition

(1) **moreover**, she decided to go, (2) but **moreover**, they work well together

The company is environmentally conscious, and **moreover**, it uses sustainable materials in its products.

humongous

adj. extremely large; gigantic; huge; excessively big

synonym: gigantic, enormous, colossal

(1) **humongous** appetite, (2) **humongous** amount

The new office building was **humongous** and could fit hundreds of employees comfortably.

blossom

n. the reproductive structure on a flowering plant that consists of usually colorful petals and a typically green calyx (merging of sepals); the state or time of flowering; the peak of a person's or thing's development or success

synonym: flower, bloom, bud

(1) apple **blossom**, (2) **blossom** garden

The cherry **blossom** trees in the park were in full bloom, creating a beautiful sight.

kite

n. a toy made of a light frame covered with cloth or plastic and joined to a long string that you fly in the air

(1) **kite** string, (2) a picture on a **kite**

Benjamin Franklin proved that lightning is electricity through experiments with **kites**.

railing

n. a horizontal barrier or fence supported by posts or columns, often used for safety or decorative purposes, particularly on balconies, staircases, or along the edge of a building or platform

synonym : banister, handrail, balustrade

(1) **railing** on the balcony, (2) wooden **railing**

The children held onto the **railing** tightly as they walked up the steep staircase.

lamppost

n. a tall standing pole that supports one or more electric lamps

synonym : streetlight, light post, pole light

(1) **lamppost** light, (2) hit a **lamppost**

The **lamppost** on the corner of the street has been out for a week, making it difficult to see at night.

correlate

v. to have a connection or relationship in which one thing affects or depends on another

synonym : associate, liken, connect

(1) **correlate** closely with the quality, (2) **correlate** to the size

We may frequently **correlate** age with the frequency of disease.

surpass

v. to be or do better than someone or something; to excel or go beyond the limits or standards of something

synonym : excel, outdo, outperform

(1) **surpass** imagination, (2) **surpass** \$20 billion in sales

The athlete's record-breaking performance **surpassed** all expectations.

snippet

n. a small piece or brief extract of something

synonym : fragment, excerpt, brief

(1) **snippet** of wisdom, (2) code **snippet**

The journalist saved a **snippet** of the interview for later reference.

toothbrush

n. a small brush with a handle used for cleaning the teeth

synonym : brush, scrubber, cleaner

(1) **toothbrush** stand, (2) power **toothbrush**

My **toothbrush** with end-rounded bristles is excellent for gently cleaning my teeth and gums.

confuse

v. to mistake one thing for another; to make somebody hard to understand

synonym: confound, obscure, disorient

(1) **confuse** the listener, (2) **confuse** fantasy with reality

Her remarks **confused** the debate.

zebra

n. a wild, horse-like mammal native to Africa with distinctive black-and-white stripes

synonym: striped horse, wild horse

(1) **zebra** pattern, (2) **zebra** crossing

The **zebra's** distinctive black and white stripes help it blend into its surroundings in the wild.

tireless

adj. characterized by a persistent and energetic effort; not easily fatigued or discouraged

synonym: indefatigable, persistent, unflagging

(1) **tireless** dedication, (2) **tireless** charity work

The politician was known for his **tireless** efforts to improve healthcare.

unseen

adj. not seen or noticed; not perceived

synonym: invisible, hidden, undercover

(1) **unseen** danger, (2) an **unseen** force

The consequences of the pandemic remain **unseen** as scientists continue to research the virus.

ponder

v. to think deeply or carefully about something

synonym: think about, consider, reflect on

(1) **ponder** divine matters, (2) **ponder** life's meaning

She sat quietly, **pondering** the difficult decision.

Session 2: Spelling

- | | |
|---------------------------|---|
| 1. no____h damaged skin | <i>v.</i> to provide a person, an animal, or plant with food to make them grow and stay healthy |
| 2. 20/20 hi_____ht | <i>n.</i> understanding or knowledge that comes after an event has occurred; the ability to perceive or understand events with greater clarity or accuracy in retrospect |
| 3. un____n danger | <i>adj.</i> not seen or noticed; not perceived |
| 4. rai_____st destruction | <i>n.</i> a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall |
| 5. wooden ra_____g | <i>n.</i> a horizontal barrier or fence supported by posts or columns, often used for safety or decorative purposes, particularly on balconies, staircases, or along the edge of a building or platform |
| 6. hu_____us appetite | <i>adj.</i> extremely large; gigantic; huge; excessively big |
| 7. ze__a pattern | <i>n.</i> a wild, horse-like mammal native to Africa with distinctive black-and-white stripes |
| 8. ne____n cell body | <i>n.</i> a cell that is specialized to carry information within the brain and between the brain and other parts of the body |
| 9. a li_____ss corpse | <i>adj.</i> without life; dead |

ANSWERS: 1. nourish, 2. hindsight, 3. unseen, 4. rainforest, 5. railing, 6. humongous, 7. zebra, 8. neuron, 9. lifeless

10. tr__e of information *n.* a valuable collection of rare or interesting things, usually on the earth
11. fall li_____ss *adj.* without life; dead
12. ze__a crossing *n.* a wild, horse-like mammal native to Africa with distinctive black-and-white stripes
13. hu_____us amount *adj.* extremely large; gigantic; huge; excessively big
14. power too_____sh *n.* a small brush with a handle used for cleaning the teeth
15. apple bl_____m *n.* the reproductive structure on a flowering plant that consists of usually colorful petals and a typically green calyx (merging of sepals); the state or time of flowering; the peak of a person's or thing's development or success
16. I was dr__ned in work *v.* to die or cause to die by being unable to breathe underwater
17. tropical rai_____st *n.* a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall
18. we__e a story *v.* to make cloth, a carpet, a basket, etc., by repeatedly crossing a single thread through two sets of long threads at a right angle to them
19. n_d at each other *v.* to lower and raise one's head, sometimes several times, as to show approval, agreement, greeting, or confirmation

ANSWERS: 10. trove, 11. lifeless, 12. zebra, 13. humongous, 14. toothbrush, 15. blossom, 16. drown, 17. rainforest, 18. weave, 19. nod

20. too_____sh stand *n.* a small brush with a handle used for cleaning the teeth
21. n_d courteously *v.* to lower and raise one's head, sometimes several times, as to show approval, agreement, greeting, or confirmation
22. la_____st light *n.* a tall standing pole that supports one or more electric lamps
23. cro_____ing apps *n.* the practice of obtaining needed services, ideas, or content by enlisting the services of a large number of people, either paid or unpaid, typically via the internet
24. the speaker's dr__e *n.* a low continuous humming noise; someone who takes more time than necessary; a pilot-less aerial vehicle that is operated by remote control
25. ti_____ss charity work *adj.* characterized by a persistent and energetic effort; not easily fatigued or discouraged
26. no_____h hope *v.* to provide a person, an animal, or plant with food to make them grow and stay healthy
27. an un___n force *adj.* not seen or noticed; not perceived
28. po___r life's meaning *v.* to think deeply or carefully about something
29. po___r divine matters *v.* to think deeply or carefully about something
30. mathematical con_____on *n.* a complex or intricate twist, turn, or arrangement of something; a complex or winding thought process, argument, or situation

ANSWERS: 20. toothbrush, 21. nod, 22. lamppost, 23. crowdsourcing, 24. drone, 25. tireless, 26. nourish, 27. unseen, 28. ponder, 29. ponder, 30. convolution

31. co____e fantasy with reality *v.* to mistake one thing for another; to make somebody hard to understand
32. mo____er, she decided to go *adv.* indicating that what follows is an additional or supplementary point; furthermore; in addition to what has been said before
33. in__r quality from price *v.* to form an opinion or conclude that something is true based on existing facts
34. complex con_____on *n.* a complex or intricate twist, turn, or arrangement of something; a complex or winding thought process, argument, or situation
35. a picture on a k__e *n.* a toy made of a light frame covered with cloth or plastic and joined to a long string that you fly in the air
36. su____s \$20 billion in sales *v.* to be or do better than someone or something; to excel or go beyond the limits or standards of something
37. co_____te closely with the quality *v.* to have a connection or relationship in which one thing affects or depends on another
38. dr__n in a bath *v.* to die or cause to die by being unable to breathe underwater
39. hi_____ht bias *n.* understanding or knowledge that comes after an event has occurred; the ability to perceive or understand events with greater clarity or accuracy in retrospect
40. we__e on a loom *v.* to make cloth, a carpet, a basket, etc., by repeatedly crossing a single thread through two sets of long threads at a right angle to them

ANSWERS: 31. confuse, 32. moreover, 33. infer, 34. convolution, 35. kite, 36. surpass, 37. correlate, 38. drown, 39. hindsight, 40. weave

41. k__e string *n.* a toy made of a light frame covered with cloth or plastic and joined to a long string that you fly in the air
42. su____s imagination *v.* to be or do better than someone or something; to excel or go beyond the limits or standards of something
43. sn____t of wisdom *n.* a small piece or brief extract of something
44. but mo____er, they work well together *adv.* indicating that what follows is an additional or supplementary point; furthermore; in addition to what has been said before
45. ti____ss dedication *adj.* characterized by a persistent and energetic effort; not easily fatigued or discouraged
46. bl____m garden *n.* the reproductive structure on a flowering plant that consists of usually colorful petals and a typically green calyx (merging of sepals); the state or time of flowering; the peak of a person's or thing's development or success
47. cro____ing in climate policy *n.* the practice of obtaining needed services, ideas, or content by enlisting the services of a large number of people, either paid or unpaid, typically via the internet
48. cr____e clothes *v.* to collapse or crumple into a disordered or wrinkled mass; to fall apart or lose strength suddenly; to become emotionally distressed or overwhelmed

ANSWERS: 41. kite, 42. surpass, 43. snippet, 44. moreover, 45. tireless, 46. blossom, 47. crowdsourcing, 48. crumple

49. co_____te to the size *v.* to have a connection or relationship in which one thing affects or depends on another
50. co_____e the listener *v.* to mistake one thing for another; to make somebody hard to understand
51. in__r the possibility *v.* to form an opinion or conclude that something is true based on existing facts
52. cr_____e paper *v.* to collapse or crumple into a disordered or wrinkled mass; to fall apart or lose strength suddenly; to become emotionally distressed or overwhelmed
53. excite the ne____ns *n.* a cell that is specialized to carry information within the brain and between the brain and other parts of the body
54. stumble on a tr__e *n.* a valuable collection of rare or interesting things, usually on the earth
55. code sn_____t *n.* a small piece or brief extract of something
56. ra_____g on the balcony *n.* a horizontal barrier or fence supported by posts or columns, often used for safety or decorative purposes, particularly on balconies, staircases, or along the edge of a building or platform
57. hit a la_____st *n.* a tall standing pole that supports one or more electric lamps
58. dr__e flight *n.* a low continuous humming noise; someone who takes more time than necessary; a pilot-less aerial vehicle that is operated by remote control

ANSWERS: 49. correlate, 50. confuse, 51. infer, 52. crumple, 53. neuron, 54. trove, 55. snippet, 56. railing, 57. lamppost, 58. drone

ANSWERS:

Session 3: Fill in the Blanks

1. Her remarks _____ the debate.
v. to mistake one thing for another; to make somebody hard to understand
2. The new office building was _____ and could fit hundreds of employees comfortably.
adj. extremely large; gigantic; huge; excessively big
3. She sat quietly, _____ the difficult decision.
v. to think deeply or carefully about something
4. She _____ quietly in response to the question.
v. to lower and raise one's head, sometimes several times, as to show approval, agreement, greeting, or confirmation
5. My _____ with end-rounded bristles is excellent for gently cleaning my teeth and gums.
n. a small brush with a handle used for cleaning the teeth
6. The company is environmentally conscious, and _____ it uses sustainable materials in its products.
adv. indicating that what follows is an additional or supplementary point; furthermore; in addition to what has been said before
7. We may frequently _____ age with the frequency of disease.
v. to have a connection or relationship in which one thing affects or depends on another

ANSWERS: 1. confused, 2. humongous, 3. pondering, 4. nodded, 5. toothbrush, 6. moreover, 7. correlate

8. The plant had a _____ appearance, indicating that it was not getting enough water.

adj. without life; dead

9. The treasure _____ of ancient artifacts was a museum's dream come true.

n. a valuable collection of rare or interesting things, usually on the earth

10. The _____ distinctive black and white stripes help it blend into its surroundings in the wild.

n. a wild, horse-like mammal native to Africa with distinctive black-and-white stripes

11. The girl _____ a garland for her friend.

v. to make cloth, a carpet, a basket, etc., by repeatedly crossing a single thread through two sets of long threads at a right angle to them

12. 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

13. The cherry _____ trees in the park were in full bloom, creating a beautiful sight.

n. the reproductive structure on a flowering plant that consists of usually colorful petals and a typically green calyx (merging of sepals); the state or time of flowering; the peak of a person's or thing's development or success

14. The consequences of the pandemic remain _____ as scientists continue to research the virus.

adj. not seen or noticed; not perceived

ANSWERS: 8. lifeless, 9. trove, 10. zebra's, 11. weaves, 12. neuron, 13. blossom, 14. unseen

15. The novel's plot is full of twists and turns, creating a complex _____ of events.
- n.* a complex or intricate twist, turn, or arrangement of something; a complex or winding thought process, argument, or situation
16. The mother used her breast milk to _____ the baby.
- v.* to provide a person, an animal, or plant with food to make them grow and stay healthy
17. The destruction of the _____ is a ticking time bomb for the Earth.
- n.* a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall
18. The children held onto the _____ tightly as they walked up the steep staircase.
- n.* a horizontal barrier or fence supported by posts or columns, often used for safety or decorative purposes, particularly on balconies, staircases, or along the edge of a building or platform
19. The _____ on the corner of the street has been out for a week, making it difficult to see at night.
- n.* a tall standing pole that supports one or more electric lamps
20. He heard a _____ of sirens roar from the neighboring town.
- n.* a low continuous humming noise; someone who takes more time than necessary; a pilot-less aerial vehicle that is operated by remote control
21. The athlete's record-breaking performance _____ all expectations.
- v.* to be or do better than someone or something; to excel or go beyond the limits or standards of something

ANSWERS: 15. convoluted, 16. nourish, 17. rainforest, 18. railing, 19. lamppost, 20. drone, 21. surpassed

22. The politician was known for his _____ efforts to improve healthcare.
adj. characterized by a persistent and energetic effort; not easily fatigued or discouraged
23. The journalist saved a _____ of the interview for later reference.
n. a small piece or brief extract of something
24. Benjamin Franklin proved that lightning is electricity through experiments with _____.
n. a toy made of a light frame covered with cloth or plastic and joined to a long string that you fly in the air
25. With _____ we can see that investing in that company was a mistake.
n. understanding or knowledge that comes after an event has occurred; the ability to perceive or understand events with greater clarity or accuracy in retrospect
26. Animal desire and preference are always _____ from their behavior.
v. to form an opinion or conclude that something is true based on existing facts
27. Floods have the potential to _____ any subsurface animals easily.
v. to die or cause to die by being unable to breathe underwater
28. The car _____ after colliding with the tree.
v. to collapse or crumple into a disordered or wrinkled mass; to fall apart or lose strength suddenly; to become emotionally distressed or overwhelmed
29. The company used this _____ platform to gather ideas for its next product.
n. the practice of obtaining needed services, ideas, or content by enlisting the services of a large number of people, either paid or unpaid, typically via the internet

ANSWERS: 22. tireless, 23. snippet, 24. kites, 25. hindsight, 26. inferred, 27. drown, 28. crumpled, 29. crowdsourcing

ANSWERS: