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Poppy Crum: Technology that knows what you're feeling | TED Talk

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hat_knows_what_you_re_feeling](https://www.ted.com/talks/poppy_crum_technology_that_knows_what_you_re_feeling)

Advanced Words Only

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Session 1: Word List

poke

v. to push or prod with a sharp object or the finger

synonym: prod, jab, push

(1) **poke** around the desk, (2) **poke** a fire

They **poked** fun at each other's jokes, laughing and teasing.

upfront

adj. frank and honest; (adverb) (of payment) in advance

synonym: honest, authentic, fair

(1) an **upfront** tone, (2) pay **upfront**

He was very **upfront** with him about his intentions.

deterministic

adj. characterized by an assumption of cause and effect and the absence of chance or randomness, often used to describe scientific or engineering calculations

synonym: predictable, predetermined, certain

(1) **deterministic** approach, (2) **deterministic** system

The **deterministic** algorithm always produces the same result for a given input.

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.

poppy

n. a plant with large, showy flowers of various colors, including red, pink, yellow, and white, and a capsule containing small seeds, and some species of poppy are used to produce opium and its derivatives

(1) **poppy** tea, (2) **poppy** seeds

She wore a red **poppy** on her lapel to honor the veterans.

resonate

v. to be filled with a deep echoing sound

synonym: echo, reverberate, resound

(1) deeply **resonate** with the consumers, (2) **resonate** in the same frequency

The sound **resonates** well in this theater.

harmonic

adj. relating to the production of sound waves with a frequency that is an integral multiple of the frequency of the original wave; having a pleasing, pleasing, or agreeable sound.

synonym: melodic, balanced, harmonious

(1) **harmonic** oscillator, (2) a natural **harmonic** quality

The violin's sound was so pure and **harmonic** that it gave me chills.

recreate

v. to make something that existed previously happen or appear to exist again

synonym: renovate, vivify, revive

(1) **recreate** a single country, (2) **recreate** the feeling of the 1920s

She **recreated** the atmosphere of the pre-war age with her stage setting.

predatory

adj. living by eating other animals, especially by catching prey that is still alive

synonym: raptorial, hunting, greedy

(1) a **predatory** bird, (2) **predatory** warfare

The domesticated cat still has its **predatory** instincts.

echolocation

n. the use of reflected sound waves to locate objects, particularly by dolphins and bats.

synonym : echo sounding

(1) bat **echolocation**, (2) ultrasound for **echolocation**

Dolphins use **echolocation** for hunting fish.

insecure

adj. not firm or firmly fixed; likely to fail or give way, or not assured of safety

synonym : uncertain, unsure, unconfident

(1) an **insecure** future, (2) **insecure** attachment

Children in an unstructured environment often feel **insecure**.

bluff

v. to try to deceive someone into believing that you can or are going to do something, or that you have knowledge or abilities; (noun) a high steep bank, usually formed by river erosion

synonym : abrupt, cliff, precipice

(1) **bluff** the other side, (2) riverside **bluff**

He **bluffed** a person out of going.

tribulate

v. to cause someone to undergo severe hardship or distress; to afflict; to troubles; to suffer

synonym : afflict, trouble, suffer

(1) was **tribulated** by war, (2) **tribulate** villagers

She had to **tribulate** through many difficulties to achieve her goal.

neuroscience

n. the scientific study of the function, structure, and disorder of the brain and the nervous system

(1) the branch of **neuroscience**, (2) a theoretical concept in **neuroscience**

Our university is famous for its professors, who are well-versed in behavioral **neuroscience**.

autonomic

n. relating to the part of the nervous system that controls involuntary bodily functions, such as heartbeat, digestion, breathing, and glandular secretion

synonym : involuntary, automatic, self-regulating

(1) **autonomic** imbalance, (2) **autonomic** response

The **autonomic** nervous system controls involuntary bodily functions.

dilate

v. to make something wider, larger, or more open

synonym : widen, open, enlarge

(1) **dilate** the bronchial tubes, (2) **dilate** blood vessel

The pupils of the eyes **dilate** in low light.

rev

n. a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute

synonym : revolution, RPM, speed

(1) low- **rev** engine, (2) **rev** up the crowd

He stepped on the gas pedal, and the engine released a loud **rev**.

amalgam

n. an alloy of mercury with another metal, used especially to fill holes in teeth; a mixture or combination of diverse things

synonym : mixture, alloy, admixture

(1) **amalgam** alloy, (2) an **amalgam** of hope and fear

His theory is an **amalgam** of earlier ideas.

radiate

v. to spread out or emit something, such as light or heat, in all directions

synonym : give off, scatter, beam

(1) **radiate** an aura, (2) **radiate** in all directions

Roads **radiate** from the famous building in the center of the city.

psychosis

n. a serious mental disorder characterized by a disconnection from reality, often including hallucinations, delusions, and a lack of insight into one's condition

synonym : madness, delusion, insanity

(1) **psychosis** treatment, (2) drug-induced **psychosis**
He was diagnosed with **psychosis** and was hospitalized for treatment.

dementia

n. a severe decline in cognitive function, especially memory, as a result of disease or injury
synonym: cognitive decline, memory loss, Alzheimer's disease

(1) **dementia** patients, (2) probably have **dementia**
The study found that regular exercise can help to prevent the onset of **dementia** in older age.

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.

acetone

n. a colorless, volatile liquid that is commonly used as a solvent, especially in nail polish removers and paint thinners, often used in the production of plastics, fibers, and other chemicals

synonym: solvent, thinner, dissolver

(1) strong **acetone**, (2) removing paint with **acetone**
She used **acetone** nail polish remover to take off the stubborn glitter polish.

eerie

adj. strange, or frightening; suggestive of the supernatural

synonym: bizarre, creepy, dreadful

(1) **eerie** silence, (2) the **eerie** whistle of dropping bombs
The street was entirely silent and a bit **eerie**.

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**.

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.

suspense

n. a state of uncertain or anxious anticipation or waiting; a feeling of excitement or apprehension that arises from the uncertainty of an outcome

synonym: tension, anticipation, excitement

(1) **suspense** thriller, (2) **suspense-filled** movie

The mystery novel was full of **suspense**, keeping readers on the edge of their seats until the end.

reproducibility

n. the ability of an experiment, study, or result to be replicated or repeated by different researchers or laboratories, often seen as a key aspect of scientific rigor

synonym: repeatability, replicability, consistency

(1) **reproducibility** measure, (2) scientific **reproducibility**

The researchers spent considerable effort to ensure the **reproducibility** of their experiments.

sentimental

adj. connected with or resulting from someone's emotions, rather than reason or realism

synonym: bathetic, drippy, maudlin

(1) in a **sentimental** mood, (2) **sentimental** damage

Stop being **sentimental** and always speak the truth.

empath

n. a person who can understand and share the feelings and experiences of others, often described as having a high degree of empathy

(1) **empath** skills, (2) **empath** in a corporate environment

Being an **empath** in a relationship requires the partner to

understand the empath's unique emotional needs.

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.

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.

empathy

n. the ability to share another person's feelings or experiences by imagining that person's situation

synonym: compassion, sympathy, tenderness

(1) full of **empathy**, (2) **empathy** for patients

Empathy is also necessary to understand history.

Session 2: Spelling

- em____y for patients *n.* the ability to share another person's feelings or experiences by imagining that person's situation
- a natural ha____ic quality *adj.* relating to the production of sound waves with a frequency that is an integral multiple of the frequency of the original wave; having a pleasing, pleasing, or agreeable sound.
- in a sen____al mood *adj.* connected with or resulting from someone's emotions, rather than reason or realism
- vi____ze data *v.* to form a mental image or concept of something; to make something visible
- di____e blood vessel *v.* to make something wider, larger, or more open
- au____ic imbalance *n.* relating to the part of the nervous system that controls involuntary bodily functions, such as heartbeat, digestion, breathing, and glandular secretion
- deeply re____te with the consumers *v.* to be filled with a deep echoing sound
- an in____re future *adj.* not firm or firmly fixed; likely to fail or give way, or not assured of safety
- an am____m of hope and fear *n.* an alloy of mercury with another metal, used especially to fill holes in teeth; a mixture or combination of diverse things
- strong ac____e *n.* a colorless, volatile liquid that is commonly used as a solvent, especially in nail polish removers and paint thinners, often used in the production of plastics, fibers, and other chemicals

ANSWERS: 1. empathy, 2. harmonic, 3. sentimental, 4. visualize, 5. dilate, 6. autonomic, 7. resonate, 8. insecure, 9. amalgam, 10. acetone

11. was tr_____ted by war *v.* to cause someone to undergo severe hardship or distress; to afflict; to troubles; to suffer
12. am_____m alloy *n.* an alloy of mercury with another metal, used especially to fill holes in teeth; a mixture or combination of diverse things
13. ee__e silence *adj.* strange, or frightening; suggestive of the supernatural
14. a pr_____ry bird *adj.* living by eating other animals, especially by catching prey that is still alive
15. op_____ne occasion *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
16. re_____te in the same frequency *v.* to be filled with a deep echoing sound
17. si__e off the hair over the flames *v.* to burn something slightly or superficially, usually by mistake
18. bl__f the other side *v.* to try to deceive someone into believing that you can or are going to do something, or that you have knowledge or abilities; (noun) a high steep bank, usually formed by river erosion
19. ra_____e an aura *v.* to spread out or emit something, such as light or heat, in all directions
20. in_____re attachment *adj.* not firm or firmly fixed; likely to fail or give way, or not assured of safety
21. pay up_____t *adj.* frank and honest; (adverb) (of payment) in advance

ANSWERS: 11. tribulate, 12. amalgam, 13. eerie, 14. predatory, 15. opportune, 16. resonate, 17. singe, 18. bluff, 19. radiate, 20. insecure, 21. upfront

22. bat ech_____ion *n.* the use of reflected sound waves to locate objects, particularly by dolphins and bats.
23. removing paint with ac_____e *n.* a colorless, volatile liquid that is commonly used as a solvent, especially in nail polish removers and paint thinners, often used in the production of plastics, fibers, and other chemicals
24. au_____t immunity *v.* to increase the size, extent, quantity, etc. of something by adding something to it
25. p__e around the desk *v.* to push or prod with a sharp object or the finger
26. po__y seeds *n.* a plant with large, showy flowers of various colors, including red, pink, yellow, and white, and a capsule containing small seeds, and some species of poppy are used to produce opium and its derivatives
27. 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
28. scientific rep_____ity *n.* the ability of an experiment, study, or result to be replicated or repeated by different researchers or laboratories, often seen as a key aspect of scientific rigor
29. vi_____ze flying through space *v.* to form a mental image or concept of something; to make something visible

ANSWERS: 22. echolocation, 23. acetone, 24. augment, 25. poke, 26. poppy, 27. Alzheimer, 28. reproducibility, 29. visualize

30. the ee__e whistle of dropping bombs *adj.* strange, or frightening; suggestive of the supernatural
31. p__e a fire *v.* to push or prod with a sharp object or the finger
32. ultrasound for ech_____ion *n.* the use of reflected sound waves to locate objects, particularly by dolphins and bats.
33. ex___e cigarette smoke *v.* to breathe out air or vapor from the lungs or mouth; to release or emit something slowly or gently
34. em___h in a corporate environment *n.* a person who can understand and share the feelings and experiences of others, often described as having a high degree of empathy
35. r_v up the crowd *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
36. tr_____te villagers *v.* to cause someone to undergo severe hardship or distress; to afflict; to troubles; to suffer
37. ps_____is treatment *n.* a serious mental disorder characterized by a disconnection from reality, often including hallucinations, delusions, and a lack of insight into one's condition
38. si__e the edges of a fabric *v.* to burn something slightly or superficially, usually by mistake
39. drug-induced ps_____is *n.* a serious mental disorder characterized by a disconnection from reality, often including hallucinations, delusions, and a lack of insight into one's condition

ANSWERS: 30. eerie, 31. poke, 32. echolocation, 33. exhale, 34. empath, 35. rev, 36. tribulate, 37. psychosis, 38. singe, 39. psychosis

40. the branch of neu_____nce *n.* the scientific study of the function, structure, and disorder of the brain and the nervous system
41. a theoretical concept in neu_____nce *n.* the scientific study of the function, structure, and disorder of the brain and the nervous system
42. ra_____e in all directions *v.* to spread out or emit something, such as light or heat, in all directions
43. an up_____t tone *adj.* frank and honest; (adverb) (of payment) in advance
44. an op_____ne remark *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
45. sen_____al damage *adj.* connected with or resulting from someone's emotions, rather than reason or realism
46. det_____tic system *adj.* characterized by an assumption of cause and effect and the absence of chance or randomness, often used to describe scientific or engineering calculations
47. ha_____ic oscillator *adj.* relating to the production of sound waves with a frequency that is an integral multiple of the frequency of the original wave; having a pleasing, pleasing, or agreeable sound.
48. riverside bl__f *v.* to try to deceive someone into believing that you can or are going to do something, or that you have knowledge or abilities; (noun) a high steep bank, usually formed by river erosion

ANSWERS: 40. neuroscience, 41. neuroscience, 42. radiate, 43. upfront, 44. opportune, 45. sentimental, 46. deterministic, 47. harmonic, 48. bluff

49. po__y tea *n.* a plant with large, showy flowers of various colors, including red, pink, yellow, and white, and a capsule containing small seeds, and some species of poppy are used to produce opium and its derivatives
50. 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
51. re_____te the feeling of the 1920s *v.* to make something that existed previously happen or appear to exist again
52. su_____se-filled movie *n.* a state of uncertain or anxious anticipation or waiting; a feeling of excitement or apprehension that arises from the uncertainty of an outcome
53. pr_____ry warfare *adj.* living by eating other animals, especially by catching prey that is still alive
54. au_____t the reality *v.* to increase the size, extent, quantity, etc. of something by adding something to it
55. de_____ia patients *n.* a severe decline in cognitive function, especially memory, as a result of disease or injury
56. re_____te a single country *v.* to make something that existed previously happen or appear to exist again

ANSWERS: 49. poppy, 50. Alzheimer, 51. recreate, 52. suspense, 53. predatory, 54. augment, 55. dementia, 56. recreate

57. rep_____ity measure *n.* the ability of an experiment, study, or result to be replicated or repeated by different researchers or laboratories, often seen as a key aspect of scientific rigor
58. full of em_____y *n.* the ability to share another person's feelings or experiences by imagining that person's situation
59. su_____se thriller *n.* a state of uncertain or anxious anticipation or waiting; a feeling of excitement or apprehension that arises from the uncertainty of an outcome
60. low-r_v engine *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
61. di_____e the bronchial tubes *v.* to make something wider, larger, or more open
62. det_____tic approach *adj.* characterized by an assumption of cause and effect and the absence of chance or randomness, often used to describe scientific or engineering calculations
63. au_____ic response *n.* relating to the part of the nervous system that controls involuntary bodily functions, such as heartbeat, digestion, breathing, and glandular secretion
64. probably have de_____ia *n.* a severe decline in cognitive function, especially memory, as a result of disease or injury

ANSWERS: 57. reproducibility, 58. empathy, 59. suspense, 60. rev, 61. dilate, 62. deterministic, 63. autonomic, 64. dementia

65. 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

66. em___h skills

n. a person who can understand and share the feelings and experiences of others, often described as having a high degree of empathy

ANSWERS: 65. exhale, 66. empath

Session 3: Fill in the Blanks

1. The phone rang at the most _____ time.
adj. suitable or happening at a time that is suitable or convenient for a particular purpose
2. The violin's sound was so pure and _____ that it gave me chills.
adj. relating to the production of sound waves with a frequency that is an integral multiple of the frequency of the original wave; having a pleasing, pleasing, or agreeable sound.
3. She _____ the atmosphere of the pre-war age with her stage setting.
v. to make something that existed previously happen or appear to exist again
4. He stepped on the gas pedal, and the engine released a loud _____.
n. a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
5. The pupils of the eyes _____ in low light.
v. to make something wider, larger, or more open
6. 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
7. The street was entirely silent and a bit _____.
adj. strange, or frightening; suggestive of the supernatural

ANSWERS: 1. opportune, 2. harmonic, 3. recreated, 4. rev, 5. dilate, 6. Alzheimer's, 7. eerie

8. The mystery novel was full of _____ keeping readers on the edge of their seats until the end.
- n.* a state of uncertain or anxious anticipation or waiting; a feeling of excitement or apprehension that arises from the uncertainty of an outcome
9. Being an _____ in a relationship requires the partner to understand the empath's unique emotional needs.
- n.* a person who can understand and share the feelings and experiences of others, often described as having a high degree of empathy
10. The domesticated cat still has its _____ instincts.
- adj.* living by eating other animals, especially by catching prey that is still alive
11. I didn't realize the iron was still hot and _____ my dress.
- v.* to burn something slightly or superficially, usually by mistake
12. His theory is an _____ of earlier ideas.
- n.* an alloy of mercury with another metal, used especially to fill holes in teeth; a mixture or combination of diverse things
13. He _____ a person out of going.
- v.* to try to deceive someone into believing that you can or are going to do something, or that you have knowledge or abilities; (noun) a high steep bank, usually formed by river erosion
14. She wore a red _____ on her lapel to honor the veterans.
- n.* a plant with large, showy flowers of various colors, including red, pink, yellow, and white, and a capsule containing small seeds, and some species of poppy are used to produce opium and its derivatives

ANSWERS: 8. suspense, 9. empath, 10. predatory, 11. singed, 12. amalgam, 13. bluffed, 14. poppy

15. The _____ nervous system controls involuntary bodily functions.
n. relating to the part of the nervous system that controls involuntary bodily functions, such as heartbeat, digestion, breathing, and glandular secretion
16. Roads _____ from the famous building in the center of the city.
v. to spread out or emit something, such as light or heat, in all directions
17. The researchers spent considerable effort to ensure the _____ of their experiments.
n. the ability of an experiment, study, or result to be replicated or repeated by different researchers or laboratories, often seen as a key aspect of scientific rigor
18. He was very _____ with him about his intentions.
adj. frank and honest; (adverb) (of payment) in advance
19. Stop being _____ and always speak the truth.
adj. connected with or resulting from someone's emotions, rather than reason or realism
20. The sound _____ well in this theater.
v. to be filled with a deep echoing sound
21. 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
22. Our university is famous for its professors, who are well-versed in behavioral _____.
n. the scientific study of the function, structure, and disorder of the brain and the nervous system

ANSWERS: 15. autonomic, 16. radiate, 17. reproducibility, 18. upfront, 19. sentimental, 20. resonates, 21. visualize, 22. neuroscience

23. 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
24. The study found that regular exercise can help to prevent the onset of _____ in older age.
- n.* a severe decline in cognitive function, especially memory, as a result of disease or injury
25. She had to _____ through many difficulties to achieve her goal.
- v.* to cause someone to undergo severe hardship or distress; to afflict; to troubles; to suffer
26. They _____ fun at each other's jokes, laughing and teasing.
- v.* to push or prod with a sharp object or the finger
27. Economic factors and monetary policy _____ inflation.
- v.* to increase the size, extent, quantity, etc. of something by adding something to it
28. He was diagnosed with _____ and was hospitalized for treatment.
- n.* a serious mental disorder characterized by a disconnection from reality, often including hallucinations, delusions, and a lack of insight into one's condition
29. Children in an unstructured environment often feel _____.
- adj.* not firm or firmly fixed; likely to fail or give way, or not assured of safety
30. _____ is also necessary to understand history.
- n.* the ability to share another person's feelings or experiences by imagining that person's situation

ANSWERS: 23. exhale, 24. dementia, 25. tribulate, 26. poked, 27. augmented, 28. psychosis, 29. insecure, 30. Empathy

31. She used _____ nail polish remover to take off the stubborn glitter polish.
- n.* a colorless, volatile liquid that is commonly used as a solvent, especially in nail polish removers and paint thinners, often used in the production of plastics, fibers, and other chemicals
32. The _____ algorithm always produces the same result for a given input.
- adj.* characterized by an assumption of cause and effect and the absence of chance or randomness, often used to describe scientific or engineering calculations
33. Dolphins use _____ for hunting fish.
- n.* the use of reflected sound waves to locate objects, particularly by dolphins and bats.

ANSWERS: 31. acetone, 32. deterministic, 33. echolocation