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Carolyn Freiwald: The hidden history found in your teeth | TED Talk

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Advanced Words Only

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Session 1: Word List

migrant

n. a traveler who moves from one region or country to another, especially to find work or better living conditions; a bird or an animal that moves from one place to another

synonym: immigrant, itinerant, transient

(1) **migrant** worker, (2) the movement of **migrant** birds

The government revoked his license to employ **migrant** labor crews.

cling

v. to hold onto something tightly; to be closely attached to someone or something

synonym: stick, adhere, attach

(1) **cling** onto power, (2) **cling** tightly to the skin

He **clings** to the hope that he will find a job soon.

archaeology

n. the branch of anthropology that studies prehistoric people and their cultures

(1) the institute of **archaeology**, (2) prehistoric **archaeology**

She teaches **archaeology** at the local university.

gladiator

n. a person who fought in ancient Rome's public contests, typically armed with weapons and wearing armor to entertain audiences

synonym

: fighter, warrior, combatant

(1) act like a **gladiator**, (2) the Christian **gladiator**

The **gladiator's** training regimen included physical conditioning, weapons training, and strategy.

floss

n. a thin thread or cord used to clean the spaces between the teeth

synonym: thread, yarn, string

(1) candy **floss**, (2) dental **floss**

Be sure to use a clean section of **floss** for each tooth to avoid spreading bacteria.

incisor

n. one of the front teeth in the human or animal mouth that are used for biting or cutting food; a tooth adapted for cutting

synonym: front tooth, fang

(1) sharpened **incisors**, (2) upper **incisor**

The dentist extracted my **incisor** due to decay and infection.

ancestry

n. the family or the ethnic descent that you come from

synonym: ancestor, family, descent

(1) a distinguished **ancestry**, (2) prehuman **ancestry**

He looked down on the royal **ancestry** of the neighboring country.

shovel

n. a tool with a handle and broad scoop or blade used for digging or moving Earth, coal, snow, or other granular materials

synonym: excavator, scoop, trowel

(1) snow **shovel**, (2) **shovel** blade

The construction workers used a power **shovel** to dig the foundation for the building.

ancestor

n. a person from whom one is descended; a forefather

synonym: forebear, forefather, progenitor

(1) **ancestor** language, (2) earliest human **ancestor**

My remote **ancestor** immigrated to the United States from Ireland in the 1800s.

enamel

n. a hard, glossy coating that is applied to surfaces such as metal, glass, or ceramics to protect them from wear, corrosion, or weathering; the hard, white outer layer of teeth

synonym : glaze, varnish, coating

(1) **enamel** coating, (2) **enamel** mugs

The dentist recommended using toothpaste with extra **enamel** protection to prevent cavities.

strontium

n. a chemical element with the symbol Sr and atomic number 38, a soft, silvery-white metal that is highly reactive with air and water and is used in various applications, including in nuclear medicine

(1) **strontium** isotope, (2) **strontium** dating

The **strontium** in some medical isotopes can be used in cancer treatment and diagnosis.

molar

n. one of the large teeth located in the back of the mouth used for grinding and chewing food; a dental drill used for removing decay or shaping teeth; (adjective) describing a solution in which the concentration of a solute is expressed in moles per liter (mol/L)

synonym : tooth, grinder, premolar

(1) **molar** tooth, (2) **molar** absorbandy index

I have a cavity in my **molar** and need to see the dentist.

miner

n. a person who works in a mine (= excavation in the Earth from which ores and minerals are extracted), especially one who extracts coal, minerals, or precious metals from the Earth

synonym : digger, excavator, miner

(1) **miner** strike, (2) **miner** industry

The coal **miner** worked tirelessly to extract valuable minerals from deep underground.

plaza

n. a public square, marketplace, or similar open area in a town, especially in Spanish-speaking countries

synonym : park, square, center

(1) main **plaza**, (2) memorial **plaza**

Three young men were busking in the shopping **plaza**.

carve

v. to create something by cutting wood or stone; to turn sharply

synonym : sculpt, engrave, cut

(1) **carve** a statue, (2) **carve** my name on the plate

This statue is **carved** from a single tree trunk.

inauguration

n. the formal beginning or initiation of something, especially the beginning of a political leader's term in office; a ceremony marking the beginning of an organization or event

synonym : swearing-in, investiture, initiation

(1) **inauguration** ceremony, (2) presidential **inauguration**

The **inauguration** of the new station was a great success.

macaw

n. a large, colorful parrot with a long tail found in tropical and subtropical regions of the Americas, known for its striking plumage and its ability to mimic human speech and sounds

synonym : parrot, bird, avian

(1) rare **macaw** species, (2) red-bellied **macaw**

The **macaw's** colorful feathers brightened up the otherwise drab jungle.

jaguar

n. a large animal of the cat family that has a yellowish-brown coat with black spots, mainly found in parts of Central and South America

synonym : cat, feline, panther

(1) a wild **jaguar**, (2) a female **jaguar**

Humans have developed the **jaguar's** habitat over several decades.

dynasty

n. a sequence of influential leaders who are all from the same family or a period when they rule a country

(1) **dynasty** of China, (2) during the Ming **dynasty**
During the Habsburg **dynasty**, colonization began.

depict

v. to illustrate someone or something in a photograph

synonym: illustrate, describe, express

(1) **depict** a scene, (2) **depict** a feeling of isolation
His son had accurately **depicted** the bloom.

jade

n. a green or white mineral, typically composed of jadeite or nephrite, used for making jewelry and ornamental objects; an old or over-worked horse

synonym: gemstone, stone, mineral

(1) a **jade** accessory, (2) decorated with **jade**
The **jade** sculpture was worth a fortune.

symbolize

v. to represent or stand for something else, particularly an abstract concept or idea; to be an emblem or sign of something

synonym: represent, signify, emblemize

(1) **symbolize** hope, (2) **symbolize** freedom

In many cultures, the color white **symbolizes** purity and innocence.

pelt

v. to hit or throw things at someone or something repeatedly and forcefully; to rain heavily

synonym: hurl, fling, throw

(1) **pelt** him with stones, (2) **pelt** with questions

The crowd **pelted** the stage with bottles and cans in protest.

outpost

n. a small military camp at some distance from the main army, used mainly to observe an enemy's movements, etc.

synonym: frontier, settlement

(1) **outpost** area, (2) military **outpost**

With the war's end, they have begun a gradual retreat from

their **outposts**.

craftsman

n. a skilled worker who creates handmade objects, especially one who works with wood, metal, or other materials

synonym : artisan, mechanic, workman

(1) **craftsman** skill, (2) a subtle **craftsman**

The adept **craftsman** carefully carved the wooden figurine with precision and skill.

rampant

adj. (especially of something bad or unwelcome) flourishing or spreading everywhere in a way that cannot be controlled

synonym : prevalent, dense, uncontrolled

(1) **rampant** growth of weeds, (2) **rampant** corruption

In an overly protective industry, violations of the ethics rules tend to be **rampant**.

excavate

v. to dig or remove earth, rocks, or other materials from the ground or a site, often to uncover or discover something

synonym : dig, unearth, extract

(1) **excavate** a deep hole, (2) **excavate** soil

The archaeologists **excavated** the ruins of an ancient city buried under the desert sands.

bury

v. to place a dead body in the ground, grave, or tomb

synonym : entomb, sink, forget

(1) **bury** in the earth, (2) **bury** emotion

There is plenty of space to **bury** everyone.

settler

n. a person who moved with a group of others to live in a different country or area

synonym : frontiersperson, immigrant, emigrant

(1) new **settlers**, (2) **settlers** on some foreign shore

A large proportion of railway workers in **settler** colonies were white.

cholera

n. a severe infectious disease that causes acute diarrhea, vomiting, and dehydration, often resulting in a rapid and dangerous loss of body fluids and electrolytes

synonym: infectious disease, epidemic, plague

(1) **cholera** toxin, (2) **cholera** epidemic

The outbreak of **cholera** was a major health crisis in the 19th century.

enslave

v. to make someone a slave; to deprive someone of their freedom of choice or action

synonym: coerce, deprive, imprison

(1) **enslave** poor peasants, (2) **enslave** indigenous people

Her beauty **enslaved** me completely.

sharecropper

n. a farmer who cultivates a piece of land owned by someone else, usually in exchange for a share of the crops produced

synonym: tenant farmer, cropper, farmer

(1) **sharecropper** system, (2) **sharecropper** labor

Many **sharecroppers** in the South were impoverished and trapped in a cycle of debt.

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.

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. snow sh___l | <i>n.</i> a tool with a handle and broad scoop or blade used for digging or moving Earth, coal, snow, or other granular materials |
| 2. great-gra_____nt | <i>n.</i> a parent of one's father or mother |
| 3. the Christian gl_____or | <i>n.</i> a person who fought in ancient Rome's public contests, typically armed with weapons and wearing armor to entertain audiences |
| 4. cr_____an skill | <i>n.</i> a skilled worker who creates handmade objects, especially one who works with wood, metal, or other materials |
| 5. se_____rs on some foreign shore | <i>n.</i> a person who moved with a group of others to live in a different country or area |
| 6. sha_____per labor | <i>n.</i> a farmer who cultivates a piece of land owned by someone else, usually in exchange for a share of the crops produced |
| 7. ex_____te a deep hole | <i>v.</i> to dig or remove earth, rocks, or other materials from the ground or a site, often to uncover or discover something |
| 8. de____t a feeling of isolation | <i>v.</i> to illustrate someone or something in a photograph |
| 9. person of gra_____nt age | <i>n.</i> a parent of one's father or mother |
| 10. en___l coating | <i>n.</i> a hard, glossy coating that is applied to surfaces such as metal, glass, or ceramics to protect them from wear, corrosion, or weathering; the hard, white outer layer of teeth |

ANSWERS: 1. shovel, 2. grandparent, 3. gladiator, 4. craftsman, 5. settler, 6. sharecropper, 7. excavate, 8. depict, 9. grandparent, 10. enamel

- | | | |
|----------------------------------|----|---|
| 11. de___t a scene | v. | to illustrate someone or something in a photograph |
| 12. sy_____ze freedom | v. | to represent or stand for something else, particularly an abstract concept or idea; to be an emblem or sign of something |
| 13. a j__e accessory | n. | a green or white mineral, typically composed of jadeite or nephrite, used for making jewelry and ornamental objects; an old or over-worked horse |
| 14. the institute of arc_____gy | n. | the branch of anthropology that studies prehistoric people and their cultures |
| 15. rec_____ct the original text | v. | to build or form something again that has been damaged or destroyed |
| 16. new se_____rs | n. | a person who moved with a group of others to live in a different country or area |
| 17. st_____um dating | n. | a chemical element with the symbol Sr and atomic number 38, a soft, silvery-white metal that is highly reactive with air and water and is used in various applications, including in nuclear medicine |
| 18. main pl__a | n. | a public square, marketplace, or similar open area in a town, especially in Spanish-speaking countries |
| 19. rare ma__w species | n. | a large, colorful parrot with a long tail found in tropical and subtropical regions of the Americas, known for its striking plumage and its ability to mimic human speech and sounds |

ANSWERS: 11. depict, 12. symbolize, 13. jade, 14. archaeology, 15. reconstruct, 16. settler, 17. strontium, 18. plaza, 19. macaw

20. military ou____t *n.* a small military camp at some distance from the main army, used mainly to observe an enemy's movements, etc.
21. cl__g tightly to the skin *v.* to hold onto something tightly; to be closely attached to someone or something
22. p__t with questions *v.* to hit or throw things at someone or something repeatedly and forcefully; to rain heavily
23. b__y in the earth *v.* to place a dead body in the ground, grave, or tomb
24. mi__r industry *n.* a person who works in a mine (= excavation in the Earth from which ores and minerals are extracted), especially one who extracts coal, minerals, or precious metals from the Earth
25. b__y emotion *v.* to place a dead body in the ground, grave, or tomb
26. act like a gl____or *n.* a person who fought in ancient Rome's public contests, typically armed with weapons and wearing armor to entertain audiences
27. dental fl__s *n.* a thin thread or cord used to clean the spaces between the teeth
28. memorial pl__a *n.* a public square, marketplace, or similar open area in a town, especially in Spanish-speaking countries
29. prehuman an____ry *n.* the family or the ethnic descent that you come from

ANSWERS: 20. outpost, 21. cling, 22. pelt, 23. bury, 24. miner, 25. bury, 26. gladiator, 27. floss, 28. plaza, 29. ancestry

30. p__t him with stones *v.* to hit or throw things at someone or something repeatedly and forcefully; to rain heavily
31. sy_____ze hope *v.* to represent or stand for something else, particularly an abstract concept or idea; to be an emblem or sign of something
32. ca__e my name on the plate *v.* to create something by cutting wood or stone; to turn sharply
33. presidential ina_____ion *n.* the formal beginning or initiation of something, especially the beginning of a political leader's term in office; a ceremony marking the beginning of an organization or event
34. en___l mugs *n.* a hard, glossy coating that is applied to surfaces such as metal, glass, or ceramics to protect them from wear, corrosion, or weathering; the hard, white outer layer of teeth
35. en_____e indigenous people *v.* to make someone a slave; to deprive someone of their freedom of choice or action
36. prehistoric arc_____gy *n.* the branch of anthropology that studies prehistoric people and their cultures
37. earliest human an_____or *n.* a person from whom one is descended; a forefather
38. mo__r tooth *n.* one of the large teeth located in the back of the mouth used for grinding and chewing food; a dental drill used for removing decay or shaping teeth; (adjective) describing a solution in which the concentration of a solute is expressed in moles per liter (mol/L)

ANSWERS: 30. pelt, 31. symbolize, 32. carve, 33. inauguration, 34. enamel, 35. enslave, 36. archaeology, 37. ancestor, 38. molar

39. st_____um isotope *n.* a chemical element with the symbol Sr and atomic number 38, a soft, silvery-white metal that is highly reactive with air and water and is used in various applications, including in nuclear medicine
40. sh___l blade *n.* a tool with a handle and broad scoop or blade used for digging or moving Earth, coal, snow, or other granular materials
41. cl__g onto power *v.* to hold onto something tightly; to be closely attached to someone or something
42. ex_____te soil *v.* to dig or remove earth, rocks, or other materials from the ground or a site, often to uncover or discover something
43. during the Ming dy_____y *n.* a sequence of influential leaders who are all from the same family or a period when they rule a country
44. sha_____per system *n.* a farmer who cultivates a piece of land owned by someone else, usually in exchange for a share of the crops produced
45. en_____e poor peasants *v.* to make someone a slave; to deprive someone of their freedom of choice or action
46. ra_____t corruption *adj.* (especially of something bad or unwelcome) flourishing or spreading everywhere in a way that cannot be controlled
47. mi_____t worker *n.* a traveler who moves from one region or country to another, especially to find work or better living conditions; a bird or an animal that moves from one place to another

ANSWERS: 39. strontium, 40. shovel, 41. cling, 42. excavate, 43. dynasty, 44. sharecropper, 45. enslave, 46. rampant, 47. migrant

48. a female ja___r *n.* a large animal of the cat family that has a yellowish-brown coat with black spots, mainly found in parts of Central and South America
49. ch_____a toxin *n.* a severe infectious disease that causes acute diarrhea, vomiting, and dehydration, often resulting in a rapid and dangerous loss of body fluids and electrolytes
50. upper in_____r *n.* one of the front teeth in the human or animal mouth that are used for biting or cutting food; a tooth adapted for cutting
51. the movement of mi_____t birds *n.* a traveler who moves from one region or country to another, especially to find work or better living conditions; a bird or an animal that moves from one place to another
52. ou_____t area *n.* a small military camp at some distance from the main army, used mainly to observe an enemy's movements, etc.
53. mo__r absorbancy index *n.* one of the large teeth located in the back of the mouth used for grinding and chewing food; a dental drill used for removing decay or shaping teeth; (adjective) describing a solution in which the concentration of a solute is expressed in moles per liter (mol/L)
54. a distinguished an_____ry *n.* the family or the ethnic descent that you come from
55. ch_____a epidemic *n.* a severe infectious disease that causes acute diarrhea, vomiting, and dehydration, often resulting in a rapid and dangerous loss of body fluids and electrolytes

ANSWERS: 48. jaguar, 49. cholera, 50. incisor, 51. migrant, 52. outpost, 53. molar, 54. ancestry, 55. cholera

56. a wild ja___r *n.* a large animal of the cat family that has a yellowish-brown coat with black spots, mainly found in parts of Central and South America
57. ca__e a statue *v.* to create something by cutting wood or stone; to turn sharply
58. sharpened in____rs *n.* one of the front teeth in the human or animal mouth that are used for biting or cutting food; a tooth adapted for cutting
59. rec_____ct an image *v.* to build or form something again that has been damaged or destroyed
60. candy fl__s *n.* a thin thread or cord used to clean the spaces between the teeth
61. red-bellied ma__w *n.* a large, colorful parrot with a long tail found in tropical and subtropical regions of the Americas, known for its striking plumage and its ability to mimic human speech and sounds
62. ra____t growth of weeds *adj.* (especially of something bad or unwelcome) flourishing or spreading everywhere in a way that cannot be controlled
63. mi__r strike *n.* a person who works in a mine (= excavation in the Earth from which ores and minerals are extracted), especially one who extracts coal, minerals, or precious metals from the Earth
64. a subtle cr_____an *n.* a skilled worker who creates handmade objects, especially one who works with wood, metal, or other materials

ANSWERS: 56. jaguar, 57. carve, 58. incisor, 59. reconstruct, 60. floss, 61. macaw, 62. rampant, 63. miner, 64. craftsman

65. an____ or language *n.* a person from whom one is descended; a forefather
66. dy____y of China *n.* a sequence of influential leaders who are all from the same family or a period when they rule a country
67. decorated with j__e *n.* a green or white mineral, typically composed of jadeite or nephrite, used for making jewelry and ornamental objects; an old or over-worked horse
68. ina_____ion ceremony *n.* the formal beginning or initiation of something, especially the beginning of a political leader's term in office; a ceremony marking the beginning of an organization or event

ANSWERS: 65. ancestor, 66. dynasty, 67. jade, 68. inauguration

Session 3: Fill in the Blanks

1. With the war's end, they have begun a gradual retreat from their _____.
n. a small military camp at some distance from the main army, used mainly to observe an enemy's movements, etc.
2. The _____ in some medical isotopes can be used in cancer treatment and diagnosis.
n. a chemical element with the symbol Sr and atomic number 38, a soft, silvery-white metal that is highly reactive with air and water and is used in various applications, including in nuclear medicine
3. She was close to her paternal _____ and often spent summers with them.
n. a parent of one's father or mother
4. The _____ of the new station was a great success.
n. the formal beginning or initiation of something, especially the beginning of a political leader's term in office; a ceremony marking the beginning of an organization or event
5. He looked down on the royal _____ of the neighboring country.
n. the family or the ethnic descent that you come from
6. In many cultures, the color white _____ purity and innocence.
v. to represent or stand for something else, particularly an abstract concept or idea; to be an emblem or sign of something
7. His son had accurately _____ the bloom.
v. to illustrate someone or something in a photograph

ANSWERS: 1. outposts, 2. strontium, 3. grandparents, 4. inauguration, 5. ancestry, 6. symbolizes, 7. depicted

8. The dentist recommended using toothpaste with extra _____ protection to prevent cavities.
- n.* a hard, glossy coating that is applied to surfaces such as metal, glass, or ceramics to protect them from wear, corrosion, or weathering; the hard, white outer layer of teeth
9. Humans have developed the _____ habitat over several decades.
- n.* a large animal of the cat family that has a yellowish-brown coat with black spots, mainly found in parts of Central and South America
10. The _____ colorful feathers brightened up the otherwise drab jungle.
- n.* a large, colorful parrot with a long tail found in tropical and subtropical regions of the Americas, known for its striking plumage and its ability to mimic human speech and sounds
11. The coal _____ worked tirelessly to extract valuable minerals from deep underground.
- n.* a person who works in a mine (= excavation in the Earth from which ores and minerals are extracted), especially one who extracts coal, minerals, or precious metals from the Earth
12. During the Habsburg _____ colonization began.
- n.* a sequence of influential leaders who are all from the same family or a period when they rule a country
13. The adept _____ carefully carved the wooden figurine with precision and skill.
- n.* a skilled worker who creates handmade objects, especially one who works with wood, metal, or other materials

ANSWERS: 8. enamel, 9. jaguar's, 10. macaw's, 11. miner, 12. dynasty, 13. craftsman

14. Three young men were busking in the shopping _____.
- n.* a public square, marketplace, or similar open area in a town, especially in Spanish-speaking countries
15. The outbreak of _____ was a major health crisis in the 19th century.
- n.* a severe infectious disease that causes acute diarrhea, vomiting, and dehydration, often resulting in a rapid and dangerous loss of body fluids and electrolytes
16. The _____ sculpture was worth a fortune.
- n.* a green or white mineral, typically composed of jadeite or nephrite, used for making jewelry and ornamental objects; an old or over-worked horse
17. I have a cavity in my _____ and need to see the dentist.
- n.* one of the large teeth located in the back of the mouth used for grinding and chewing food; a dental drill used for removing decay or shaping teeth; (adjective) describing a solution in which the concentration of a solute is expressed in moles per liter (mol/L)
18. They've decided to _____ a ruined castle.
- v.* to build or form something again that has been damaged or destroyed
19. There is plenty of space to _____ everyone.
- v.* to place a dead body in the ground, grave, or tomb
20. The government revoked his license to employ _____ labor crews.
- n.* a traveler who moves from one region or country to another, especially to find work or better living conditions; a bird or an animal that moves from one place to another

ANSWERS: 14. plaza, 15. cholera, 16. jade, 17. molar, 18. reconstruct, 19. bury, 20. migrant

21. This statue is _____ from a single tree trunk.
v. to create something by cutting wood or stone; to turn sharply
22. Her beauty _____ me completely.
v. to make someone a slave; to deprive someone of their freedom of choice or action
23. The construction workers used a power _____ to dig the foundation for the building.
n. a tool with a handle and broad scoop or blade used for digging or moving Earth, coal, snow, or other granular materials
24. The dentist extracted my _____ due to decay and infection.
n. one of the front teeth in the human or animal mouth that are used for biting or cutting food; a tooth adapted for cutting
25. He _____ to the hope that he will find a job soon.
v. to hold onto something tightly; to be closely attached to someone or something
26. Many _____ in the South were impoverished and trapped in a cycle of debt.
n. a farmer who cultivates a piece of land owned by someone else, usually in exchange for a share of the crops produced
27. In an overly protective industry, violations of the ethics rules tend to be _____.
adj. (especially of something bad or unwelcome) flourishing or spreading everywhere in a way that cannot be controlled
28. The crowd _____ the stage with bottles and cans in protest.
v. to hit or throw things at someone or something repeatedly and forcefully; to rain heavily

ANSWERS: 21. carved, 22. enslaved, 23. shovel, 24. incisor, 25. clings, 26. sharecroppers, 27. rampant, 28. pelted

29. A large proportion of railway workers in _____ colonies were white.
n. a person who moved with a group of others to live in a different country or area
30. The _____ training regimen included physical conditioning, weapons training, and strategy.
n. a person who fought in ancient Rome's public contests, typically armed with weapons and wearing armor to entertain audiences
31. The archaeologists _____ the ruins of an ancient city buried under the desert sands.
v. to dig or remove earth, rocks, or other materials from the ground or a site, often to uncover or discover something
32. She teaches _____ at the local university.
n. the branch of anthropology that studies prehistoric people and their cultures
33. Be sure to use a clean section of _____ for each tooth to avoid spreading bacteria.
n. a thin thread or cord used to clean the spaces between the teeth
34. My remote _____ immigrated to the United States from Ireland in the 1800s.
n. a person from whom one is descended; a forefather

ANSWERS: 29. settler, 30. gladiator's, 31. excavated, 32. archaeology, 33. floss, 34. ancestor