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Daphne Bavelier: Your brain on video games | TED

Talk

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n_on_video_games



Advanced Words Only

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Session 1: Word List

pervasive

adj. spreading or existing throughout every part of a thing or place

synonym: extensive, ubiquitous, prevalent

(1) **pervasive** language, (2) the **pervasive** odor of garlic Suspicion and worry were **pervasive** in our minds.

aft

- *adj.* (the opposite of "forward") located at or towards the rear or back of a ship, aircraft, or other vehicle
- (1) aft cabin, (2) aft view

The **aft** section of the ship suffered significant damage after the collision with the reef.

ops

 n. (a shortened form of "operations") the various functions and activities performed by an organization or business to achieve its goals

synonym: operations, management, logistics

(1) special ops, (2) ops team

The military has a dedicated cyber **ops** division tasked with protecting national security.

sudoku

 a logic-based, combinatorial number-placement puzzle that typically consists of a 9x9 grid divided into nine 3x3 sub-grids and requires the solver to fill in each empty square with a number from 1-9, with the constraint that no number can appear more than once in a row, column, or sub-grid

synonym: number puzzle, logic game, brain teaser

- (1) the difficulty level of **sudoku**, (2) solve a **sudoku** I enjoy solving **sudoku** puzzles in my free time.
- a period of excessive or uncontrolled consumption, often of food or alcohol; a spree or bout of reckless behavior or indulgence

synonym: spree, overindulgence, splurge

(1) binge on social media, (2) alcohol binge
She stayed up all night binge-watching her favorite TV show.

bombard

binge

to attack a place with bombs or gunshots continuously;
 to address with continuously or persistently, as if with a barrage

synonym: bomb, shoot, blitz

(1) **bombard** him with questions, (2) **bombard** a fort with heavy shells

Overprotective parents often **bombard** their children with messages reinforcing their lack of mastery.

eyesight

- n. the ability to see; visual acuity or sharpnesssynonym: vision, sight, eyes
- (1) impaired **eyesight**, (2) acute **eyesight**His excellent **eyesight** allowed him to spot the bird in the dense foliage.

indulge

 to allow oneself or another person to have or enjoy something, especially something that is considered to be a luxury or treat

synonym: pamper, gratify, entertain

(1) **indulge** in debauchery, (2) **indulge** children She **indulged** in a warm bath after a long day at work.

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magnify

v. to make something look bigger than it really is, especially by looking at it through a lens; to make something bigger, stronger, or louder

synonym: enlarge, elaborate, intensify

- (1) **magnify** the danger, (2) **magnify** the image for display Terrorists often attempt to **magnify** the economic impact of their acts of destruction.
- v. to teach or learn a new or different set of skills or knowledge, usually to adapt to a new job, situation, or technology

synonym: educate, instruct

(1) **retrain** employees, (2) **retrain** skills

She plans to **retrain** in a new field after retiring from her

current career.

distract

retrain

v. to draw someone's attention away from what they are trying to do

synonym: divert, preoccupy, confuse

(1) **distract** attention from the real issue, (2) **distract** public opinion

Please don't distract me while I'm studying.

determinant

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

synonym: cause, factor, element

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

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

improvisation

 the act of making something up on the spot or creating or performing something without preparation

synonym: spontaneity, ad-lib, extemporization

(1) **improvisation** on stage, (2) jazz **improvisation** He created a beautiful piece of music using only

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improvisation.

courtyard

 an open space surrounded by buildings or walls, often in the center of a building or group of buildings

synonym: patio, garden, atrium

(1) quiet courtyard, (2) spacious courtyard

The hotel's beautiful **courtyard** was the perfect spot for a wedding reception.

recess

a period of time when the members of a parliament,
 committee, etc., are adjourned; a short break in a trial in court

synonym: break, interval, pause

(1) a court **recess**, (2) during noon **recess**

The company decided to take a **recess** and reconvene the meeting later that day.

doom

 death, destruction, or some other terrible situation that cannot be avoided

synonym: judgment, destiny, fate

(1) economic **doom**, (2) prophet of **doom**

Everyone was aware of the impending **doom** but was unable to prevent it.

parietal

adj. relating to or situated near the wall of a body cavity; of, relating to, or involving the walls or outer surfaces of an organ or structure

synonym: cerebral, skull, cranial

(1) parietal cortex, (2) parietal bone

The **parietal** lobe of the brain is responsible for processing sensory information.

lobe

 a rounded projection or division, especially of the brain, lung, or liver

synonym: part, section, division

(1) **lobe** of the liver, (2) frontal **lobe**

The lungs are divided into five **lobes**.

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cingulate

- n. a part of the brain situated in the medial aspect of the cerebral cortex that is an integral part of the limbic system, which is involved with emotion formation and processing, learning, and memory
- (1) a posterior **cingulate**, (2) ventral **cingulate** cortex Researchers found marked differences in the anterior **cingulate** of the brain between species.

counterintuitive

- *adj.* contrary to what common sense would suggest *synonym*: unreasonable, paradoxical, nonsensical
- (1) **counterintuitive** results, (2) **counterintuitive** behavior The **counterintuitive** nature of quantum physics has been a source of confusion for scientists for decades.

multitasking

- n. the ability to do more than one task at the same time;the state of doing more than one task at the same timesynonym: juggling, multihandling, parallelism
- (1) computer **multitasking**, (2) **multitasking** ability She could finish all her work on time because of her **multitasking** skills.

revered

v. highly respected or admired, often because of moral or spiritual qualities

synonym: respected, admired, honored

(1) **revered** figure, (2) the most **revered** President The **revered** teacher was loved by her students.

abysmal

 adj. extremely bad or unsuccessful, to the degree of being bottomless or unfathomable

synonym: dreadful, terrible, appalling

(1) **abysmal** performance, (2) **abysmal** living conditions The company's **abysmal** sales performance led to layoffs and budget cuts.

cognition

 the psychological process of perception and learning and reasoning; the mental action or process by which knowledge and understanding are developed in the

mind

synonym: awareness, understanding, comprehension

(1) social **cognition**, (2) **cognition** disorder

The professor focused on the research of infant **cognition**.

rehabilitate

v. to restore to good health or physical condition; to help someone return to a normal life, especially after a period of illness, addiction, or imprisonment

synonym: reform, restore, renovate

(1) rehabilitate prisoners, (2) rehabilitate wildlife

The organization works to **rehabilitate** drug addicts and help them rebuild their lives.

crux

n. the most important or fundamental part of a matter or situation; the key point or central issue

synonym: heart, core, essence

(1) main **crux**, (2) the **crux** of the argument

The **crux** of the matter was that the company was not financially stable.

rot

v. to decay, or cause something to decay, naturally and gradually

synonym: perish, decay, corrode

(1) begin to **rot**, (2) **rot** with age

Please refrigerate the meat, or it will **rot**.

cringe

v. to move back or away from someone or something because you are afraid or shocked; to shrink as in fear, disgust, or embarrassment

synonym: shrink, cower, quiver

(1) **cringe** with fear, (2) **cringe** at the thought of an accident The dog **cringed** at its master voice.

mindless

adj. lacking in awareness, thought, or attention; done without thinking or consideration; pointless or empty-headed

synonym: senseless, thoughtless, irresponsible

(1) **mindless** task, (2) **mindless** entertainment **Mindless** scrolling on social media can be a time waster.

long-lasting

adj. existing or continuing for a long time synonym: enduring, abiding, durable

(1) **long-lasting** battery, (2) a **long-lasting** friendship They finally decided to solve the **long-lasting** problem.

grandchild

- n. a child of someone's son or daughtersynonym: offspring, descendant, progeny
- (1) **grandchild-grandparent** relationship, (2) **grandchild** development

The grandparents take care of their **grandchild** while the parents are at work.

amblyopia

n. a visual disorder, also known as lazy eye, characterized by reduced or dimmed vision in one eye that is not correctable by glasses or contact lenses, usually caused by an underlying developmental problem during childhood

synonym: lazy eye, strabismus, squint

(1) **amblyopia** treatment, (2) **amblyopia** screening Early detection of **amblyopia** symptoms can lead to more effective treatments.

broccoli

- a green vegetable with a bunch of small, tight florets on a thick stem that belongs to the cabbage family
- (1) frozen broccoli,(2) broccoli sproutHe didn't like broccoli floret and avoided eating it.

industrious

adj. hardworking, diligent, and persistent in effort synonym: diligent, hardworking, assiduous

(1) **industrious** worker, (2) **industrious** student He was known to be very **industrious** and would often work late into the night.

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adj. skillful or clever in one's movements or actions; nimble or agile; demonstrating dexterity or expertness

synonym: skillful, dexterous, adept

(1) deft handling of the problem, (2) deft touch

The **deft** musician played the complex piece flawlessly.

irresistible

adj. impossible to resist or refuse; very attractive, appealing, or compelling

synonym: resistless, overpowering, compelling

(1) irresistible charm, (2) irresistible force

The aroma of freshly baked cookies was **irresistible** to her.

doable

adj. possible to do; capable of existing, taking place, or proving true

synonym: realizable, accomplishable, achievable

(1) make a **doable** plan, (2) **doable** in daily life

This project is **doable** despite the tight schedule.

Session 2: Spelling

1.	a_t cabin	adj.	(the opposite of "forward") located at or towards the rear or back of a ship, aircraft, or other vehicle
2.	dict attention from the real issue	ν.	to draw someone's attention away from what they are trying to do
3.	a detnt of crop yields	n.	a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
4.	dict public opinion	v.	to draw someone's attention away from what they are trying to do
5.	the cx of the argument	n.	the most important or fundamental part of a matter or situation; the key point or central issue
6.	amia screening	n.	a visual disorder, also known as lazy eye, characterized by reduced or dimmed vision in one eye that is not correctable by glasses or contact lenses, usually caused by an underlying developmental problem during childhood
7.	the peve odor of garlic	adj.	spreading or existing throughout every part of a thing or place
8.	bod a fort with heavy shells	v.	to attack a place with bombs or gunshots continuously; to address with continuously or persistently, as if with a barrage

ANSWERS: 1. aft, 2. distract, 3. determinant, 4. distract, 5. crux, 6. amblyopia, 7. pervasive, 8. bombard

9.	rehate wildlife	ν.	to restore to good health or physical condition; to help someone return to a normal life, especially after a period of illness, addiction, or imprisonment
10.	computer muling	n.	the ability to do more than one task at the same time; the state of doing more than one task at the same time
11.	ren employees	v.	to teach or learn a new or different set of skills or knowledge, usually to adapt to a new job, situation, or technology
12.	loning battery	adj.	existing or continuing for a long time
13.	ine in debauchery	v.	to allow oneself or another person to have or enjoy something, especially something that is considered to be a luxury or treat
14.	abI performance	adj.	extremely bad or unsuccessful, to the degree of being bottomless or unfathomable
15.	during noon res	n.	a period of time when the members of a parliament, committee, etc., are adjourned; a short break in a trial in court
16.	amia treatment	n.	a visual disorder, also known as lazy eye, characterized by reduced or dimmed vision in one eye that is not correctable by glasses or contact lenses, usually caused by an underlying developmental problem during childhood

ANSWERS: 9. rehabilitate, 10. multitasking, 11. retrain, 12. long-lasting, 13. indulge, 14. abysmal, 15. recess, 16. amblyopia

17.	coon disorder	n.	the psychological process of perception and learning and reasoning; the mental action or process by which knowledge and understanding are developed in the mind
18.	the difficulty level of suu	n.	a logic-based, combinatorial number-placement puzzle that typically consists of a 9x9 grid divided into nine 3x3 sub-grids and requires the solver to fill in each empty square with a number from 1-9, with the constraint that no number can appear more than once in a row, column, or sub-grid
19.	couive behavior	adj.	contrary to what common sense would suggest
20.	rehate prisoners	v.	to restore to good health or physical condition; to help someone return to a normal life, especially after a period of illness, addiction, or imprisonment
21.	red figure	v.	highly respected or admired, often because of moral or spiritual qualities
22.	may the image for display	ν.	to make something look bigger than it really is, especially by looking at it through a lens; to make something bigger, stronger, or louder
23.	irrble charm	adj.	impossible to resist or refuse; very attractive, appealing, or compelling
24.	social coon	n.	the psychological process of perception and learning and reasoning; the mental action or process by which knowledge and understanding are developed in the mind

ANSWERS: 17. cognition, 18. sudoku, 19. counterintuitive, 20. rehabilitate, 21. revered, 22. magnify, 23. irresistible, 24. cognition

25.	bod him with questions	v.	to attack a place with bombs or gunshots continuously; to address with continuously or persistently, as if with a barrage
26.	may the danger	<i>v</i> .	to make something look bigger than it really is, especially by looking at it through a lens; to make something bigger, stronger, or louder
27.	paal cortex	adj.	relating to or situated near the wall of a body cavity; of, relating to, or involving the walls or outer surfaces of an organ or structure
28.	main cx	n.	the most important or fundamental part of a matter or situation; the key point or central issue
29.	abI living conditions	adj.	extremely bad or unsuccessful, to the degree of being bottomless or unfathomable
30.	miss task	adj.	lacking in awareness, thought, or attention; done without thinking or consideration; pointless or empty-headed
31.	jazz impion	n.	the act of making something up on the spot or creating or performing something without preparation
32.	indus student	adj.	hardworking, diligent, and persistent in effort
33.	ren skills	<i>v</i> .	to teach or learn a new or different set of skills or knowledge, usually to adapt to a new job, situation, or technology

ANSWERS: 25. bombard, 26. magnify, 27. parietal, 28. crux, 29. abysmal, 30. mindless, 31. improvisation, 32. industrious, 33. retrain

34.	frozen brli	n.	a green vegetable with a bunch of small, tight florets on a thick stem that belongs to the cabbage family
35.	spacious cord	n.	an open space surrounded by buildings or walls, often in the center of a building or group of buildings
36.	impaired eyht	n.	the ability to see; visual acuity or sharpness
37.	prophet of dm	n.	death, destruction, or some other terrible situation that cannot be avoided
38.	a_t view	adj.	(the opposite of "forward") located at or towards the rear or back of a ship, aircraft, or other vehicle
39.	indus worker	adj.	hardworking, diligent, and persistent in effort
40.	miss entertainment	adj.	lacking in awareness, thought, or attention; done without thinking or consideration; pointless or empty-headed
41.	alcohol bie	n.	a period of excessive or uncontrolled consumption, often of food or alcohol; a spree or bout of reckless behavior or indulgence
42.	special o_s	n.	(a shortened form of "operations") the various functions and activities performed by an organization or business to achieve its goals
43.	economic dm	n.	death, destruction, or some other terrible situation that cannot be avoided

ANSWERS: 34. broccoli, 35. courtyard, 36. eyesight, 37. doom, 38. aft, 39. industrious, 40. mindless, 41. binge, 42. ops, 43. doom

44. o_s team (a shortened form of "operations") the n. various functions and activities performed by an organization or business to achieve its goals a logic-based, combinatorial 45. solve a su u n. number-placement puzzle that typically consists of a 9x9 grid divided into nine 3x3 sub-grids and requires the solver to fill in each empty square with a number from 1-9, with the constraint that no number can appear more than once in a row, column, or sub-grid a period of time when the members of a 46. a court re s parliament, committee, etc., are adjourned; a short break in a trial in court adj. skillful or clever in one's movements or 47. d t handling of the problem actions; nimble or agile; demonstrating dexterity or expertness 48. mul____ing ability the ability to do more than one task at n. the same time; the state of doing more than one task at the same time to move back or away from someone or 49. cr___e with fear something because you are afraid or shocked; to shrink as in fear, disgust, or embarrassment 50. I e of the liver a rounded projection or division, n. especially of the brain, lung, or liver a period of excessive or uncontrolled 51. bi e on social media n. consumption, often of food or alcohol; a

ANSWERS: 44. ops, 45. sudoku, 46. recess, 47. deft, 48. multitasking, 49. cringe, 50. lobe, 51. binge

indulgence

spree or bout of reckless behavior or

52.	paal bone	adj.	relating to or situated near the wall of a body cavity; of, relating to, or involving the walls or outer surfaces of an organ or structure
53.	ine children	v.	to allow oneself or another person to have or enjoy something, especially something that is considered to be a luxury or treat
54.	d_t touch	adj.	skillful or clever in one's movements or actions; nimble or agile; demonstrating dexterity or expertness
55.	a posterior cite	n.	a part of the brain situated in the media aspect of the cerebral cortex that is an integral part of the limbic system, which is involved with emotion formation and processing, learning, and memory
56.	peve language	adj.	spreading or existing throughout every part of a thing or place
57.	quiet cord	n.	an open space surrounded by buildings or walls, often in the center of a building or group of buildings
58.	environmental detnt	n.	a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
59.	frontal Ie	n.	a rounded projection or division, especially of the brain, lung, or liver
60.	ventral cite cortex	n.	a part of the brain situated in the media aspect of the cerebral cortex that is an integral part of the limbic system, which is involved with emotion formation and processing, learning, and memory

ANSWERS: 52. parietal, 53. indulge, 54. deft, 55. cingulate, 56. pervasive, 57. courtyard, 58. determinant, 59. lobe, 60. cingulate

61.	grald development	n.	a child of someone's son or daughter
62.	begin to r_t	v.	to decay, or cause something to decay, naturally and gradually
63.	the most red President	<i>v</i> .	highly respected or admired, often because of moral or spiritual qualities
64.	a loning friendship	adj.	existing or continuing for a long time
65.	cre at the thought of an accident	v.	to move back or away from someone or something because you are afraid or shocked; to shrink as in fear, disgust, or embarrassment
66.	brli sprout	n.	a green vegetable with a bunch of small, tight florets on a thick stem that belongs to the cabbage family
67.	couive results	adj.	contrary to what common sense would suggest
68.	irrble force	adj.	impossible to resist or refuse; very attractive, appealing, or compelling
69.	acute eyht	n.	the ability to see; visual acuity or sharpness
70.	impion on stage	n.	the act of making something up on the spot or creating or performing something without preparation
71.	grald-grandparent relationship	n.	a child of someone's son or daughter
72.	r_t with age	<i>v</i> .	to decay, or cause something to decay, naturally and gradually
73.	doe in daily life	adj.	possible to do; capable of existing, taking place, or proving true

ANSWERS: 61. grandchild, 62. rot, 63. revered, 64. long-lasting, 65. cringe, 66. broccoli, 67. counterintuitive, 68. irresistible, 69. eyesight, 70. improvisation, 71. grandchild, 72. rot, 73. doable

74. make a do___e plan

adj. possible to do; capable of existing, taking place, or proving true

ANSWERS: 74. doable

Session 3: Fill in the Blanks

1.	The organization works to drug addicts and help them rebuild their lives.
<i>v</i> .	to restore to good health or physical condition; to help someone return to a normal life, especially after a period of illness, addiction, or imprisonment
2.	The grandparents take care of their while the parents are at work.
n.	a child of someone's son or daughter
3.	The lobe of the brain is responsible for processing sensory information.
adj	relating to or situated near the wall of a body cavity; of, relating to, or involving the walls or outer surfaces of an organ or structure
4.	The company's sales performance led to layoffs and budget cuts.
adj	extremely bad or unsuccessful, to the degree of being bottomless or unfathomable
5.	He was known to be very and would often work late into the night
adj	hardworking, diligent, and persistent in effort
6.	One of success is having a positive attitude and a strong work ethic.
n.	a factor, circumstance, or condition that contributes to the shaping, influencing or determining of a particular outcome or result
7.	Terrorists often attempt to the economic impact of their acts of destruction.
ν.	to make something look bigger than it really is, especially by looking at it through a lens; to make something bigger, stronger, or louder
	SWERS: 1. rehabilitate, 2. grandchild, 3. parietal, 4. abysmal, 5. industrious, 6. erminant, 7. magnify

8.	The military has a dedicated cyber division tasked with protecting national security.
n.	(a shortened form of "operations") the various functions and activities performed by an organization or business to achieve its goals
9.	She could finish all her work on time because of her skills.
n.	the ability to do more than one task at the same time; the state of doing more than one task at the same time
10.	The company decided to take a and reconvene the meeting later that day.
n.	a period of time when the members of a parliament, committee, etc., are adjourned; a short break in a trial in court
11.	His excellent allowed him to spot the bird in the dense foliage.
n.	the ability to see; visual acuity or sharpness
12.	Researchers found marked differences in the anterior of the brain between species.
n.	a part of the brain situated in the medial aspect of the cerebral cortex that is an integral part of the limbic system, which is involved with emotion formation and processing, learning, and memory
13.	The section of the ship suffered significant damage after the collision with the reef.
adj	. (the opposite of "forward") located at or towards the rear or back of a ship, aircraft, or other vehicle
14.	I enjoy solving puzzles in my free time.
n.	a logic-based, combinatorial number-placement puzzle that typically consists of a 9x9 grid divided into nine 3x3 sub-grids and requires the solver to fill in each empty square with a number from 1-9, with the constraint that no number can appear more than once in a row, column, or sub-grid
	SWERS: 8. ops, 9. multitasking, 10. recess, 11. eyesight, 12. cingulate, 13. aft, 14

15.	The hotel's beautiful was the perfect spot for a wedding reception.
n.	an open space surrounded by buildings or walls, often in the center of a building or group of buildings
16.	He didn't like floret and avoided eating it.
n.	a green vegetable with a bunch of small, tight florets on a thick stem that belongs to the cabbage family
17.	The lungs are divided into five
n.	a rounded projection or division, especially of the brain, lung, or liver
18.	scrolling on social media can be a time waster.
adj	lacking in awareness, thought, or attention; done without thinking or consideration; pointless or empty-headed
19.	The dog at its master voice.
v.	to move back or away from someone or something because you are afraid or shocked; to shrink as in fear, disgust, or embarrassment
20.	The aroma of freshly baked cookies was to her.
adj	impossible to resist or refuse; very attractive, appealing, or compelling
21.	The professor focused on the research of infant
n.	the psychological process of perception and learning and reasoning; the mental action or process by which knowledge and understanding are developed in the mind
22.	He created a beautiful piece of music using only
n.	the act of making something up on the spot or creating or performing something without preparation
	SWERS: 15. courtyard, 16. broccoli, 17. lobes, 18. Mindless, 19. cringed, 20. sistible, 21. cognition, 22. improvisation

ANSWERS: 23. distract, 24. crux, 25. deft, 26. amblyopia, 27. binge-watching, 28. doom, 29. retrain, 30. counterintuitive

confusion for scientists for decades.

adj. contrary to what common sense would suggest

31.	Please refrigerate the meat, or it will
<i>v</i> .	to decay, or cause something to decay, naturally and gradually
32.	The teacher was loved by her students.
<i>v</i> .	highly respected or admired, often because of moral or spiritual qualities
33.	Overprotective parents often their children with messages reinforcing their lack of mastery.
ν.	to attack a place with bombs or gunshots continuously; to address with continuously or persistently, as if with a barrage
34.	Suspicion and worry were in our minds.
adj	spreading or existing throughout every part of a thing or place
35.	She in a warm bath after a long day at work.
<i>v</i> .	to allow oneself or another person to have or enjoy something, especially something that is considered to be a luxury or treat
36.	This project is despite the tight schedule.
adj	possible to do; capable of existing, taking place, or proving true
37.	They finally decided to solve the problem.
adj	existing or continuing for a long time
	SWERS: 31. rot, 32. revered, 33. bombard, 34. pervasive, 35. indulged, 36. able, 37. long-lasting