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Rosalind Picard: An AI smartwatch that detects seizures | TED Talk

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

Advanced Words Only

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Session 1: Word List

febrile

adj. relating to or involving a fever; having or showing signs of feverish excitement or agitation

synonym: feverish, feverlike

(1) **febrile** illness, (2) **febrile** symptoms

The child's **febrile** state was a cause for concern, so his parents took him to the doctor.

outgrow

v. to grow too large for something; to grow taller or faster than another person

(1) **outgrow** my coat, (2) **outgrow** its usefulness

Bamboo will soon **outgrow** the other plants.

convulse

v. to experience a sudden and violent contraction of the muscles, often caused by pain, illness, or emotional distress, or to make someone or something do this

synonym: spasm, tremble, seize

(1) **convulse** with laughter, (2) **convulse** with anger

He **convulsed** in pain as the injury was severe.

tonic

adj. of or relating to a musical or vocal sound regarding its pitch and duration of a musical sound; (noun) a medicinal substance producing physical, mental, or emotional vigor

synonym

: (noun) brew, (noun) elixir

(1) the **tonic** sol-fa, (2) a **tonic** medicine

A **tonic** syllable carries the main stress in a word.

epilepsy

n. a neurological disorder characterized by recurrent seizures or convulsions, which can manifest in a variety of ways and be caused by various factors

synonym: seizures, convulsions, fits

(1) **epilepsy** seizure, (2) **epilepsy** medication

The flashing lights at the concert triggered her **epilepsy** and caused a seizure.

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.

autopsy

n. a medical examination performed on a dead body to determine the cause of death or identify any underlying medical conditions or injuries; a postmortem examination or necropsy (in animals)

synonym: postmortem examination, necropsy, examination

(1) forensic **autopsy**, (2) perform an **autopsy**

The **autopsy** report revealed that the cause of death was a heart attack.

neurological

adj. of or relating to the science of neurology or the nervous system

synonym: nervous, neural, brain-related

(1) fever with **neurological** signs, (2) **neurological** symptoms

The patient was diagnosed with a **neurological** disorder affecting their motor skills.

neurology

n. the branch of medicine that deals with the diagnosis and treatment of disorders of the nervous system

synonym: brain science, nervous system, neuropathology

(1) cognitive **neurology**, (2) **neurology** department

She is studying clinical **neurology** to become a brain surgeon.

inconvenient

adj. causing trouble or difficulty; not convenient or suitable

synonym: troublesome, difficult, awkward

(1) face an **inconvenient** truth, (2) **inconvenient** for shopping

It was **inconvenient** for her to go out of her way to pick up the package.

embarrass

v. to cause someone to feel awkward, worried, or ashamed

synonym: disconcert, unsettle, agitate

(1) **embarrass** political enemy, (2) **embarrass** my project

He looked for an opportunity to **embarrass** that actor in public.

wristband

n. a strip of material worn around the wrist for decoration, support, or identification purposes

synonym: bracelet, sweatband, wristlet

(1) **wristband** watch, (2) festival **wristband**

The nightclub bouncer checked the **wristbands** of everyone entering the premises to ensure their age.

imaginable

adj. capable of being imagined

synonym: conceivable, plausible, possible

(1) easily **imaginable**, (2) worst **imaginable** case

This is the only **imaginable** strategy.

neurosurgery

n. medical operations conducted on the nervous system, including the brain, spinal cord, and individual nerves

(1) the department of **neurosurgery**, (2) specialize in **neurosurgery**

She has 20 years of experience in **neurosurgery**.

scalp

n. the skin that covers the top of a person's head, together with the hair growing on it; also, the part of the body that is most vulnerable to an attack

synonym: hair cover, pelt, epidermis

(1) **scalp** massage, (2) **scalp** condition

I have an itchy **scalp** and need to switch to a different shampoo.

electrocardiogram

n. a test that uses electrodes placed on the chest, arms, and legs to record the electrical signals of the heart and create a graph that shows the heart's rhythm and activity

synonym: ECG, heart monitor, cardiac monitor

(1) **electrocardiogram** technician, (2) abnormal **electrocardiogram**

The hospital invested in state-of-the-art **electrocardiogram** machines to improve patient care.

electrodermal

adj. relating to the skin's ability to conduct electrical impulses, often used as a measure of stress, emotions, and physiological responses

(1) **electrodermal** conductance, (2) **electrodermal** activity

The **electrodermal** response test measures the body's electrical conductivity to diagnose certain conditions.

periphery

n. the outer edge or margin of something, especially a geographical area or a group of people

synonym: edge, border, margin

(1) around the **periphery**, (2) **periphery** countries

The factory was located on the city's **periphery**, away from residential areas.

whop

v. to strike forcefully; to beat or batter

synonym: hit, smack, bash

(1) **whop** my opponent, (2) **whop** the intruding spider

He gave the punching bag a hard **whop** with his fists.

redwood

n. a type of large evergreen tree native to North America that can grow up to 360 feet in height and have a reddish-colored bark and durable wood used for construction and furniture-making

synonym : sequoia

(1) **redwood** forest, (2) old-growth **redwood**

The tall **redwood** trees towered over us as we hiked through the forest.

afterward

adv. after the time mentioned

synonym : later, thereafter, following

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

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

amygdala

n. one of two parts of the almond-shaped neural structure that are linked to emotions, especially fear and pleasure, memory, and the sense of smell

(1) the decline in **amygdala** activity, (2) **amygdala** damage

The **amygdala** has been associated with memories of past emotional events.

craniotomy

n. a surgical operation to remove part of the bone from the skull, usually to allow access to the brain for diagnostic or therapeutic purposes

synonym : brain surgery, head surgery, skull operation

(1) **craniotomy** procedure, (2) **craniotomy** incision

The patient underwent a **craniotomy** to remove a brain tumor.

stimming

n. a behavior often exhibited by individuals on the autism spectrum characterized by repetitive bodily movements or sounds, such as hand flapping or rocking, often used as a form of self-regulation or sensory stimulation

synonym : self-stimulation, repetitive behaviors

(1) autistic **stimming**, (2) **stimming** therapy

Autistic children may engage in **stimming** behaviors, such as

rocking or hand flapping, to self-regulate.

stressor

n. something that causes stress or emotional tension
synonym: pressure, strain, burden

(1) **stressor** event, (2) **stressor** management

The deadline for the project was a major **stressor** for the team.

commercialize

v. to make something available for sale or use on a large scale

synonym: monetize, capitalize, marketize

(1) **commercialize** my patents, (2) **commercialize** idea

The company is trying to **commercialize** its new product.

cofounder

n. one of several people who establishes an organization or starts a business

(1) **cofounder** of the university, (2) late **cofounder**

He is the **cofounder** and chairman of this tech company.

improvisation

n. 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 **improvisation**.

smartwatch

n. a wearable computing device in the form of a watch

(1) high-end **smartwatch**, (2) multifunctional **smartwatch**

Various companies, including software companies, are entering the **smartwatch** market.

summon

v. to order someone to come to or be present at a specific place such as a court, or to arrange a meeting formally

synonym: call for, muster, assemble

(1) **summon** a lawyer, (2) **summon** a city council

The chairperson was responsible for **summoning**

committees.

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.

Session 2: Spelling

1. fall li____ss *adj.* without life; dead
2. st____ng therapy *n.* a behavior often exhibited by individuals on the autism spectrum characterized by repetitive bodily movements or sounds, such as hand flapping or rocking, often used as a form of self-regulation or sensory stimulation
3. ele_____mal activity *adj.* relating to the skin's ability to conduct electrical impulses, often used as a measure of stress, emotions, and physiological responses
4. ou____w its usefulness *v.* to grow too large for something; to grow taller or faster than another person
5. ele_____mal conductance *adj.* relating to the skin's ability to conduct electrical impulses, often used as a measure of stress, emotions, and physiological responses
6. ep____sy medication *n.* a neurological disorder characterized by recurrent seizures or convulsions, which can manifest in a variety of ways and be caused by various factors
7. specialize in neu_____ery *n.* medical operations conducted on the nervous system, including the brain, spinal cord, and individual nerves
8. ele_____ram technician *n.* a test that uses electrodes placed on the chest, arms, and legs to record the electrical signals of the heart and create a graph that shows the heart's rhythm and activity

ANSWERS: 1. lifeless, 2. stimming, 3. electrodermal, 4. outgrow, 5. electrodermal, 6. epilepsy, 7. neurosurgery, 8. electrocardiogram

9. sc__p condition *n.* the skin that covers the top of a person's head, together with the hair growing on it; also, the part of the body that is most vulnerable to an attack
10. an op_____ne remark *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
11. re_____d forest *n.* a type of large evergreen tree native to North America that can grow up to 360 feet in height and have a reddish-colored bark and durable wood used for construction and furniture-making
12. ne_____gy department *n.* the branch of medicine that deals with the diagnosis and treatment of disorders of the nervous system
13. jazz imp_____ion *n.* the act of making something up on the spot or creating or performing something without preparation
14. high-end sma_____ch *n.* a wearable computing device in the form of a watch
15. fe_____e symptoms *adj.* relating to or involving a fever; having or showing signs of feverish excitement or agitation
16. fe_____e illness *adj.* relating to or involving a fever; having or showing signs of feverish excitement or agitation
17. cra_____my procedure *n.* a surgical operation to remove part of the bone from the skull, usually to allow access to the brain for diagnostic or therapeutic purposes

ANSWERS: 9. scalp, 10. opportune, 11. redwood, 12. neurology, 13. improvisation, 14. smartwatch, 15. febrile, 16. febrile, 17. craniotomy

27. a li_____ss corpse *adj.* without life; dead
28. com_____ize idea *v.* to make something available for sale or use on a large scale
29. worst ima_____le case *adj.* capable of being imagined
30. the department of neu_____ery *n.* medical operations conducted on the nervous system, including the brain, spinal cord, and individual nerves
31. am_____la damage *n.* one of two parts of the almond-shaped neural structure that are linked to emotions, especially fear and pleasure, memory, and the sense of smell
32. op_____ne occasion *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
33. easily ima_____le *adj.* capable of being imagined
34. old-growth re_____d *n.* a type of large evergreen tree native to North America that can grow up to 360 feet in height and have a reddish-colored bark and durable wood used for construction and furniture-making
35. imp_____ion on stage *n.* the act of making something up on the spot or creating or performing something without preparation
36. pe_____ry countries *n.* the outer edge or margin of something, especially a geographical area or a group of people
37. a to__c medicine *adj.* of or relating to a musical or vocal sound regarding its pitch and duration of a musical sound; (noun) a medicinal substance producing physical, mental, or emotional vigor

ANSWERS: 27. lifeless, 28. commercialize, 29. imaginable, 30. neurosurgery, 31. amygdala, 32. opportune, 33. imaginable, 34. redwood, 35. improvisation, 36. periphery, 37. tonic

38. a few years af_____rd *adv.* after the time mentioned
39. st_____or event *n.* something that causes stress or emotional tension
40. su_____n a city council *v.* to order someone to come to or be present at a specific place such as a court, or to arrange a meeting formally
41. em_____ss my project *v.* to cause someone to feel awkward, worried, or ashamed
42. em_____ss political enemy *v.* to cause someone to feel awkward, worried, or ashamed
43. co_____er of the university *n.* one of several people who establishes an organization or starts a business
44. cra_____my incision *n.* a surgical operation to remove part of the bone from the skull, usually to allow access to the brain for diagnostic or therapeutic purposes
45. forensic au_____y *n.* a medical examination performed on a dead body to determine the cause of death or identify any underlying medical conditions or injuries; a postmortem examination or necropsy (in animals)
46. sc___p massage *n.* the skin that covers the top of a person's head, together with the hair growing on it; also, the part of the body that is most vulnerable to an attack
47. wr_____nd watch *n.* a strip of material worn around the wrist for decoration, support, or identification purposes
48. w___p my opponent *v.* to strike forcefully; to beat or batter

ANSWERS: 38. afterward, 39. stressor, 40. summon, 41. embarrass, 42. embarrass, 43. cofounder, 44. craniotomy, 45. autopsy, 46. scalp, 47. wristband, 48. whop

49. su___n a lawyer *v.* to order someone to come to or be present at a specific place such as a court, or to arrange a meeting formally
50. co_____se with anger *v.* to experience a sudden and violent contraction of the muscles, often caused by pain, illness, or emotional distress, or to make someone or something do this
51. multifunctional sma_____ch *n.* a wearable computing device in the form of a watch
52. festival wr_____nd *n.* a strip of material worn around the wrist for decoration, support, or identification purposes
53. st_____or management *n.* something that causes stress or emotional tension
54. autistic st_____ng *n.* a behavior often exhibited by individuals on the autism spectrum characterized by repetitive bodily movements or sounds, such as hand flapping or rocking, often used as a form of self-regulation or sensory stimulation
55. late co_____er *n.* one of several people who establishes an organization or starts a business
56. w__p the intruding spider *v.* to strike forcefully; to beat or batter
57. ep_____sy seizure *n.* a neurological disorder characterized by recurrent seizures or convulsions, which can manifest in a variety of ways and be caused by various factors
58. com_____ize my patents *v.* to make something available for sale or use on a large scale

ANSWERS: 49. summon, 50. convulse, 51. smartwatch, 52. wristband, 53. stressor, 54. stimming, 55. cofounder, 56. whop, 57. epilepsy, 58. commercialize

59. inc_____ent for shopping *adj.* causing trouble or difficulty; not convenient or suitable
60. fever with neu_____cal signs *adj.* of or relating to the science of neurology or the nervous system
61. neu_____cal symptoms *adj.* of or relating to the science of neurology or the nervous system
62. the to__c sol-fa *adj.* of or relating to a musical or vocal sound regarding its pitch and duration of a musical sound; (noun) a medicinal substance producing physical, mental, or emotional vigor

ANSWERS: 59. inconvenient, 60. neurological, 61. neurological, 62. tonic

Session 3: Fill in the Blanks

1. 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
2. The chairperson was responsible for _____ committees.
v. to order someone to come to or be present at a specific place such as a court, or to arrange a meeting formally
3. Various companies, including software companies, are entering the _____ market.
n. a wearable computing device in the form of a watch
4. The phone rang at the most _____ time.
adj. suitable or happening at a time that is suitable or convenient for a particular purpose
5. The hospital invested in state-of-the-art _____ machines to improve patient care.
n. a test that uses electrodes placed on the chest, arms, and legs to record the electrical signals of the heart and create a graph that shows the heart's rhythm and activity
6. The flashing lights at the concert triggered her _____ and caused a seizure.
n. a neurological disorder characterized by recurrent seizures or convulsions, which can manifest in a variety of ways and be caused by various factors
7. We will explain the countermeasure concerning this problem _____.
adv. after the time mentioned

ANSWERS: 1. improvisation, 2. summoning, 3. smartwatch, 4. opportune, 5. electrocardiogram, 6. epilepsy, 7. afterward

8. He looked for an opportunity to _____ that actor in public.
v. to cause someone to feel awkward, worried, or ashamed
9. The nightclub bouncer checked the _____ of everyone entering the premises to ensure their age.
n. a strip of material worn around the wrist for decoration, support, or identification purposes
10. The factory was located on the city's _____ away from residential areas.
n. the outer edge or margin of something, especially a geographical area or a group of people
11. He _____ in pain as the injury was severe.
v. to experience a sudden and violent contraction of the muscles, often caused by pain, illness, or emotional distress, or to make someone or something do this
12. The tall _____ trees towered over us as we hiked through the forest.
n. a type of large evergreen tree native to North America that can grow up to 360 feet in height and have a reddish-colored bark and durable wood used for construction and furniture-making
13. I have an itchy _____ and need to switch to a different shampoo.
n. the skin that covers the top of a person's head, together with the hair growing on it; also, the part of the body that is most vulnerable to an attack
14. The company is trying to _____ its new product.
v. to make something available for sale or use on a large scale
15. Bamboo will soon _____ the other plants.
v. to grow too large for something; to grow taller or faster than another person

ANSWERS: 8. embarrass, 9. wristbands, 10. periphery, 11. convulsed, 12. redwood, 13. scalp, 14. commercialize, 15. outgrow

16. The _____ response test measures the body's electrical conductivity to diagnose certain conditions.

adj. relating to the skin's ability to conduct electrical impulses, often used as a measure of stress, emotions, and physiological responses

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

adj. without life; dead

18. This is the only _____ strategy.

adj. capable of being imagined

19. The child's _____ state was a cause for concern, so his parents took him to the doctor.

adj. relating to or involving a fever; having or showing signs of feverish excitement or agitation

20. A _____ syllable carries the main stress in a word.

adj. of or relating to a musical or vocal sound regarding its pitch and duration of a musical sound; (noun) a medicinal substance producing physical, mental, or emotional vigor

21. It was _____ for her to go out of her way to pick up the package.

adj. causing trouble or difficulty; not convenient or suitable

22. He is the _____ and chairman of this tech company.

n. one of several people who establishes an organization or starts a business

23. She has 20 years of experience in _____.

n. medical operations conducted on the nervous system, including the brain, spinal cord, and individual nerves

ANSWERS: 16. electrodermal, 17. lifeless, 18. imaginable, 19. febrile, 20. tonic, 21. inconvenient, 22. cofounder, 23. neurosurgery

24. The _____ has been associated with memories of past emotional events.
- n.* one of two parts of the almond-shaped neural structure that are linked to emotions, especially fear and pleasure, memory, and the sense of smell
25. Autistic children may engage in _____ behaviors, such as rocking or hand flapping, to self-regulate.
- n.* a behavior often exhibited by individuals on the autism spectrum characterized by repetitive bodily movements or sounds, such as hand flapping or rocking, often used as a form of self-regulation or sensory stimulation
26. He gave the punching bag a hard _____ with his fists.
- v.* to strike forcefully; to beat or batter
27. The patient underwent a _____ to remove a brain tumor.
- n.* a surgical operation to remove part of the bone from the skull, usually to allow access to the brain for diagnostic or therapeutic purposes
28. The _____ report revealed that the cause of death was a heart attack.
- n.* a medical examination performed on a dead body to determine the cause of death or identify any underlying medical conditions or injuries; a postmortem examination or necropsy (in animals)
29. The patient was diagnosed with a _____ disorder affecting their motor skills.
- adj.* of or relating to the science of neurology or the nervous system
30. The deadline for the project was a major _____ for the team.
- n.* something that causes stress or emotional tension
31. She is studying clinical _____ to become a brain surgeon.
- n.* the branch of medicine that deals with the diagnosis and treatment of disorders of the nervous system

ANSWERS: 24. amygdala, 25. stimming, 26. whop, 27. craniotomy, 28. autopsy, 29. neurological, 30. stressor, 31. neurology

ANSWERS: