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Level 3

New gym opens to train robots

1st May, 2016

<http://www.breakingnewsenglish.com/1605/160501-robot-gym.html>

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Please try Levels 0, 1 and 2 (they are easier).

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THE ARTICLE

From <http://www.BreakingNewsEnglish.com/1605/160501-robot-gym.html>

A group of business people has opened a kind of gym for robots. The group is headed by Elon Musk, who is the boss of the electric car company Tesla Motors and the space tourism company, SpaceX. Mr Musk also founded the online payments website PayPal. His latest project is called OpenAI Gym. It is a platform for researchers and code writers to test their latest work. It is an open platform, which means people are free to test their ideas for artificial intelligence (A.I.) on it. In particular, researchers can test and share their algorithms for A.I. Algorithms are special sets of rules in a computer program that can solve problems and quickly deal with large amounts of information.

Mr Musk wrote about the OpenAI Gym project and why his team decided to put it online for free. He said: "Our goal is to advance digital intelligence in the way that is most likely to benefit humanity as a whole, [without the] need to generate financial return." The OpenAI Gym follows the idea of giving rewards for successful learning – similar to giving a dog a treat when it learns something new. This is called reinforcement learning. If an algorithm does well in the gym, it gets a reward. If the algorithm fails, it gets no reward and it has to try something different. The aim of the gym is to develop an algorithm that can multi-task - do many things at the same time - rather than be good at doing just one thing.

Sources: <http://thescienceexplorer.com/technology/elon-musk-launches-ai-gym-make-robot-brains-versatile-our-own>
<http://www.computerworld.com/article/3063674/emerging-technology/elon-musk-opens-virtual-gym-to-train-your-robots.html>
<http://www.dailymail.co.uk/sciencetech/article-3564752/>

WARM-UPS

1. ROBOTS: Students walk around the class and talk to other students about robots. Change partners often and share your findings.

2. CHAT: In pairs / groups, talk about these topics or words from the article. What will the article say about them? What can you say about these words and your life?

business / gym / electric car / tourism / payments / platform / artificial intelligence / project / online / humanity / financial / rewards / learning / fails / multi-task

Have a chat about the topics you liked. Change topics and partners frequently.

3. BUSINESS: What new projects could people start in these areas? Complete this table with your partner(s). Change partners often and share what you wrote.

	Name of project	What the project is
Tourism		
Internet		
Cars		
Restaurants		
Music		
Carpets		

4. ARTIFICIAL INTELLIGENCE: Students A **strongly** believe artificial intelligence will be dangerous; Students B **strongly** believe it will be helpful. Change partners again and talk about your conversations.

5. HELP: Rank these with your partner. Put the things robots can help us with most at the top. Change partners often and share your rankings.

- learning English
- cleaning the home
- building houses
- healthcare
- care for the elderly
- making money
- looking after babies
- solving climate change

6. GYM: Spend one minute writing down all of the different words you associate with the word "gym". Share your words with your partner(s) and talk about them. Together, put the words into different categories.

BEFORE READING / LISTENING

From <http://www.BreakingNewsEnglish.com/1605/160501-robot-gym.html>

1. TRUE / FALSE: Read the headline. Guess if a-h below are true (T) or false (F).

- | | |
|---|-------|
| a. The boss of the new gym also runs a space tourism company. | T / F |
| b. The new gym is free for anyone to use. | T / F |
| c. The system the gym uses is called a closed platform. | T / F |
| d. Algorithms are very slow at solving problems. | T / F |
| e. The boss wants the gym to develop humanity as a whole. | T / F |
| f. The idea behind the gym is similar to giving a dog rewards for learning. | T / F |
| g. An algorithm will get a reward if it fails a task. | T / F |
| h. The boss wants algorithms to do just one thing well. | T / F |

2. SYNONYM MATCH: Match the following synonyms from the article.

- | | |
|--------------|----------------|
| 1. kind | a. concepts |
| 2. boss | b. forward |
| 3. latest | c. invent |
| 4. ideas | d. chief |
| 5. deal with | e. aim |
| 6. goal | f. people |
| 7. advance | g. type |
| 8. humanity | h. manage |
| 9. develop | i. only |
| 10. just | j. most recent |

3. PHRASE MATCH: (Sometimes more than one choice is possible.)

- | | |
|--------------------------------------|---------------------------|
| 1. space | a. for free |
| 2. code | b. problems |
| 3. artificial | c. can multi-task |
| 4. a computer program that can solve | d. tourism |
| 5. quickly deal with large | e. a whole |
| 6. put it online | f. intelligence |
| 7. benefit humanity as | g. it gets no reward |
| 8. giving | h. amounts of information |
| 9. If the algorithm fails, | i. writers |
| 10. develop an algorithm that | j. rewards |

GAP FILL

From <http://www.BreakingNewsEnglish.com/1605/160501-robot-gym.html>

A group of business people has opened a (1) _____ of gym for robots. The group is headed by Elon Musk, who is the (2) _____ of the electric car company Tesla Motors and the space tourism company, SpaceX. Mr Musk also (3) _____ the online payments website PayPal. His latest project is called OpenAI Gym. It is a (4) _____ for researchers and code writers to test their latest work. It is an open platform, which means people are (5) _____ to test their ideas for artificial intelligence (A.I.) on it. In (6) _____, researchers can test and share their algorithms for A.I. Algorithms are special (7) _____ of rules in a computer program that can solve problems and quickly deal with large (8) _____ of information.

platform
kind
particular
amounts
founded
boss
sets
free

Mr Musk wrote about the OpenAI Gym project and why his team decided to put it (9) _____ for free. He said: "Our goal is to (10) _____ digital intelligence in the way that is most (11) _____ to benefit humanity as a whole, [without the] need to generate financial (12) _____." The OpenAI Gym follows the idea of giving rewards for successful learning – similar to giving a dog a (13) _____ when it learns something new. This is called reinforcement learning. If an algorithm does (14) _____ in the gym, it gets a reward. If the algorithm fails, it gets no reward and it has to try something (15) _____. The aim of the gym is to develop an algorithm that can multi-task - do many things at the same time - (16) _____ than be good at doing just one thing.

likely
advance
treat
different
online
rather
return
well

LISTENING – Guess the answers. Listen to check.

From <http://www.BreakingNewsEnglish.com/1605/160501-robot-gym.html>

- 1) A group of business people has opened a kind of _____
 - a. gyms for robots
 - b. gym from robots
 - c. gym four robots
 - d. gym for robots
- 2) The group is headed by Elon Musk, who is the boss of the _____
 - a. electrical car company
 - b. electric car company
 - c. electricity car company
 - d. electric's car company
- 3) It is a platform for researchers and code writers to test _____
 - a. their late test work
 - b. their latest work
 - c. their latest works
 - d. their late test works
- 4) an open platform, which means people are free to test their ideas _____
 - a. for artificial intelligence
 - b. for artificial intelligence
 - c. for artificial intelligentsia
 - d. for arty fish all intelligence
- 5) a computer program that can solve problems and quickly deal with large _____
 - a. amount of information
 - b. amounts off information
 - c. amount solve information
 - d. amounts of information
- 6) Mr Musk wrote about the OpenAI Gym project and why his team decided to put _____
 - a. it online four free
 - b. it online from free
 - c. it online for free
 - d. it online of free
- 7) advance digital intelligence in the way that is most likely to benefit humanity _____
 - a. as a whole
 - b. as a hole
 - c. as a foal
 - d. as a fall
- 8) If an algorithm does well in the gym, it _____
 - a. get a reward
 - b. gets a rewards
 - c. gets a reward
 - d. get a rewards
- 9) The aim of the gym is to develop an algorithm that _____
 - a. can multi-tasks
 - b. can mall tea task
 - c. can mull tea task
 - d. can multi-task
- 10) do many things at the same time, rather than be good at doing _____
 - a. justly one thing
 - b. just once thing
 - c. just one thing
 - d. just one things

LISTENING – Listen and fill in the gaps

From <http://www.BreakingNewsEnglish.com/1605/160501-robot-gym.html>

A group of business people has (1) _____ gym for robots. The group is headed by Elon Musk, who (2) _____ the electric car company Tesla Motors and the space tourism company, SpaceX. Mr Musk also founded the (3) _____ website PayPal. His latest project is called OpenAI Gym. It is a platform for researchers and code writers (4) _____ work. It is an open platform, which means people are free to test their ideas for artificial intelligence (A.I.) on it. In particular, researchers (5) _____ their algorithms for A.I. Algorithms are special sets of rules in a computer program that can solve problems and (6) _____ large amounts of information.

Mr Musk wrote about the OpenAI Gym project and (7) _____ to put it online for free. He said: "Our goal is to advance digital intelligence in the way that is (8) _____ benefit humanity as a whole, [without the] need to generate financial return." The OpenAI Gym (9) _____ of giving rewards for successful learning – similar to giving a dog a treat when it learns something new. This is called reinforcement learning. If (10) _____ well in the gym, it gets a reward. If the algorithm fails, it gets no reward and it has to try something different. The (11) _____ is to develop an algorithm that can multi-task - do many things at the same time - rather than (12) _____ just one thing.

COMPREHENSION QUESTIONS

From <http://www.BreakingNewsEnglish.com/1605/160501-robot-gym.html>

1. What kind of group has started the OpenAI Gym?

2. What is the name of the car company owned by Mr Musk?

3. Who can test their latest work in the gym (besides researchers)?

4. What kind of platform is the gym on?

5. What can algorithms quickly deal with?

6. What does Mr Musk want to advance?

7. Who does Mr Musk want the gym to benefit?

8. What does Mr Musk not need from his gym?

9. What will an algorithm get if it does well in the gym?

10. What kind of algorithms does Mr Musk want from the gym?

MULTIPLE CHOICE - QUIZ

From <http://www.BreakingNewsEnglish.com/1605/160501-robot-gym.html>

1. What kind of group has started the OpenAI Gym?
 - a) a business group
 - b) a robot group
 - c) a space group
 - d) a special group
2. What is the name of the car company owned by Mr Musk?
 - a) Elon Autos
 - b) SpaceX Motors
 - c) Tesla Motors
 - d) Musk Motors
3. Who can test their latest work in the gym (besides researchers)?
 - a) aliens
 - b) code writers
 - c) babies
 - d) robots
4. What kind of platform is the gym on?
 - a) an advanced one
 - b) a steady one
 - c) a big one
 - d) an open one
5. What can algorithms quickly deal with?
 - a) lots of information
 - b) robots
 - c) chaos
 - d) babies
6. What does Mr Musk want to advance?
 - a) space
 - b) his country
 - c) video
 - d) digital intelligence
7. Who does Mr Musk want the gym to benefit?
 - a) aliens
 - b) humanity
 - c) robots
 - d) babies
8. What does Mr Musk not need from his gym?
 - a) people
 - b) headaches
 - c) robots
 - d) money
9. What will an algorithm get if it does well in the gym?
 - a) intelligence
 - b) nothing
 - c) rewards
 - d) electricity
10. What kind of algorithms does Mr Musk want from the gym?
 - a) ones that are robots
 - b) ones that can multi-task
 - c) simple ones
 - d) expensive ones

ROLE PLAY

From <http://www.BreakingNewsEnglish.com/1605/160501-robot-gym.html>

Role A – Learning English

You think robots will be most useful at helping us learn English. Tell the others three reasons why. Tell them things that are wrong with their ideas. Also, tell the others which is the least likely of these (and why): solving climate change, making money or looking after babies.

Role B – Solving climate change

You think robots will be most useful at solving climate change: Tell the others three reasons why. Tell them things that are wrong with their ideas. Also, tell the others which is the least likely of these (and why): learning English, making money or looking after babies.

Role C – Looking after babies

You think robots will be most useful at looking after babies. Tell the others three reasons why. Tell them things that are wrong with their ideas. Also, tell the others which is the least likely of these (and why): solving climate change, learning English or making money.

Role D – Making money

You think robots will be most useful at helping us learn English. Tell the others three reasons why. Tell them things that are wrong with their ideas. Also, tell the others which is the least likely of these (and why): solving climate change, looking after babies or learning English.

AFTER READING / LISTENING

From <http://www.BreakingNewsEnglish.com/1605/160501-robot-gym.html>

1. WORD SEARCH: Look in your dictionary / computer to find collocates, other meanings, information, synonyms ... for the words 'robot' and 'gym'.

robot	gym
--------------	------------

- Share your findings with your partners.
- Make questions using the words you found.
- Ask your partner / group your questions.

2. ARTICLE QUESTIONS: Look back at the article and write down some questions you would like to ask the class about the text.

- Share your questions with other classmates / groups.
- Ask your partner / group your questions.

3. GAP FILL: In pairs / groups, compare your answers to this exercise. Check your answers. Talk about the words from the activity. Were they new, interesting, worth learning...?

4. VOCABULARY: Circle any words you do not understand. In groups, pool unknown words and use dictionaries to find their meanings.

5. TEST EACH OTHER: Look at the words below. With your partner, try to recall how they were used in the text:

<ul style="list-style-type: none">• group• boss• writers• means• share• large	<ul style="list-style-type: none">• wrote• goal• need• dog• try• just
--	--

ROBOTS SURVEY

From <http://www.BreakingNewsEnglish.com/1605/160501-robot-gym.html>

Write five GOOD questions about robots in the table. Do this in pairs. Each student must write the questions on his / her own paper. When you have finished, interview other students. Write down their answers.

	STUDENT 1 _____	STUDENT 2 _____	STUDENT 3 _____
Q.1.			
Q.2.			
Q.3.			
Q.4.			
Q.5.			

- Now return to your original partner and share and talk about what you found out. Change partners often.
- Make mini-presentations to other groups on your findings.

ROBOTS DISCUSSION

STUDENT A's QUESTIONS (Do not show these to student B)

- 1) What did you think when you read the headline?
- 2) What springs to mind when you hear the word 'robot'?
- 3) What do you think about what you read?
- 4) What do you know about Elon Musk?
- 5) What do you think about robots?
- 6) How important are gyms to you?
- 7) What would a robot do in a gym?
- 8) What do you think of artificial intelligence?
- 9) What do you know about algorithms?
- 10) How good are you with computers and coding?

New gym opens to train robots – 1st May, 2016
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ROBOTS DISCUSSION

STUDENT B's QUESTIONS (Do not show these to student A)

- 11) Did you like reading this article? Why/not?
- 12) Why isn't Elon Musk charging for the OpenAI Gym?
- 13) Should more stuff online be free?
- 14) How can digital intelligence help us?
- 15) How will computers 'benefit humanity as a whole'?
- 16) What rewards do you get?
- 17) What do you think of 'reinforcement learning'?
- 18) When do you multi-task?
- 19) What things are you best at?
- 20) What questions would you like to ask Elon Musk?

DISCUSSION (Write your own questions)

STUDENT A's QUESTIONS (Do not show these to student B)

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

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DISCUSSION (Write your own questions)

STUDENT B's QUESTIONS (Do not show these to student A)

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

LANGUAGE - CLOZE

From <http://www.BreakingNewsEnglish.com/1605/160501-robot-gym.html>

A group of business people has opened a (1) _____ of gym for robots. The group is headed by Elon Musk, who is the (2) _____ of the electric car company Tesla Motors and the space tourism company, SpaceX. Mr Musk also (3) _____ the online payments website PayPal. His latest project is called OpenAI Gym. It is a platform for researchers and code writers to test their (4) _____ work. It is an open platform, which means people are free to test their ideas for artificial intelligence (A.I.) (5) _____ it. In particular, researchers can test and share their algorithms for A.I. Algorithms are special sets of rules in a computer program that can solve problems and quickly (6) _____ with large amounts of information.

Mr Musk wrote about the OpenAI Gym project and why his team decided to put it online (7) _____ free. He said: "Our goal is to advance digital intelligence in the way that is most likely to benefit (8) _____ as a whole, [without the] need to generate financial return." The OpenAI Gym follows the idea of giving (9) _____ for successful learning – similar to giving a dog a (10) _____ when it learns something new. This is called reinforcement learning. If an algorithm does well in the gym, it gets a reward. If the algorithm fails, it gets no reward and it has to try something different. The (11) _____ of the gym is to develop an algorithm that can multi-task - do many things at the same time - (12) _____ than be good at doing just one thing.

Put the correct words from the table below in the above article.

- | | | | | |
|-----|--------------|---------------|--------------|--------------|
| 1. | (a) kinder | (b) kindly | (c) kind | (d) kindness |
| 2. | (a) boss | (b) bossy | (c) bossed | (d) bosses |
| 3. | (a) founded | (b) finding | (c) finds | (d) fund |
| 4. | (a) latest | (b) lately | (c) late | (d) lateness |
| 5. | (a) to | (b) at | (c) as | (d) on |
| 6. | (a) mix | (b) plot | (c) hand | (d) deal |
| 7. | (a) for | (b) by | (c) on | (d) at |
| 8. | (a) humanely | (b) human | (c) humane | (d) humanity |
| 9. | (a) rewards | (b) rewarding | (c) rewarded | (d) reward |
| 10. | (a) threat | (b) treat | (c) treaty | (d) threaten |
| 11. | (a) arm | (b) aim | (c) am | (d) army |
| 12. | (a) rather | (b) instead | (c) prefer | (d) liken |

SPELLING

From <http://www.BreakingNewsEnglish.com/1605/160501-robot-gym.html>

Paragraph 1

1. the space rtimsuo company, SpaceX
2. It is an open plrtmoaf
3. ciiralifat intelligence (A.I.)
4. In aricrutpal, researchers can...
5. elsvo problems
6. large ntoasmu of information

Paragraph 2

7. ncvaaed digital intelligence
8. most likely to benefit imhynuat
9. generate nicfainla return
10. lccfuseuss learning
11. it gets a rwraed
12. vlodeep an algorithm

PUT THE TEXT BACK TOGETHER

From <http://www.BreakingNewsEnglish.com/1605/160501-robot-gym.html>

Number these lines in the correct order.

- () ideas for artificial intelligence (A.I.) on it. In particular, researchers can test and share their algorithms
- () whole, [without the] need to generate financial return." The OpenAI Gym follows the idea of giving
- () of the electric car company Tesla Motors and the space tourism company, SpaceX. Mr Musk also founded the online
- () fails, it gets no reward and it has to try something different. The aim of the gym is to develop an algorithm that
- () problems and quickly deal with large amounts of information.
- () Mr Musk wrote about the OpenAI Gym project and why his team decided to put it online for free. He said: "Our goal is to
- () for A.I. Algorithms are special sets of rules in a computer program that can solve
- () advance digital intelligence in the way that is most likely to benefit humanity as a
- () writers to test their latest work. It is an open platform, which means people are free to test their
- (**1**) A group of business people has opened a kind of gym for robots. The group is headed by Elon Musk, who is the boss
- () can multi-task - do many things at the same time - rather than be good at doing just one thing.
- () rewards for successful learning – similar to giving a dog a treat when it learns something new. This is called reinforcement
- () learning. If an algorithm does well in the gym, it gets a reward. If the algorithm
- () payments website PayPal. His latest project is called OpenAI Gym. It is a platform for researchers and code

PUT THE WORDS IN THE RIGHT ORDER

From <http://www.BreakingNewsEnglish.com/1605/160501-robot-gym.html>

1. gym of kind a opened has people business of group A .

2. code test work and to latest Researchers writers their .

3. ideas intelligence free their artificial are test for People to .

4. solve Rules computer can a that problems in program .

5. information of amounts large with deal Quickly .

6. team decided to put it online for free Why his .

7. to whole benefit humanity Most as likely a .

8. successful idea for The rewards giving learning of .

9. the an gets in If it well , does reward gym algorithm a .

10. of the gym is to develop an algorithm The aim .

CIRCLE THE CORRECT WORD (20 PAIRS)

From <http://www.BreakingNewsEnglish.com/1605/160501-robot-gym.html>

A group of business people has opened a *kind / kindly* of gym for robots. The group is headed by Elon Musk, who is the *bossy / boss* of the electric car company Tesla Motors and the *space / spaced* tourism company, SpaceX. Mr Musk also *founded / finds* the online payments website PayPal. His latest project is *called / calling* OpenAI Gym. It is a platform for researchers and code writers to *test / testing* their latest work. It is an *open / closed* platform, which means people are *freely / free* to test their ideas for artificial intelligence (A.I.) on it. In *particular / peculiar*, researchers can test and share their algorithms for A.I. Algorithms are special sets of rules in a computer program that can solve problems and quickly *dealt / deal* with large amounts of information.

Mr Musk wrote about the OpenAI Gym project and *why / what* his team decided to put it online for *free / freed*. He said: "Our goal is to advance digital *intelligent / intelligence* in the way that is most likely to *beneficial / benefit* humanity as a *whole / hole*, [without the] need to generate financial return." The OpenAI Gym *follows / chases* the idea of giving rewards for successful learning – *compares / similar* to giving a dog a treat when it learns something new. This is called reinforcement learning. If an algorithm does *good / well* in the gym, it gets a reward. If the algorithm fails, it gets no reward and it has to try something *difference / different*. The aim of the gym is to develop an algorithm that can multi-task - do many things at the same time - rather than be good at doing just *once / one* thing.

Talk about the connection between each pair of words in italics, and why the correct word is correct.

INSERT THE VOWELS (a, e, i, o, u)

From <http://www.BreakingNewsEnglish.com/1605/160501-robot-gym.html>

_ gr__p _f b_s_n_ss p__pl_ h_s _p_n_d _k_nd _f gym
f_r r_b_ts. Th_ gr__p _s h__d_d by _l_n M_sk, wh__s
th_ b_ss _f th_ _l_ctr_c c_r c_m_p_ny T_sl_ M_t_rs _nd
th_ sp_c_ t__r_sm c_m_p_ny, Sp_c_X. Mr M_sk _ls_
f__nd_d th_ _nl_n_ p_ym_nts w_bs_t_ P_yP_l. H_s
l_t_st pr_j_ct _s c_ll_d _p_n__ Gym. _t _s _pl_tf_rm
f_r r_s__rch_rs _nd c_d_ wr_t_rs t_t_st th__r l_t_st
w_rk. _t _s _n _p_n pl_tf_rm, wh_ch m__ns p__pl_ _r_
fr__ t_t_st th__r _d__s f_r _rt_f_c__l _nt_ll_g_nc_
(_._.) _n _t. _n p_rt_c_l_r, r_s__rch_rs c_n t_st _nd
sh_r_ th__r _lg_r_thms f_r _._. _lg_r_thms _r_ sp_c__l
s_ts _f r_l_s _n _c_m_p_t_r pr_gr_m th_t c_n s_lv_
pr_bl_ms _nd q__ckly d__l w_th l_rg_ _m__nts _f
_nf_rm_t__n.

Mr M_sk wr_t_ _b__t th_ _p_n__ Gym pr_j_ct _nd why
h_s t__m d_c_d_d t_p_t _t _nl_n_ f_r fr__ . H_s__d:
"__r g__l _s t__dv_nc_d_g_t_l _nt_ll_g_nc_ _n th_
w_y th_t _s m_st l_k_ly t_b_n_f_t h_m_n_ty _s _
wh_l_, [w_th__t th_] n__d t_g_n_r_t_f_n_nc__l
r_t_rn." Th_ _p_n__ Gym f_ll_ws th_ _d__ _f g_v_ng
r_w_rds f_r s_cc_ssf_l_l__rn_ng - s_m_l_r_t_g_v_ng _
d_g_ _tr__t wh_n _t_l__rns s_m_th_ng n_w. Th_s _s
c_ll_d r__nf_rc_m_nt l__rn_ng. _f _n _lg_r_thm d__s
w_ll _n th_ gym, _t g_ts _r_w_rd. _f th_ _lg_r_thm
f__ls, _t g_ts n_r_w_rd _nd _t h_s t_try s_m_th_ng
d_ff_r_nt. Th_ __m _f th_ gym _s t_d_v_l_p_n
_lg_r_thm th_t c_n m_lt-t_sk - d_m_ny th_ngs _t th_
s_m_t_m_ - r_th_r th_n b_g__d _t d__ng j_st _n_
th_ng.

PUNCTUATE THE TEXT AND ADD CAPITALS

From <http://www.BreakingNewsEnglish.com/1605/160501-robot-gym.html>

a group of business people has opened a kind of gym for robots the group is headed by elon musk who is the boss of the electric car company tesla motors and the space tourism company spacex mr musk also founded the online payments website paypal his latest project is called openai gym it is a platform for researchers and code writers to test their latest work it is an open platform which means people are free to test their ideas for artificial intelligence (ai) on it in particular researchers can test and share their algorithms for ai algorithms are special sets of rules in a computer program that can solve problems and quickly deal with large amounts of information mr musk wrote about the openai gym project and why his team decided to put it online for free he said "our goal is to advance digital intelligence in the way that is most likely to benefit humanity as a whole [without the] need to generate financial return" the openai gym follows the idea of giving rewards for successful learning – similar to giving a dog a treat when it learns something new this is called reinforcement learning if an algorithm does well in the gym it gets a reward if the algorithm fails it gets no reward and it has to try something different the aim of the gym is to develop an algorithm that can multi-task - do many things at the same time - rather than be good at doing just one thing

PUT A SLASH (/) WHERE THE SPACES ARE

From <http://www.BreakingNewsEnglish.com/1605/160501-robot-gym.html>

A group of business people has opened a kind of gym for robots. The group is headed by Elon Musk, who is the boss of the electric car company Tesla Motors and the space tourism company, SpaceX. Mr Musk also founded the online payments website PayPal. His latest project is called OpenAI Gym. It is a platform for researchers and codewriters to test their latest work. It is an open platform, which means people are free to test their ideas for artificial intelligence (A.I.) on it. In particular, researchers can test and share their algorithms for A.I. Algorithms are a special set of rules in a computer program that can solve problems and quickly deal with large amounts of information. Mr Musk wrote about the OpenAI Gym project and why he decided to put it online for free. He said: "Our goal is to advance digital intelligence in the way that is most likely to benefit humanity as a whole, [without the] need to generate financial return." The OpenAI Gym follows the idea of giving rewards for successful learning – similar to giving a dog a treat when it learns something new. This is called reinforcement learning. If an algorithm does well in the gym, it gets a reward. If the algorithm fails, it gets no reward and it has to try something different. The aim of the gym is to develop an algorithm that can multi-task – do many things at the same time – rather than be good at doing just one thing.

HOMework

1. VOCABULARY EXTENSION: Choose several of the words from the text. Use a dictionary or Google's search field (or another search engine) to build up more associations / collocations of each word.

2. INTERNET: Search the Internet and find out more about robot gyms intelligence. Share what you discover with your partner(s) in the next lesson.

3. ROBOTS: Make a poster about robots. Show your work to your classmates in the next lesson. Did you all have similar things?

4. ARTIFICIAL INTELLIGENCE (AI): Write a magazine article about artificial intelligence. Include imaginary interviews with people who are for and against it.

Read what you wrote to your classmates in the next lesson. Write down any new words and expressions you hear from your partner(s).

5. WHAT HAPPENED NEXT? Write a newspaper article about the next stage in this news story. Read what you wrote to your classmates in the next lesson. Give each other feedback on your articles.

6. LETTER: Write a letter to an expert on artificial intelligence. Ask him/her three questions about it. Give him/her three of your ideas on how it will help humans, and how it might be dangerous. Read your letter to your partner(s) in your next lesson. Your partner(s) will answer your questions.

ANSWERS

TRUE / FALSE (p.4)

a T b T c F d F e T f T g F h F

SYNONYM MATCH (p.4)

- | | |
|--------------|----------------|
| 1. kind | a. type |
| 2. boss | b. chief |
| 3. latest | c. most recent |
| 4. ideas | d. concepts |
| 5. deal with | e. manage |
| 6. goal | f. aim |
| 7. advance | g. forward |
| 8. humanity | h. people |
| 9. develop | i. invent |
| 10. just | j. only |

COMPREHENSION QUESTIONS (p.8)

1. A business group
2. Tesla Motors
3. Code writers
4. An open platform
5. Large amounts of information
6. Digital intelligence
7. Humanity
8. Financial return
9. A reward
10. Ones that can multi-task

MULTIPLE CHOICE - QUIZ (p.9)

1. a 2. c 3. b 4. d 5. a 6. d 7. b 8. d 9. c 10. b

ALL OTHER EXERCISES

Please check for yourself by looking at the Article on page 2.
(It's good for your English ;-)