

Can we build AI without losing control over it?

[listening test questions]

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Date: June 2015
Time: (14:27)
Level: ***** [C1]

TED TALKS Link:

https://www.ted.com/talks/sam harris can we build ai without losing control over it

Check these words before listening:

Key vocabulary

- 1. Intuition
- 2. A global famine
- 3. Catastrophe
- 4. Science fiction,
- 5. to marshal an appropriate emotional response
- 6. Automation
- 7. An asteroid
- 8. Malicious
- 9. Divergence
- 10. Competent
- 11. To annihilate
- 12. Inevitable
- 13. Assumptions
- 14. To be far-fetched
- 15. Crucial
- 16. Exponential progress
- 17. Precarious
- 18. Unreliable
- 19. John von Neumann (famous physicist & Mathematician)
- 20. A spectrum
- 21. MIT
- 22. A trillionaire
- 23. To go berserk
- 24. Silicon Valley
- 25. Unprecedented power
- 26. The Simpsons
- 27. A Manhattan Project
- 28. An arms race

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Student

TED Talks Test Questions

Time: Approximately 1- 1:30 hours

1. Read the title

- Try to predict the content of lecture
- Write down key terms / ideas
- Check key vocabulary using a dictionary

Try to listen ONLY two times

Three types of lesson

Lesson#1: [hard]

- 1. Listen once take notes
- 2. Give 5 minutes to tidy notes
- 3. Listen again and add to notes (use a different colour pen).
- 4. Answer questions set 20-25 minutes to answer.
- 5. Check answers
- 6. Listen again to check answers

Lesson #2: [medium]

- 1. Listen once take notes.
- 2. Answer questions: 10-15 minutes
- 3. Listen again answer the questions as they listen
- 4. Give yourself 10 minutes to tidy answers. Then check answers
- 5. Listen again to check answers

Lesson #3: [easier]

- 1. Read questions highlight key terms
- 2. listen once and answer questions
- 3. 5 minutes to tidy notes
- 4. Listen again answer missed question
- 5. 5-10 minutes to tidy answers. Then check answers
- 6. Listen again to check answers





Teacher

TED Talks comprehension questions

Lesson Plan

Aim: to develop the students' ability to listen to a 10 min+ lecture, to take notes and then use those notes to answer a range of test type questions.

Lesson Time: Approximately 1:30-2:00 hours

Lesson Plan

1.Lead in

- Ask Students to discuss the 'title' and predict the content of lecture
- Ask students to write down key terms / language from discussion
- Feed in / check key vocabulary

Three types of lesson

Lesson#1: [hard]

- 1. Students listen once take notes
- 2. Give 5 minutes to tidy notes
- 3. Listen again and add to notes (use a different colour pen).
- 4. Give out questions set 20-25 minutes to answer.
- 5. Feedback answers (give out answers or go through on board)

Lesson #2: [medium]

- 1. Students listen once take notes.
- 2. Give out questions: Set 15 minutes for students to answer questions from notes
- 3. Listen again students answer the questions as they listen
- 4. Give extra 10 minutes to consolidate answers
- 5. Feedback answers (give out answers or go through on board)

Lesson #3: [easy]

- 1. Give out questions students have 10 minutes to look at questions
- 2. Students listen and answer questions
- 3. Give 5 minutes to tidy notes
- 4. Students listen again check answers and answer questions missed
- 5. <u>5-10 minutes</u> to tidy answers
- 6. Feedback answers (give out answers or go through on board)





Can we build AI without losing control over it? TED TALK: Sam Harris [Jun 2016. 14:27]

1.Introduction: True	/ False /	Not Given
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	T / F / No	
i. The lecturer claims we are all worried	about A.I in the future	
ii. The lecturer believes A.I will destroy a	all of us	
iii. The lecturer believes A.I will take ove	er the world	
iv. Most of us find A.I fun to think about	:	
v. A.I will cause global famine		
Vi. We are able to marshal an emotiona	I response to the future of A.I	
2. The two doors scenario – short ar	nswers/	
Door 1		
What is behind the 1 st door?	What could stop this from happening? (2 reasons)	
i	i. A full-scale nuclear war	
	ii	
	iii	
The overall point is:	i. to stop A.I	
Door 2		
What is behind the second door?	What will happen?	
i	ii. If we build machines that are smarter	

themselves.





A scientific term:	iii. Mathematicians call this process of being not in control; "i
	e " . [2 points
The main concern is that these competent machines	iv. could us
Which insect does he refer to in order to consolidate this point?	v
3. Three main assumptions – short ans	swers
Assumption 1	
Idea	Development
i	ii. g i is when a machine can think flexibly across multiple domains —
Overall point:	iii. It's crucial to realize that the rate of progress doesn't matter, because
	/
Assumption 2	
Idea	Development
i	ii. We need to improve our u as it is a valuable resource.
Overall point - We have problems to solve:	We want to cure diseases like iii) c science
Idiom expression: vi. 'the train is out of the s	





____/6

Assumption 3	
Idea	Development
i	This is what makes our situation so ii) p, and this is what makes our intuitions about risk so iii) u
The spectrum of intelligence:	Machines will iv) e this spectrum in ways that we can't imagine, and v) e us in ways that we can't imagine.
The virtue of speed in electronic circuits: What do these numbers refer to?	A million times faster: vi) 20,000 years: vii)
4. Summary — [put a suitable word in the gap - The future with A.I Imagine the best case scenario a super-inte	
could redesign itself to be the perfect i) I	s device. It could end most
basic jobs and at the same time many ii) i	jobs too. The main concern is
what would happen to the main iii) e	and political order. We would
witness wealth inequality and high levels of	iv) u never experienced
before. There would be a few v) t	and the rest of us would starve.
5. Multiple Choice: i. Russian and Chinese – choose only one	/5
a) The Russians and Chinese want to wage	war
b) The Russians and Chinese are 6 months	
c) The Russians and Chinese will do anythind) none of the above	ng to be the leaders in A.I





/1
ii. One of the most frightening things is – choose only one
a) A.I researchers are lying about how close they are to super-intelligent A.I.
b) A.I researchers are often telling us super-intelligent A.I is far off and not to worry
c) A.I researchers do not realise how dangerous it is
d) A.I researchers think we will populate Mars before A.I is invented
/ 1
iii. Another frightening point is – choose only one
a) We are not ready and have no idea of the safety parameters
b) We have an urgency to create super-intelligent A.I
c) We are ready for aliens but not for super-intelligent A.I
d) 50 years is not enough time to get ready for super-intelligent A.I
/ 1
vi. Implanting A.I technology into our brains (neuroscience) – choose only one
a) this is the safest option
b) super-intelligent A.I and neuroscience is less likely than just basic super-intelligent A.I
c) this technology will help A.I machines share our common values
d) all the above
/ 1
6. Summary — [put a suitable word in the gap]
Possible solution
A.I will be inevitably built. There is so much to consider when you are creating super-
intelligent machines that can make i) to itself. We need something like a
ii) Project on the topic of artificial intelligence especially to avoid an
iii) race. We also need to admit that the horizon of iv) far
exceeds what we currently know and we are in the process of building some kind of v)
Is this something we can live with?
/5
Total seems. / 47
Total score: / 47





Can we build AI without losing control over it? ANSWERS

1.Introduction: T/F/NG

i. The lecturer claims we are all worried about A.I in the future No we think it's fun	F
ii. The lecturer believes A.I will destroy us	Т
iii. The lecturer believes A.I will take over the world	NG
iv. Most of us find A.I fun to think about	Т
v. A.I will cause global famine	NG
Vi. We are able to marshal an emotional response to the future of A.I We can't seem to marshal a response	F

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2. The two doors scenario – short answers

Door 1		
What is behind the 1 st door?	What could stop this from happening?	
	(2 reasons)	
i. stop making progress in building	i. A full-scale nuclear war?	
intelligent machines	ii. A global pandemic?	
	iii. An asteroid impact?	
Our computer hardware and software just	iv. Justin Bieber president of the United	
stops getting better for some reason	States?	
	(any 3, any order)	
The overall point is:	i. to stop A.I -something would have to	
	destroy civilization as we know it	

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Door 2		
What is behind the second door?	What will happen?	
i. We continue to improve our intelligent machines year after year after year	ii. will build machines that are smarter than we are, and this will lead to, they will begin to improve themselves	
A scientific term:	iii. Mathematicians call this process of being not in control "intelligence explosion".	
The main concern is that these competent machines could	iv. destroy us	
Which insect does he refer to in order to consolidate this point?	v. ants	

____/5

3. Three main assumptions – short answers

Assumption 1	
Idea	Development
i. Intelligence is a matter of information processing in physical systems.	ii. general intelligence is when a machine can think flexibly across multiple domains –
Overall point:	iii. It's crucial to realize that the rate of progress doesn't matter, because any progress is enough to get us into the end zone.

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Assumption 2	
Idea	Development
i. is that we will keep going. We will continue to improve our intelligent machines	ii. We need to improve our understanding as it is a valuable resource.
Overall point	We want to cure diseases like iii) cancer and improve our iv) climate science
Idiom expression: iv. the train is out of the st	tation and there's no brake to pull.

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Assumption 3	
Idea	development
i. we don't stand on a peak of intelligence, or anywhere near it	This is what makes our situation so ii. precarious, and this is what makes our intuitions about risk so iii. unreliable
The spectrum of intelligence:	Machines will iv. explore this spectrum in ways that we can't imagine, and v. exceed us in ways that we can't imagine.
The virtue of speed in electronic circuits:	vi. a million times faster: than biochemical ones vii. 20,000 years of human-level intellectual work in a week

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4. Summary – the future with A.I.

Imagine the best case scenario a super-intelligent A.I design with no safety concerns. It could redesign itself to be the perfect i. labour-saving device. It could end most basic jobs and at the same time many ii. intellectual jobs too. The main concern is what would happen to the main iii. economic and political order. We would witness wealth inequality and high levels of iv. unemployment never experienced before. There would be a few v. trillionnaires and the rest of us would starve.

/ 6

5. Multiple Choice:

- i. Russian and Chinese choose the correct one
- a) The Russians and Chinese want to wage war
- B) The Russians and Chinese are 6 months in front of the competition with A.I
- c) The Russians and Chinese will do anything to be the leaders in A.I
- d) none of the above

/ 1

- ii. One of the most frightening things is.. choose the correct one
 - a) A.I researchers are lying about how close they are to super-intelligent A.I.
- b) A.I researchers are often telling us super-intelligent A.I is far off and not to worry
- c) A.I researchers do not realise how dangerous it is
- d) A.I researchers think we will populate Mars before A.I is invented

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iii. Another frightening point is... – choose one

a)	We are not read	y and have r	າo idea of	the safety	y parameters
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- b) We have an urgency to create super-intelligent A.I
- c) We are ready for aliens but not for super-intelligent A.I
- d) 50 years is not enough time to get ready for super-intelligent A.I

vi. Implanting A.I technology into our brains (neuroscience)

- a) this is the safest option
- b) super-intelligent A.I and neuroscience is less likely than just basic super-intelligent A.I
- c) this technology will help A.I machines share our common values
- d) all the above

6. Summary – possible solution

A.I will be inevitably built. There is so much to consider when you are creating superintelligent machines that can make i. changes to itself. We need something like a ii. Manhattan Project on the topic of artificial intelligence especially to avoid an iii. arms race. We also need to admit that the horizon of iv. cognition far exceeds what we currently know and we are in the process of building some kind of v. God. Is this something we can live with?

/	5
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Total score: ____ / 44

