

Artificial General Intelligence Artificial Intelligence +1

## How is artificial intelligence different from regular programming?

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### 5 Answers



Samuel Schlesinger, Undergraduate CS Student

Answered Dec 25, 2015

Programming is the art of creating procedures, functions, really just creating programs in the most abstract sense. Artificial Intelligence is a cross between the cognitive and computer sciences which is the study of creating and understanding the way that one might emulate what humans think of as intelligence. Computer Science is faced with the question of: given an input and a question about this input, what is the answer to this question. Artificial Intelligence is a subset of the questions one might be asked.

The questions artificial intelligence asks are simple: How can we automate reasoning in a dynamic and flexible way? This breaks down into a variety of subproblems: search, classification, regression, etc.. Read the Wikipedia page for [Artificial intelligence](#) and you'll learn more.

In terms of the actual programming, I can tell you from experience that the algorithms you'll be writing for AI applications are far less satisfying programmatically than a lot of other domains. They are incredibly satisfying and rich mathematically, but a lot of the code feels the same and sort of boring, particularly for Machine Learning tasks, but this is just my experience.

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Tejas Khot, Machine Learning, CV, NLP and AI enthusiast, dabbler and researcher

Answered Dec 18, 2015

### Regular program:

You have some input **X** and you want your output to be **Y**(not known earlier; somewhat like the answer of applying a formula). You do this by writing a

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**AI program:**

You have some input  $X$  and you want your output to be  $Y$  (you somewhat know what this should be like) but you don't know how  $Y$  can be generated from  $X$  i.e. the function  $f$  is unknown. So you write a program (code) that approximates this function  $f$  and this process is known as *learning from data*.

To sum up:

Regular program: take input and function to produce output

AI program: take input (and in some cases output too) to produce the generating function

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Justin Echternach, studied Electrical and Electronics Engineering & Computer Science at Pennsylvania State University

Answered Nov 18

AI is writing a program that's goal is to allow it to learn based on data supplied to it. Using this data the AI program makes decisions and choices. The quality of those decisions is based on the quality of the programming and the quality of the data provided. It's decisions are not 100% reliable at the moment, so for critical operations, such as in health care, autonomous driving, etc., it still requires human monitoring and intervention. The biggest issue right now is that most AI systems are not programmed to report how they arrived at a certain decision. That is being corrected and future AI systems will provide this very important feature. As far as everyday programming goes, the difference is the code you write tells the computer exactly what to do versus teaching it how to learn and make its own decisions.

I hope that helps ...

Thanks for the A2A

Best Regards,



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Abhideep Bhattacharjee, Author of AI: Are We The Last Generation

happens outside of this scenario, the program halts or crashes.

AI is about 'training' a program for a specific task and then letting it explore on its own. We do not predefine all the scenarios that the program will face while completing this task. The program just 'figures out' what to do.

For instance, we may write a program to add 2 numbers as:

Take input for 1st number //only integers

Store the value in a variable and call this 'a'

Take input for 2nd number //only integers

Store the value in a variable and call this 'b'

$c=a+b$  //the function of add is also defined in a library which we will call in the program.

Display the value of c.

Now let's look at how AI works. Suppose I want to create an AI program to add 2 numbers. Here is how I will create it:

$2+7=9$

$0+1=1$

$4+8=12$

$9+1=10$

Take input for 1st number //only integers

Store the value in a variable and call this 'a'

Take input for 2nd number //only integers

Store the value in a variable and call this 'b'

Add a and b.

Note that I am showing some examples to the program of how 2 numbers are added. Then I ask it to take 2 numbers as input and add these numbers. The program studies the sample data set and figures out how addition is done.

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Sanjeet Pal Singh, Student of Artificial Intelligence

Answered Dec 15, 2015

Artificial Intelligence is nothing but set of intelligent predefined rules for computer or machine. It is also a part of programming but intelligent programming. I would like to explain this question using an example. Suppose

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complete a line using zero or x. But if you want to program a game such that computer can play with you than you have to predefine the intelligent moves such that computer can also play like a human with a player. For this you have to set priorities like we will give first priority to winning, second priority will be stopping the other player to win and other so on.

So using this example we can come to a conclusion that artificial intelligence is nothing but part of programming but you have to set algorithm such that computer can show intelligent behavior. You can use any language to program a A.I. game or program.

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