Texte présentation :

ARTHUR :

Good morning everyone, thank you for being here. Today, concerning the question “ how has programming changed our lives”, we will tell you about a major technology which appeared thanks to programming, the internet of things.

We will tell you about it following 4 parts. First of all, we’ll give you a definition of what it is and a small timeline, then we’ll tell you what it today, what it could be in the future and we’ll eventually conclude.

Let’s begin with a small definition : The **Internet of things** (**IoT**) is the extension of Internet connectivity into physical devices and everyday objects. Embedded with electronics, Internet connectivity, and other forms of hardware (such as sensors), these devices can communicate and interact with others over the Internet, and they can be remotely monitored and controlled.

Therefore, The internet of things needs objects that can be transformed into connected devices. That’s what the following timeline describes. As you can see, it describes the evolution of the amount of possible connected objects in time, and it looks like an exponential curve. We can see computers of course, but also common objects like door handles, ovens and even electrical outlets ! And with those numbers increasing, we can understand that the need for easier control became quite important as time passed, which is why programming came in handy.

XABI :

Indeed, the way we found to link all of these objects to each other lead us today, with the concept of smart homes. Thanks to programming we were able to make our home intelligent by telling it what to do, automatically or by yourself. Most of the time a smart home is controlled using a phone or a smart assistant like Google Home, Amazon Alexa, and all that.. The smart assistant can take the form of a bluetooth speaker like those, or an hologram form, like Gearbox, a Japanese project.

What is incredible with the internet of things is that it allows us to interact with our environment wherever we are, and whatever device we use.

But our skill in programming is a but like the curve we have shown before, it’s growing exponentially, and our understanding of deep learning and og the hologram technology could make science fiction come true.

SOFIAN :

Indeed, The smart assistants, becoming a bit like the “soul” of the house will probably evolve, thanks to years of research. We think that the use of deep learning could allow the house to learn by itself the inhabitants’ habits, so that there would be no more need to tell you house to open the stores at 8 in the morning, when to unlock the door, when to start your favorite playlist, the house could learn that by itself, and that’s a bit scary to imagine ! Although it would need extra security because you don’t want anyone using your washing machine without you autorisation. The use use of holograms would allow us to get rid of the bluetooth speaker we know, or of our phones. Of course we are mostly talking about home application, but it could be used on a much larger scale for traffic management, to reduce electricity consumption,... it has unlimited scalability.

To put it in a nutshell, the internet of things has a great place in our lives today, and thanks to the evolutions to come in programming, it will improve it’s scalability and lead us to a more connected world.

Thank you for listening, if you have any questions, please feel free to ask them.

https://en.wikipedia.org/wiki/Internet\_of\_things