



LEARNING JOURNEY

COMPUTER SCIENCE

Coming from:
Understanding how data is input

Data storage

What is data?

How data is stored in a computer system, ready for processing

Architecture

GOLDEN THREAD QUESTION

The architecture used to process data

Format

How data is converted to a format suitable for processing

Logic

The computational logic involved in processing data

Programs and software

The role of programs and software in processing data

The purpose of program design

WE ARE HERE

How data is kept secure in by **robustness** in program design

How robust programs and software can be supported by computing legislation

Leading to:
Now we understand how data is stored and processed, we can move on to learning how it is communicated and output

Data affects every single topic in computer science. It is the “golden thread”. Without data, there would be no purpose to computers. Computers are used to input, process, communicate and output data. Therefore, the computer science learning journey is **the journey of data**. In this next part of the journey, you will explore how data stored ready for processing; how it is processed and the architecture involved; the different “formats” of data and computational logic required to process it; the role programs and programming languages have to play and the importance of robust program design.

KEY VOCABULARY: Storage, processing, architecture, logic, programs/software, robustness, encryption, legislation