-

Imagine that you're eating candy out of a bowl. You take one piece regularly. To prevent the bowl from running out, someone might refill the bowl before it gets empty, so that when you want to take another piece, there's candy in the bowl.

**The bowl acts as a buffer between you and the candy bag**.

If you're watching a movie online, the web service will continually download the next 5 minutes or so into a buffer, that way your computer doesn't have to download the movie as you're watching it (which would cause hanging).

Cvp: +1: Buffers are **required when producers and consumers operate at different rates**. **Candy is made in large batches but consumed in smaller quantities --** **the entire supply chain from manufacturer to mouth is a series of buffers**.

–

Cvp: Solid definition. **I guess that's why we say the video is buffering when it freezes**, and progress bar is showing when we are watching a movie

–

-

124

The term "buffer" is a very generic term, and is not specific to IT or CS. **It's a place to store something temporarily, in order to mitigate differences between input speed and output speed. While the producer is being faster than the consumer, the producer can continue to store output in the buffer. When the consumer gets around to it, it can read from the buffer. The buffer is there in the middle to bridge the gap**.

-

-

-

Buffer means 'temporary storage'. Buffers are important in computing because **interconnected devices and systems** are **seldom 'in sync'** with one another, **so when information is sent from one system to another, it has somewhere to wait until the recipient system is ready**.

-

-

-