

### Unit 3 Reflections

In extended reading it has been interesting to find out that the "digital age" didn't start until 2002.

Up until this time analog storage accounted for a greater proportion of storage. In 1998 Google indexed 25 million websites, in 2000 this reached one billion, by 2008 this reached one trillion! Such an increase in data requires massive growths in computational power, Google have strived for power efficiency although all the computing power in data centers between 2010 and 2018 grew by 550%, the power demand only grew by 6%. As such these massive data centers are now hugely more efficient than local servers.

From the perspective of a Computer Engineer I take away two key points:

- Utilization of cloud storage and computation can be environmentally friendly
- When writing code that may be executed at a large scale, performance can have a real environmental impact

Additional Reading:

<https://blog.google/outreach-initiatives/sustainability/data-centers-energy-efficient/>

<https://www.forbes.com/sites/gilpress/2015/01/02/a-very-short-history-of-the-internet-and-the-web-2/#640765517a4e>