# Computing concepts

Python Reference · Vocabulary in context

| Word | Example |
|---|---|
| **computing** /kəmˈpjuːtɪŋ/ | **Computing** uses computers to solve problems. |
| **design cycle** /dɪˈzaɪn ˈsaɪkl/ | The **design cycle** is plan, make, test, improve. |
| **Internet** /ˈɪntənet/ | The **Internet** connects computer networks all over the world. |
| **network** /ˈnetwɜːk/ | A **network** connects computers so they can share data. |
| **packet** /ˈpækɪt/ | Data is split into small parts; each part is a **packet**. |
| **protocol** /ˈprəʊtəkɒl/ | A **protocol** is a set of rules for sending data. |
| **redundancy** /rɪˈdʌndənsi/ | Two power supplies give **redundancy**: if one fails, the other works. |
| **fault tolerance** /fɒlt ˈtɒlərəns/ | **Fault tolerance** means the system keeps working when one part fails. |
| **sequential** /siːˈkwenʃl/ | In **sequential** processing, tasks run one after another. |
| **parallel** /ˈpærəlel/ | In **parallel** processing, tasks run at the same time. |
| **core** /kɔː/ | A four-**core** processor can run four tasks at once. |
| **speedup** /ˈspiːdʌp/ | A **speedup** of 2 means the task runs twice as fast. |
| **distributed** /dɪˈstrɪbjuːtɪd/ | A **distributed** system shares the work across many computers. |



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| **digital divide** /ˈdɪdʒɪtl dɪˈvaɪd/ | The **digital divide** means some people have no computer or internet at home. |
| **bias** /ˈbaɪəs/ | A program trained on unfair data can show **bias**. |
| **intellectual property** /ˌɪntəˈlektʃuːəl ˈprɒpəti/ | A song you write is your **intellectual property**. |
| **personal data** /ˈpɜːsənl ˈdeɪtə/ | Your name and address are **personal data**. |
| **privacy** /ˈprɪvəsi/ | **Privacy** means people control who sees their information. |