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# Relationship

* Linear:
  + Integer
  + Main Memory
  + The alphabet
* Weak:
  + Dictionary
  + People with same age
* Hierarchical (no loops)
  + Military
  + Directories in Unix (root/)
* Partial
  + Sequence of Task
* Adjacency
  + Road Map
  + Facebook friends

# Data Allocation:

* **Continuous** (prototypical example: Array)
  + Not easy to be extensible
* **Node based** (prototypical example: Linked list)

If it is not necessary to store any relationship between the data in a container, the optimal data structure is often **the hash table**.