# Python Data Type Summary: Containers

"linear" means the operation gets proportionally slower as the container grows
"constant" means the operation takes roughly the same amount of time regardless of the size of the container

| Type | Can Contain | Ordered? | Mutable? | Hashable? | X[...] Subscripting | Adding Elements | Removing Elements | y in x Membership Test |
|---|---|---|---|---|---|---|---|---|
| list | anything | yes | yes | no | Constant | Constant at end (append) Linear elsewhere | constant at end Linear elsewhere | linear |
| tuple | anything | yes | no | if everything inside is hashable | Constant | N/A | N/A | linear |
| set | hashable things | no | yes | no | N/A | Constant | constant | constant |
| frozenset | hashable things | no | no | yes | N/A | N/A | N/A | constant |
| dict | hashable keys, any values | insertion order | yes | no | Constant | Constant | constant | constant (keys) |