

cons

A `cons` is a sequence type which holds a value and a reference to another sequence.

```
(def x (cons 3 nil))      ; a new list (3)
(first x)                 ; returns 3
(rest x)                  ; returns an empty sequence ()
```

```
(def y (cons 4 '(7 8 9))) ; returns a cons 4 → list (7 8 9)
(first y)                 ; returns 4
(rest y)                  ; returns the list (7 8 9)
```

```
(def z (cons 5 (cons 6 (cons 3 nil)))) ; a cons chain 5 → 6 → list (3)
(first z)                          ; returns 5
(rest z)                           ; returns cons 6 → list (3)
(first (rest z))                    ; returns 6
(rest (rest z))                     ; returns the list (3)
```

Example

```
(ns clojure.examples.example
  (:gen-class))
(defn example []
  (println (cons 0 (list 1 2,3))))
(example)
```

Output

```
(0 1 2 3)
```

Example

```
(ns clojure.examples.example
  (:gen-class))

;; This program displays Hello World
(defn Example []
  (println (cons 0 (seq [1 2 3]))))
(Example)
```

Output

```
(0 1 2 3)
```

Refs

- https://www.tutorialspoint.com/clojure/clojure_lists_cons.htm
- https://www.tutorialspoint.com/clojure/clojure_sequences_cons.htm

Plugin Backlinks:

From:
<https://jace.link/> - **Various Ways**

Permanent link:
<https://jace.link/open/cons>

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