Map! □□□□

| 1. 🗆 |
|--|
| 2. 000000000 |
| 3. 00000000 1 |
| 4. value |
| 5. key\(\text{lvalue}\)\(\text{long} |
| 6. key□□□ |
| 7. 0000000 6 |
| 1. □□ |
| map@key@value@000000000map@oooooooooooooooooooooooooooooooooooo |
| 2. 00000000 |
| #(<key> <value>) <key> : 0000000, 000000000000: scalar!,all-word!, any-string! <value> : any-type!00</value></key></value></key> |
| 3. 0000000 |
| make map! <spec></spec> |
| <spec> : keyOvalueOOOOOOintegerOO</spec> |
| $\verb DD spec $ |
| |
| • map000000spec00000000000000000000000000000 |
| • DD reduce DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD |
| |

```
#(a: 1 b: 2)
== #(
    a: 1
    b: 2
)

make map! [a 1 'b 2 "c" 3]
== #(
    a: 1
    b: 2
    "c" 3
)
```

NOTE:

4. value□□□

```
<map>/<key>
get '<map>/<key>
<map> : map!0000000word
<key> : wordOkey
```

selectDDDDDDDDDDDDD

```
get/case '<map>/<key>
select/case <map> <key>
```

```
m: #(Ab: 2 aB: 5 ab: 10)
m/ab
== 2
select m 'aB
== 2
get/case 'm/aB
== 5
select/case m 'ab
== 10
```

5. key□value□□□


```
<map>/<key>: <value>
set '<map>/<key> <value>
<map> : map!00000000word
<key> : map00value00000word0key
<value> : 000value
```



```
put <map> <key> <value>
  <map> : mapDD
  <key> : mapDDvalueDDDDDDDkeyD
```


set/case '<map>/<key> <value>
put/case <map> <key> <value>
extend/case <map> <spec>

NOTE:

- map000000key0000000000000000**key**0000000

```
m: #(Ab: 2 aB: 5 ab: 10)
m/ab: 3
m
== #(
   Ab: 3
    aB: 5
   ab: 10
)
put m 'aB "hello"
== #(
   Ab: "hello"
    aB: 5
    ab: 10
)
set/case 'm/aB 0
\mathsf{m}
== #(
   Ab: "hello"
    aB: 0
    ab: 10
)
set/case 'm/ab 192.168.0.1
== #(
   Ab: "hello"
    aB: 0
    ab: 192.168.0.1
)
m: #(%cities.red 10)
extend m [%cities.red 99 %countries.red 7 %states.red 27]
m
== #(
    %cities.red 99
    %countries.red 7
    %states.red 27
)
```

6. key□□□

 $map \verb||| \verb|| lkey| value \verb||| \verb|| constant | constant$

```
m: #(a: 1 b 2 "c" 3 d: 99)
m
== #(
    a: 1
    b: 2
    "c" 3
    d: 99
)
m/b: none
put m "c" none
extend m [d #[none]]
m
== #(
    a: 1
)
```

NOTE

 word!

OOD clear OOOOOOOOOOOOOOookeyOOOOOOOO

```
clear #(a 1 b 2 c 3)
== #()
```

7. 0000000

• find OkeyOmapOOOOOO true OOOOO none OOOOOO

```
find #(a 123 b 456) 'b
== true
```

• length? OmapOOOkey/valueOOOOOOOO

```
length? #(a 123 b 456)
== 2
```

```
keys-of #(a: 123 b: 456)
== [a b]
```

• values-of OmapOOOvalueOOOOblockOOOOO

```
values-of #(a: 123 b: 456)
== [123 456]
```

• body-of DmapDDDDDDkey/valueDDDDblockDDDDD

```
body-of #(a: 123 b: 456)
== [a: 123 b: 456]
```