



Indexing Vectors

**x < "a", "b", "c", "d", "e")**





**x[1]**

x[1]	

"a"



x[1]	"a"

**x[1:3]**

x[1]	"a"
x[1:3]	

"a"

"b"

"c"

x[1]	"a"
x[1:3]	"a" "b" "c"

**x[c(1,2,3)]**

<code>x[1]</code>	"a"
<code>x[1:3]</code>	"a" "b" "c"
<code>x[c(1,2,3)]</code>	

"a"

"b"

"c"



<code>x[1]</code>	"a"
<code>x[1:3]</code>	"a" "b" "c"
<code>x[c(1,2,3)]</code>	"a" "b" "c"

**x[-1]**

<code>x[1]</code>	"a"
<code>x[1:3]</code>	"a" "b" "c"
<code>x[c(1,2,3)]</code>	"a" "b" "c"
<code>x[-1]</code>	

"b"

"c"

"d"

"e"

<code>x[1]</code>	"a"
<code>x[1:3]</code>	"a" "b" "c"
<code>x[c(1,2,3)]</code>	"a" "b" "c"
<code>x[-1]</code>	"b" "c" "d" "e"

**x[c(5,1)]**

<code>x[1]</code>	"a"
<code>x[1:3]</code>	"a" "b" "c"
<code>x[c(1,2,3)]</code>	"a" "b" "c"
<code>x[-1]</code>	"b" "c" "d" "e"
<code>x[c(5,1)]</code>	

"e" "a"



<code>x[1]</code>	"a"
<code>x[1:3]</code>	"a" "b" "c"
<code>x[c(1,2,3)]</code>	"a" "b" "c"
<code>x[-1]</code>	"b" "c" "d" "e"
<code>x[c(5,1)]</code>	"e" "a"

**x [ x < ' c ' ]**

<code>x[1]</code>	"a"
<code>x[1:3]</code>	"a" "b" "c"
<code>x[c(1,2,3)]</code>	"a" "b" "c"
<code>x[-1]</code>	"b" "c" "d" "e"
<code>x[c(5,1)]</code>	"e" "a"
<code>x[x &lt; 'c']</code>	

"a" "b"

# Indexing Vectors

```
x <- c("a", "b", "c", "d", "e")
```

<code>x[1]</code>	"a"
<code>x[1:3]</code>	"a" "b" "c"
<code>x[c(1,2,3)]</code>	"a" "b" "c"
<code>x[-1]</code>	"b" "c" "d" "e"
<code>x[c(5,1)]</code>	"e" "a"
<code>x[x &lt; 'c']</code>	"a" "b"

# Indexing Vectors

```
x <- c("a", "b", "c")
```

```
names(x) <- c("first", "second", "third")
```