

Comma Separated List (1A)

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Function Arguments

[x, y] = func(5, 1);

↑
Input
arguments

↑
Output
arguments

Comma separated lists

Arrays and Cell Arrays

$x = [1, 2, 3, 4]$

$y = \{1, 2, 3, 4\}$

Comma separated lists

Extracting Comma Separated List by []

```
a= {1, [2, 3], 4, 5, 6 };
```

```
b = [ a{1:4} ]
```

```
⇒ b =
```

```
1  
2  
3  
4  
5
```

```
a{1:4}
```

```
⇒
```

```
ans = 1
```

```
ans =
```

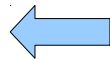
```
2 3
```

```
ans = 4
```

```
ans = 5
```

extract comma
separated list

can be concatenated
by using []



but it cannot be
directly manipulated

Extracting Comma Separated List by { }

```
a= {1, [2, 3], 4, 5, 6 };
```

```
b = { a{ [2, 4] } }
```

```
⇒ b =
```

```
{  
  [1,1] =  
    2 3  
  [1,2] = 5  
}
```

```
a{ [2, 4] }
```

```
⇒
```

```
ans =
```

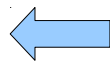
```
2 3
```

```
ans = 5
```

```
a{ 2, 4 }
```

extract comma
separated list

can be a cell array
by using { }



but it cannot be
directly manipulated

Cell elements passed to a function

```
octave:8> c = { "hello", "world"}
c =
{
  [1,1] = hello
  [1,2] = world
}
octave:9> c{:}
ans = hello
ans = world
octave:10> printf("%s", c{:})
Helloworld
octave:11>
```

References

- [1] Octave Manual