

How can I create a list of lists in R, and what is an example of this?

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Creating a list of lists in R allows for the organization and storage of multiple lists within a single data structure. This can be achieved by using the `list()` function and specifying each list as an element within the main list. For example, a list of lists in R can be created as follows:

```
list_of_lists
```

Create a List of Lists in R (With Example)

You can use the following basic syntax to create a list of lists in R:

```
#define lists
```

```
list1 <- list(a=5, b=3)
```

```
list2 <- list(c='A', d='B')
```

```
#create list of lists
```

```
list_of_lists <- list(list1, list2)
```

The following example shows how to use this syntax in practice.

Example: Create List of Lists in R

The following code shows how to create a list that contains 3 lists in R:

```
#define lists
```

```
list1 <- list(a=5, b=3)
```

```
list2 <- list(c='A', d=c('B', 'C'))
```

```
list3 <- list(e=c(20, 5, 8, 16))
```

```
#create list of lists
```

```
list_of_lists <- list(list1, list2, list3)
```

```
#view the list of lists
```

```
list_of_lists
```

```
] 
```

```
]$a
```

```
5
```

```
]$b
```

```
3
```

```
] 
```

```
]$c
```

```
"A"
```

```
]$d
```

```
"B" "C"
```

```
] 
```

```
]$e
```

```
20 5 8 16
```

We can then use single brackets to access a specific list.

For example, we can use the following syntax to access the second list:

#access second list

list_of_lists

]

]\$c

"A"

]\$d

"B" "C"

We can also use double brackets] and the dollar sign operator \$ to access a specific element within a specific list.

For example, we can use the following syntax to access element d within the second list:

#access element 'd' within second list

list_of_lists]\$d

"B" "C"

You can use similar syntax to access any element within any list.

The following tutorials explain how to perform other common tasks with lists in R:

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