

# How can I combine lists in R, and what are some examples of doing so?

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## RECOMMENDED CITATION

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Combining lists in R refers to the process of merging multiple lists into a single list, either by appending them together or by merging them based on a common element. This can be achieved using the "c" function to append lists or the "merge" function to merge them based on a key variable. Some examples of combining lists in R include merging two data frames based on a shared column, appending two lists of numbers or strings, or creating a nested list by combining multiple lists. Combining lists allows for efficient data manipulation and analysis in R.

## Combine Lists in R (With Examples)

You can use either the `c()` function or the `append()` function to combine two or more lists in R:

```
#combine two lists using c()
```

```
combined <- c(list1, list2)
```

```
#combine two lists using append()
```

```
combined <- append(list1, list2)
```

Both functions will produce the same result.

The following examples show how to use this syntax in practice.

### Example 1: Combine Two Lists

The following code shows how to combine two lists in R:

```
#define lists
```

```
list1 <- list(2, 5, 6, 8)list2 <- list(A = 1:5, B = 3)
```

```
#combine two lists into one
```

```
combined <- c(list1, list2)
```

```
#view combined list
```

```
combined
```

```
] 
```

```
2
```

```
] 
```

```
5
```

```
] 
```

```
6
```

```
] 
```

```
8
```

```
$A
```

```
1 2 3 4 5
```

```
$B
```

```
3
```

**We can also use the `length()` function to get the length of the combined list:**

```
#get length of combined list  
length(combined)
```

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**We can also use the `class()` function to get the class of the combined list:**

```
#get class of combined list  
class(combined)
```

**"list"**

**Example 2: Combine More Than Two Lists**

**We can use similar syntax to combine more than two lists in R:**

```
#define lists
```

```
list1 <- list(2, 5, 6, 8)list2 <- list(A = 1:5, B = 3)
```

```
list3 <- list(X = 'A', Y = 'B')
```

```
#combine three lists into one
```

```
combined <- c(list1, list2, list3)
```

```
#view combined list
```

```
combined
```

```
]
```

```
2
```

```
]
```

```
5
```

```
]
```

```
6
```

```
]
```

```
8
```

```
$A
```

```
1 2 3 4 5
```

```
$B
```

```
3
```

```
$X
```

```
"A"
```

```
$Y
```

**"B"**

**The following tutorials offer additional information about lists in R:**

ARABPSYCHOLOGY.COM