



Create and Name Lists





Vector - Matrix - List

- Vector: 1D, same type
- Matrix: 2D, same type
- List
 - Different R objects
 - No coercion
 - Loss of some functionality





Create list

list()

```
> c("Rsome times", 190, 5)
[1] "Rsome times" "190"
                            "5"
> list("Rsome times", 190, 5)
[[1]]
[1] "Rsome times"
[[2]]
[1] 190
[[3]]
[1] 5
> song <- list("Rsome times", 190, 5)</pre>
> is.list(song)
[1] TRUE
```





Name list

```
> song <- list("Rsome times", 190, 5)</pre>
> names(song) <- c("title", "duration", "track")</pre>
> song
$title
[1] "Rsome times"
$duration
[1] 190
$track
[1] 5
```





Name list





List in List

```
> similar_song <- list(title = "R you on time?",</pre>
                        duration = 230)
> song <- list(title = "Rsome times",</pre>
               duration = 190, track = 5,
               similar = similar_song)
> str(song)
List of 4
 $ title : chr "Rsome times"
 $ duration: num 190
 $ track : num 5
 $ similar :List of 2
  ..$ title : chr "R you on time?"
  ..$ duration: num 230
```





Let's practice!