

reshape2

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wide vs. long data

ozone	wind	temp
23.61538	11.622581	65.54839
29.44444	10.266667	79.10000
59.11538	8.941935	83.90323
59.96154	8.793548	83.96774

variable	value
ozone	23.615385
ozone	29.444444
ozone	59.115385
ozone	59.961538
wind	11.622581
wind	10.266667
wind	8.941935
wind	8.793548
temp	65.548387
temp	79.100000
temp	83.903226

melt and dcast




```
melt(data)
```

```
melt(data, id.vars = "column_name")
```

variable.name

value.name


```
dcast(data, id ~ variable,  
       value.var = "value")
```

dcast formula `dcast(aql, month + day ~ variable, value.var = "value")`

ID variables
(left side of formula)

Variable to swing
into column names
(right side of formula)

Values
(value.var)

Long-format data

month	day	variable	value
5	1	ozone	41
5	2	ozone	36
5	3	ozone	12
5	4	ozone	18
5	5	ozone	NA
5	6	ozone	28

Wide-format data

month	day	ozone	solar.r	wind	temp
5	1	41	190	7.4	67
5	2	36	118	8.0	72
5	3	12	149	12.6	74
5	4	18	313	11.5	62
5	5	NA	NA	14.3	56
5	6	28	NA	14.9	66

fun.aggregate

```
help(package = "reshape2")
```

<http://had.co.nz/reshape/>

Wickham, H. (2007). Reshaping data with the reshape package. 21(12):1–20.