Correlations

Rapport package team @ https://github.com/aL3xa/rapport

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## Description

This template will return the correlation matrix of supplied numerical variables.

## Variable description

*3* variables provided.

The highest correlation coefficient (0.2273) is between *edu* and *age* and the lowest (-0.0338) is between *leisure* and *age*. It seems that the strongest association (r=0.2273) is between *edu* and *age*.

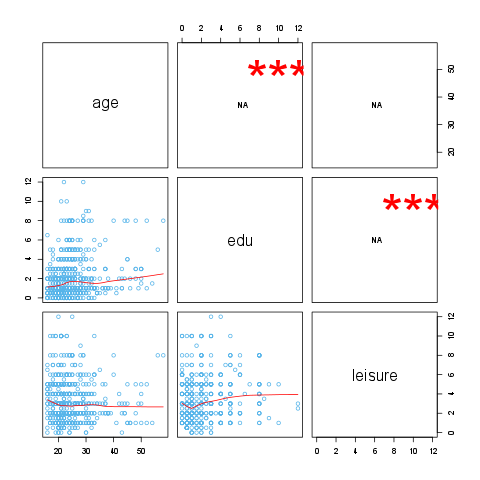
Highly correlated (r < 0.7 or r > 0.7) variables: -

Uncorrelated (-0.2 < r < 0.2) variables:

* *age* and *leisure*
* *edu* and *leisure*

### Correlation matrix

|  |  |  |  |
| --- | --- | --- | --- |
|  | **age** | **edu** | **leisure** |
| age |  | 0.2273 \* \* \* | -0.0338 |
| edu | 0.2273 \* \* \* |  | 0.1732 \* \* \* |
| leisure | -0.0338 | 0.1732 \* \* \* |  |

[](/tmp/RtmpI5pYwT/file11a45fd2-hires.png)

## Description

This template will return the correlation matrix of supplied numerical variables.

## Variable description

*11* variables provided.

The highest correlation coefficient (0.902) is between *disp* and *cyl* and the lowest (-0.8677) is between *wt* and *mpg*. It seems that the strongest association (r=0.902) is between *disp* and *cyl*.

Highly correlated (r < 0.7 or r > 0.7) variables:

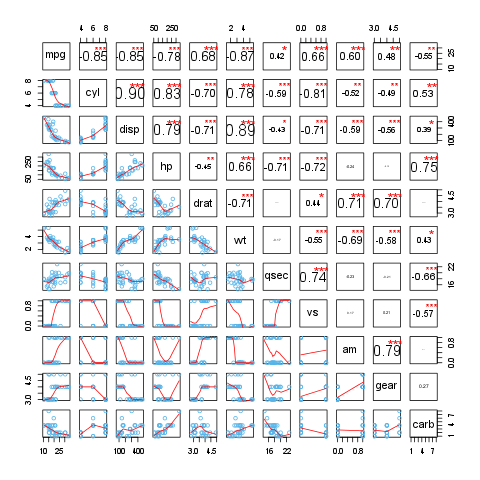
* *mpg* and *cyl*
* *mpg* and *disp*
* *cyl* and *disp*
* *mpg* and *hp*
* *cyl* and *hp*
* *disp* and *hp*
* *disp* and *drat*
* *mpg* and *wt*
* *cyl* and *wt*
* *disp* and *wt*
* *drat* and *wt*
* *hp* and *qsec*
* *cyl* and *vs*
* *disp* and *vs*
* *hp* and *vs*
* *qsec* and *vs*
* *drat* and *am*
* *am* and *gear*
* *hp* and *carb*

Uncorrelated (-0.2 < r < 0.2) variables:

* *drat* and *qsec*
* *wt* and *qsec*
* *vs* and *am*
* *hp* and *gear*
* *drat* and *carb*
* *am* and *carb*

### Correlation matrix

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **mpg** | **cyl** | **disp** | **hp** | **drat** | **wt** | **qsec** | **vs** | **am** | **gear** | **carb** |
| mpg |  | -0.8522 \* \* \* | -0.8476 \* \* \* | -0.7762 \* \* \* | 0.6812 \* \* \* | -0.8677 \* \* \* | 0.4187 \* | 0.6640 \* \* \* | 0.5998 \* \* \* | 0.4803 \* \* | -0.5509 \* \* |
| cyl | -0.8522 \* \* \* |  | 0.9020 \* \* \* | 0.8324 \* \* \* | -0.6999 \* \* \* | 0.7825 \* \* \* | -0.5912 \* \* \* | -0.8108 \* \* \* | -0.5226 \* \* | -0.4927 \* \* | 0.5270 \* \* |
| disp | -0.8476 \* \* \* | 0.9020 \* \* \* |  | 0.7909 \* \* \* | -0.7102 \* \* \* | 0.8880 \* \* \* | -0.4337 \* | -0.7104 \* \* \* | -0.5912 \* \* \* | -0.5556 \* \* \* | 0.3950 \* |
| hp | -0.7762 \* \* \* | 0.8324 \* \* \* | 0.7909 \* \* \* |  | -0.4488 \* \* | 0.6587 \* \* \* | -0.7082 \* \* \* | -0.7231 \* \* \* | -0.2432 | -0.1257 | 0.7498 \* \* \* |
| drat | 0.6812 \* \* \* | -0.6999 \* \* \* | -0.7102 \* \* \* | -0.4488 \* \* |  | -0.7124 \* \* \* | 0.0912 | 0.4403 \* | 0.7127 \* \* \* | 0.6996 \* \* \* | -0.0908 |
| wt | -0.8677 \* \* \* | 0.7825 \* \* \* | 0.8880 \* \* \* | 0.6587 \* \* \* | -0.7124 \* \* \* |  | -0.1747 | -0.5549 \* \* \* | -0.6925 \* \* \* | -0.5833 \* \* \* | 0.4276 \* |
| qsec | 0.4187 \* | -0.5912 \* \* \* | -0.4337 \* | -0.7082 \* \* \* | 0.0912 | -0.1747 |  | 0.7445 \* \* \* | -0.2299 | -0.2127 | -0.6562 \* \* \* |
| vs | 0.6640 \* \* \* | -0.8108 \* \* \* | -0.7104 \* \* \* | -0.7231 \* \* \* | 0.4403 \* | -0.5549 \* \* \* | 0.7445 \* \* \* |  | 0.1683 | 0.2060 | -0.5696 \* \* \* |
| am | 0.5998 \* \* \* | -0.5226 \* \* | -0.5912 \* \* \* | -0.2432 | 0.7127 \* \* \* | -0.6925 \* \* \* | -0.2299 | 0.1683 |  | 0.7941 \* \* \* | 0.0575 |
| gear | 0.4803 \* \* | -0.4927 \* \* | -0.5556 \* \* \* | -0.1257 | 0.6996 \* \* \* | -0.5833 \* \* \* | -0.2127 | 0.2060 | 0.7941 \* \* \* |  | 0.2741 |
| carb | -0.5509 \* \* | 0.5270 \* \* | 0.3950 \* | 0.7498 \* \* \* | -0.0908 | 0.4276 \* | -0.6562 \* \* \* | -0.5696 \* \* \* | 0.0575 | 0.2741 |  |

[](/tmp/RtmpI5pYwT/filedc6de61-hires.png)

This report was generated with [R](http://www.r-project.org/) (2.14.0) and [rapport](http://al3xa.github.com/rapport/) (0.2) in 1.361 sec on x86\_64-unknown-linux-gnu platform.

