Rapport package team

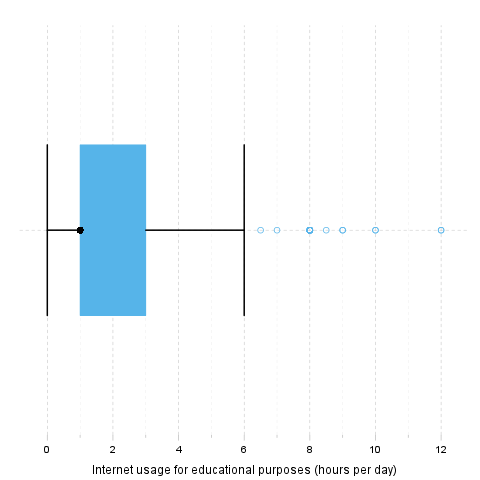
Outlier tests

2011-04-26 20:25 CET

## Description

This template will check if provided variable has any outliers.

### Charts

[](plots/outlier-test-1-hires.png)

### Lund test

It seems that *4* extreme values can be found in "Internet usage for educational purposes (hours per day)". These are: 10, 0.5, 1.5, 0.5.

#### Explanation

The above test for outliers was based on *lm(1 ~ edu)*:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Estimate | Std. Error | t value | Pr(>|t|) |
| **(Intercept)** | 2.048e+00 | 7.797e-02 | 2.627e+01 | 7.939e-105 |

Fitting linear model: var ~ 1

#### References

* Lund, R. E. 1975, "Tables for An Approximate Test for Outliers in Linear Models", Technometrics, vol. 17, no. 4, pp. 473-476.
* Prescott, P. 1975, "An Approximate Test for Outliers in Linear Models", Technometrics, vol. 17, no. 1, pp. 129-132.

### Grubb's test

Grubbs test for one outlier shows that highest value 12 is an outlier (p=*0.0001964*).

#### References

* Grubbs, F.E. (1950). Sample Criteria for testing outlying observations. Ann. Math. Stat. 21, 1, 27-58.

### Dixon's test

chi-squared test for outlier shows that highest value 12 is an outlier (p=*7.441e-07*).

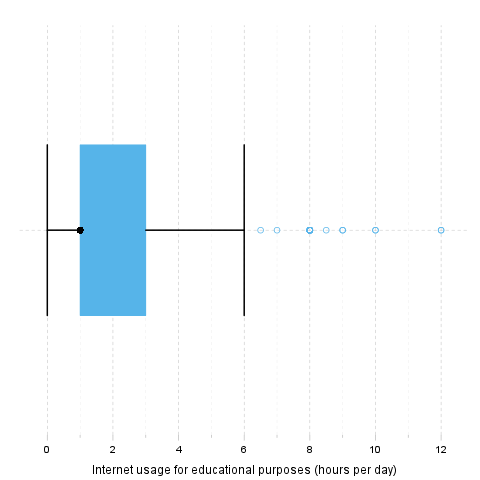
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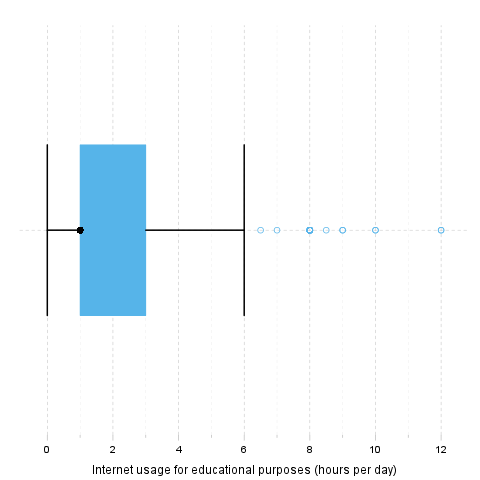
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This report was generated with [R](http://www.r-project.org/) (2.15.1) and [rapport](http://rapport-package.info/) (0.4) in *0.916* sec on x86\_64-unknown-linux-gnu platform.

