

A close-up, macro photograph of the intricate mechanical gears and components of a watch movement. The metal parts are polished and reflect a warm, golden light. The gears are of various sizes, with some showing fine teeth. The background is dark and out of focus, emphasizing the mechanical details.

The R4X package

Convenient XML Manipulation for R

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data analysis that delivers

A detailed close-up photograph of the intricate mechanical movement of a watch. The image shows several interlocking brass gears of different sizes, with fine teeth and polished surfaces. A prominent gear in the upper left has a large circular hole in its center. To the right, a smaller gear is visible, and below it, a complex assembly of components including a balance wheel with a red jewel and a spiral spring are partially visible. The lighting is warm and directional, creating strong highlights and deep shadows that emphasize the metallic textures and the precision of the craftsmanship. A semi-transparent dark horizontal band is overlaid across the middle of the image, serving as a background for the text.

Example 1:

Generating a tag cloud in xHTML

Tag cloud

Generating a simple tag cloud. See the operators package for details. Generated with the following script from the words used in all descriptions of R packages.

```
> all <- casefold( readLines( "descriptions.txt" ) )
> all <- all %s~% "/[^\w\s]//pg" %/~% "\\s+"
> all <- all %without% commonWords
> tab <- rev( sort( table( all ) ) ) [1:250]
> words <- names(tab)
> for( word in words ){
  if( ( plural <- sprintf("%ss", word) ) %in% words ) {
    tab[word] <- tab[word] + tab[plural]
    tab[plural] <- 0
  }
}
> tab <- tab[ tab != 0 ]
> tab <- tab[ sort(names(tab)) ]
> ncuts <- 8
> sizes <- as.numeric( cut ( tab, ncuts ) )
> refs <- round( seq( 10,24, length=ncuts) )
> words <- names(tab)
```


1 2 al algorithm allows analyses **analysis** applications applied approach arbitrary association available basic bayesian binary book bootstrap c calculate calculation carlo censored chain class classes classification cluster clustering code collection common components computation computational compute computing conditional confidence control correlation count covariates create currently curves **data** database datasets density described design designed detection different discrete display distance **distribution** either engineering environment error estimate estimating estimation estimator et etc exact examples experiments features file finance financial first fit fitting framework **function** functionality gaussian gene general generalized genetic graph graphical graphics group gui hazard hierarchical if implementation implemented implements **include** included including independent inference information **interface** intervals its kernel large level library likelihood linear local logistic main manipulating map markov matrices matrix maximum may mean measures **method** microarray missing mixture **model** modeling modelling monte most multiple multivariate network nonlinear nonparametric normal number object observations order output **package** parameter parametric perform plot plotting point population possible power probability problems procedure process processes program programming proportional **provide** provided quantitative **r** random **regression** related response results risk robust routines s sample sampling selection series set simple simulation single smoothing so software spatial specified splus squares standard statistical statistics structure support survival system teaching **test** testing theory through time tools trees univariate useful user uses **using** utilities utility value **variable** variance various vector version very wavelet way weighted work written

Example 2:

Fetch information from RSS feeds



RSS: Example

Example RSS feed from <http://www.w3schools.com/rss>.

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<rss version="2.0">
<channel>
  <title>W3Schools Home Page</title>
  <link>http://www.w3schools.com</link>
  <description>
    Free web building tutorials
  </description>
  <item>
    <title>RSS Tutorial</title>
    <link>http://www.w3schools.com/rss</link>
    <description>
      New RSS tutorial on W3Schools
    </description>
  </item>
</channel>
</rss>
```




Questions ?

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