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Quick and dirty function which draws histogram overlaid with normal distribution curve.

[hist.dnorm.r](#)

```
hist.dnorm <- function (x, lines.col = 'red', lines.lwd = 2, ...)  
{  
  hist (x, freq = FALSE, ...)  
  lines (seq (min (x), max (x), length = 100), dnorm (seq (min (x), max  
(x), length = 100), mean = mean (x), sd = sd (x)), col = lines.col, lwd  
= lines.lwd)  
}
```

To modify color and thickness of the normal distribution curve, use arguments `lines.col` and `lines.lwd`. Function accepts most other arguments for `hist`, with some limitations.

Example of use (using environmental data from the dataset [Vegetation of Carpathian wetlands](#)):

source

```
('http://www.davidzeleny.net/anadat-r/doku.php/en:customized_functions:hist.  
dnorm?do=export_code&codeblock=0') # reads the function definition from  
above  
chem <- read.delim  
( 'http://www.davidzeleny.net/anadat-r/data-download/chemistry.txt',  
row.names = 1) # reads the 'chem' dataset  
hist.dnorm (chem[, -15], cex.labels = 1)
```



Note that the package car contains the function scatterplotMatrix, which is doing something similar (and perhaps could be also further customized).

From: <https://www.davidzeleny.net/anadat-r/> - Analysis of community ecology data in R

Permanent link: https://www.davidzeleny.net/anadat-r/doku.php/en:customized_functions:hist.dnorm?rev=1488766227

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