Validation Procedure of QuantLets according to the Styleguide

The proposed procedure should be followed sequentially. All steps are illustrated by examples included in the styleguide.

Instructions

- 1. Check MetaInfo Click to see example
 - (a) Name of QuantLet
 - (b) Published in Book/ Paper
 - (c) Description at least 10 words; should begin with the verb, e.g. "plots the time series..."
 - (d) Keywords at least 5 words (the more the merrier) List of keywords http://quantnet.wiwi.hu-berlin.de/index.php?p=searchResults& w=allkeywords&sort=f
 - (e) Input (optional)
 - (f) Output (optional)
 - (g) Author
 - (h) Submitted
 - (i) Datafile
- 2. Check Code (Align QuantLet Code to Style Guide standards)
 - (a) check wether it works properly
 - (b) check wether datafile is appropriate
 - (c) check wether the description is appropriate
 - (d) check wether plots\pictures on the website are appropriate
 - (e) to format with the package FormatR
 - i. library(FormatR) ->tidy_source(file='output.R')
 - ii. to check whether all the lines of the code are written properly
 - iii. check that the code still works properly
 - (f) delete unnecessary empty lines (1-2 mostly, max. 4)
 - (g) change all "<-" with "="
 - (h) Align all subsequent assignments by "="
 - (i) Check indentation

Textbook example of perfect Q's

- http://quantnet.wiwi.hu-berlin.de/index.php?p=show&id=3204
- http://quantnet.wiwi.hu-berlin.de/index.php?p=show&id=3164

Styleguide

0.1 Complete and ordered MetaInfo-Header

```
1
   # Name of QuantLet:
3
   # Published in:
   |# -
   # Description:
7
8
   # Keywords:
   # -
10
   # Input:
   # -
11
12
   # Output:
13
14
  # Author:
15
16
  # Submitted:
17
  # Datafile:
18
19
```

0.2 How to use formatR

```
# Cleaning up the source in an R script file "input.R",
1
       Indentation is set
   # to two space characters. Maximum line width is 80
       characters.
3
   # The formatted code is written into a new script file "
      output.R"
4
   tidy_source (source = "input.R", indent = 2, width.cutoff
5
6
   80, file = "output.R")
7
8
   # similar to the previous example, but using the
       clipboard
9
   # instead of an input file
10
   tidy_source(indent = 2, width.cutoff = 80, file = "output
11
       .R")
12
```

```
# when omitting function parameters the defaults indent =
    4 and
# width.cutoff = 80 are being used. For simplicity, we
    recommend these for use on Quantnet.

tidy_source(file = "output.R")
```

0.3 Change all "<-" with "="

```
#BAD
1
2
    foo < -5.0
   | bar \leftarrow function(x)  {
              return x<sup>2</sup>
5
    }
6
7
   #GOOD
   foo = 5.0
   bar = function(x)  {
10
              return x^2
11
```

0.4 Align assignments in subsequent lines by "="

```
1 foo = 5.0
2 foobar = 7.0
3 bar = 8.0
```

0.5 Set four space characters or a single tab per indentation level