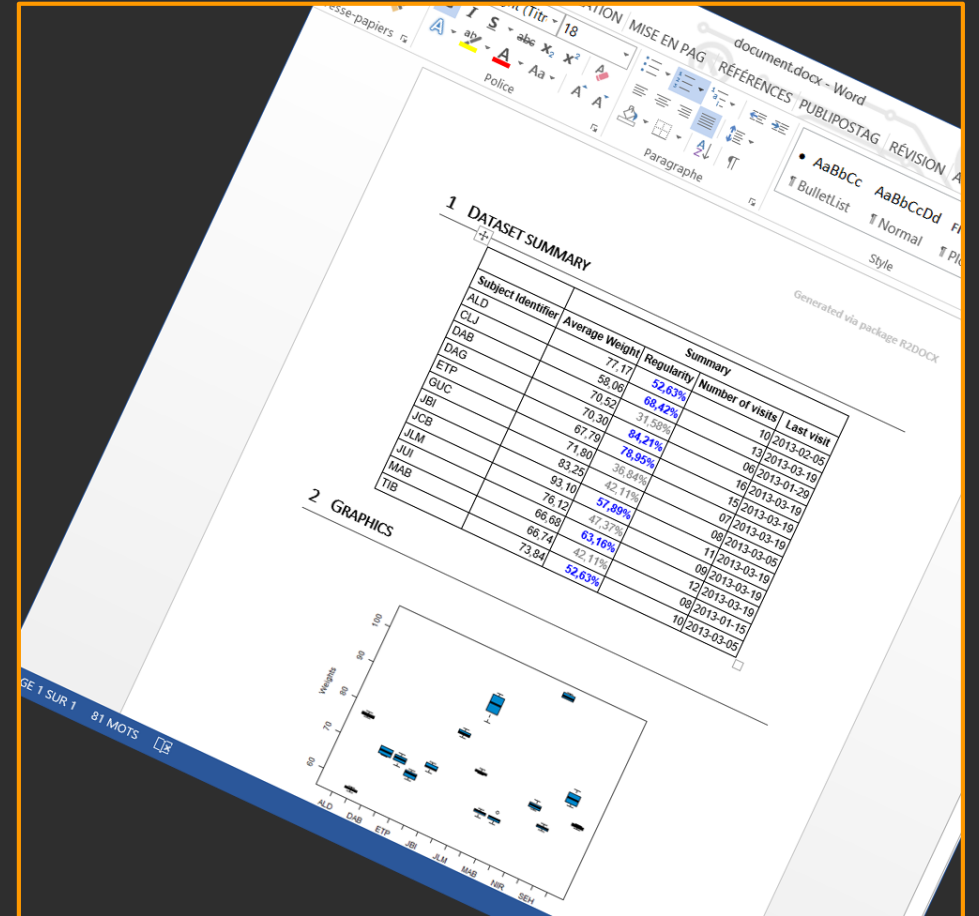
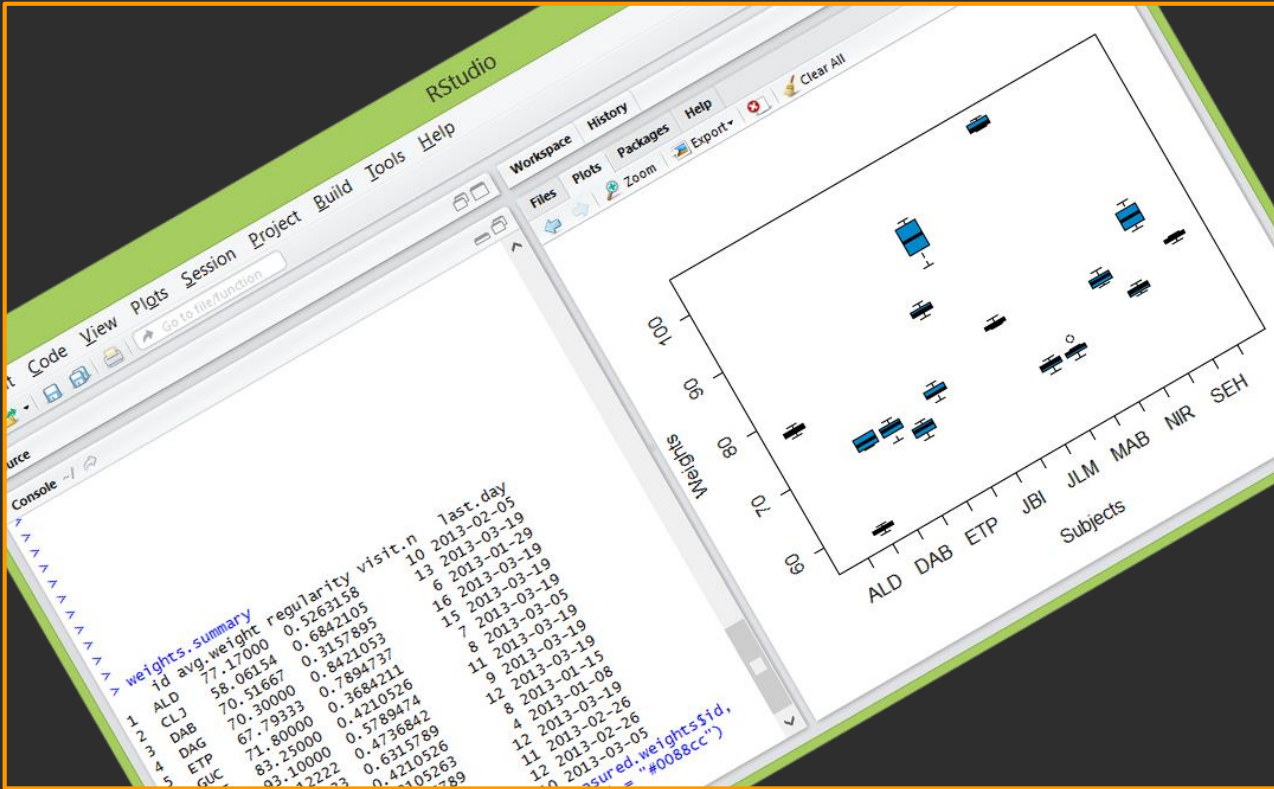


R2DOCX

Présentation du package

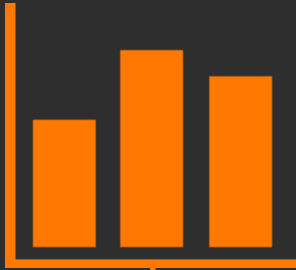
28/06/2013

ENVOYER LES SORTIES R DANS UN DOCUMENT WORD



TYPES DE SORTIES SUPPORTÉES

Graphiques



Tableaux

Textes

**Lorem
ipsum dolor
sit amet,
consectetur**



L'ESSENTIEL

- Supporté sur R > 3.0 (Windows, Linux et Mac)
- Possibilité d'intégrer les modèles créés avec Word
- Pas de dépendance à d'autres logiciels (à part java)

UTILISATION EN BREF

CRÉATION D'UN OBJET DOCX

- `doc = new("Docx", title = "My example")`

AJOUT D'ÉLÉMENTS

- `doc=addHeader(doc, ...)`
- `doc=addTable(doc, ...)`
- `doc=addPlot(doc, ...)`
- `doc=addParagraph(doc, ...)`
- `doc=addPageBreak (doc, ...)`
- `doc=addTOC (doc, ...)`

ÉCRITURE DU FICHIER

- `writeDoc( doc, docx.file )`

EXEMPLE COMMENTÉ

```
# Create a new object
doc = new("Docx", title = "My example" )

doc = addParagraph( doc, value = "My example", stylename = "TitleDoc" )
# add a page break
doc = addPageBreak( doc )

# add a table of content
doc = addHeader(doc, "Table of content", 1);
doc = addTOC(doc)

# add a texts (normal and bullets)
doc = addHeader(doc, "Text demo", 1);
doc = addParagraph( doc, value = "Hello world!", stylename = "Normal" )
doc = addParagraph( doc, value = c( "A", "B", "C", "D" ), stylename = "BulletList" )

# add the first 5 lines of iris dataset
doc = addHeader(doc, "Dataset", 1);
doc = addTable( doc, data = iris[1:5,] )

# add a plot
doc = addHeader(doc, "Graphics", 1);
doc = addPlot( doc, fun = plot, x = rnorm( 10 ), y = runif(10) )

writeDoc( doc, "document.docx" )
```

My example

1 TABLE OF CONTENT

1	Table of content.....	2
2	Text demo.....	2
3	Dataset.....	2
4	Graphics.....	3

2 TEXT DEMO

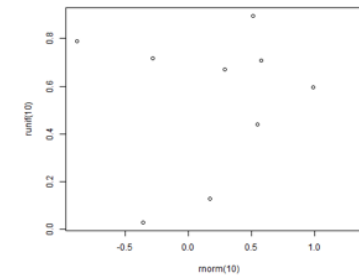
Hello world!

- A
- B
- C
- D

3 DATASET

Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
5.10	0.50	1.40	0.20	setosa
4.90	0.30	1.40	0.20	setosa
4.70	0.20	1.30	0.20	setosa
4.60	0.30	1.50	0.20	setosa
5.00	0.80	1.40	0.20	setosa

4 GRAPHICS



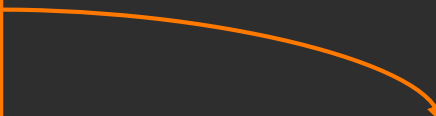
LES TABLEAUX

Grouped headers		Grouped headers	
headers	headers	headers	headers
Span column	content		

ENTÊTES DE COLONNES

```
doc = addTable( doc
  , data = data
  , header.labels = list( "col1" = "Header 1", "col2" = "Header 2"
    , "col3" = "Header 3", "col4" = "Header 4" )
)
```

	col1	col2	col3	col4
1	value 1	1	0.500000	0.1
2	value 1	15	3.141593	0.5
3	value 2	100	1.000000	0.7
4	value 3	1000	0.370000	0.9



Header 1	Header 2	Header 3	Header 4
value 1	01,00	00,50	00,10
value 1	15,00	03,14	00,50
value 2	100,00	01,00	00,70
value 3	1 000,00	00,37	00,90

LES REGROUPEMENTS DE COLONNES

```
doc = addTable(doc, data = data
, ...
, grouped.cols = list( "Grouped Header 1" = c("col1", "col2")
, "Grouped Header 2" = c("col3", "col4") )
)
```

Grouped Header 1		Grouped Header 2	
Header 1	Header 2	Header 3	Header 4
value 1	01,00	00,50	00,10
value 1	15,00	03,14	00,50
value 2	100,00	01,00	00,70
value 3	1 000,00	00,37	00,90

FUSIONNER LES CELLULES IDENTIQUES

```
doc = addTable(doc, data = data
, ...
, span.columns = c("col1")
)
```

Grouped Header 1		Grouped Header 2	
Header 1	Header 2	Header 3	Header 4
value 1	01,00	00,50	00,10
	15,00	03,14	00,50
value 2	100,00	01,00	00,70
value 3	1 000,00	00,37	00,90

FORMATER LES DONNÉES

```
doc = addTable doc, data = data
, ...
, col.types = list("col1" = "character", "col2" = "integer"
, "col3" = "double", "col4" = "percent")
)
```

Grouped Header 1		Grouped Header 2	
Header 1	Header 2	Header 3	Header 4
value 1	01	00,50	10,00%
	15	03,14	50,00%
value 2	100	01,00	70,00%
value 3	1 000	00,37	90,00%

GESTION DU STYLE DU TABLEAU

```
cellProperties = cellProperties( border.width = 15, border.color = "#ff7800" )
header.textProperties = textProperties( font.size = 16, font.weight = "bold"
, font.family = "Pacifico", color = "#ff7800" )
data.textProperties = textProperties( font.size = 10, color = "#ff7800" )
```

```
my.formats = tableProperties(
groupedheader.cell = cellProperties
, groupedheader.text = header.textProperties
, header.cell = cellProperties
, header.text = header.textProperties
, data.cell = cellProperties
, data.text = data.textProperties
)
```

```
doc = addTable( doc, data = data
, ...
, formats = my.formats
)
```

Grouped Header 1		Grouped Header 2	
Header 1	Header 2	Header 3	Header 4
value 1	01	00,50	10,00%
value 2	15	03,14	50,00%
value 3	100	01,00	70,00%
value 4	1 000	00,37	90,00%

COLORIAGE CONDITIONNEL DU CONTENU

```
doc = addTable( doc, data = data, ...  
, col.colors = list( "col1" = ifelse( data$col1=="value 1" , "#9200ff", "white") )  
)
```

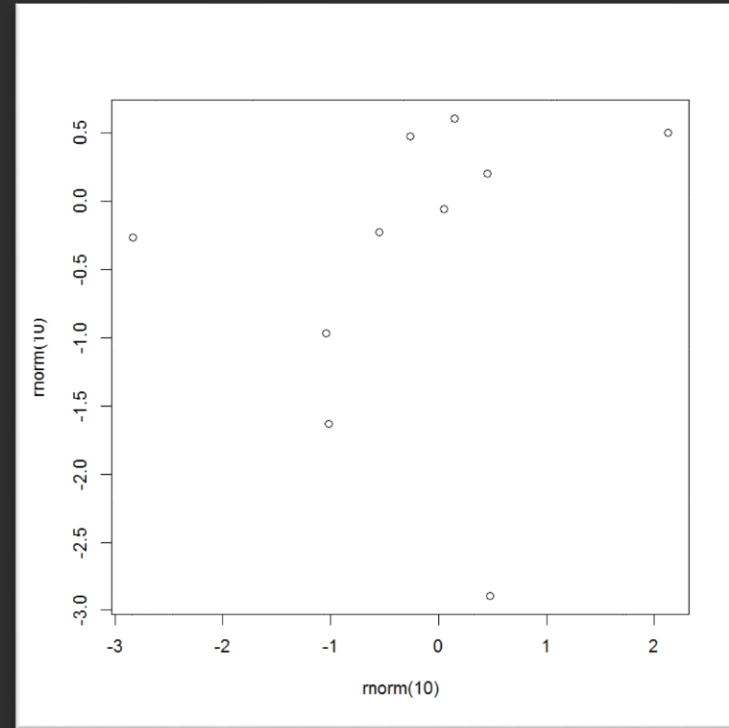
```
data$col1=="value 1" , "#9200ff", "white") )
```

LES GRAPHIQUES

GRAPHIQUES TRADITIONNELS

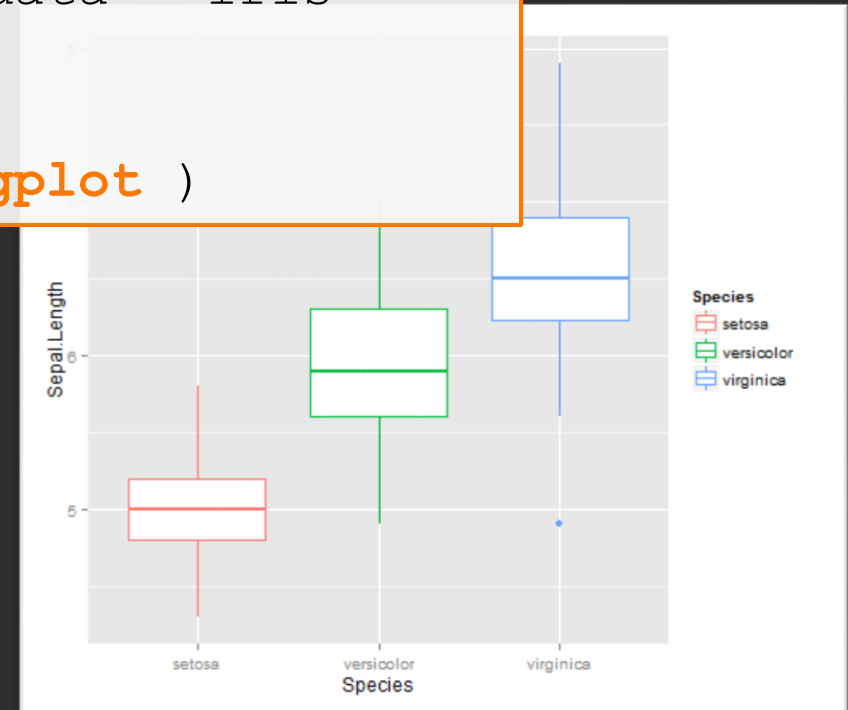
```
doc = addPlot( doc, fun = plot  
, x = rnorm( 10 ), y = rnorm (10 )  
)
```

```
doc = addPlot( doc  
, fun = function(){  
    plot(x = rnorm( 10 ), y = rnorm (10 ) )  
} )
```



GRAPHIQUES GGPLOT2 ET LATTICE

```
my.ggplot = qplot(Species, Sepal.Length, data = iris  
, geom = "boxplot"  
, color = Species)  
doc = addPlot( doc, fun = print, x = my.ggplot )
```



TEXTES

REEMPLACEMENT DE TEXTES



Generated via package

Auteurs	John·Doe	
Date de création	Thu·Jun·27·09:52:29·2013	
<u>Destinataires</u>	John·Lennon Jack·Sparrow	

```
doc = replaceText( doc, pattern = "AUTEURRAPPORT", replacement = "John Doe" )
doc = replaceText( doc, pattern = "DATECREATION", replacement = date() )
doc = replaceText( doc, pattern = "DESTINATAIRESRAPPORT", replacement = "John
Lennon\nJack Sparrow" )
```

AJOUT DE TEXTES

```
doc = addHeader(doc, "Titre exemple", 1);  
doc = addParagraph( doc, value = "Bonjour Monde", stylename = "Normal" )  
texts = c( "Point 1", "Point 2", "Point 3")  
doc = addParagraph( doc, value = texts, stylename = "BulletList" )
```

▪ 1 → TITRE-EXEMPLE ¶

Bonjour-Monde ¶

• → Point-1 ¶

• → Point-2 ¶

• → Point-3 ¶

PROJETS

- Graphiques éditables
- Sections, orientations, etc.
- R2PPTX

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