

ooRexx: Nutshell Examples for MS Word

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- Allgemein
- Basis Anwendungen
- Spezielle Anwendungen
- Conclusio



Allgemein

Allgemein

- **Rexx**
 - “REstructured eXtended eXecutor“
 - 1979
 - von Mike Cowlishaw (IBM)
 - Nützliche Features
 - Befehle basierend auf Englisch
 - Weniger Regeln
- **Open Object Rexx**
 - Open-source Version von Object Rexx
 - Veröffentlicht durch RexxLa
 - Neue Features:
 - Objekt-orientiert
 - Einfache Anwendung
 - Nutzung verschiedener Umgebungen
 - Weiterhin Nutzung von Rexx Programmen möglich
 - ooRexx 5.0
 - Leichteres Handling von Arrays & Metadaten



Basis Anwendungen

MS Word öffnen & einen Text hinzufügen

OleObject = Proxy-Klasse
→ Ermöglicht Interaktion mit
Windows-COM/OLE-
Programmen

```
1  /*open MS Word*/
2  word= .oleobject~new("Word.Application")
3  word~visible=.true
4  word~width=.true
5  word~height=.true
6
7  /*create new document*/
8  NewDocument= word~Documents~add
9
10 /*create text*/
11 SelectionObj=Word~Selection
12 SelectionObj~TypeText("This is an arbitrary text")
13
```

A^ A^ Aa A AaBbCcDc AaBbCcDc AaBbCc AaBbC

x² A A A A Normal No Spac... Heading 1 Heading

Paragraph Styles

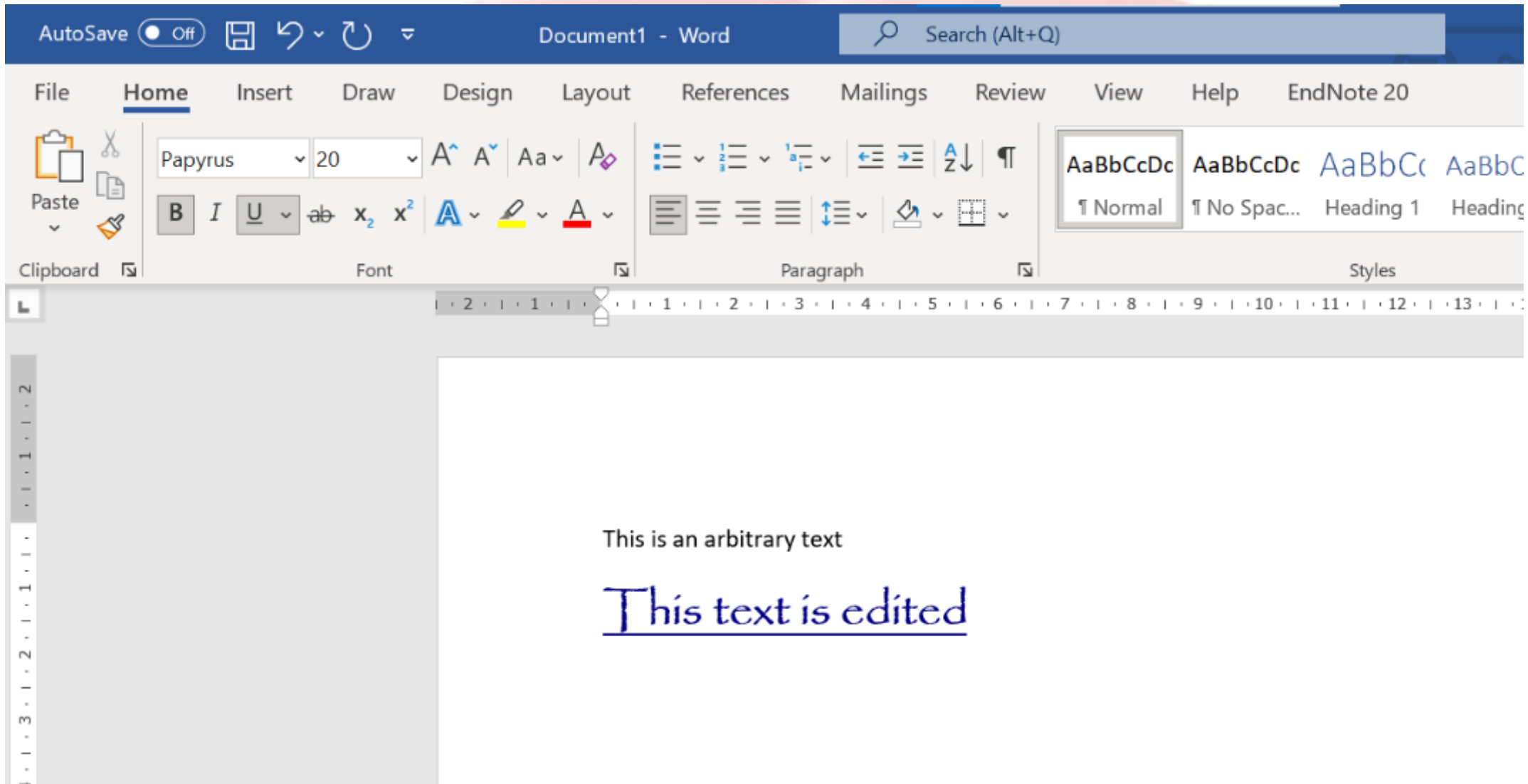


This is an arbitrary text

MS Word öffnen & einen Text hinzufügen

OleObject = Proxy-Klasse
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```
1  /*open MS Word*/
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3  word~visible=.true
4  word~width=.true
5  word~height=.true
6
7  /*create new document*/
8  NewDocument= word~Documents~add
9
10 /*create text*/
11 SelectionObj=Word~Selection
12 SelectionObj~TypeText("This is an arbitrary text")
13
14 SelectionObj~TypeParagraph
15
16 /*edit text*/
17 EditText=SelectionObj~Font
18 EditText~Name="Papyrus"
19 EditText~size="20"
20 EditText~bold=.true
21 EditText~underline=.true
22 EditText~colorindex= 9
23 SelectionObj~TypeText("This text is edited")
```

Überschriften erstellen

```
1 word=.oleobject~New("Word.Application")
2 word~visible=.true
3
4 NewDocument=word~Documents~add
5
6 /*Get style of the title*/
7 SelectionObj=word~selection
8 SelectionObj~Style="Title"
9 SelectionObj~TypeText("This is a Title")
10 SelectionObj~TypeParagraph
11
12 /*Get style of the first heading*/
13 SelectionObj~Style="Heading 1"
14 SelectionObj~TypeText("This is the first Heading")
15
```


Überschriften erstellen

```
16  /*Adapt each style*/
17  /*count the sentences*/
18  CountSentences=newDocument~Sentences~Count
19  Font=SelectionObj~Font
20  do SentenceNumber= 1 to CountSentences
21
22  /*change each style*/
23  newDocument~Sentences(SentenceNumber)~Select
24  StyleName=SelectionObj~Style~NameLocal
25  Select case StyleName
26    when "Title" then do
27      Font~Name="Bahnschrift"
28      Font~Size="30"
29      Font~Colorindex= "10"
30      Font~bold=.true
31      Font~underline=.true
32    end
33    when "Heading 1" then do
34      Font~Name="caladea"
35      Font~Size="20"
36      Font~italic=.true
37    end
38    otherwise NOP
39  end
40 end
```

File Home Insert Draw Design Layout References Mailings Review View Help EndNote 20

Comments Share

Clipboard Paste

Caladea 20 A A Aa A

B I U x x² A

Font Paragraph

AaBbCcDc AaBbCcDc AaBbCc AaBbCc AaB

¶ Normal ¶ No Spac... Heading 1 Heading 2 Title

Styles

Find Replace Select Dictate Editor Reuse Files

Editing Voice Editor Reuse Files

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

1 2 3 4 5 6 7 8 9 10

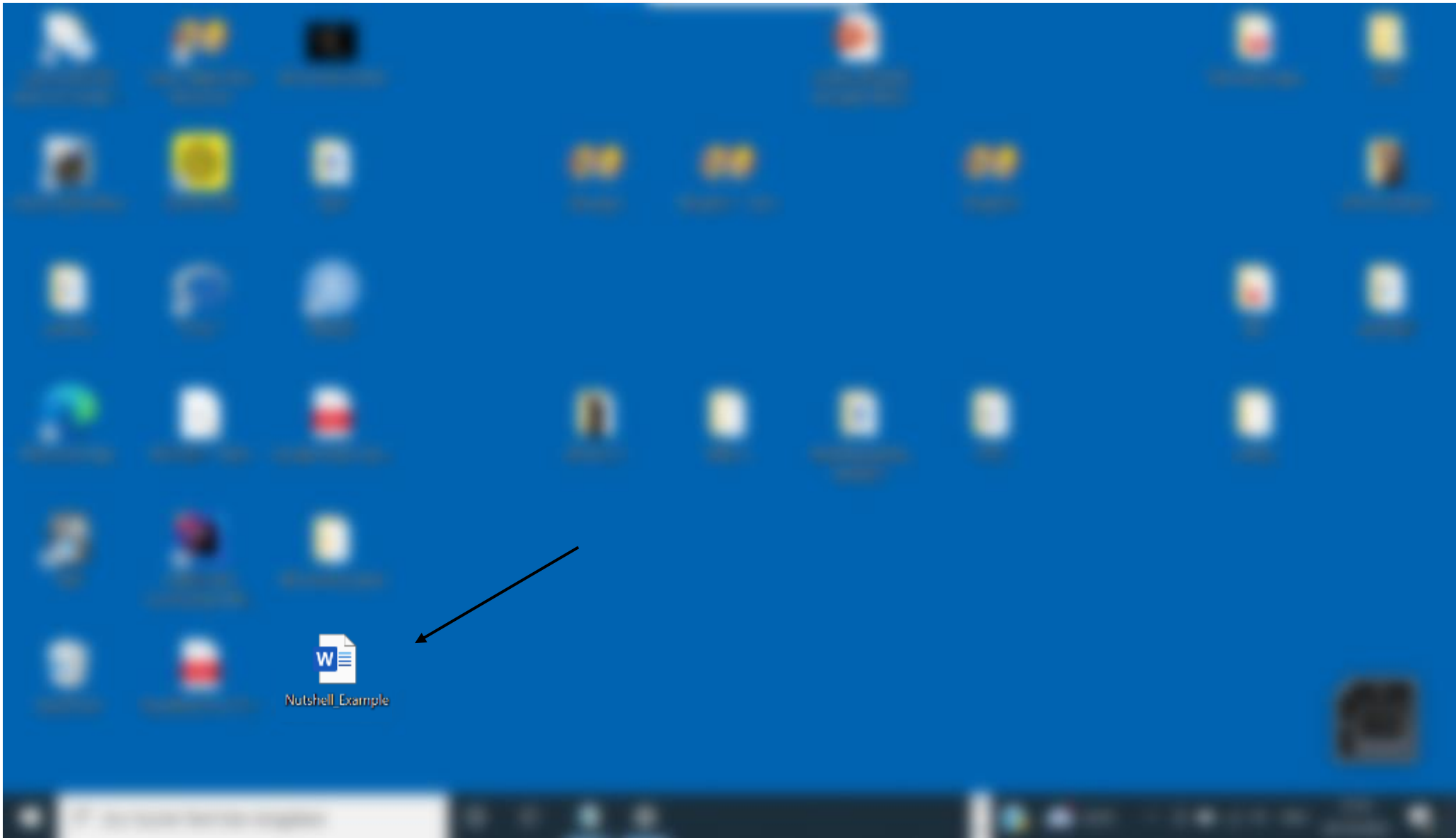
This is a Title

This is the first Heading/

Page 1 of 1 9 words English (United Kingdom) Accessibility: Good to go Focus 90%

Dokument speichern

```
1 /*Choose location to save document*/
2 Dir = Value("UserProfile",, ENVIRONMENT)
3 FileName= Dir || "\Desktop\" || "Nutshell_Example"
4
5 /*save document*/
6 NewDocument~SaveAs(FileName)
7 Word~Quit
8
```



Dokument öffnen

```
1 /*open MS Word*/
2 word=.oleobject~new("Word.Application")
3 word~visible=.true
4
5 /*reopen a document*/
6 Dir= Value("UserProfile",,ENVIRONMENT)
7 FileName= Dir || "\Desktop\" || "Nutshell_Example.docx"
8 OldDocument=word~Documents
9 OldDocument~Open(FileName)
10
```


AutoSave Off



Nutshell_Example • Saved to this PC



Search (Alt+C)

File

Home

Insert

Draw

Design

Layout

References

Mailings

Review



Paste



Clipboard

Calibri (Body)

11

A[^]

A^v

Aa

A

B

I

U

~~ab~~

x₂

x²

A



2

1

1

2

3

2

1

1

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4

5

6

7

This is how you save a document

Druck- vorschau öffnen



ActiveDocument




→ volle Kontrolle






→ Interface der


Anwendung nutzbar &
editierbar

```
7   NewDocument=word~Documents~add
8
9   ActiveDocument = Word~ActiveDocument
10  ActiveDocument~PrintPreview
11  ActiveWindow = Word~ActiveWindow
12  ActiveWindow~ActivePane~View~Zoom~Percentage = "100"
13  Call SysSleep 2
14  ActiveDocument~ClosePrintPreview
```

 
Print Preview Options
and Print
Print

  
Margins Orientation Size
Page Setup

    
Zoom 100% One Page Multiple Pages Page Width
Zoom

Show Ruler
 Magnifier
 Shrink One Page
Next Page
Previous Page
Preview


Close Print
Preview

Horizontal ruler: 2 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 17 18

Vertical ruler: 1 2 3 4 5

Blank page content area



Spezielle Anwendungen

Tabelle erstellen

```
1 word=.oleobject~new("Word.Application")
2 word~visible=.true
3 NewDocument=Word~Documents~Add
4
5 SelectionObj=word~Selection
6 /*get an active document object */
7 ActiveDoc= word~ActiveDocument
8 /*create a table*/
9 ActiveDoc~Tables~Add(SelectionObj~Range,4,3)
```

Tabelle erstellen - 3 Optionen

```
11  /* fill in table*/
12  /* first option*/
13  SelectionObj~Tables(1)
14  SelectionObj~TypeText("Year")
15  SelectionObj~MoveRight
16  SelectionObj~TypeText("First Semester")
17  SelectionObj~MoveRight
18  SelectionObj~TypeText("Second Semester")
19
20  SelectionObj~MoveRight
21
22  /*second option*/
23  do i=2020 to 2022
24      SelectionObj~TypeText(i)
25      SelectionObj~MoveRight
26      do 2
27          SelectionObj~TypeText(random(30))
28          SelectionObj~MoveRight
29      end
30  end
31
32  /* third option*/
33  ActiveTable=ActiveDoc~Tables(1)
34  ActiveTable~Cell(1,1)~Range~Text="YEAR"
35
```

Microsoft Word ribbon showing the 'Table Design' tab. The ribbon includes sections for Paragraph and Styles. The Styles section shows a list of styles: Normal, No Spacing, Heading 1, Heading 2, and Title. The 'Normal' style is selected. Below the ribbon, a table is displayed with the following data:

YEAR	First Semester	Second Semester
2020	22	26
2021	4	4
2022	15	19

Tabelle bearbeiten

```
35  /*edit borders*/
36  ActiveTable=ActiveDoc~Tables(1)
37  ActiveTable~Borders~InsideLineStyle=.true
38  ActiveTable~Borders~OutsideLineStyle=.true
39
40  /*change background color*/
41  EditTable=SelectionObj~Tables(1)
42  EditTable~Shading~BackgroundPatternColorIndex="10"
43
44  /*change background color of cell*/
45  do i=1 to 4
46      EditTable~Cell(i,1)~Shading~BackgroundPatternColorIndex="8"
47  end
48
49  /*adapt space between cells*/
50  ActiveTable~Spacing="5"
```


Tabelle bearbeiten

```
52  /*change font size and style*/
53  do i=1 to 3
54  ActiveTable~Cell(1,i)~Range~Font~Size="16"
55  ActiveTable~Cell(1,i)~Range~Font~Name="Arial Bold"
56  end
57
58  /*change font color*/
59  do i=2 to 3
60      do n=1 to 4
61          ActiveTable~Cell(n,i)~Range~Font~Colorindex="8"
62      end
63  end
```

esign Layout References Mailings Review View Help EndNote 20 Table Design Layout

A Aa A

¶

¶

Paragraph Styles

AaBbCcDc AaBbCcDc AaBbCc AaBbCc AaB

Normal No Spac... Heading 1 Heading 2 Title

Find Replace Select Edit

2 1 1 1 2 3 4 6 7 8 9 10 11 12 13 14 15 16 17 18



YEAR	First Semester	Second Semester
2020	0	29
2021	24	25
2022	9	17



Bild einfügen

```
1 word= .oleobject~new("Word.Application")
2 word~visible=.true
3
4 NewDocument= word~Documents~add
5
6
7 Dir= Value("UserProfile",,ENVIRONMENT)
8 FileName= Dir || "\Pictures\" || "WU_Logo.png"
9
10 /*Add picture*/
11 ActiveDoc= word~ActiveDocument
12 ActiveDoc~InlineShapes~AddPicture(FileName)
```

Font Paragraph Styles Editing

Find Replace Select

A^ A^ Aa A

AaBbCcDc AaBbCcDc AaBbCc AaBbCc AaB

Normal No Spac... Heading 1 Heading 2 Title

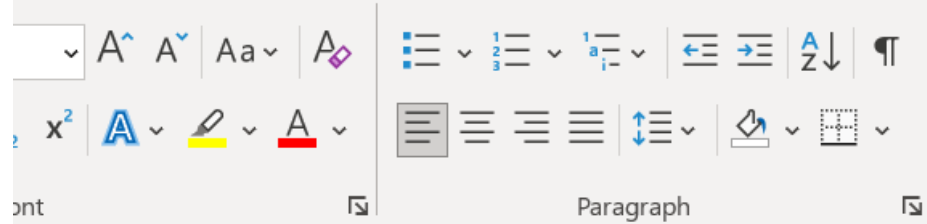


WU
WIRTSCHAFTS
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WIEN VIENNA
UNIVERSITY OF
ECONOMICS
AND BUSINESS

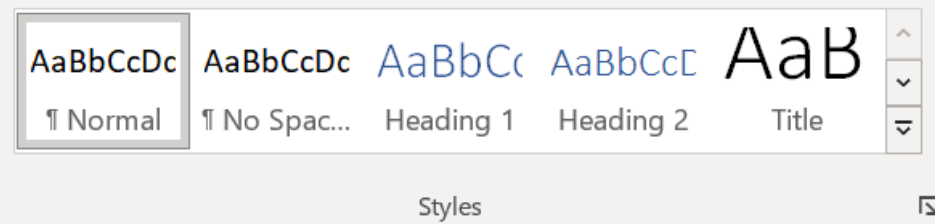
Bild einfügen

```
15  /*Crop the picture*/  
16  ActivePic=ActiveDoc~InlineShapes(1)~PictureFormat  
17  ActivePic~CropBottom=10  
18  ActivePic~CropLeft=150  
19  ActivePic~CropRight=0.5  
20  ActivePic~CropTop=40
```

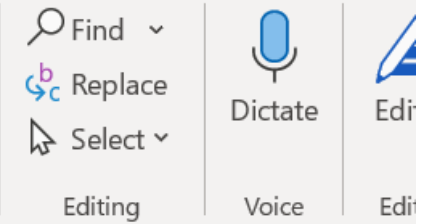
Font Paragraph

The image shows the Font and Paragraph toolbars in Microsoft Word. The Font toolbar includes options for font face, size, bold, italic, underline, text color, and background color. The Paragraph toolbar includes options for bullet points, numbered lists, decrease/increase indent, left/right align, center, justify, and line spacing.

Styles

The image shows the Styles gallery in Microsoft Word. It displays several styles: Normal (selected), No Spacing, Heading 1, Heading 2, and Title. Each style is represented by a small preview of the text and a corresponding icon.

Editing Voice Editing

The image shows the Editing and Voice toolbars in Microsoft Word. The Editing toolbar includes Find, Replace, and Select options. The Voice toolbar includes Dictate and Edit options.

**WIRTSCHAFTS
UNIVERSITÄT
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UNIVERSITY OF
ECONOMICS**

Text einer Webseite einfügen

L Listly

Find a list on...



working...

MAKE A



Kraków (Polish pronunciation: [krakuf] [listen](#)), also spelled Krakow or Cracow (English pronunciation: /'krækəʊ/ [listen](#)), is the 2nd largest and one of the oldest cities in Poland and a popular tourist destination. Its historic center was inscribed on the list of World Heritage Sites as the first of its kind.

Text einer Webseite einfügen

Curl

= Client URL

→ Ermöglicht Zugang zu
Internetressourcen

```
1  /*using curl*/
2  url="https://list.ly/list/m-best-european-cities-to-visit/"
3  command= "curl" url
4  outArr=.array~new
5  errArr=.array~new
6  ADDRESS SYSTEM command WITH OUTPUT USING (outArr) ERROR USING (errArr)
7  html=outArr~makeString
8  /*get content*/
9  PARSE VAR html '<h2 class="ly-item-title" title="Krakow">' . '<div
class="item_note wbreak ly-markdown"><p>' content '</p>'
10
11 /*open MS Word*/
12 word= .oleobject~new("Word.Application")
13 word~visible=.true
14 NewDocument=word~Documents~add
15 /*insert content in MS Word*/
16 SelectionObj=word~Selection
17 SelectionObj~TypeText(content)
```


Design Layout References Mailings Review View Help EndNote 20

A Aa A

¶

¶

Paragraph

AaBbCcDc AaBbCcDc AaBbCc AaBbCc AaB

¶ Normal ¶ No Spac... Heading 1 Heading 2 Title

Find Replace Select

Editing



Kraków (Polish pronunciation: [\[krakuf\] listen](#)), also spelled Krakow or Cracow (English pronunciation: [/ˈkrɑːkə/ listen](#)), is the 2nd largest and one of the oldest cities in Poland and a popular tourist destination. Its historic [center](#) was inscribed on the list of World Heritage Sites as the first of its kind.

BSF4ooRexx

=externes Funktionspaket

= „Bean Scripting

Framework for ooRexx“

→ OpenOffice.org

→ Keine strikt-typisierte
Interaktion mit Java

Text codieren

BSF.CLS

=Nutzung von Java über
ooRexx

„BSF4ooRexx“ notwendig

```
11  /*open MS Word*/
12  word= .oleobject~new("Word.Application")
13  word~visible=.true
14  NewDocument=word~Documents~add
15
16  say "textEncoding:" newDocument~textEncoding
17
18  /*insert content in MS Word*/
19  SelectionObj=word~Selection
20  newcontent=bsf.iconv(content, "utf-8","cp1252")
21  SelectionObj~TypeText(newcontent)
22
23  parse pull
24
25  ::requires "BSF.CLS"
```

Design Layout References Mailings Review View Help EndNote 20

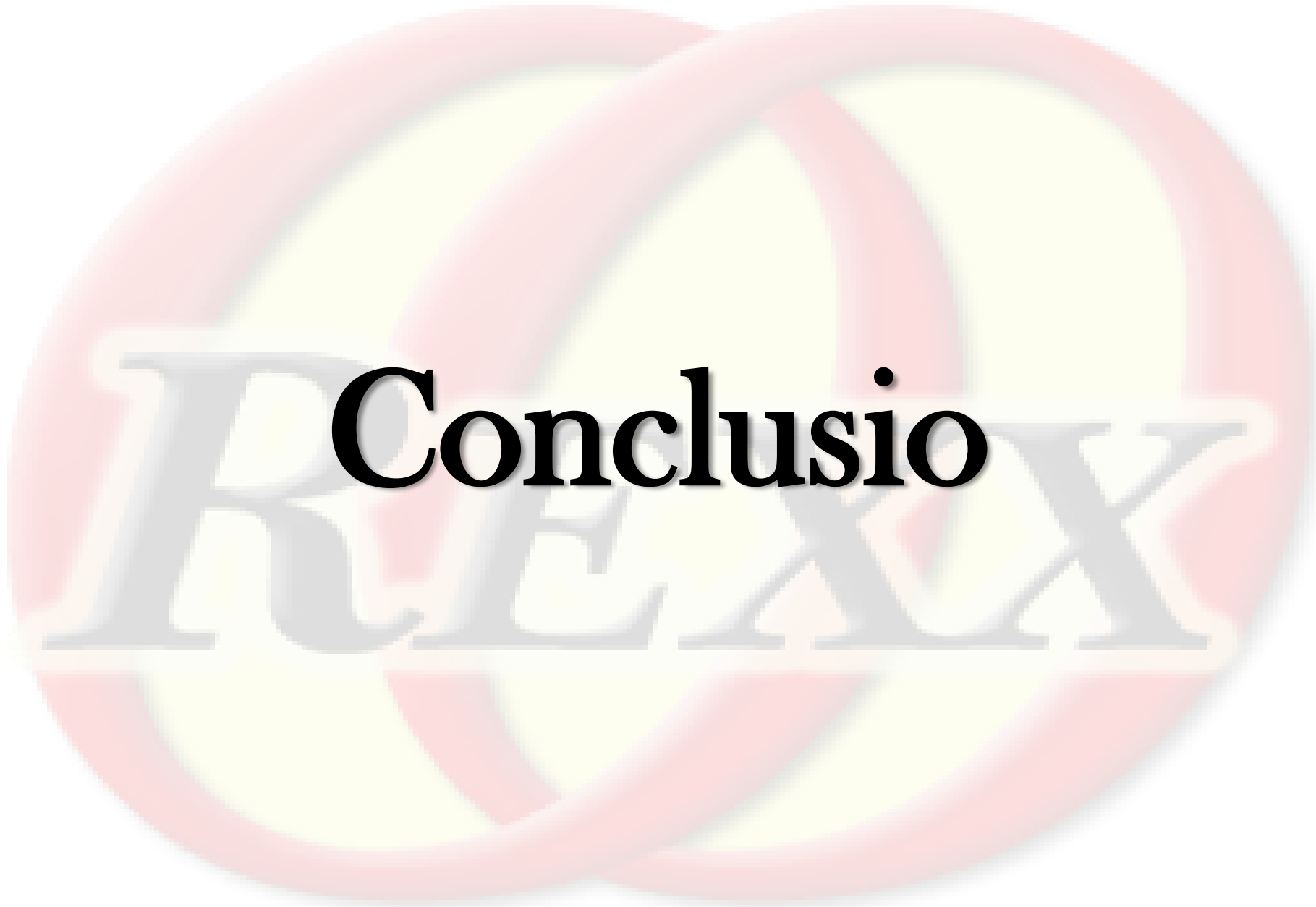
A[^] A^v Aa A A

A A A A

Paragraph Styles

Find Replace Select Edit

Kraków (Polish pronunciation: [\[krakuf\] listen](#)), also spelled Krakow or Cracow (English pronunciation: [/?kræka?/ listen](#)), is the 2nd largest and one of the oldest cities in Poland and a popular tourist destination. Its historic [center](#) was inscribed on the list of World Heritage Sites as the first of its kind.



Conclusio

REXX



**Vielen Dank für Ihre
Aufmerksamkeit**