

Breaking News into your Mailbox

Tiroler Tageszeitung

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Ablauf

1. Demonstration
2. Code Beschreibung
3. Probleme und Herausforderungen

Navigate Internet Explorer to News Site

```
myIE = .OLEObject~NEW("InternetExplorer.Application")
myIE~Navigate("https://www.tt.com/newsticker")
doc = myIE~document
body = doc~body
textrange = body~CreateTextRange
text = textrange~text
PARSE VAR text . "Alle Artikel der letzten 24 Stunden"
news
if news == "" THEN DO
  SAY "ERROR READING NEWS" EXIT
END
```

1. Create an Object for IE
2. Navigate to Tiroler Tageszeitung
3. Load DOM-Document
4. Get Body, TextRange and text
5. Auf Fehler überprüfen

Save News

```
/*Save news*/
```

```
mystream = .stream~NEW(path || file.txt)
```

```
mystream~open("both replace")
```

```
mystream~lineout(news)
```

```
mystream~close
```

```
myIE~quit
```

Abspeichern der News in einem .txt File, welches anschließend in ein PDF konvertiert werden soll.

1. Create a new Stream Object
2. Open for read, write and replace
3. Write via lineout
4. Close textstream
5. Close your Internet Explorer!

Create PDF (1/2)

```
SAY "Creating PDF"
pdfcreator = .OLEObject~New("PDFCreator.JobQueue")
pdfjob = .OLEObject~New("PDFCreator.PDFCreatorObj")
pdfcreator~initialize

pdfjob~PrintFile(path || file.txt)

/* 10 second timeout */
IF \pdfcreator~waitforjob(10) THEN
DO
    SAY "Timeout"
END
```

We used the PDF Creator Documentation.

1. Create the JobQueue (for queueing) and the PDFCreatorObj (for printing).
2. Call initialize to be able to use the COM objects.
3. Where to store the file.
4. Call WaitForJob(int timeOut) if you are waiting for one print job to get in the queue. The parameter timeOut specifies the maximum time in seconds the queue waits for the print job to arrive.

Create PDF (2/2)

```
myjob = pdfcreator~nextjob  
myjob~SetProfileSetting("OpenViewer", False)  
myjob~Convertto(path || news.pdf)
```

```
SAY "Saved at" path  
pdfcreator~releaseCom
```

1. next job to get the next job in the queue and avoid NULL.
2. Disable to automatically open the default PDF viewer after converting the document.
3. Convertto: Starts the actual conversion and saves the converted file to the location specified by path.
4. Don't forget to release the COM object, otherwise no other PDFCreator instances would work!

Send attached Email

```
mail_object = .OLEObject~New("Outlook.Application")
id = mail_object~getConstant(olMailItem)
email = mail_object~createItem(id)
email~save
/* Attach pdf to email */
attachment = email~Attachments
attachment~add("C:\Users\Administrator\Desktop\Projekt\news.pdf")
email~body = "Hier sind Deine Breaking News"
email~recipients~add("[john.westphal@gmx.net]")
email~subject = "Aktuelle News vom " DATE()
email~save
email~send
```

1. Create an Object for Outlook
2. Create a mail_object
3. Add an attachment to the email
4. Add recipient
5. Add Subject and Message of the email

Probleme und Herausforderungen

- Gruppe besteht aus zwei Mac-Usern...
- Kein Outlook auf Uni-Computern vorinstalliert
- Programm aus mehreren Schnittstellen fehleranfällig
- Formatierungsschwierigkeiten beim Download der News
- PDF Creator
 - Probleme in der Dokumentation die richtigen Funktionen zu finden
 - Schwierigkeiten bei der Implementierung, da kaum Hilfe für ooRexx