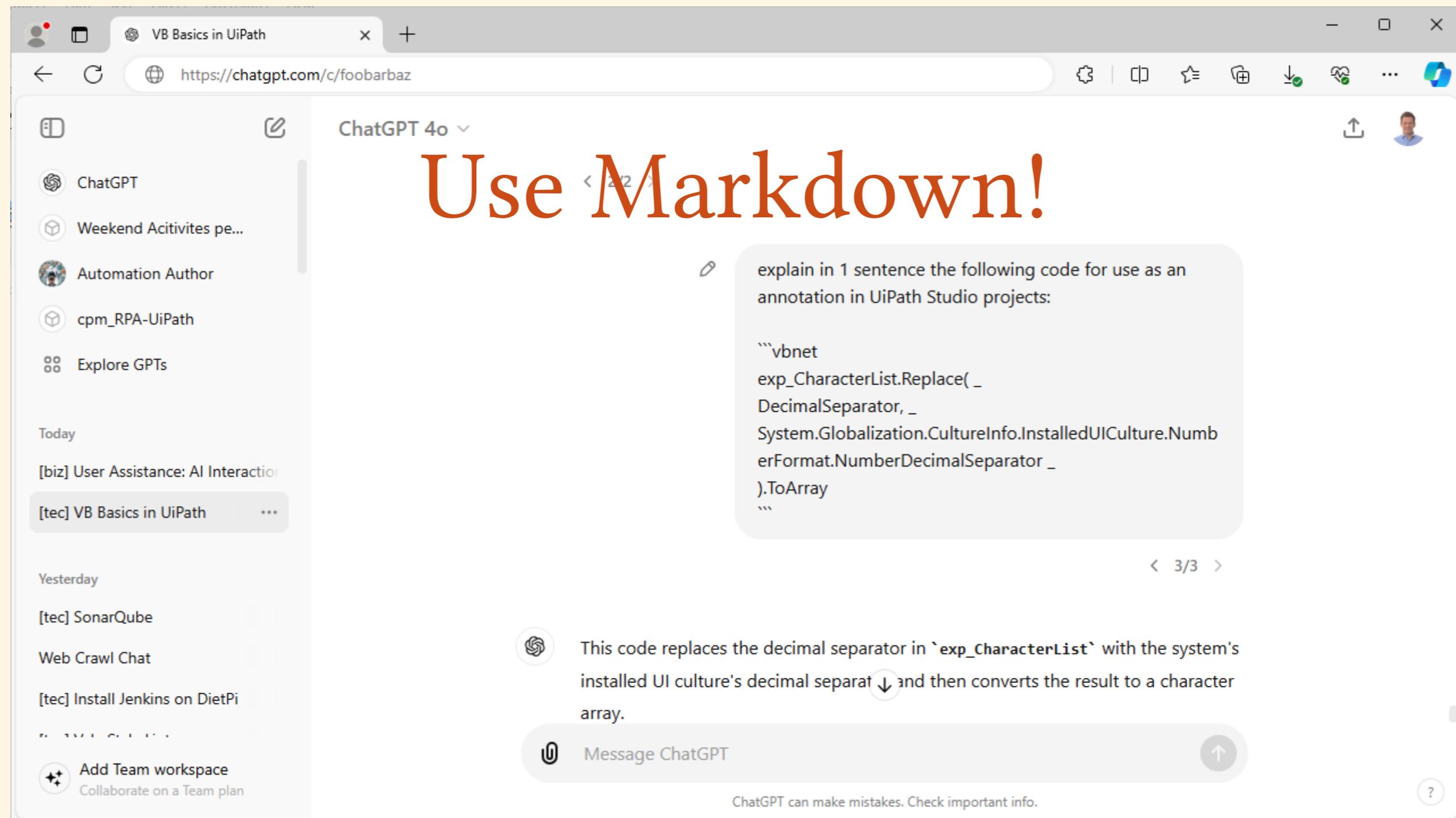


# Hands-On GenAI for RPA with UiPath

## The Importance of Terminology: Writing with Textbook Precision

# Hands-On GenAI for RPA with UiPath



#1

# Hands-On GenAI for RPA with UiPath

In UiPath Studio  
- after I fetched a mailmessage object  
- how do I join all attachment \*\*filenames\*\* of a mailmessage into a concatenated string?  
Generate code for use with Assign | InvokeCode activity

To join all attachment filenames of a `MailMessage` object into a concatenated string, you can use either an `Assign` activity with a LINQ expression or an `Invoke Code` activity. Here are both methods:

**Using an Assign Activity with LINQ**

1. Create Variables: (...)
2. Assign Activity:
  - To: `joinedFilenames`
  - Value:

```
vbnet
Copy code
String.Join(", ", mailMessage.Attachments.Cast(Of System.Net.Mail.Attachment)().Se
```

**Using an Invoke Code Activity**

1. Create Variables: (...)
2. Invoke Code Activity:
  - Code:

```
vbnet
Imports System.Linq
Imports System.Net.Mail

' Initialize the joinedFilenames variable
joinedFilenames = String.Join(", ", mailMessage.Attachments.Cast(Of Attachment)().Se
```

(...)

Message ChatGPT

ChatGPT can make mistakes. Check important info.

**Quotation Marks (" "):**  
Use these to specify exact phrases or words.

**Brackets ([ ]):**  
Use these to include optional information or clarifications.

**Parentheses ( ):**  
Use these for additional details or notes.

**Braces ({}):**  
Use these to group related information or commands.

**Pipes (|):**  
Use these to separate multiple options or items.

#2

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The screenshot shows a ChatGPT interface on the left and a UiPath Expression Editor window on the right.

**ChatGPT Session:**

- Message 1: In UiPath Studio projects, how do I
  - use in the activity `LogMessage`
  - an VB.net expression to log out the contents of a dictionary of String, Object?
- Message 2: Just give me the expression. Keep prose to minimum.
- Message 3: (Code block)

```
String.Join(", ", myDictionary.Select(Function(kvp) kvp.Key & " " & kvp.Value.ToString())).ToString()
```

Make it expression recursive:
  - the dictionary might contain another nested dictionary
  - so if a type dictionary is detected
  - then also string-join it
- Message 4: Just give me the expression as a oneliner for use in the activity `LogMessage`. Keep prose to minimum.
- Message 5: Return an expression. Do not return a function.

**UiPath Expression Editor:**

Assign > Set value (InArgument)

Use Variables ▾

```
String.Join("", TransactionItem.SpecificContent.Values)
```

Generate an expression to String.Join the TranscationItem.SpecificContent

Save Cancel

Assign > Set value (InArgument)

Use Variables ▾

```
String.Join("", TransactionItem.SpecificContent.SelectMany(Function(kv) If(TypeOf kv.Value Is Dictionary(Of String, Obj
```

Generate an expression to \*\*recursively\*\* String.Join the TranscationItem.SpecificContent

Save Cancel

#3

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