

# Hands-On GenAI for RPA with UiPath



The Expert's choice in 2024:  
General vs. Vendor?

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?  
Just give me the expression. Keep prose to minimum.

String.Join(", ", myDictionary.Select(Function(kvp) kvp.Key & " " & kvp.Value.ToString())).  
Make it expression recursive:  
- the dictionary might contain another nested dictionary  
- so if a type dictionary is detected  
- then also string-join it  
Just give me the expression as a oneliner for use in the activity `LogMessage`. Keep prose to minimum.  
Return an expression. Do not return a function.

vb  
String.Join(", ", myDictionary.Select(Function(kvp) If(TypeOf kvp.Value Is Dictionary(Of String, Object)) Then String.Join(", ", kvp.Value) Else kvp.Key & " " & kvp.Value.ToString())).

Assign > Set value (InArgument)  
Use Variables  
String.Join(", ", TransactionItem.SpecificContent.Values)

Generate an expression to String.Join the TranscationItem.SpecificContent

Save Cancel

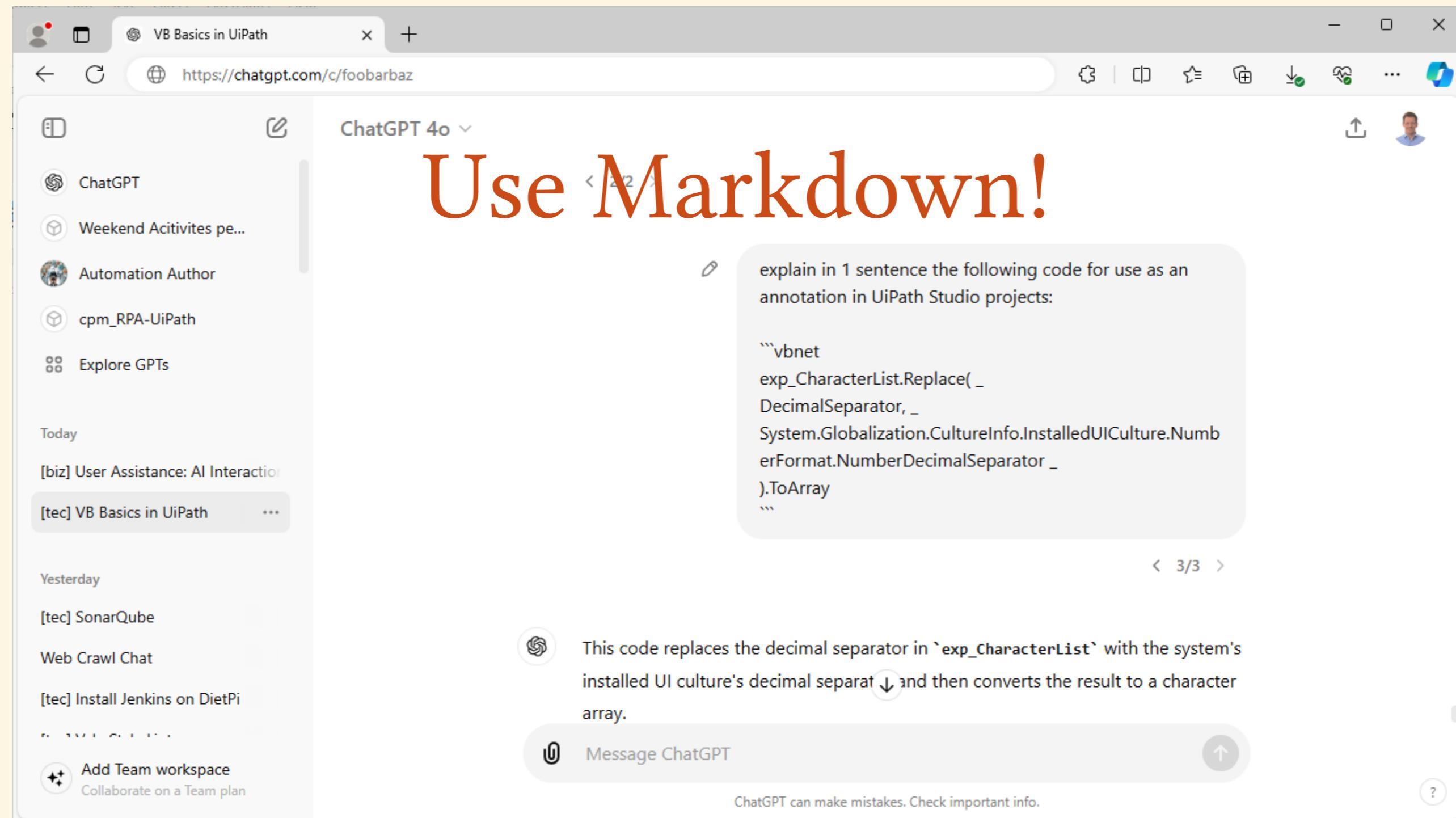
Assign > Set value (InArgument)  
Use Variables  
String.Join(", ", TransactionItem.SpecificContent.SelectMany(Function(kv) If(TypeOf kv.Value Is Dictionary(Of String, Object)) Then String.Join(", ", kv.Value) Else kv.Key & " " & kv.Value.ToString())).

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

Save Cancel

#3

# Hands-On GenAI for RPA with UiPath



# 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

# Hands-On GenAI for RPA with UiPath



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: **The Expert's choice in 2024: General vs. Vendor?**
- 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