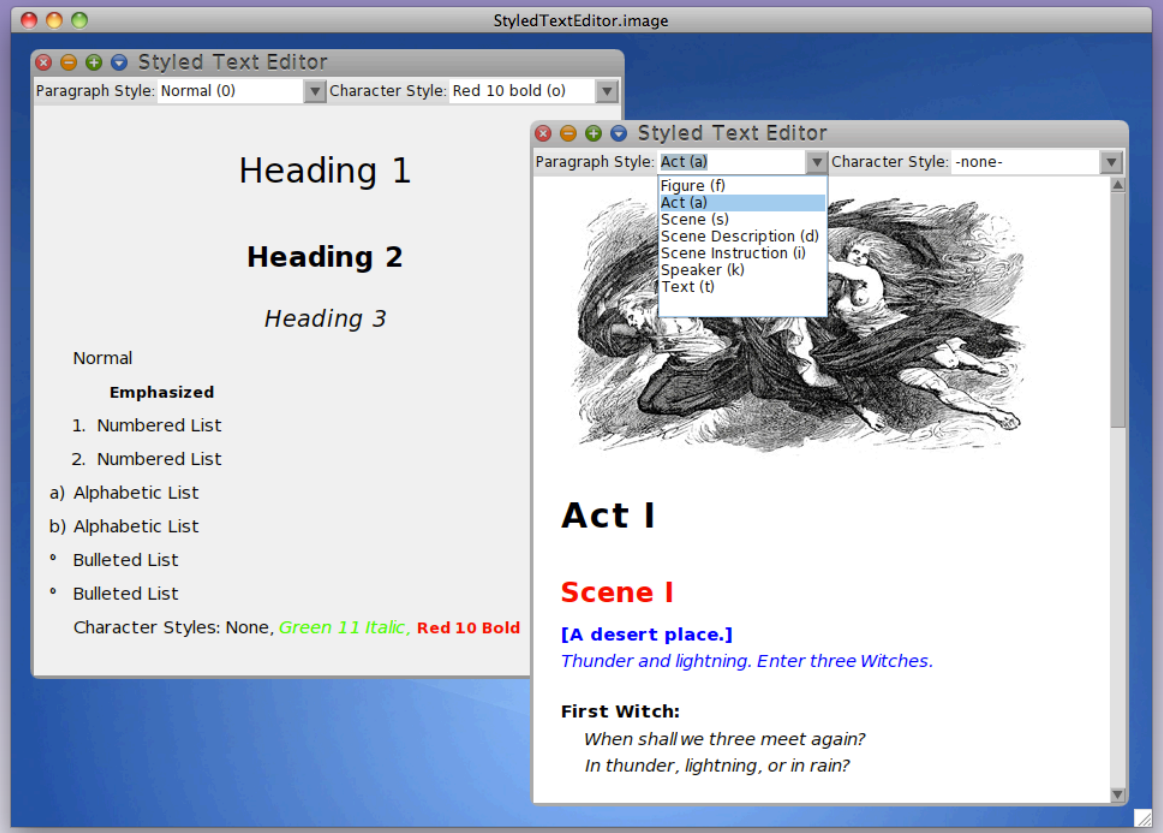
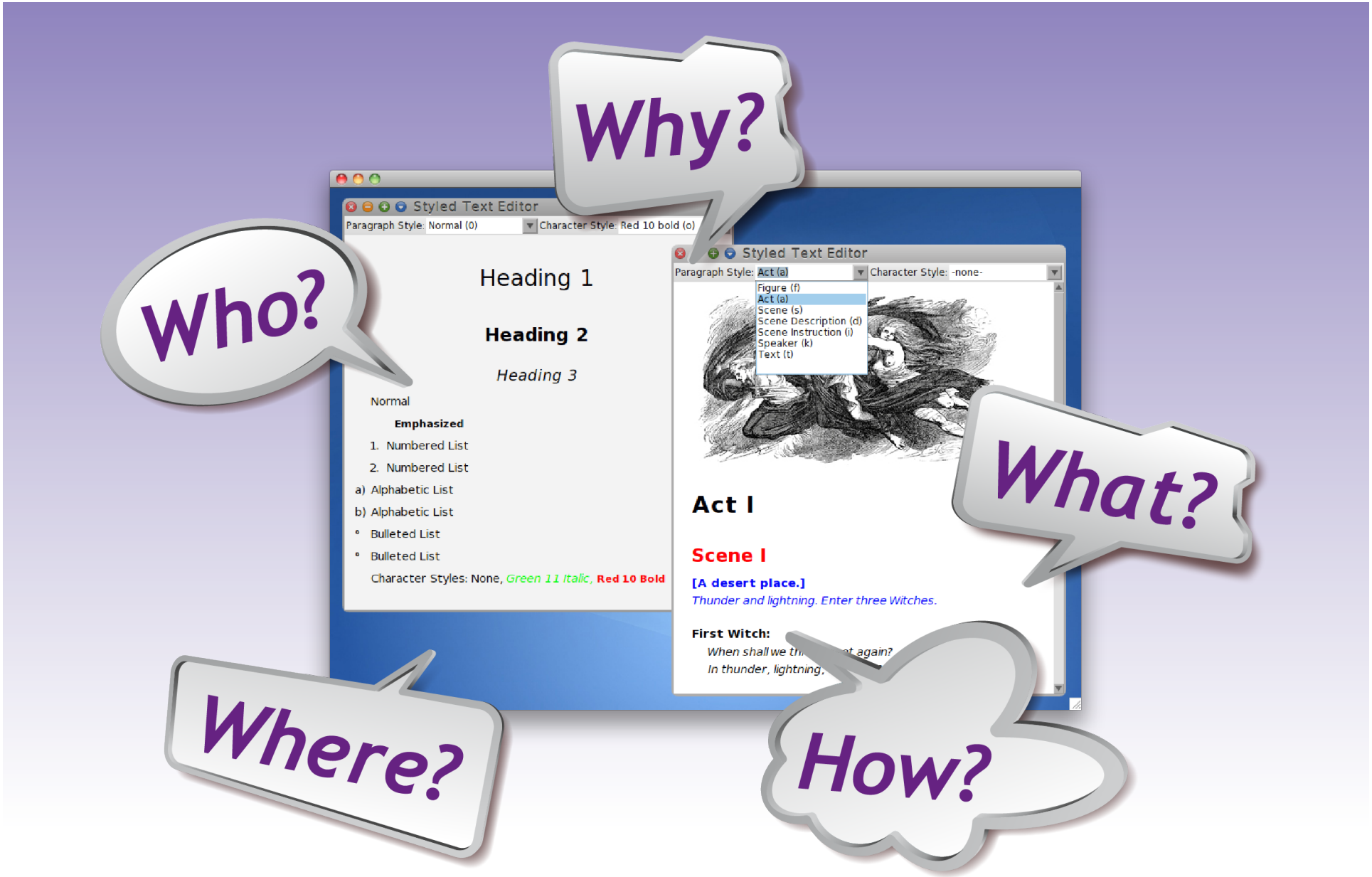


StyledTextEditor

Rich Text Editing for Cuis
Idea & Funding by Bernhard Pieber
Implementation by Juan Vuletich


Why?
Who?
What?
Where?
How?
Styled Text Editor
Paragraph Style: Normal (0)
Character Style: Red 10 bold (o)
Heading 1
Heading 2
Heading 3
Normal
Emphasized
1. Numbered List
2. Numbered List
a) Alphabetic List
b) Alphabetic List
° Bulleted List
° Bulleted List
Character Styles: None, Green 11 Italic, Red 10 Bold
Styled Text Editor
Paragraph Style: Act (a)
Character Style: -none-
Figure (f)
Act (a)
Scene (s)
Scene Description (d)
Scene Instruction (i)
Speaker (k)
Text (t)
Act I
Scene I
[A desert place.]
Thunder and lightning. Enter three Witches.
First Witch:
When shall we th
In thunder, lightning,

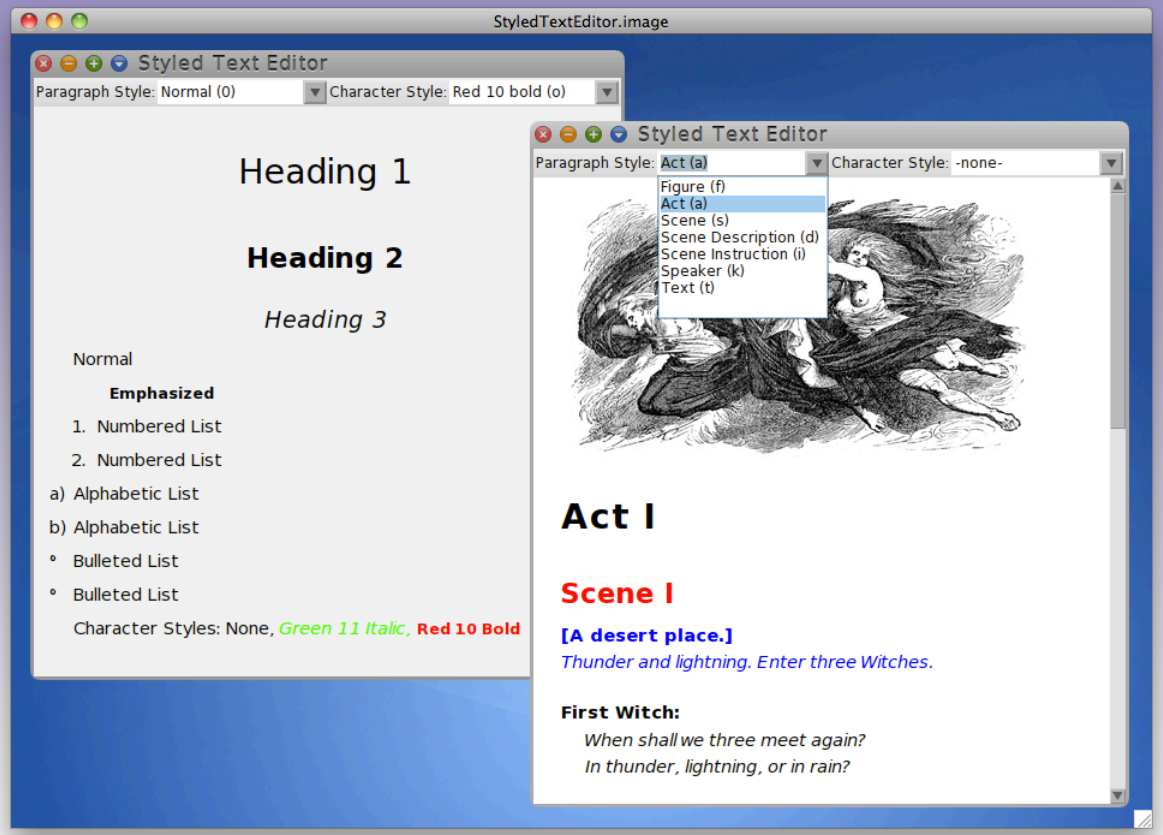
Why?
Goals

- Rich text editing using only Styles
- As simple as possible
- Apply Styles by keyboard shortcuts
- Different Style Sets
- Embeddable in different applications

What?
Features

- Styles
  - Paragraph Styles
  - Character Styles
- Bulleted and Numbered Lists
- Completion
- Pasting Images
- Copy and Paste
- StyledTextBuilder
  - API for creating text with styles programmatically
- Refactoring and bug fixes

What?
Demo


StyledTextEditor.image
Styled Text Editor
Paragraph Style: Normal (0)
Character Style: Red 10 bold (o)
Heading 1
Heading 2
Heading 3
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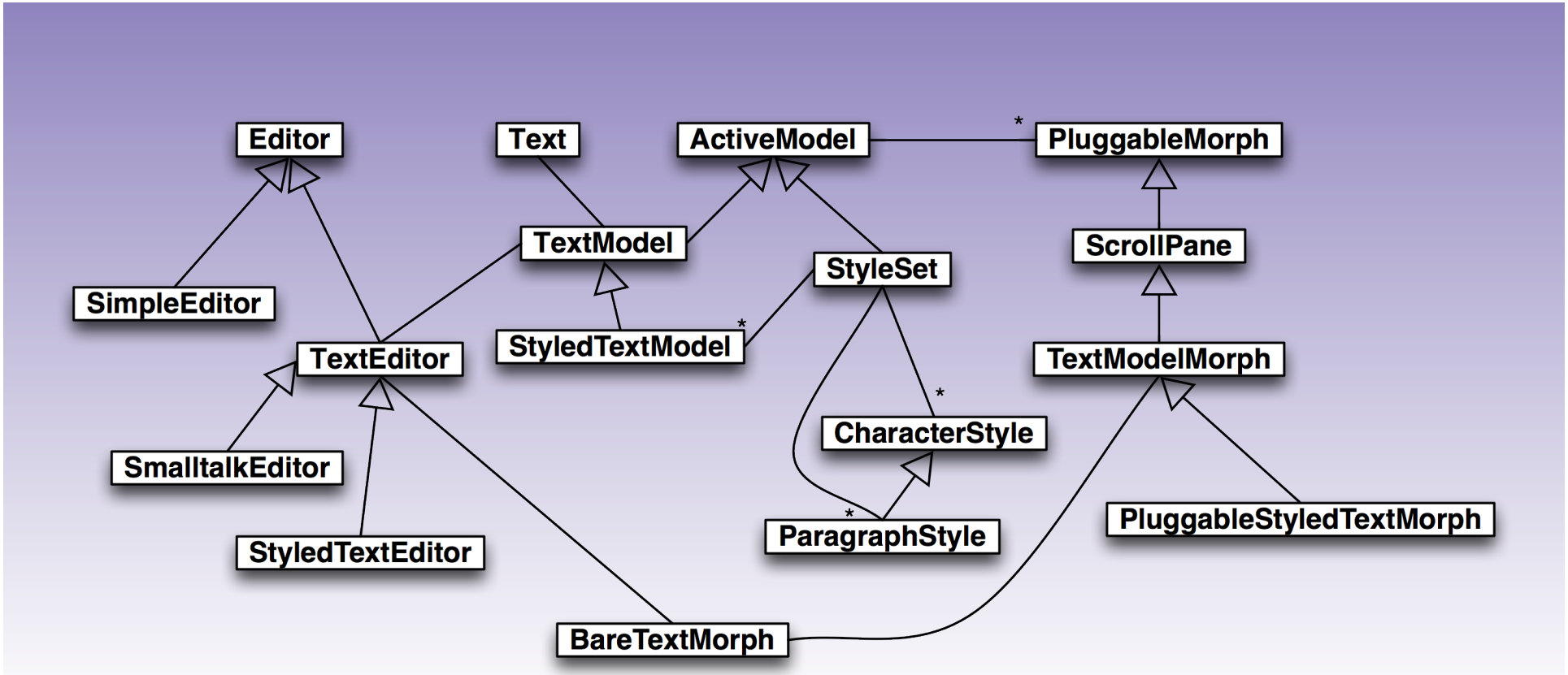
Character Style: -none-
Figure (f)
Act (a)
Scene (s)
Scene Description (d)
Scene Instruction (i)
Speaker (k)
Text (t)
Act I
Scene I
[A desert place.]
Thunder and lightning. Enter three Witches.
First Witch:
When shall we three meet again?
In thunder, lightning, or in rain?

What?
Collateral Features

- Text Editor Refactoring
  - ➡ in Squeak and Pharo
- Filtering drop-down list
- Improved layout for Morphs
- Removed StringHolder
- Code completion

How?
Design


Editor
Text
ActiveModel
*
PluggableMorph
TextModel
StyleSet
ScrollPane
SimpleEditor
StyledTextModel
*
TextEditor
TextModelMorph
*
CharacterStyle
SmalltalkEditor
*
ParagraphStyle
PluggableStyledTextMorph
StyledTextEditor
BareTextMorph

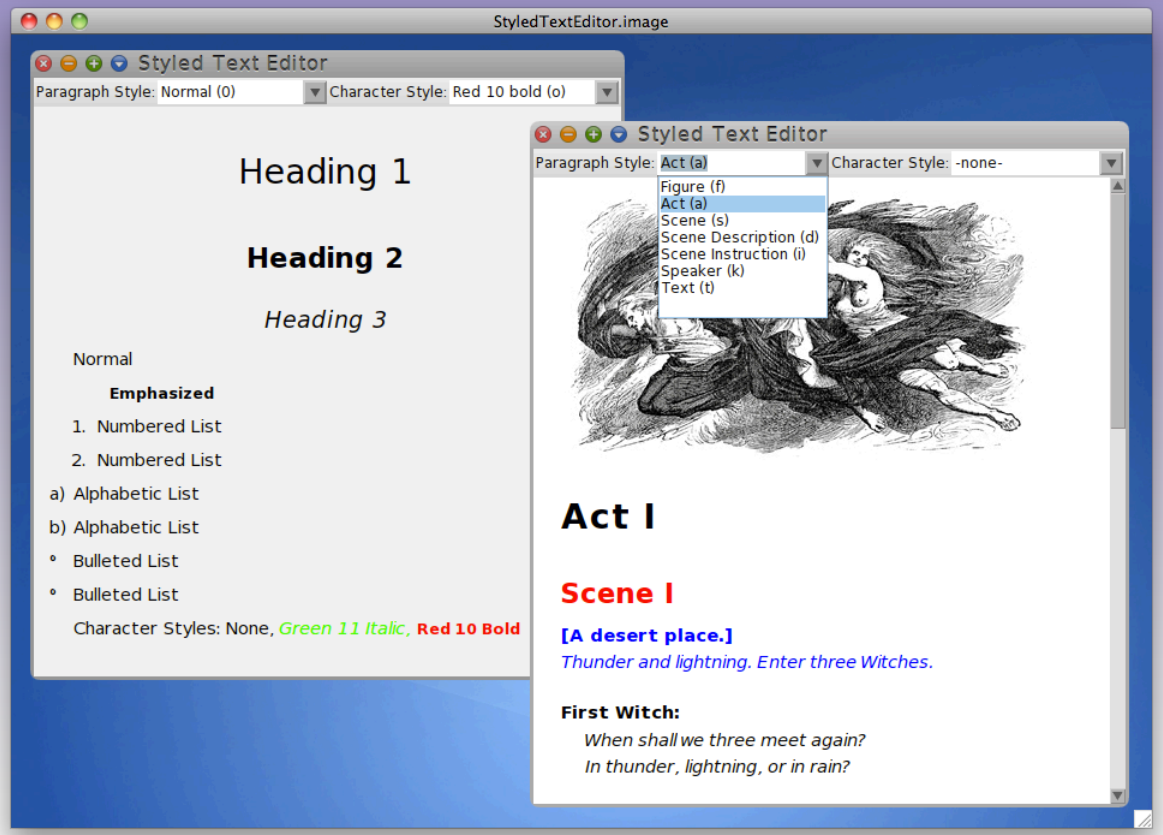
Where?
Future Features

- Release as open source
- Port to Squeak and Pharo
- Hyperlinks
- Search UI
- Model for text changes
  - Merge branches
  - Multiple undo
- Tables

Where?
Possible Applications

- StyledTextNotepad
- StyledTextWiki
- StyledTextHelpBrowser
- Rich text comments

Lessons Learned

- I am always too optimistic.
  - I knew that already. ;-)
  - 900 hours since July 2009
  - €17.000 ($24.000)
- I miss Monticello.
  - I learned something about ChangeSets, though.
  - Funding a port to Cuis alone is beyond my financial capability.
- Forks are much worse than I thought.
  - Port to Squeak estimated to be a considerable effort.
  - A big waste of community time.
  - No solution for it, though. :-(

Questions & Feedback & Discussion
Many thanks for your attention!