pure text Q&A dialog like this:

What is `...`?

Q-and-A

Typesetting Q&A-style conversation made easier

A:
A `...` is a `...`. It has the following features:

[Feature A]
[*Aspect one] Firstly, ...
[*Aspect two] Secondly, ...

[Feature B] It also ... Can you provide some examples for `...`? Certainly. There are many types of `...`, for example: [*] *emphasized* [*] **bold** [*] ***bold and emphasized*** into a carefully designed document like this: Q1: What is ...? A1: A ... is a It has the following features: 1. Feature A: Aspect one: Firstly, ... Aspect two: Secondly, ... 2. Feature B: It also ... Q2: Can you provide some examples for ...? A2: Certainly. There are many types of ..., for example: emphasized bold

> / 2 / Preparation

Otherwise, you need to check for package update to see if you can receive it. In case not, you can

/ 3 / Usage

always go to the CTAN page to download the .zip file with all related files included.

That is nice. How can I use it? Is there anything that needs to be prepared?

You should make sure that this document class is properly installed.

If you are using TeX Live 2024 or newer, or the most recent version of MikTeX, then this package

should already be included, and you don't need to do anything.

\documentclass[%11pt,
 use theme = \langle theme \rangle,
 numbered question,
 numbered answer,
 \langle multiple question,

Font size options such as 11pt, 12pt.

scroll,
]{Q-and-A}

bold and emphasized

Of course. A typical document looks like this:

Now that I have successfully installed it, could you propose an example of usage?

\UseLanguage{\((language\)\)} % For English this line can be omitted.
\begin{document}

% The content
\end{document}
The available class options include:

scroll: turn the scroll mode on, which generates a single-page pdf similar to a long screenshot.
It is recommended to use this option if your document contains some large piece of code.
use theme = (theme): use the selected theme, available choices include: default (like the

current document), ChatGPT-light and ChatGPT-dark (see the demo documents).

numbered question, or question number: enable the numbering of questions.

numbered answer, or answer number: enable the numbering of answers. • multiple question and multiple answer: enable subcounter for questions and answers. This can also be enabled/disabled manually in the middle of the document, via \EnableMultipleQuestion / \DisableMultipleQuestion and \EnableMultipleAnswer / \DisableMultipleAnswer. • smaller subcounter: when multiple question (and/or multiple answer) is enabled, use this option to show the subcounter in a smaller size. • enlarge left margin by = \langle length \rangle , or increase left margin by = \langle length \rangle : enlarge the left margin by the amount of \langle length \rangle. This would be useful if there are so many questions/answers that the numbering becomes too long to fit in the margin. Here (length) should be specified with absolute unit like pt, cm, mm, in, etc., but not with unit like ex or em. answer outside the box, or answer out of the box (or even omit the): enable another implementation for printing the answer that does not involve putting it into a colored box. This would be useful if the answers contain many long pieces of code while you still want the pages to break normally. What about the main content? You have already seen an example of the main content. As you might have noticed, there are several syntaxes. Let me explain. 1. Questions (Q), Answers (A), and Narrations (N): • A question begins with the prefix Q: or ?. An answer begins with the prefix A: or :. A narration begins with the prefix N: or ". Note that this depends on the current language. The prefixes [?,]: and ["] being universal, yet -• for French, it is Q&R&N, thus the alphabetical prefixes become Q:, R: and N:; • for German, it is F&A&E, thus the alphabetical prefixes become F:, A: and E:;

• for Italian, it is D&R&N, thus the alphabetical prefixes become D: , R: and N:;

for Russian, it is B&O&P, thus the alphabetical prefixes become B: , 0: and P: ;
 for Spanish, it is P&R&N, thus the alphabetical prefixes become P: , R: and N: ;

answers, and 注: for narrations; similarly for traditional Chinese;

and ", " or \(\Gamma\) for narrations.

Use **\(\frac{text}\)** to make \(\frac{text}\) into boldface.
Use ***\(\frac{text}\)*** to combine the previous effects.

Use *\(\text\)* to emphasis \(\lambda text\).

2. Emphasize and Bold:

3. Enumerate and Itemize:
• Emphasized version:

 $[\langle text \rangle] *$.

Normal version:

• for Portuguese and Brazilian, it is P&R&N, thus the alphabetical prefixes become P: , R:

• for simplified Chinese, it is also possible to use the prefix 问: for questions, 答: for

• for Chinese or Japanese, it is also possible to use the prefix ? for questions, : for answers,

- An emphasized enumerate is marked by [(text)] at the beginning, where (text) is the

- An emphasized itemize is marked by $[*\langle text \rangle]$, where $\langle text \rangle$ is the text to be empha-

If you wish to restart the numbering from 1, write an asterisk after the final bracket:

text to be emphasized. The numbering is reset at the end of each answer.

- When \(\lambda text\rangle\) is empty, you get the usual appearance of \(\text\rangle\) numerate or \(\text(\text)\) itemize. With this method of writing, each emphasized \(\text(\text(\text)\) enumerate and \(\text(\tex

| (\langle width\rangle \{\langle image file name\rangle\} \cdot\rangle \langle \{\langle image file name\rangle\} \cdot\rangle \langle \langle \langle image file \(\langle image file name\rangle\) \cdot\rangle \{\langle image file name\rangle\} \cdot\rangle \langle \langle \langle image file \(\langle image file name\rangle\) \cdot\rangle \(\langle i

5. Code: Due to the current implementation of this document class, it is unfortunate that you

If the answers contain many long pieces of code, you may consider using the class option

• If you wish to use the *numbered* version, write ##+, ###+ and ####+ instead.

And don't forget that you are still using LATEX, so images, tables and lists can be written as usual.

Currently, the default style for showing tables has not been settled (since the color configuration for tables with or without headers would be slightly different). As a temporary solution, it is recommended for you to consult the several nice answers of this question: https://tex.

Cautions

• An emphasized enumerate should also begin in a new paragraph. An emphasized itemize should usually begin in a new paragraph, with the exception that it can (partially) be used

• Likewise, a section / subsection / subsubsection should be placed in a separate paragraph.

• For emphasizing and bolding the text, it would be necessary to separate the asterisks with {}

Due to the recognition of the syntax, you cannot directly use characters like * as usual, especially in math mode. You should consider using an alternative macro, such as \ast for * in math mode, or define a command version of the character in the preamble, such as

/ 5 / Customization

Now that we have learned the basic usage, I would like to know more. Can I customize the

Certainly. Apart from using themes via class option, you may also change the identifiers and the

Note that, due to its implementation, the identifier cannot contain comma, in it. If you wish to use an identifier that contains a comma, you may use \QAAddTypePrefix instead,

Note also that, the identifiers are *reset* upon changing of language. Thus, you need to put your setting into the corresponding language configuration, for example, via

You may use $\QARemovePrefix{\langle identifier\rangle}$ to remove a certain identifier, or use \QARemoveAllPrefix to remove all of them. This is especially useful if you wish to clear all

2. **Changing labels:** You may also change the labels. For example, from the text "Q:" to a logo icon. This can be done via the use of \QASetLogoCode in the preamble of your document.

Here, \(\lambda \) gos \(\colon \) code\(\rangle \) is the actual code for displaying the corresponding label. For example, the default label for (unnumbered) questions is preset via \(\QASetLogoCode{Q}^{\textbf{Q\\,:}}\). \(\begin{align*}\] In the demo document, you can find an example on how to use this command to specify a

environments would still be useful if you need nested lists.

(width) is not given, the width would be full \linewidth.

4. **Images:** Displayed images can be included via one of the following ways:

For centered image, the caption can be written via >> (caption text).

cannot directly insert source code in your document. There are some workarounds, though.
For *inline* code, you may simply write it between two backticks \(\cdot\) (code\), similar to the Markdown syntax. However, be aware that special characters need to be escaped, for example, \(\cdot\) should be written as \(\cdot\) (should be written as \(\cdot\), (should be written as \(\cdot\), etc.
For *displayed* code, store the code into a separate file, and then use \(== \{\language\} \) (file name\) to print it. You may also use an optional argument like \(== \[\language\] \(\language\) \(\language\) ito select

the language of your code.

6. **Sections:**

7. Input/Include Files:

answer outside the box.

You may start a new (unnumbered) —
 section, via ## {(section title)};

Use :: {\(file name \) \} to input a file.Use ::: {\(file name \) \} to include a file.

Q: I see. Is there anything else for me to be careful about?

A: Glad that you asked. Here are several things that should be taken care of:

in some special cases: **like**{}***this***{}*one*.

There are also a few that already provided by LATEX, such as:

A question, answer or narration should always begin in a new paragraph.

Input or inclusion of files should also be operated in a separate paragraph.

stackexchange.com/q/10224.

within an enumerate.

- subsection, via ### {\(\langle subsection \) title\\};

- subsubsection, via #### {\(\langle subsubsection title\\rangle\);

\textasterisk for *. A list of predefined commands are:
- \textasterisk for *;
- \textbacktick for `;
- \textcolon for :;
- \textcolon for =;
- \textleftparen for (;

interface to suit my preferences, for instance?

which only adds one identifier per use.

logo for each role in the conversation.

Is there any known issue with this document class?

Unfortunately, yes : (.

Below is a list of known issues:

solution has been proposed above).

What should I do if I encounter any problem?

or email me via ProjLib@outlook.com.

\AddLanguageSetting[\language name\rangle] \{\language name\rangle}

the previous setting in the language configuration.

Use \QASetLogoCode{Q}{\(\langle logo code \rangle \)} to set the labels for questions.
 Use \QASetLogoCode{A}{\(\langle logo code \rangle \)} to set the labels for answers.

labels for each role in the conversation.

- \textrightparen for);
- \textsharp for #.
- \textvert for | .

- \textbackslash for \;
- \textgreater for >;
- \textless for <.</pre>

1. Changing itentifiers: Instead of the default identifiers, such as ? for questions, you may also use your preferred one. This can be done via the use of \QASetTypePrefix in the preamble of your document.
Use \QASetTypePrefix{Q}{\(\(\frac{identifiers}{\}\)\)} to set the identifiers for questions.
Use \QASetTypePrefix{A}{\(\frac{identifiers}{\}\)} to set the identifiers for answers.
Use \QASetTypePrefix{N}{\(\frac{identifiers}{\}\)} to set the identifiers for narrations.
Here, \(\(\frac{identifier}{\}\)} is a comma list of your specified identifiers. For example, the default identifier

for narrations is preset via $\QASetTypePrefix\{N\}\{N:,", ",", "\}$.

If you wish to include the question number or answer number, you may use the command \QAShowCounter:

• Use \QAShowCounter{Q} to step the counter of question and print it.

• Use \QAShowCounter{A} to step the counter of answer and print it.

For example, the default label for numbered questions is preset by adding \QAShowCounter{Q}\to the unnumbered version: \QASetLogoCode{Q}{\textbf{Q}\QAShowCounter{Q}\,:}}.

3. Controlling subcounters: When using \QAShowCounter to show a counter that contains a subcounter, it is possible to control the style and the separator of the subcounter:

• Use \QASetSubcounterStyle{\(\style \code\)\} to define the style of the subcounter. For example,

the class option smaller subcounter is equivalent to \QASetSubcounterStyle{\smaller}.

Use \QASetSubcounterSeparator{\(\separator \) \} to define the separator between the parent

In this section, all commands with the prefix QASet also has an abbreviation form with the prefix Set. For example, instead of \QASetLogoCode, you may simply write \SetLogoCode.

/ 6 / Known Issues

Due to the current implementation, one may not be able to directly write certain characters (such as *) in the text, this might be especially inconvenient in math mode (temporary alternative

Due to the current implementation, the method for inputting and including subfiles doesn't

and child counters. By default it is . , but you may set it to, say, - , or / .

Currently, the code highlight is done by the package listings. Due to its own limitations, the result is still far from satisfactory. Using minted instead could improve the situation, but this would require -shell-escape and some external tweaking, thus it would still take some effort to make it work with the current document class.
 Due to the current implementation, one cannot direct write code (either inline or displayed) within the text (alternative solution has been proposed above).
 Due to the current implementation, when displaying the code, one may not be able to write some of the language name like C# directly, but has to write an alternative name such as

really work like \input and \include. In particular, the current type of conversation would be reset, this might cause some confusion in certain cases.

Due to the current implementation, though it is already possible to automatically adopt the identifiers and labels for supported languages, you still need to use the identifiers Q, A and N when setting them.

Currently, for typesetting questions and answers, the text is in fact being put into some sort of description list (upon reflection, why did I do this? I could have simply put the label into margin...). As a result, the level of lists might be slightly messed up, which could sometimes lead to issues with the list labels.

If you run into any issues or have ideas for improvement, feel free to discuss on:

https://github.com/Jinwen-XU/Q-and-A/issues