# Auto Multiple Choice - Feature # 238: Option to give explanation for the answers of a question

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|---|---|---|---|
| **Status:** | Closed | **Priority:** | Normal |
| **Author:** | Anirvan Sarkar | **Category:** | LaTeX |
| **Created:** | 11/20/2013 | **Assignee:** | Anirvan Sarkar |
| **Updated:** | 09/08/2015 | **Due date:** | |

**Description:**

It will be nice to add explanations for the answer of a given question.
Something like:

```
<pre>
\begin{question}{elevation}
    Which has the highest elevation among the following?
    \begin{choices}
        \correctchoice{Sagarmatha}
        \wrongchoice{K2}
        \wrongchoice{Mont Blanc}
        \wrongchoice{Aconcagua}
    \end{choices}
    \explain{Sagarmatha which literally means 'Head of sky' is the native name of Mount Everest, the
highest mountain in the world.}
  \end{question}
</pre>
```

The explanations should be optional and should not be displayed in the Questions but can be displayed in the Solution and Catalog file. Also it will be nice to customize the text which is displayed before the explanations using the @\AMCtext@ command.

I am attaching a .sty file which implements this feature for reviewing.

## History

**11/20/2013 10:57 am - Anirvan Sarkar**

*- File amc-explain-v1.sty added*

**11/20/2013 10:00 pm - Alexis Bienvenüe**

Very good idea.
I don't think @\SujetExterne@ is the right thing to test to see if we produce the subject or corrected or so: this command is only defined when calling LaTeX from the GUI. Someone who wants to get the subject compiling by himself won't define @\SujetExterne@.
I think @\AMC@correchead@ is the right switch to test: it is _true_ for catalog and corrected documents, and _false_ for subject (and individual corrected document). individual corrected document is used when _compose_ is set in annotating (selecting pages from the subject layout), so the explanations should not be written in this mode.

**11/21/2013 12:51 pm - Anirvan Sarkar**

*- File amc-explain-v2.sty added*

Alexis Bienvenüe wrote:
> I think @\AMC@correchead@ is the right switch to test

Updated to use @\AMC@correchead@ instead of @\SujetExterne@.

**11/21/2013 12:57 pm - Anirvan Sarkar**

Is there any way to use the @\explain@ command in @question@ like environments only, similar to how @\wrongchoice@ and @\correctchoice@ can

be used only inside @choices@ like environments?

**11/21/2013 05:20 pm - Alexis Bienvenüe**

> Is there any way to use the \explain command in question like environments only, similar to how \wrongchoice and \correctchoice can be used only inside choices like environments?

@\wrongchoice@ and @\correctchoice@ use @\item@, which works only in @itemize@ environments (and @choices@ environment are @itemize@), but in fact perhaps you could use @\wrongchoice@ inside a @itemize@ that is not @choices@... I did not setup any special thing to allow @\wrongchoice@ only at some places.

**11/22/2013 12:05 pm - Anirvan Sarkar**

*- File amc-explain-v3.sty added*

Now the @\explain@ command can only be used inside @question@ like environments. In the same way it can also be implemented for @\wrongchoice@ and @\correctchoice@ to work only inside @choices@ like environment.

**11/22/2013 06:33 pm - Alexis Bienvenüe**

Good job: feel free to integrate it in the development tree.

**12/16/2013 04:15 pm - Anirvan Sarkar**

From r1497 \explain{•} command can be used in AMC.

**12/16/2013 04:28 pm - Anirvan Sarkar**

I was busy with my end semester exams this past few weeks. I have time now and will update the the documentation for the @\explain@ command in this week.

**12/16/2013 08:58 pm - Alexis Bienvenüe**

*- Status changed from New to In Progress*

Great!

**06/20/2014 07:03 pm - Anirvan Sarkar**

*- Target version set to 1.3.0*

*- % Done changed from 0 to 100*

*- Assignee set to Anirvan Sarkar*

*- Status changed from In Progress to Resolved*

**08/19/2014 05:52 am - Anirvan Sarkar**

*- Status changed from Resolved to Closed*

**09/08/2015 11:11 pm - Adin Ramirez**

Is there a way to check the explanations before putting them on the AMC?

For example, when I am creating the test, can I see how the results will look like? And check how the explanations look?

I'm looking for an option to change or a flag to set to make them appear when typesetting the test.

**Files**

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|---|---|---|---|
| amc-explain-v1.sty | 194 Bytes | 11/20/2013 | Anirvan Sarkar |
| amc-explain-v2.sty | 183 Bytes | 11/21/2013 | Anirvan Sarkar |
| amc-explain-v3.sty | 1.6 kB | 11/22/2013 | Anirvan Sarkar |