The **Examcard** class

March 18, 2013

Commands and Environments

`\begin{card}`
`<...>`
`\end{card}`
	`card` environment generates a dashed box of a fixed size. The content of the card is descriped in the body of environment

`\setcardwidth{<width>}`	Sets width of the card. If this command is not used anywhere in the document the width is set to 90mm by default.
`\setcardheight{<height>}`	Sets height of the card. If this command is not used anywhere in the document the height is set to 70mm by default.
`\cardhead{<number>}`	Inserts header with a card number. Refer to Examples section for more details.
`\quest[<class>]{<number>}{<question>}`	Produces question name with a number assigned to a specific class. `<class>` is an option and may be left empty.
`\listgen`	Produces a list of all questions used in document before it in a `longtable` environment sorted by number. Refer to `longtable` package for more details. The list is based on the information extracted from `\quest` command.
`\classlist{<class>}`	This command is similar to `\listgen`, but it displays only questions of a given class. Type `NoClass` to show question wich are not assigned to any class

Examples

```
\begin{card}
\cardhead{\ccount}
\quest[Physics]{1}{Maxwell's Equations}\\
\quest[Physics]{2}{Lorentz transformation}\\
\quest[Physics]{3}{Poynting's theorem}\\
\end{card}
```

Card 1

1. Maxwell's Equations
2. Lorentz transformation
3. Poynting's theorem

```
\begin{card}
\cardhead{\ccount}
\quest{4}{Not}\\
\quest{5}{Assigned}\\
\quest{6}{Question}\\
\end{card}
```

Card 2

4. Not
5. Assigned
6. Questions

Mathematics example:

Card 3

7. Maxwell's Equations (answer)

$$\mathrm{div}\mathbf{E} = 4\pi\rho$$

$$\mathrm{div}\mathbf{H} = 0$$

$$\mathrm{rot}\mathbf{E} = -\frac{1}{c}\frac{\partial \mathbf{H}}{\partial t}$$

$$\mathrm{rot}\mathbf{H} = \frac{4\pi}{c}\mathbf{j} + \frac{1}{c}\frac{\partial \mathbf{E}}{\partial t}$$

Graphics example:

Card 4

8. Circle

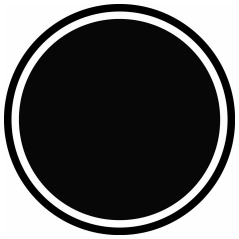

Table example:

Card 5

9. Numbers

1	2	3
4	5	6
7	8	9

Mathematics example:

Card 6

10. Blindtext

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

Array of cards:

Card 7

11. Lorem

Card 8

12. Ipsum

Card 9

13. Dolor

Card 10

14. Sit Amet

There is no special environment or command for creating an array. Simply put the cards one after another. They will be placed automatically. It is recommended to insert double backslash `\\` in a code after each row in array to keep all cards on the list placed properly.

List of all questions (based on questions used in this manual): `\listgen`

1. Maxwell's Equations
2. Lorentz transformation
3. Poynting's theorem
4. Not
5. Assigned
6. Questions
7. Maxwell's Equations (answer)
8. Circle
9. Numbers
10. Blindtext
11. Lorem
12. Ipsum

13. Dolor
14. Sit Amet

List of questions of `Physics` class: `\classlist{Physics}`

1. Maxwell's Equations
2. Lorentz transformation
3. Poynting's theorem
7. Maxwell's Equations (answer)

List of questions that are not assigned to any class: `\classlist{NoClass}`

4. Not
5. Assigned
6. Questions