

The **Examcard** class

March 18, 2013

Commands and Environments

`\begin{card}`

`<...>`

`\end{card}`

`\setcardwidth{width}`

`\setcardheight{height}`

`\cardhead{<number>}`

`\quest[<class>]{number}{<question>}`

`\listgen`

`\classlist{<class>}`

`card` environment generates a dashed box of a fixed size. The content of the card is described in the body of environment

Sets width of the card. If this command is not used anywhere in the document the width is set to 90mm by default.

Sets height of the card. If this command is not used anywhere in the document the height is set to 70mm by default.

Inserts header with a card number. Refer to Examples section for more details.

Produces question name with a number assigned to a specific class. `<class>` is an option and may be left empty.

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.

This command is similar to `\listgen`, but it displays only questions of a given class. Type `NoClass` to show question which 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}
```

Mathematics example:

Graphics example:

Card 2

- 4. Not
- 5. Assigned
- 6. Questions

Card 3

- ## 7. Maxwell's Equations (answer)

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

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

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

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

Card 4

- ## 8. Circle

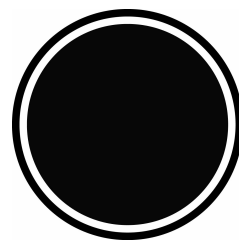


Table example:

Card 5

9. Numbers

1	2	3
4	5	6
7	8	9

Array of cards:

Card 6

10. Lorem

Card 7

11. Ipsum

Card 8

12. Dolor

Card 9

13. 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. Lorem
11. Ipsum
12. Dolor
13. 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