# The **Examcard** class

March 29, 2013

## Commands and Environments

| | |
|---|---|
| `\begin{card}`<br>`<...>`<br>`\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[<color>]{<number>}` | Inserts header with a card number. Headers are created with the help of Ti*k*Z package. If option field is empty the color is set to `lime` by default. You have direct access to the following colors: red, green, blue, cyan, magenta, yellow, black, gray, darkgray, lightgray, brown, lime, olive, orange, pink, purple, teal, violet and white. And you can define all the colors you might want – see the Ti*k*Z manual. |
| `\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 the document before it. 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` as an argument to show question wich are not assigned to any class. |

## Examples

```
\begin{card}
\cardhead{1}
\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{2}
\quest{4}{Not}\\
\quest{5}{Assigned}\\
\quest{6}{Questions}\\
\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

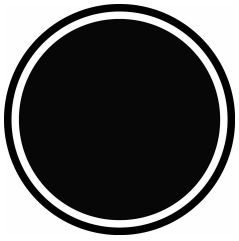

Table example:

## Card 5

9. Numbers

| | | |
|---|---|---|
| 1 | 2 | 3 |
| 4 | 5 | 6 |
| 7 | 8 | 9 |

Text example:

## Card 6

10. Blindtext

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No header example:

11. No header

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Array of cards:

## Card 7

12. Lorem
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## Card 8

13. Ipsum
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## Card 9

14. Dolor
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## Card 10

15. Sit Amet
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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. No header

12. Lorem
13. Ipsum
14. Dolor
15. 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