

Лабораторная работа 4

Изображения в LaTeX

```
1 \documentclass{article}
2 \usepackage[T1]{fontenc}
3 \usepackage{graphicx}
4 \begin{document}
5 This picture
6 \begin{center}
7 \includegraphics[height=2cm]{image}
8 \end{center}
9 is an imported PDF.
10 \end{document}
11
12
13
14
15
```

This picture

is an imported PDF.



Размер изображения 1

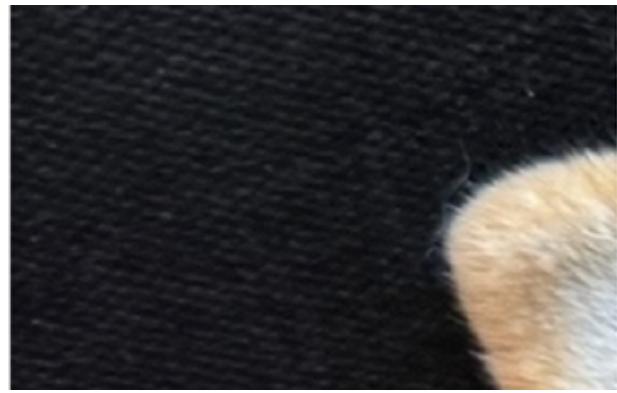
```
1 \documentclass{article}
2 \usepackage[T1]{fontenc}
3 \usepackage{graphicx}
4 \begin{document}
5 \begin{center}
6 \includegraphics{height = 0.3\textheight, width =
0.3\textwidth}{image}
7 \end{center}
8 Some text
9 \begin{center}
10 \includegraphics{width = 0.1\textwidth}{image}
11 \end{center}
12 \end{document}
13
14
15
16
17
18
19
20
21
```

Some text



Размер изображения 2

```
1 \documentclass{article}
2 \usepackage[T1]{fontenc}
3 \usepackage{graphicx}
4 \begin{document}
5 \begin{center}
6 \includegraphics[clip, trim = 0 0 200 200]{image}
7 \end{center}
8 \end{document}
```



Изображения в документе

```
1 \documentclass{article}
2 \usepackage[T1]{fontenc}
3 \usepackage{graphicx}
4 \usepackage{lipsum} % produce dummy text as filler
5 \begin{document}
6 \lipsum[1-4] % Just a few filler paragraphs
7 Test location.
8 \begin{figure}[ht]
9 \centering
10 \includegraphics[width=0.5\textwidth]{image}
11 \caption{An example image}
12 \end{figure}
13 \lipsum[6-10] % Just a few filler paragraphs
14 \end{document}
```



Figure 1: An example image

eu urna porta tincidunt. Mauris felis odio, sollicitudin sed, volutpat ac, crat. Morbi quis dolor. Donec pellentesque, erat ac sagittis semper, dui lobortis purus, quis congue purus metus ultricies tellus. Proin

images float

```
1 \documentclass{article}
2 \usepackage[T1]{fontenc}
3 \usepackage{graphicx}
4 \usepackage{lipsum} % dummy text for filler
5 \usepackage{float}
6 \begin{document}
7 \lipsum[1-7]
8 \begin{figure}[H]
9 \centering
10 \includegraphics[width=0.5\textwidth]{image}
11 \caption{An example image}
12 \end{figure}
13 \lipsum[8-15]
14 \end{document}
```

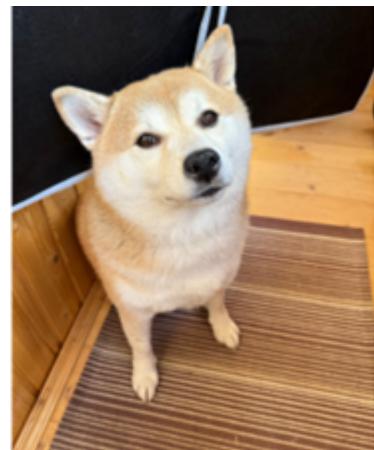


Figure 1: An example image

Pellentesque habitant morbi tristique senectus et netus et mal

images float

```
1 \documentclass{article}
2 \usepackage[T1]{fontenc}
3 \usepackage{graphicx}
4 \usepackage{lipsum} % dummy text for filler
5 \usepackage{trivfloat}
6 \trivfloat{image}
7 \begin{document}
8 \begin{image}
9 \centering
10 \includegraphics[width=0.5\textwidth]{image}
11 \caption{An example image}
12 \end{image}
13 \end{document}
```



Image 1: An example image

Ссылка

```
1 \documentclass{article}
2 \usepackage[T1]{fontenc}
3 \begin{document}
4 Hey world!
5 This is a first document.
6 \section{Title of the first section}
7 Text of material for the first section.
8 \subsection{Subsection of the first section}
9 \label{subsec:labelone}
10 Text of material for the first subsection.
11 \begin{equation}
12 e^{i\pi}+1 = 0
13 \label{eq:labeltwo}
14 \end{equation}
15 In subsection-\ref{subsec:labelone} is
16 | equation-\ref{eq:labeltwo}.
17 \end{document}
```



Hey world! This is a first document.

1 Title of the first section

Text of material for the first section.

1.1 Subsection of the first section

Text of material for the first subsection.

$$e^{i\pi} + 1 = 0$$

In subsection 1.1 is equation 1.

Гиперссылка

The screenshot shows a LaTeX editor interface. On the left, the code editor displays the following LaTeX document:

```
1 \documentclass{article}
2 \usepackage[T1]{fontenc}
3 \usepackage[hidelinks]{hyperref}
4 \begin{document}
5 ~\ref{sec:next}.
6 \section{Introduction}
7 Some exciting text with a reference~\ref{sec:next}.
8 \section{Next thing}
9 ~\ref{sec:next}.
10 More text here.
11 \section{1}
12 \section{2}
13 \label{sec:next}
14 \section{3}
15 \end{document}
```

On the right, the preview pane shows the rendered document structure. It includes:

- Section 1
- Section 2
- Section 3
- A section labeled "4." containing the text "Some exciting text with a reference 4."
- A section labeled "5." containing the text "More text here."

Выходы

- Добавил графику из внешнего источника в LaTeX.
- Освоил новый графический пакет.
- Научился оформлять изображения в LaTeX.

{.standout}

Спасибо за внимание!