

웹브라우저로 LaTeX 문서 작성하기

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왜 Latex ?

- ▶ 장점
 - ▶ 오픈소스 문서편집/조판 SW
 - ▶ 많은 양 편집, 공동 편집
 - ▶ 대학원, 논문
 - ▶ 문서파일 pdf 통일
- ▶ 단점
 - ▶ 초기진입장벽
 - ▶ WISIG이 아니다.

ShareLaTeX

<http://www.sharelatex.com>

- ▶ 웹 브라우저에서 ShareLaTeX 접속.
- ▶ 가입 후 이용: 가입할 때 추천하면 용량 증가.
- ▶ Template 활용: 이력서, 보고서, 논문, 발표자료.
- ▶ 한글 패키지 사용 주의.

ShareLaTeX 화면

<http://www.sharelatex.com>

The screenshot displays the ShareLaTeX web interface. On the left, a file explorer shows a project named 'main.tex'. The central editor contains the following LaTeX source code:

```
1 \documentclass{oblivoir}
2 \usepackage{utf8}{inputenc}
3
4 \title{보고서}
5 \author{이영석}
6 \date{January 2015}
7
8 \begin{document}
9
10 \maketitle
11
12 \section{개요}
13 한글이 됩니다.
14
15 \section{관련 연구}
16 관련 연구 논문 요약 및 비판
17
18 \section{제안 시스템 알고리즘 개요}
19 제안 방법의 수월성 및 개요
20
21 \section{실험}
22 \subsection{환경}
23 \subsection{결과}
24 \subsection{결과}
25
26 \section{결론}
27
28 \end{document}
```

On the right, the rendered PDF output is shown. It features a blue 'Recompile' button at the top. The rendered page contains the following text:

보고서
이영석
January 2015

- 1 개요
한글이 됩니다.
- 2 관련 연구
관련 연구 논문 요약 및 비판
- 3 제안 시스템 알고리즘 개요
제안 방법의 수월성 및 개요
- 4 실험
 - 4.1 환경
 - 4.2 결과
- 5 결론

Figure 1: ShareLaTeX

Overleaf

<http://www.overleaf.com>

- ▶ 웹 브라우저에서 Overleaf 접속.
- ▶ 가입 후 이용.
- ▶ Template 활용.
- ▶ 영어 스펠 자동 체크 기능이 좋음.
- ▶ 실시간 컴파일 기능이 좋음.

Overleaf 화면

<http://www.overleaf.com>

The screenshot displays the Overleaf web interface for editing a LaTeX document. The top navigation bar includes the Overleaf logo, a 'PROJECT' button, and utility buttons for 'VERSIONS', 'SHARE', 'PDF', and 'PUBLISH'. The user's name 'Youngseok Lee' is visible in the top right. The left sidebar shows the file structure with 'main.tex' selected and 'universe.jpg' as an attached image. The main editor area shows the LaTeX source code with line numbers 1 through 45. The code includes comments in Korean, LaTeX commands for document structure, and package loading. The right sidebar shows a preview of the rendered document, which includes a header with 'NAME:이성' and '보고서', and a preview of the 'universe.jpg' image.

```
1 %percent is used for comments, you wont need them ever, but I'm
2 using them for explanations
3 %\the Following up until "\begin{document}" is called the "header."
4 This sets up the whole document (format, style, additional things)
5 %\command{modifier1, modifier2}{argument} is a general format
6 \documentclass[11pt, amsymb, one column]{article}
7 \usepackage{times, amsmath, amsymb, cancel, changepage, gensymb,
8 graphics, mathrsfs, anstfm, lipsum, fancyhdr}
9 \usepackage{margin=, 5in}{geometry}
10 \newcommand{\ihat}{\mathbf {\hat \math}}
11 \newcommand{\jhat}{\mathbf {\hat \jmath}}
12
13 \usepackage{kotex}
14
15 %you only really need a \documentclass/ packages to make a document,
16 the following is just nice formatting. You can easily remove it or
17 look up something else
18 %that you like better
19
20 \pagestyle{fancy}
21 \head{NAME: 이성}
22 \chead{\huge #} %normalsize
23 %note how I use # " to denote "#. This is because # is reserved
24 (for something). Similarly, % is reserved for comments, so to use it
25 you need %%.
26 %other such things include { }.
27 \rhead{고수지학(수업일)}
28 \fancypagestyle{plain}{
29 \fancyhead[LE, RO]{NAME}
30 \fancyhead[LO, RE]{COURSEINFORMATION}}
31
32 %end of header, beginning of document
33 \begin{document}
34
35 %to insert image:
36 %\includegraphics[scale=.8]{ProblemSet3Graph2.png}
37 \begin{center}
38 \includegraphics[scale=.8]{universe.jpg}
39 \end{center}
40 %note that the file must be in the same folder.
41
42 \begin{enumerate}
43 \item[1.] Overleaf 학습해서 LaTeX 보고서 작성하기
44 \item[2.] 각종 문체가 문제(예) 나오도록 알아본 다음 1월만 수업하면 됨.
45 \end{enumerate}
46
47 \end{document}
```

Figure 2: Overleaf

SageMath

<https://cloud.sagemath.com>

- ▶ 웹 브라우저에서 SageMath 접속.
- ▶ 가입 후 이용.
- ▶ Template 활용.
- ▶ R, Python, Terminal, SageMath 기능이 있음.
- ▶ SageMath는 오픈소스.

SageMath 화면

https://cloud.sagemath.com

The screenshot displays the SageMath web interface. On the left, a code editor shows LaTeX code for a document. The code includes a preamble with `\documentclass{letter}`, `\usepackage{tikz}`, and `\usepackage{amsmath}`. The main content includes a list of items, a figure of the universe, and a reference to the inverse of the universe.

```
1 \documentclass{letter}
2 %%% The following up until the "\begin{document}" is called the "header." This sets up the whole
3 %%% document (format, style, additional things)
4
5 \usepackage{fontenc}
6 \usepackage{fontenc}
7 \usepackage{fontenc}
8 \usepackage{fontenc}
9 \usepackage{fontenc}
10 \usepackage{fontenc}
11 \usepackage{fontenc}
12 \usepackage{fontenc}
13 \usepackage{fontenc}
14
15 %%% You only really need a documentclass/ packages to make a document, the following is just
16 %%% nice formatting, you can easily remove it or look up something else
17 %%% that you like better
18
19 \pagestyle{fancy}
20 \fancyhead[0]{NAME}
21 \fancyhead[1]{NAME}
22 \fancyhead[2]{NAME}
23 \fancyhead[3]{NAME}
24 \fancyhead[4]{NAME}
25 \fancyhead[5]{NAME}
26 \fancyhead[6]{NAME}
27 \fancyhead[7]{NAME}
28 \fancyhead[8]{NAME}
29 \fancyhead[9]{NAME}
30 \fancyhead[10]{NAME}
31 \fancyhead[11]{NAME}
32 \fancyhead[12]{NAME}
33 \fancyhead[13]{NAME}
34 \fancyhead[14]{NAME}
35 \fancyhead[15]{NAME}
36 \fancyhead[16]{NAME}
37 \fancyhead[17]{NAME}
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46 \fancyhead[26]{NAME}
47 \fancyhead[27]{NAME}
48 \fancyhead[28]{NAME}
49 \fancyhead[29]{NAME}
50 \fancyhead[30]{NAME}
51 \fancyhead[31]{NAME}
52 \fancyhead[32]{NAME}
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62 \fancyhead[42]{NAME}
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67 \fancyhead[47]{NAME}
68 \fancyhead[48]{NAME}
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81 \fancyhead[61]{NAME}
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91 \fancyhead[71]{NAME}
92 \fancyhead[72]{NAME}
93 \fancyhead[73]{NAME}
94 \fancyhead[74]{NAME}
95 \fancyhead[75]{NAME}
96 \fancyhead[76]{NAME}
97 \fancyhead[77]{NAME}
98 \fancyhead[78]{NAME}
99 \fancyhead[79]{NAME}
100 \fancyhead[80]{NAME}
```

The preview window on the right shows the rendered document. It features a title bar with the text "NAME: 이명민 보고서" and a search icon. The content includes a list of items:

1. Ourtof 중속에서 LaTeX 보고서 작성하기
2. 한글 폰트가 문제가 많이 나오도록 해결법, 다음 18번 섹션이던 됨.

Below the list is a figure showing a galaxy, with the caption "Figure 1: The Universe".

Figure 3: Sagemath

Summary

- ▶ LaTeX 문서를 웹 브라우저로 작성해보기.
- ▶ ShareLaTeX, Overleaf는 Dropbox, GitHub와도 연동.
- ▶ 활용
 - ▶ 종합설계.
 - ▶ 이력서.

For Further Reading I



KTUG.

<http://www.ktug.org>.



S. Someone.

On this and that.

[Journal of This and That](#), 2(1):50–100, 2000.