memoir와 expl3로 해보는 Book Design Chapter Style

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November 2, 2019

memoir 스터디 그룹

Overview

\chapter가 하는 일

memoir에서 챕터 모양을 바꾸기 위해서는 \chapterstyle{<style>} 사용

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일반적으로 LATEX에서는 \@makechapterhead로 \chapter의 서식을 지정, \@makeschapterhead로 \chapter*의 서식을 지정

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memoir에서는 대략...

% \chapter with secnumdepth ≥ 0

\chapterheadstart

\printchaptername \chapternamenum

- \hookrightarrow \printchapternum
- 4 \afterchapternum
- 5 \printchaptertitle{The title}
- 6 \afterchaptertitle

- % \chapter* with secnumdepth < 0
- 2 \chapterheadstart
- 3 \printchapternonum
- 4 \printchaptertitle{The title}
- 5 \afterchaptertitle

\chapterstyle이 하는 일

매 chapter style 마다, 다음과 같은 매크로들이 초기화된다:

- 1 \renewcommand\chapterheadstart{\vspace*{\beforechapskip}}
- 2 \renewcommand\printchaptername{\chapnamefont \@chapapp}
- 3 \renewcommand\chapternamenum{\space}
- 4 \renewcommand\printchapternum{\chapnumfont \thechapter}
- 5 \renewcommand\afterchapternum{\par\nobreak\vskip \midchapskip}
- 6 \renewcommand\printchapternonum{}
- 7 \renewcommand\printchaptertitle[1]{\chaptitlefont #1}
- 8 \renewcommand\afterchaptertitle{\par\nobreak\vskip \afterchapskip}

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마지막으로, \makechapterstyle{<style>}{<code>}를 통해 새로운 chapter style을 정의할 수 있다.

이를 사용하려면, \chapterstyle{<name>}을 사용한다.

명령어 분석

\openright, \openleft, \openany 분석

openright 챕터 헤딩이 직후 우측 페이지에 위치한다. openleft 챕터 헤딩이 직후 좌측 페이지에 위치한다. openany 챕터 헤딩이 직후 페이지에 위치한다.

또한 \openright와 같이 문서 아무 곳에서 사용하면 설정이 바뀐다.

\openright, \openleft, \openany 분석

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openany 챕터 헤딩이 직후 페이지에 위치한다.
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또한 \openright와 같이 문서 아무 곳에서 사용하면 설정이 바뀐다. 이는 다음과 같은 일을 하도록 정의되어 있다:

\clearforchapter 분석

직전에 소개된 \openright, \openleft, \openany에 의해 설정된다.

만약 이를 새로 정의한다면 챕터가 시작되기 직전에 해야하는 작업을 수행할 수 있다.

\clearforchapter 예시

\renewcommand*{\clearforchapter}{}

Chapter 1

Foo

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Chapter 2

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\memendofchapterhook 분석

\clearforchapter가 챕터 시작 직전에 실행된다면, \memendofchapterhook은 챕터의 맨 끝에서 실행된다.

기본적으로는 아무것도 하지 않도록 정의되어 있다.

\memendofchapterhook 예시

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% \usepackage{amssymb}
\renewcommand*{\clearforchapter}{}
\renewcommand{\memendofchapterhook}{%
\begin{center}
    $\lozenge\lozenge$
\end{center}}
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Chapter 1

Foo

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paracarangur sincreu nanon.

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\chapterheadstart와 \beforechapskip 분석

\chapterheadstart은 챕터 제목과 번호를 출력하기 직전에 실행되며, 기본적으로는 50pt로 설정되어 있는 \beforechapskip을 출력한다.

\chapterheadstart와 \beforechapskip 예시

\setlength\beforechapskip{50pt}

1 \setlength\beforechapskip{-\baselineskip}

Chapter 1

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Chapter 1

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\chapterheadstart와 \beforechapskip 예시

\setlength\beforechapskip{50pt}

1 \renewcommand*{\chapterheadstart}{}

Chapter 1

Foo

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Chapter 1

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\afterchapternum과 \midchapskip 분석

\afterchapternum은 챕터 번호를 출력한 직후에 실행되며, 기본적으로는 20pt로 설정되어 있는 \midchapskip을 출력한다.

\afterchapternum과 \midchapskip 예시

\setlength\midchapskip{20pt}

1 \setlength\midchapskip{0pt}

Chapter 1

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rutrum. Nom del ligida, fringilla a, estimand molalos, millitrarlia vel, misi. Mort santor favora son juno. Nom hara libero, partiena at, lobertis vitas, schridisvit, tellus, schridisvita, tellus, libero aliquet, tertre sod accusson hiberatona, erat ligida alique magas, vitas cenare sollo auties and. Mortà as oni et aid bencherit and lis. Supundime tet mason. Cres ner aute. Politatesque a nella. Cuia sotil natiopa penatiches et magnic dis partirieste masonis, monoter rification amo motopo penatiches et magnic dis partirieste masonis, monoter rification amo.

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Chapter 1 Foo

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\afterchapternum과 \midchapskip 예시

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\renewcommand*{\afterchapternum}{\par\nobreak\vskip 0pt}

Chapter 1

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\afterchaptertitle과 \afterchapskip 분석

\afterchaptertitle은 챕터 제목을 출력한 직후에 실행되며, 기본적으로는 40pt로 설정되어 있는 \afterchapskip을 출력한다.

\afterchaptertitle과 \afterchapskip 예시

\setlength\afterchapskip{40pt}

1 \setlength\afterchapskip{0pt}

Chapter 1

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Chapter 1

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Chapter 1

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Chapter 1

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Case Study

Griffiths: Introduction to Electrodynamics

