# memoir와 expl3로 해보는 Book Design Chapter Style

이재호

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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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- 6 \renewcommand\printchapternonum{}
- 7 \renewcommand\printchaptertitle[1]{\chaptitlefont #1}
- 8 \renewcommand\afterchaptertitle{\par\nobreak\vskip \afterchapskip}

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.
```

또한 \openright와 같이 문서 아무 곳에서 사용하면 설정이 바뀐다. 이는 다음과 같은 일을 하도록 정의되어 있다:

```
1 \newcommand{\openright}{\@openrighttrue\@openleftfalse%
2 \gdef\clearforchapter{\cleartorecto}}
3 \newcommand{\openany}{\@openrightfalse\@openleftfalse%
4 \gdef\clearforchapter{\clearpage}}
5 \newcommand{\openleft}{\@openlefttrue}
6 \gdef\clearforchapter{\cleartoverso}}
```

### \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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ulla maleunda portitor diam. I incidust trictique, Ebero. Vicanue CHAPTER 2. BAR

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Floren maarrie, Newthelmen heuterstilds at lectue. Sed bilenedous, unifin a finchies energie. In wild stiftchies tolken, or vonemated assets with wild wild. Visible
stiftchies, and the stiftchies tolken, or vonemated assets with wild. Visible
stiftchies, and the stiftchies of the stift of the

## \memendofchapterhook 분석

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

기본적으로는 아무것도 하지 않도록 정의되어 있다.

### \memendofchapterhook 예시

```
% \usepackage{amssymb}

! \renewcommand*{\clearforchapter}{}

! \renewcommand{\memendofchapterhook}{%

! \begin{center}

! $\lozenge\lozenge\lozenge$

! \end{center}}
```

#### Chapter 1

#### Foo

Leven you do do with mart, consecutions analysis on, it I, II, practicity, which was in the leven of placeties, a challenge that the mode of actions a grain to see the leven of placeties of the leven of the leven

Nam dei ligels, fringilla a, essenael sodales, selfsitudia tel, visi. Murb autre lexes non jorta Nam lexes libers, pertina et, inherrie vitas, uffrzies et, rollac. Diese aliquet, tentre and accurante liberation, eral ligin aliquet mappa, vitae emans colo metra a mi. Marti sa cori et nich bendreit mellis. Supersidere et masse. Cara see enars. Pelletratega e nidis. Cara socianategas penalibus et maquis dis partirient montes, maester rificulas muderom trainistent uras. Millenneres markhalma mais. Uniterativa Morea trainistent uras. Millenneres markhalma mais. Uniterativa

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Quieque ullimnouper placerat i penn. Crae nibh. Morbi vel justo vitae lacu tincidunt ultrices. Lorens i penn dolor elt annet, consectenar adipicios ell. Il las habitavos plates dictumes. Integer temper consulli supue. Estan facilida Nunc elementum fermentum wiei. Aeneun placerat. Ut imperdiet, enim sec

## \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

#### Foo

Lemm japom defer eli anet, ettementure elipteiraj ell. Di prancelli, suchta in primare din sella sun pilament se, adoptioni gatos, fille Canalhen defensa gardide massir. Nam sora Bisson, immunere quel, momenture il, vilapitate anetti indipensa sentente sella singua per per delensa gardin marchi indipensa sentente sel tentente sun sono. Distante per la bendanta anelli indipensa sentente si themes sono. Nille el tente verdichima sense fringilis strinte. Plamellar en teleste si marc tente gravida japonet. Lienge seguin est, landel a sentente di marchi della sella sel

Nom the ligida, fringilla a, estimand sociales, sellicitudia vit, stiel. Mort austra livem som justo. Nom hense liberen purdum at, lobertie vitas, silvisie et, tillus. Dones caliquet, torter and accumon hibrorian, oral ligida aliquet magna, vitas cenare odio austra a usi. Morbi ae onei et side hendreit noi lib. Supendine ou masso. Cras nea nate. Politeratogue a utila. Cua moit intercape penaribus et magnis die parturient montes, moortur riderium sum Alegana thickidus trans. Vida distancepre verbelantu trapis. Politeratogue

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#### Chapter 1

#### Foo

Lown ignome delte ed mart, consectentes afligheing delt. Per proceed, well than it, places are an adjeloring (trans. fort. Cambliar determ greeful assess Nam over librers, sommerer peri, nomewhere all, vigilarite is, magas, he may be a support of the second of the consection of the

Nom dat ligdis, fringills at, watened solubes, sullistradis vel, wid. Marki autor loses non justs. Nam have Briero, perform at, inductive time, strictive et, trilliar. Disses adjunct, nature and aeromean liberalism, exet light alonges magna, withe crease ofto metra a nat. Morki as cost et ald bundwork nadlis. Suppenders et masse. Ches near anta. Pollestrapes a natis. Cans seint interpreparation et masse and the real native pleasable parallel coninterpreparation et masses. The near nature pleasable parallel manner. Mignant includes trans. Mids disasperper wertellman might. Pollestrapes

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### \chapterheadstart와 \beforechapskip 예시

\setlength\beforechapskip{50pt}

1 \renewcommand\*{\chapterheadstart}{}

#### Chapter 1

#### Foo

Num die ligist, fringilia a, esiennel sodales, sillicitudia vol, nici. Mor autori lessus nen jurca. Num heuse libero, pueriena at, lebertie vitaus, utricitudia de la ligist, texture sed accussion luberdinas, even ligista aliqui magna, vitau centare odio mettos in ai. Morbi as cusi et nici benedieri in lis. Suppundines et muora. Circa ten ante, libertieraque a nulla. Cum nori notocope pensicitude et magnicia le puntificati muoras, monette vidicatio ma

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the district manner per percent spans. On more than a result we prove the children utilization for the most district mark, consections of placing sit. In has habitases plates dictanet. Integer temper convolids sugue. Exim facilities Nune elementum formentum with. Annean placenat. Ut impecfat, enim see gravidas sollicitudin, felic odio placenat quan, as pairinar elit purus eyet enim.

#### Chapter 1

#### Foo

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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

#### Foo

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FIRTURE. Non del ligida, fringilla a, estimand sociales, millétradia sel, nici. Mort autori farem son juno. Nom heres Breen, puedien at, lobertie vitas, ubricie et pellus. Donce aliquet, tertre sed accusson liberadam, rest ligida alique magas, vitas cenare sello autris a mi. Morti ar ent et aid heachert na life. Supparaliment na monte, orne nee autre. Polituresque a mille. Com soci materpe permethere et magnic disparatives transien, montere premethere et magnic disparatives transien, montere trification and

Notin audemach partiture dans. Denne feller ext., remper non, verlagest at their destricture tristicape. Serv. Versams viewer for servers from European publications gain. Phaselina offspieling semper olf.: Protice formerstern means as publication and the server for the server

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#### Chapter 1 Foo

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### \afterchapternum과 \midchapskip 예시

\setlength\midchapskip{20pt}

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

Chapter 1

Foo

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man de l'acceptant de

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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

#### Foo

Larma jepus delar di anet, emercature elipteia qui. Di prare dita serbi sun qi-kurura qu. Apploique que, fille Carakhri detrasa gratida marie. Non arca Hann, numanure quet, numeritare il, vilgataria exalti sirlega sentente di chianti agni prare proposita marie. Non arca Hann, pramanure pretta montre di chianti anchi tiridipen sentente el rifaces sono. Non arca del ristra vendiciona giura rifacia maria trincia sono. Non del ristra vendiciona suna fringilia strince. Plancitare en tribace sono. Nolla el tenta vendiciona suna fringilia strince. Plancitare del riface si une tretta pregolia depontar. Lienge espos est, lancita principa del riface del ristra del ristra

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#### Chapter 1

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#### Chapter 1

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# Case Study

### Griffiths: Introduction to Electrodynamics

