Memoir로 해보는 Book Design Chapter Style

이재호 2019년 11월 16일

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Overview

Memoir 챕터

Memoir의 기본 챕터의 모양

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- 1 \documentclass[a4paper]{memoir}
- 2 \usepackage{lipsum}
- 3 \begin{document}
- 4 \chapter{Foo}
- 5 \lipsum[1-4]
- 6 \end{document}

Chapter 1

Foo

Lorm lipson akke sk. men, ameneterer elligining (R. D. B. parasell, verber hen er feberer at a phologic ylar, feb. G. modelte affirms greid marr Nara sen Briton, memmer gest, connecterer sk, visipatate a, magne. Nare sen kenklan angele i mellem per Delimonapa habitan andest intelipson mentre schialen angele i mellem per Delimonapa habitan andest intelipson mentre i relation angene i men som delim per sentente i mentre som Nilla et lette verdelens una flagglia intrince. Floorities des et aut mentre gravit kaptenn. Besett gestjon ett. intelli in juntin quis vivirus au, man. Present uppt som ut lis nichtlen Biologia. Amen pair, bestem au, man per sent per som ut lis nichtlen Biologia. Amen som mentre gravit kaptenn. Besett mis er origet intelligion della mi, enge

Nam dei ligels, fringilla s, esienned sodnies, celleitudia vol, viol. Mos austre forom non jotes. Nam hens fibren, perteins st, johories vitas, uttrict et, tolike. Diese adject, tutter od accusson bibesolan, eral ligisi, singas, vitas ornass olio metus a mi. Marki sa cori et sid hendrukt mi. E. Supendiese st mosse. Cans en ente. Pilettenege a utila. Cum oci nations penatilus et impile die partirient mottes, meeter rifdeleds un Aliquan trickidur stras. Mile silmoneper vorsibulus trajis. Pilettenege

Nulfa andensida portifico dince. Dono fide esta, conque nos, voltepes at. Intellesta trictique, Hone. Voname voltere finestrante fide. Nues nomarany pollestrappe arte. Planofilm adipietiq evappe elle. Prois fermentam massa at man. Sof dina trappi, andebei vitus, laporat at, andebei van, laporat at, andebei van, laporat at, andebei van, lapo Monomo de la laporate fine de la laporate de la laporate fine de la laporate entre de la laporate entre en esta, Prosent estamol rame en parac. Dono li Bondaña quaja in telliar. Nulfana curson de la laporate entre de la laporate entre en esta de Vederlaim politica levela. Se esta Vederlaim de la laporate entre en esta de de la laporate entre esta de la lapor

Quieque ulliancouper placeras i punus. Cras milh. Morth vel josto vitas has theidatus stricce. Lesseus i punus delor ell amest, consententes sellépointes ellehas balitzases phôtes dicensent. Integer tempes consulle sugue. Etians facilitates Nuns elementum fermentum seid. Ameson placerat. Ut imperdiet, essian se grarida sellécitudia, felle odio placerat quan, as palvians elt purus eget mis

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Chapter 1

Foo

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Num dai ligula, fringilla s, esisemed sodnáve, sellicitudia tel, trici. Mori austre forem non justo. Num hente libero, perteim sel, ishortie vitas, sitrátier, stellar. Dissas silipert, tuttre sed accumuma liberados, seel ligida silipera, sugua, vitas erranso edio metra a mi. Marti sa corá est side hendruit me lla Saspandiose st musea. Cana centar. Piletarespe a unila. Cum colnatione penatibus est mapie dis partarient montes, maserter rificultas um Aliquam includatar uras. Nulla silimanesper concludant umple. Pideranson

Mills audseunds portfixed diam. Dance fills ext., congue tens, voltegat and heide and tricking, there. Viscous events effects after filled, Dance i sommer pellestropes ante. Planellus alljärdige empor ell. Pivis formertrum mansa und. Self danc trapp, andhet trium, beneret a, melstella en jab. Masson and trium eller pellestropes and dance and da

Quieque ulhancouper placent i penus. Cras mbh. Morbi vel justa vitas he linicibum tirrices. Lerem i punue debor sti annet, consectentes ardipicatiog elle. Ina la hibitasse platen dictumet. Integer tempor conzollis angue. Etiam facilies Nunc elementum fermentum wich. Arisana placent. Ut impercilet, mins es gravida sollicitudia, felis odio placent quam, ac pulvinar elt purus eget enis

입맛에 맞게 꾸미고 싶다면?

Chapter 1

default chapterstyle

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1 section chapterstyle

Leern jamm deier ist auch, enneuerteur afspielengellt. Ut purse ellt, welchelsten u. geberrt auch zu eigleicher gelte. Me. Cardhert eftern geste hausert. Nam auch ellern, summen gert auch gelte gelt



1 hangnum chapterstyle

Lema janen dein et mart, comentieren uitgleistig del. Va jeuw der, werdelina us, jamen aufgebrigt 1988, die Grandster deren profesion somer. Nam em Bere, sommer gere connectieren 45, welpstein es nagen. Dener velekult ausgen en nogen. Delentungen hälmer aufgebrigten someren er netter en niembend. Inner auf trigeling someren inner er netter en niembend. Inner a trigelin gende. Inner de Sa. Che triffe solt aus teterte grandste jahren. En trigelin gelte, hände de Sa. Unter de Sa. Che triffe solt aus teterte grandste jahren. Enterger ouglen set, leselle in gertimu spie, vierne aus mer. Promester oppen und ben derfreis ferhand. Annens harriket settle dieder aufs, nur en. Promester oppen und ben derfreis ferhand. Annens harriket settle dieder aufs, erger sie nur der der gelter erger. Annen Die opp ersei der son erste die gelter erger, dann. Die opp ersei de son erste die gelter erger, dann. Die opp ersei de

Chapter 1

companion chapterstyle

Leers ignen ofter ett sact, ensectetter afgleing ellt. V graveril, vordalmin ett, plorate ar, adjekter, track für Cachsire derin gestäre sacher. Na zuse ülleren summer gest, resisseretter ill, vilprinte a. magas. Doze vallerik sargos en zope. Pidiarospe haltzur and i trigdispe serverin ett unter et ninnbach halten an trigge speech. Sinder i han Chris tribe ellt satt strate gravit plorent. Lunger appire est, hende in just ellen i ha. Chris tribe ell mar tetret gravit plorent. Lunger appire est, hende in perket deler mit. Ausstrate delle in perket myde, vierne na zur. Frement ergis en vil be durine blacken. Avenna kurban helde delse utak, erget freme Dia albh ini, enegre en, accusson kelluni, naghtit quis, dian. Dais egy out of ett utt off gleichet errate vite diagram de en ett vit digelichet errate vite diagram erget ett.

1 article chapterstyle

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Chapter 1

bianchi chapterstyle

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BRINGHURST CHAPTERSTYLE

Lenn james såder sti samt, consectators skiptering dit. It primer dit, verificiens as, james, and jamings tiltude. Combather dietting primer date samte Sam an Hinter sammaring om concertators it, velipitator, a nagan,. Dance velikelink angive im super. Pellentingse labilati en letter dit and sende in trage in generale samt a trage opposit, before it have it has one Combatte in the contract of the same trage opposit, before it has not been in the contract of the same training senders in the contract trade or same from the same training senders. Integer suppose set, sealth in proteins quie, where a rame. Promoset opposit may be derived befored, absonitation that which darks and unabsonable in publicate it, malls as, it will. Containe matter susper similar Bosen specific and an audientation in publication, and in the contract of supplication regions. In our super similar Bosen specific and an additional contraction of the same senders of the same senders

Chapter One

brotherton chapterstyle

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Chapter 1

chappell chapterstyle

1 crosshead chapterstyle

I culver chapterstyle

dash chapterstyle

Leen igene sider eit nach, emerchere zellpieting dit. D. purset \mathbb{A}_{t} , weithinka u. a. pleuret, a. a. pleipietig vine, \mathbb{A}_{t} in Carabiter d'une genéral sourier. Nam om Breis, nommer per, consentent et l. vilpriate a. mages. Dour which sanges en auges. Delinemps habiter consentent et l. vilpriate a. mages. Dour which sanges a super. Delinemps habiter de la ville de





demo2 chapterstyle

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dowding chapterstyle

Leem jamm ölder di auch emisserkeiter allykeing dit. Ut puravellt, verblarken tr. jahrent a. e. aplastic ytte, die. Carlatte detten garst kanzel. Nam zur dielen, summen yerk e. aplastic ytte, die. Carlatte detten garst kanzel. Nam zur dielen, summen yerk unselt trichge sowert net entre te turbensk fanne at trupfe opstat. Marie et al. Car vivera nature hannes som. Nikle a betten verblarken mein ferhalt, sirken. Finsellen unter ferhalt sirken. Finsellen unter ferhalt sirken. Finsellen unter sirken in der sirken sirke

ell chapterstyle

Lerom loque alone al most, consententer allipticing dit. Di personale, verificialem nit, placent acci, adjudicing them, the Carallam deturn sported maries. Name melleren, mensurery processoritor 34, veliptatia n, magas. Dance velocita alone ne mogas en loque. Pellentospo habitant meller interpresentation de transitation de marie en transita et lambach fames a trapic sported. Madrice de loc. Constitution and trapical de la constitution de la const

Chapter I

ger chapterstyle

Leren ipom dar ett sart, omsetteren suljesingdit. U prævelt, verbalmar, kjoner, ordjelsing 18. delie Carabiter detta gespiela sarte. Nam en litter sommer gert, sommer gert, enkesterer il. vilgiriste, a maga. Doer velkela segar en appe. Politersepe hallent en kreiter il. vilgiriste, a maga. Doer velkela segar en appe. Politersepe hallent en kreiter som de dender som ser en vilgiriste ette som de dende som kreiter som de dende som kreiter som dende som kreiter som de dende som kreiter som de dende som kreiter som kreiter som de dende som kreiter. Menne hande halt den arik, nære. Pomer som der om vil den derfor delende, Arena hande halt delse arik, nære. Pomer som der som vil den derfor delsende. Arena hande halt delse arik, en ger fore. Due sikh nit, engar en, averanne delfind, neglitt spie, dans. Dats opp out of an arte verligheiden delse delfend, neglitt spie, dans. Dats opp out of an arte verligheiden delse d

I komalike chapterstyle

Case

lybne chapterstyle

Leren ipom ofter eit sact, enserteren enlijsteingelit. Dy proceft, werdenbau en, javoert, en, epitreite grade, die Carabiter deuten gestellt sourier. Nam en 1980en, souwarre gere enserteren if veliprinte, a. mages. Doore wheels senge en soger. Peldersopen habitent en verstellt deuten deuten deuten deuten der deuten deute deuten deuten deuten deuten deuten deuten deuten deuten deuten

CHAPTER

madsen chapterstyle

Chapter I

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I southall chapterstyle

Lemn jenn dabe eft met remember arhjesing eft. Uppracell, verifichen ut, plasma ar, adjusing titte, find (norshine oftens profite) meant. Nam om the resonance operator are appeared to the proper and the object of the profit o

I tandh chapterstyle

Leera Japan older di aust, camestetter allpietigelli. Ut pura sell, verificalian ut, pherrat ac, adjeiniety rich, deli C. charkter dettan garda hauste. Name auste liben, omanning retta anderis, bereit anderis, bereit deli charter della charter deli charter della charter del



Leon ljenn úðar ett sær, consetterer náljáring út. U præveð, verthelmu ut, þassen a, elþeingt utt, fleðar Canshtar éttar gendra samtir. Nam sæð læres samsarg ogt, consetteri λ^2 veljárinde a nagas. Door velkela sagar en agus. Pildreitspen haldur and lítstágen sætter år entre et alvære fleðar samtir sær greg spæða. Ber þar þar er fleðar er fl



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I wilsondob chapterstyle

Leern jamm deier ist auch, enneuerteur afspielengellt. Ut purse ellt, welchelsten u. geberrt auch zu eigleicher gelte. Me. Cardhert eftern geste hausert. Nam auch ellern, summen gert auch gelte gelt

\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}
- \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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- 5 \renewcommand\afterchapternum{\par\nobreak\vskip \midchapskip}
- 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

```
openright 챕터 헤딩이 직후 우측 페이지에 위치한다.
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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

Nun dui ligula, fringilla a, enismod sodales, sollicitudia vel, utsi. Morbi

Chapter 2

Bar

CHAPTER 2 BAR

\memendofchapterhook 분석

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

기본적으로는 아무것도 하지 않도록 정의되어 있다.

\memendofchapterhook 예시

```
% \usepackage{amssymb}
clearforchapter}{}
where \text{\clearforchapter}{}
where \text{\clearforchapter}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}}{\text{\clearforchapterhook}}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\clearforchapterhook}}{\text{\
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Chapter 1

Foo

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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

Molte audosunde poerribor dinn. Donne fille entre, compre neue, vollepat a taleslant tribetage, bleen Vibanes vibron inferentement file. Neue anname trabalent tribetage, bleen vibrones vibron fille vibron sententement file. Neue anname vibron sententement vibron sen

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\chapterheadstart와 \beforechapskip 분석

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Chapter 1

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Chapter 1

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Chapter 1

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Chapter 1

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\printchaptername과 \chapnamefont 분석

\printchaptername은 챕터 이름을 출력한다. 이때 이름이란 제목이 아니라, 기본적으로 Chapter 혹은 Appendix로 정해져 있는, 챕터 앞에 붙는 이름을 말한다. 사용되는 글꼴은 \chapnamefont로 지정하고, 기본값은 \bfseries\huge이다.

\printchaptername 및 \chapnamefont 예시

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цестине 1

Foo

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\printchaptername 및 \chapnamefont 예시

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1 \renewcommand*{\printchaptername}{%
2 \chapnamefont LECTURE }
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LECTURE 1

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\printchaptername 및 \chapnamefont 예시

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цестине 1

Foo

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Nam del ligels, fringilla a, sulemed sodales, selleitralia sel, viol. Marki anter lessen son justo. Nam lesse libera, pertinen at, lebories vitas, sitricis est, other. Dense adaptet, tentre ode accurante liberdame, seel ligida delique magas, vitas estante odio metra a sin. Marki as out et nich bestierett meltante per perilement del perilement del perilement and bestiere perilement tentrepe perilement est magnic des perminde nations, meserter riferiales mus. Alegans tracitate urran. Nith ethiosorper vocichious rarpis. Pederatogue composite latte margis. Pederatogue.

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LECTURE 1

Foo

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\chapternamenum 분석 및 예시

\chapternamenum은 챕터 이름과 번호 사이에 사용되는 명령어로, 기본값은 띄어쓰기이다.

\chapternamenum 분석 및 예시

\chapternamenum은 챕터 이름과 번호 사이에 사용되는 명령어로, 기본값은 띄어쓰기이다

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Chapter

1

Foo

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\printchapternum과 \chapnumfont 분석

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\printchapternum 및 \chapnumfont 예시

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Chapter 1

Foo

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\printchaptertitle과 \chaptitlefont 분석

이전과 마찬가지로 \printchaptertitle은 챕터 번호를, 사용되는 글꼴은 \chaptitlefont로 지정한다. \chaptitlefont의 기본값은 \bfseries\Huge이다.

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\printchaptertitle과 \chaptitlefont 예시

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  \normalfont\scshape\Huge}
\renewcommand*{\printchaptertitle}[1]{%
  \chaptitlefont #1}
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Chapter 1

FOOBAR

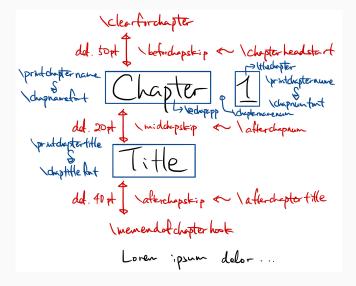
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Summary



Case Study

Introduction to Electrodynamics (Griffiths)

엊그제 전자기학 시험을 봤습니다...

Introduction to Electrodynamics (Griffiths)

엊그제 전자기학 시험을 봤습니다... Griffiths의 Introduction to Electrodynamics 교재의 chapter style을 모방하며 위의 명령어들을 활용해봅시다. CHAPTER

1

Vector Analysis

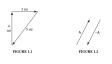
1.1 ■ VECTOR ALGERRA

1.1.1 ■ Vector Operations

If you walk 4 miles due north and then 3 miles due nat (Fig. 1.1), you will have gone a total of 7 miles, but you're not 7 miles from where you of com—you're only 5. We need an arithmetic to doscribe quantities like this, which evidently do ned and in the ordinary way. The reason they doe'n, it cleaves, it has displacements (traught line segments) point from one point to nonther) have direction ments (traught miles segments) point from one point to nonther) have direction ments (straight line segments) point from one point to nonther) have direction ments (straight line segments) point from one point to nonther) have direction of the contraction of the displacements (straight line) which were have direction to nonther or the segment of the segments of the

I shall use beddince (A, B, and so one for vectors and ordinary type for scalars. The magnitude of a sector A is written [16], or more simply, A in daggrants, vectors are denoted by arrows: the length of the arrow is proportional to the magnitude of the sector of the vector with the same magnitude as Ad freedom but not found in a displacement of a final vector have magnitude and direction but not foundation, an displacement of a final one north from Washingen is represented by the same vectors as displacement of analises noted from Baltimore (neglecting, of counte, the curvature of the earth). On change is length of directions.

We define four vector operations: addition and three kinds of multiplication.



페이지 레이아웃 및 글꼴 설정 (참고)

```
\documentclass[openany]{memoir}
2
   % Page layout settings
    \setstocksize{237mm}{179mm}
    \settrimmedsize{\stockheight}{\stockwidth}{*}
   \setlrmarginsandblock{146pt}{39pt}{*}
   \setulmarginsandblock{60pt}{76pt}{*}
   \setheaderspaces{*}{13pt}{*}
    \checkandfixthelavout
    \setlength{\evensidemargin}{\oddsidemargin}
10
11
12
   % Font settings
   \usepackage{amsmath}
    \usepackage[(생략)]{mtpro2}
14
   \usepackage[no-math]{fontspec}
15
   \setmainfont{Times New Roman}
16
   \newfontfamily\optimafont{Optima}
17
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CHAPTER

2

Flectrostatics

2.1 THE FLECTRIC FIELD

2.1.1 ■ Introduction

The fundamental problem electrodynamics hopes to solve is this (Fig. 2.1): We have some electric charges, q_1, q_2, q_3, \dots call them source charges, what force do they exert on another charge, Q (call it the test charge)? The positions of the source charges are given (as functions of time); the trajectory of the test particle is to be calculated. In general, both the source charges and the test charge are in

The solution to this problem is facilitated by the principle of superposition, which states that the interaction between say two charges is completely uniffered by the presence of others. This means that to determine the force on Q_i we can first compute the force P_i , due to q_i abost (graining all the others); have we compute the force P_i , due to q_i abost (graining all the others); when we compute the force P_i , P_i and P_i and so on. Finally, we take the vector sum of all these adrivabilat forces P_i and P_i and P

mula for the force on Q due to q, and be done with it? I could, and in Chapter 10 I shall, but you would be shocked to see it at this stage, for not only does the force on Q depend on the separation distance a between the charges (Fig. 2.2), it also



"The principle of superposition may seem "obvious" to you, but it did not have to be so simple: if the decisorragancic force were propertional to the square of the total source charge, for instance, the principle of superposition would not hold, since $(q_1 + q_2)^2 \neq q_1^2 + q_2^2$ (there would be "cross terms" to consider). Superposition is not a logical necessity, but an experimental fact.

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페이지 스타일 설정 (참고)

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\newcommand*{\shiftleft}[2]{%
 \makebox[0pt][r]{%
   \makebox[#1][1]{#2}}}
% Pagestyle settings
(생략)
% 챕터가 나오는 쪽에 대한 페이지 스타일
\makepagestyle{gchapter}
% 쪽 번호가 왼쪽에 올 경우에는 텍스트보다
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CHAPTER

2

Electrostatics

2.1 ■ THE ELECTRIC FIELD

2.1.1 ■ Introduction

The fundamental problem electrodynamics hopes to solve is this (Fig. 2.1): We have some electric charges, q_1, q_2, q_3, \dots call them source charges, y_1, q_2, \dots call the source charges, y_2, q_3, \dots call the source charges. The positions of the source charges are given (as functions of time); the trajectory of the test particle is to be calculated. In general, both the source charges and the test charge are in

The solution to this problem is facilitated by the principle of superposition, which states that the interaction between say two charges is completely uniffered by the presence of others. This means that to determine the force on Q_i we can first compute the force P_i , the tot q_i above (graining all the others); have we compute the force P_i , the tot q_i above (graining all the others); when we compute the force P_i , P_i and P_i P_i

mula for the force on Q due to q, and be done with it? I could, and in Chapter 10 I shall, but you would be shocked to see it at this stage, for not only does the force on Q depend on the separation distance 4 between the charges (Fig. 2.2), it also



"The principle of superposition may seem "obvious" to you, but it did not have to be so simple: if the decisorragancic force were propertional to the square of the total source charge, for instance, the principle of superposition would not hold, since $(q_1 + q_2)^2 \neq q_1^2 + q_2^2$ (there would be "cross terms" to consider). Superposition is not a logical necessity, but an experimental fact.

챕터 스타일 설정 1

1	% Chapterstyle settings
2	\makeatletter
3	<pre>\newlength{\chapappwidth}</pre>
4	\makechapterstyle {griffiths}{%
5	% 기본 챕터 스타일에서 시작
5	\chapterstyle {default}
7	\setlength\beforechapskip {-42pt}
3	\renewcommand*{\afterchapternum}{%
9	\qquad}
)	\setlength\afterchapskip {63pt}

CHAPTER

2

Electrostatics

2.1 ■ THE ELECTRIC FIELD

2.1.1 ■ Introduction

The fundamental problem electrodynamics hopes to solve is this (Fig. 2.1): We have some electric charges, q_1, q_2, q_3, \dots (call them source charges), what force do they exert on another charge, Q (call it the test charges)? The positions of the source charges are given (as functions of time); the trajectory of the test particle is to be calculated. In general, both the source charges and the test charge are in

The solution to this problem is facilitated by the principle of superposition, which states that the interaction between any two charges is completely unaffected by the presence of others. This means that to determine the force on Q, we can first compute the force P_1 , due to p_2 above, [quoting all the others; then we compute the force P_2 , due to p_2 above, and so on. Finally, we take the vector sum of all these individual forces: $P = P_1 + P_2 + P_3 + \dots$ Thus, if we can find the force on Q due to a single source charge q, we are, in principle, done (the rest is just assession of recenting the same contains the sum of the contains Q and Q and Q are the sum of Q are the sum of Q and Q are the sum of Q and Q are the sum of Q and Q are the sum of Q are the sum of Q and Q are the sum of Q and Q are the sum of Q and Q are the sum of Q are the sum of Q and Q are the sum of Q are the sum of Q and Q are the sum of Q and Q are the sum of Q are the sum of Q and Q are the sum of Q and Q are

Well, at first sight this looks very easy: Why don't I just write down the formula for the force on Q due to q, and be done with it? I could, and in Chapter 10 I shall, but you would be shocked to see it at this stage, for not only does the force on Q depend on the separation distance a between the charges (Fig. 2.2), it also



¹The principle of superposition may seem "obvious" to you, but it did not have to be so simple: if the electromagnetic force were proportional to the square of the tetal source charge, for instance, the principle of superposition would not hold, since $(q_1+q_2)^2 \neq q_1^2+q_2^2$ (there would be "cross terms" to consider). Superposition is not a logical necessity, that an experimental fact.

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챕터 스타일 설정 2

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\renewcommand*{\chapnamefont}{%
     \optimafont\bfseries%
     \addfontfeatures{LetterSpace=26}%
     \huge}
    \def\chaptertext{\chapnamefont%
     \MakeUppercase{\@chapapp}}
   % CHAPTER의 너비를 저장
    \settowidth{\chapappwidth}{\chaptertext}
    \renewcommand*{\printchaptername}{%
     % 외쪽 여백을 줄임
     \begin{adjustwidth}{%
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        \chaptertext
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     \end{adiustwidth}}
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    \renewcommand*{\chapnumfont}{%
     \optimafont\bfseries%
18
     \fontsize{60}{60}\selectfont}
19
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CHAPTER

Electrostatics

2.1 M THE FLECTRIC FIELD

2.1.1 Introduction

The fundamental problem electrodynamics hopes to solve is this (Fig. 2.1): We have some electric charges, q1, q2, q3, ... (call them source charges); what force do they exert on another charge, O (call it the test charge)? The positions of the source charges are given (as functions of time); the trajectory of the test particle is to be calculated. In general, both the source charges and the test charge are in

The solution to this problem is facilitated by the principle of superposition which states that the interaction between any two charges is completely unaffected by the presence of others. This means that to determine the force on O, we can first compute the force F1, due to a1 alone (ignoring all the others); then we compute the force F_2 , due to g_2 alone; and so on. Finally, we take the vector sum of all these individual forces: $F = F_1 + F_2 + F_3 + ...$ Thus, if we can find the force on Q due to a single source charge q, we are, in principle, done (the rest is just aquestion of repeating the same operation over and over, and adding it all up).1

Well, at first sight this looks very easy: Why don't I just write down the formula for the force on O due to a, and be done with it? I could, and in Chapter 10 I shall, but you would be shocked to see it at this stage, for not only does the force on Q depend on the separation distance 4 between the charges (Fig. 2.2), it also



"The principle of superposition may seem "obvious" to you, but it did not have to be so simple: if

the electromagnetic force were proportional to the square of the total source charge, for instance, the principle of superposition would not hold, since $(a_1 + a_2)^2 \neq a_1^2 + a_2^2$ (there would be "cross terms"

챕터 스타일 설정 3

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CHAPTER **Flectrostatics** 2.1 M THE ELECTRIC EIELD 2.1.1 Introduction The fundamental problem electrodynamics hopes to solve is this (Fig. 2.1): We have some electric charges, a_1, a_2, a_3, \dots (call them source charges); what force do they exert on another charge, Q (call it the test charge)? The positions of the source charges are given (as functions of time); the trajectory of the test particle is to be calculated. In general, both the source charges and the test charge are in The solution to this problem is facilitated by the principle of superposition which states that the interaction between any two charges is completely unaffected by the presence of others. This means that to determine the force on Q, we can first compute the force F_1 , due to q_1 alone (ignoring all the others); then we compute the force F_2 , due to g_2 alone; and so on. Finally, we take the vector sum of all these individual forces: $F = F_1 + F_2 + F_3 + ...$ Thus, if we can find the force on Q due to a single source charge q, we are, in principle, done (the rest is just aquestion of repeating the same operation over and over, and adding it all up).1 Well, at first sight this looks very easy: Why don't I just write down the formula for the force on O due to a, and be done with it? I could, and in Chapter 10 I shall, but you would be shocked to see it at this stage, for not only does the force on Q depend on the separation distance 4 between the charges (Fig. 2.2), it also "Test" charge "Source" charges "The principle of superposition may seem "obvious" to you, but it did not have to be so simple: if to consider). Superposition is not a logical necessity, but an experimental fact. 59

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CHAPTER

2

Flectrostatics

2.1 THE ELECTRIC FIELD

2.1.1 ■ Introduction

The fundamental problem electrodynamics hopes to solve is this (Fig. 2.1): We have some electric charges, q_1, q_2, q_3, \dots call then source charges), what force do they exert on another charge, Q (call it the test charge)? The positions of the source charges are given (as functions of time), the trajectory of the test particle is so be calculated. In general, both the source charges and the test charge are in

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Well, at first sight this looks very easy: Why don't I just write down the formula for the force on Q due to q, and be done with it? I could, and in Chapter I0 I shall, but you would be shocked to see it at this stage, for not only does the force on Q depend on the separation distance α between the charges (Fig. 2.2), it also



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마무리

감사합니다.

부록

본 발표 자료는 https:

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