

ModernCS

Full Documentation

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Abstract

ModernCS is an attempt at a modern, beautiful cheat sheet class for \LaTeX . It aims to drastically simplify the creation of attractive and easy to navigate cheat sheets. Besides redefining core concepts like sections and subsections, the class also offers new commands for common tasks such as writing boxed equations or visually distinct textual definitions. In addition, a total of ten stunning color schemes along with other options such as the page orientation are contained within modernCS as well.

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1 Introduction

After its initial creation in September 2017, modernCS has already seen many additions, improvements, and bug fixes. It is now stable and currently in use for lots of different cheat sheets already. Using modernCS enables cheat sheet authors to fully focus on the content (as is the case with the more standard classes in \LaTeX) and removes the obstacles of design, structure, and general layout decisions. This is accomplished by providing the user with a simple set of tools (such as a redefined section command for example), which boosts focus and improves productivity. Figure ?? offers a quick preview of a cheat sheet created with modernCS using the default color theme.

1.1 Dependencies

ModernCS explicitly requires the following packages:

multicol	Classic cheat sheet layout with multiple (3 by default) columns
etoolbox	Toolbox aimed at package and class authors which provides certain hooks (e.g. <code>AtBeginDocument</code>) which are used to begin and end a multicol environment
geometry	Easy and flexible user interface to customize page layout (set orientation, reduce margins, etc.)
xcolor	Used to define the custom color schemes for section and subsection titles
titlesec	Customize all non-color related aspects of section and subsection titles
titling	Make a custom title area fitting for a cheat sheet
enumitem	Redefine spacing for itemize and enumerate environments
fontawesome	Use of Fontawesome icons in the title area (e.g. Twitter logo)
hyperref	Turn icons in title area into clickable links
mdframed	Create framed boxes like the textual definition box with a light gray background
empheq	Generate more visually attractive boxed equations
tcolorbox	Supports styling options for boxed equations

1.2 Installation

In principle, using the class is as simple as copying the `modernCS.cls` file in the same folder as the `CheatSheet.tex` file and referencing it by starting the document with `\documentclass{modernCS}`. You might however want to place these files within a more general directory accessible to your LaTeX distribution of choice, such that you only have one copy of the files on your system even if you have multiple cheat sheets in multiple folders. This also allows you to just change the files in one central location once a new version is released. The steps necessary to accomplish this vary depending on your LaTeX distribution and operating system. A quick google search should enable you to do this in a few minutes.

1.3 Simple Example

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2 Features

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2.1 Presets

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2.2 Class Options

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Name of Color Scheme	Color 1	Color 2	Color 3
Red	#B71C1C	#E53935	#E57373
Green	#1B5E20	#43A047	#81C784
Blue	#0D47A1	#1E88E5	#64B5F6
Purple	#4A148C	#8E24AA	#BA68C8
Autumn	#8C4646	#D96459	#F2AE72
Maritime	#00293C	#1E656D	#4D648D
Cosmopolitan	#8593AE	#7E675E	#DDA288
Nature	#688B8A	#A0B084	#A57C65
Urban	#232122	#A5C05B	#7BA4A8
Classy	#36454F	#488A99	#DBAE58

2.3 Commands

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2.4 Customizing Class Settings

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