



Reporti: TI-Inspired LATEX Template.

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LaTeX Template

Content

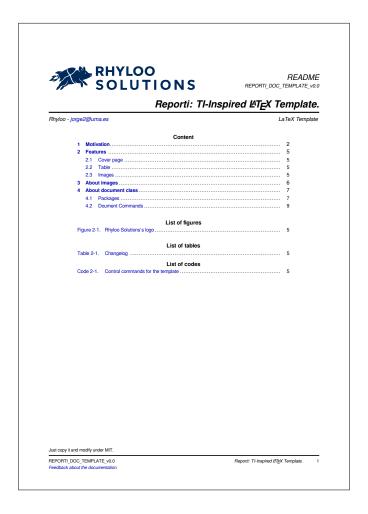
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1. Motivation

At college I read lot of documents about electronics. One of my favorites was *Op Amps for everyone* from Texas Instruments (TI). If you take a moment to analyse the documents in the TI_Examples folder from this repository, you will agree with me that they are really well done, with great content and a nice design. So, after some time, I found free time to write a LATEX template. To be honest with you, I don't use LATEX in my company, and I am not sure if it's used anywhere else, but maybe I or future generations will have to write lab reports or notes for some crazy school project. :D

So, here is the first version of Reporti, a Texas Instruments-inspired LaTeX template for you all.



Warning

I had the great idea of use the template for self documentation and I like to write in org-mode because my website run under it. So I can leverage this file for my website.

To sum-up this README file has the full package inside thanks to org-babel, it works like jupyter notebooks but for any language (LaTeX, C, HTML and obviously python too).

So sorry if it is a mesh on github, I recommend you read README.pdf



2. Features

2.1. Cover page

Just trying to keep it simple. A .cls file based on report class.

About features, the cover can be customize with the next commands: Check 2-1.

```
\documentclass[draft]{reporti}
\cover[width=1.35\textwidth][continue]
\type{Name of doc type}
\code{Project Number/Code} % For more info. Look for naming conventions
\titulo{Project title}
\autor{Author}
\subtitulo{Subtitle}
\resumen{Summary}
\notes{Some notes in Cover}
\contact{Contact footnote}
```

Code 2-1.: Control commands for the template

2.2. Table

Table 2-1: Changelog

Version	Description	Author
v0.0	Initial release	Rhyloo

2.3. Images



Figure 2-1: Rhyloo Solutions's logo



3. About images

The file Logo-EII-horizontal.pdf doesn't have any type of LICENSE on the web. As master's student I can use, maybe you don't, be careful with it.

I am really interested in naming conventions applied to projects. I think is the first part of a good story, I define two names the first is common use and the second is like a code, i.e Fat-Man is the bomb, but if I said Fat-Man-DOC-123HAJK123

Do you have one for owns?? Explain in comments and discuss the best :D

Examples:

- Texas Instruments have names like: TAS5518-5261K2EVM. According to Deepseek
 - TAS: Indicates a Texas Instruments Audio Solution
 - 5518: The specific model number of the IC.
 - 5261: A code unique to the EVM design
 - K2: Likely denotes a revision or variant of the EVM
 - EVM: Standard suffix for Evaluation Module

IMO is the first part of a good story like "MarkII" or "Apollo"



4. About document class

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesClass{reporti}[Template LaTeX based on Texas Instruments note application documentation.]
\LoadClass[10pt, a4paper, twoside]{article}

\DeclareOption{draft}{
    \PassOptionsToPackage{draft}{graphicx}
    \AtEndOfClass{\usepackage{draftwatermark}\SetWatermarkText{DRAFT}}}
}
\DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
\ProcessOptions\relax
```

4.1. Packages

I added package geometry becuase I need to config headheight, and page geometry:

Encabezados/pies de página. I defined two styles.

- 1. mainstyle: Used for full document elaboration
- 2. tocstyle: Used by tocs.

\fancyhf{}



```
\renewcommand{\headrulewidth}{2pt}
 \renewcommand{\footrulewidth}{1.5pt}
 \ifdefvoid{\@logo}{}{%
   \fancyhead[RE,L0]{\includegraphics[height=2em]{\@logo}\par
     \href{www.rhyloo.com}{www.rhyloo.com}}
 \fancyhead[LE,R0]{}
 \fancyfoot[LE]{{\fontsize{8}{35}\selectfont \thepage \hspace{0.8cm} \itshape\@title}}
 \ifdefvoid{\@contact}{\fancyfoot[RE,LO]{{\fontsize{8}{35}\selectfont \ifdefvoid{\@projectcode}{}{\@pro
   \fancyfoot[RO]{{\fontsize{8}{35}\selectfont \itshape\@title \hspace{0.8cm} \thepage}}
\RequirePackage{xparse}
                             % Para comandos avanzados
\RequirePackage{xcolor}
                             % Manejo de colores
\RequirePackage{titlesec}
                             % Estilos de secciones
\RequirePackage{graphicx}
                            % Manejo de imágenes
\RequirePackage[english]{babel}% Localización
\RequirePackage{hyperref}
                             % Hipervinculos
\hypersetup{
   colorlinks = true,
   linkcolor = blue!70!black,
   urlcolor = blue!70!black,
   citecolor = green!60!black
}
\RequirePackage{fontspec}
                             % Fuentes modernas
\setmainfont{FreeSans}
\RequirePackage[export]{adjustbox}
\RequirePackage{datetime2}
                            % Manejo de fechas profesional
\RequirePackage{etoolbox}
                             % Utilidades de macros
\RequirePackage{tabularx}
\RequirePackage{float}
\RequirePackage{booktabs}
\RequirePackage{multirow}
\RequirePackage[titles]{tocloft}
\RequirePackage[tableposition=above]{caption}
\RequirePackage[figure,table]{totalcount}
```



```
\RequirePackage{xstring} % Add near the top of the file
\RequirePackage{underscore}
\RequirePackage{longtable}
\RequirePackage{wrapfig}
\RequirePackage{rotating}
\RequirePackage[normalem] {ulem}
\RequirePackage{amsmath}
\RequirePackage{amssymb}
\RequirePackage{capt-of}
\RequirePackage[newfloat,outputdir=./build]{minted}
\usemintedstyle{emacs}
\newlistof{listing}{lol}{\hfill\bfseries\normalsize List of codes\hfill}
\RequirePackage{caption}
\newenvironment{code}{\captionsetup{type=listing}}{}
\SetupFloatingEnvironment{listing}{%
 name={Code},
 fileext=lol}
\renewcommand{\cftlistingpresnum}{Code~}
\renewcommand{\thelisting}{\arabic{section}-\arabic{listing}.}
\setlength{\cftlistingnumwidth}{5em}
\RequirePackage[most] {tcolorbox}
% Configuración de datetime2 para español
\DTMsetup{useregional=numeric}
\graphicspath{{figures/}{figures/logo/}}
```

4.2. Doument Commands

```
\newcommand{\@metadata}{} % Registro de metadatos
\NewDocumentCommand{\autor}{m}{%
   \def\@autor{#1}%
   \listadd{\@metadata}{Autor: #1}%
}
\NewDocumentCommand{\fecha}{O{\DTMtoday}}{%
   \def\@fecha{#1}%
   \listadd{\@metadata}{Fecha: #1}%
}
\NewDocumentCommand{\summary}{m}{%
   \def\@summary{#1}%
   \ifx\@summary\@empty\else
        \gappto\@afterabstract{\@printsummary}%
   \fi
```



```
\NewDocumentCommand{\subtitle}{m}{%
   \def\@subtitle{#1}%
   \listadd{\@metadata}{Subtítulo: #1}% % Opcional: para mostrar en metadata
\NewDocumentCommand{\type}{m}{%
   \def\@type{#1}%
   \listadd{\@metadata}{Type: #1}% % Opcional: para mostrar en metadata
\NewDocumentCommand{\projectcode}{m}{%
   \def\@projectcode{#1}%
   \listadd{\@metadata}{Projectcode: #1}% % Opcional: para mostrar en metadata
\NewDocumentCommand{\notes}{m}{%
   \def\@notes{#1}%
   \listadd{\@metadata}{Notes: #1}% % Opcional: para mostrar en metadata
\NewDocumentCommand{\contact}{m}{%
   \def\@contact{#1}%
   \listadd{\@metadata}{Contact: #1}% % Opcional: para mostrar en metadata
\NewDocumentCommand{\toc}{m}{%
   \def\@toc{#1}%
   \NewDocumentCommand{\logo}{m}{%
   \def\@logo{#1}%
   \listadd{\@metadata}{LOGO: #1}% % Opcional: para mostrar en metadata
\renewcommand{\sectionmark}[1]{\markright{#1}}
% --- Redefinir marcas para ignorar subsecciones ---
\renewcommand{\sectionmark}[1]{\markright{#1}} % Actualiza solo \rightmark
\renewcommand{\subsectionmark}[1]{} % Subsectiones no modifican los headers
\pagestyle{mainstyle}
\fancypagestyle{titlepagestyle}{
 \renewcommand{\headrulewidth}{Opt}
 \renewcommand{\footrulewidth}{1.5pt}
```



```
\fancyhf{}
 \fancyfoot[LE]{{\fontsize{8}{35}\selectfont \thepage \hspace{0.8cm} \itshape\@title}}
 \ifdefvoid{\@contact}{\fancyfoot[RE,LO]{{\fontsize{8}{35}\selectfont\ifdefvoid{\@projectcode}{}{\@projectcode}}}}
 \fancyfoot[R0]{{\fontsize{8}{35}\selectfont \itshape\@title \hspace{0.8cm} \normalfont\thepage}}
% =========
% 4. Estilos de Títulos
% -----
\setlength{\voffset}{10pt} % Ajusta según necesidad para evitar warnings
\setlength{\headsep}{5pt} % Ajusta seqún necesidad para evitar warnings
% Definir formato de títulos
\titleformat{\section}
 {\large\bfseries} % Formato del texto
 {\thesection.\hspace{2em}} % Etiqueta: Número + 4em de espacio
                           % Separación entre etiqueta y título
 {Opt}
 {}
                           % Código antes del título
\titleformat{\subsection}
 {\large\itshape\bfseries}
 {\thesubsection.\hspace{1.25em}} % 3em de espacio
 {Opt}
 {}
\titleformat{\subsubsection}
 {\bfseries}
 {\hspace{3.5em}} % 2em de espacio
 {Opt}
 {}
% Ajustar espaciado vertical (opcional)
\titlespacing{\section}{0pt}{12pt}{6pt}
\titlespacing{\subsection}{0pt}{12pt}{6pt}
\titlespacing{\subsubsection}{0pt}{12pt}{6pt}
\newlength{\originalparskip}
% -----
% 6. Cover
% =========
\NewDocumentCommand{\cover}{O{width=0.8\textwidth} O{}}{%
 \begingroup % Grupo local para cambios de espaciado
```



```
% Save the original parskip value
\setlength{\originalparskip}{\parskip}
\renewcommand{\baselinestretch}{0.4} % Ajuste principal (20% más de espacio)
\renewcommand{\parskip}{\originalparskip} % Ajuste principal (20% más de espacio)
\begin{titlepage}
\thispagestyle{titlepagestyle} % <--- Aplica el footer
  % Cabecera con logo y datos institucionales
\ifdefvoid{\@logo}
         {\vspace*{4em}}{}
\noindent\begin{minipage}[t]{0.4\textwidth}
\ifdefvoid{\@logo}
         {}
         {\includegraphics[#1]{\@logo}}
  %% \vspace{-1.5\baselineskip} % Alineación precisa
 \end{minipage}%
  \hfill
  \begin{minipage}[t]{0.6\textwidth}
    \vspace{-2\baselineskip} % Alineación precisa
   \raggedleft
   \ifdef{\@projectcode}{\fontsize{9}{\35}\selectfont\itshape\@projectcode}{}
  \end{minipage}
 \vspace{0.5\baselineskip} % Alineación precisa
 \begin{flushright}
    {\fontsize{18}{35}\selectfont\bfseries\itshape\@title}
  \end{flushright}
  \vspace*{-1\baselineskip} % Reduce espacio posterior
     {\rule{\textwidth}{2pt}}
     \noindent\begin{minipage}{0.7\textwidth}
     \raggedright
     \ifdef{\@author}{%
       {\fontsize{10}{35}\selectfont\itshape\@author}
     }{}
     \end{minipage}
     \hfill
     \begin{minipage}{0.25\textwidth}
     \raggedleft
     \ifdef{\@subtitle}{%
       {\fontsize{10}{35}\selectfont\itshape\@subtitle}
     }{}
     \end{minipage}
```



```
% -----
       % Summary condicional
       % -----
       \ifdefvoid{\@summary}{}{%
         \vspace{0.75cm}
         \hspace{1.75cm}
         \begin{minipage}{13.6cm}
           \begin{center}
             \noindent{\bfseries ABSTRACT}
             \end{center}
           {\fontsize{10}{35}\selectfont\@summary}\par
           {\rule{\textwidth}{1pt}}
         \end{minipage}
       \ifstrequal{#2}{continue}{
         \tocloftpagestyle{titlepagestyle}
         \vspace{0.75cm}
         \hspace{1.75cm}
         \begin{minipage}{13.6cm}
           {\fontsize{9}{35}\selectfont
             \tableofcontents
             \vspace{1em}
             \iftotalfigures
             \listoffigures
             \fi
             \vspace{1em}
             \iftotaltables
             \listoftables
             \fi
             \iftotallistings
             \listoflistings
             \fi}
         \end{minipage}}{}
       \vfill
       \ifdefvoid{\@notes}{}{%
         \noindent\raggedright{\fontsize{8}{35}\selectfont\@notes\vspace{-1\baselineskip}}}
 \end{titlepage}
 \endgroup
 \clearpage
 \pagestyle{mainstyle}
\AddToHook{cmd/section/before}{%
 \clearpage
```



About document class

```
\tocloftpagestyle{tocstyle}
\setlength{\cftbeforesecskip}{0pt}
\renewcommand{\cftsecleader}{\cftdotfill{\cftdotsep}}
\renewcommand{\cftdotsep}{1}% Default is 4.5
\renewcommand{\cftaftertoctitleskip}{2em}
\renewcommand{\cftafterloftitleskip}{2em}
\renewcommand{\cftafterlottitleskip}{2em}
\renewcommand{\cftfigindent}{Opt}
\renewcommand{\cftfigpresnum}{\figurename~}
\renewcommand{\cftfigaftersnum}{.}
\setlength{\cftfignumwidth}{5em}
\renewcommand{\thefigure}{\arabic{section}-\arabic{figure}}
\renewcommand{\cftsecpagefont}{\normalsize}
% List of Tables Customization
% -----
% 1. Set table numbering format: section-table (e.g., 1-1)
\renewcommand{\thetable}{\arabic{section}-\arabic{table}}
% 2. Configure table entries in List of Tables
\renewcommand{\cfttabindent}{Opt}
                                               % Remove indentation
\renewcommand{\cfttabpresnum}{\tablename~}
                                               % Prefix: "Table "
\renewcommand{\cfttabaftersnum}{.}
                                               % Suffix: "."
\setlength{\cfttabnumwidth}{5em}
                                               % Width for table numbers
% 3. (Optional) Set section page numbers in TOC
\renewcommand{\cftsecpagefont}{\normalsize}
                                               % Normal font for section page numbers
\setlength{\parindent}{0pt}
\setlength{\baselineskip}{50pt}
\renewcommand{\baselinestretch}{1.2} % Ajuste principal (20% más de espacio)
\makeatletter
\apptocmd{\@afterheading}{
 \vspace{-0.5\baselineskip}
 \setlength{\parskip}{12pt}
 }{}{}
\makeatother
\addto\captionsspanish{%
```





```
\renewcommand{\contentsname}{\hfill\bfseries\normalsize Contenido\hfill}
\renewcommand{\tablename}{Tabla}
\renewcommand{\listfigurename}{\hfill\bfseries\normalsize Lista de figuras\hfill}
\renewcommand{\listtablename}{\hfill\bfseries\normalsize Lista de tablas\hfill}}
\addto\captionsenglish{%
\renewcommand{\contentsname}{\hfill\bfseries\normalsize Content\hfill}
\renewcommand{\tablename}{\Table}
\renewcommand{\listfigurename}{\hfill\bfseries\normalsize List of figures\hfill}
\renewcommand{\listtablename}{\hfill\bfseries\normalsize List of tables\hfill}}
```