Fancy paragraph designs with the fancypar package

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Abstract
This package offers five predefined decorative styles for text paragraphs of a document; the user can easily control the styles’ attributes using the key-value mechanism. The package also allows the creation of new fancy designs.

Contents

1 Introduction
The fancypar package exploits the “dissecting paragraphs with \lastbox” technique explained in Section 5.9.6 of Victor Eijkhout’s TeX by Topic ([2]) to provide five predefined and easily customizable fancy paragraph styles. New designs can also be easily defined.

The five commands were designed for text paragraphs, so the mandatory argument of the five main commands described in Section 3, page 3 cannot contain, for example, displayed math. By the way, this paragraph was typeset using one of the predefined styles offered by this package.

The author will gladly receive suggestions, comments and bug reports.
2 User Interface

Simply load this package in the preamble of a document (i.e. the part of your document between \documentclass and \begin{document}) in the standard way:

\usepackage{fancypar}

This will make available the five predefined styles, through the commands \NotebookPar, \ZebraPar, \DashedPar, \MarkedPar and \UnderlinedPar, described in Section 3, page 3.

The \fancypar package internally loads the \xcolor package ([3]) without package options. If \xcolor needs to be loaded with some options in a document, then \fancypar must be loaded after \xcolor to prevent a clash.

2.1 Package options

The \fancypar package can also be loaded declaring some package options:

\usepackage[options]{fancypar}

Here (and in what follows) options represents a comma-separated list of key=value pairs\(^1\), controlling some attributes of the predefined styles. The available options are described in Section 3, page 3 (a summary with the default values is shown in Table 1, page 6).

Additionally, for a later change of options, the \fancypar package offers the command \fancyparsetup:

\fancyparsetup{options}

So, for example,

\usepackage[colorone=blue!20,colortwo=red!20]{fancypar}

and

\usepackage{fancypar}
\fancyparsetup{colorone=blue!20,colortwo=red!20}

\(^1\)This feature was implemented using the \xkeyval package ([1]).
will produce the same result. The advantage of \fancyparsetup is that it can be used not only in the preamble but on the body of the document, as many times as required. Even more control can be obtained using the optional argument for the commands \NotebookPar, \ZebraPar, \DashedPar, \MarkedPar, and \UnderlinedPar.

3 Predefined styles

Each of the commands \NotebookPar, \ZebraPar, \DashedPar, \MarkedPar, and \UnderlinedPar described in this section has one mandatory argument: the text paragraph to which the style will be applied to. As mentioned above, each style has some predefined settings which can be changed by using the corresponding options in either the \usepackage or \fancyparsetup commands or individually, by using the optional argument of the corresponding command.

Below is an illustration of the look of the predefined styles, using some placeholder text (see Section 5, page 7).

The notebook style:

But I must explain to you how all this mistaken idea of denouncing pleasure and praising pain was born and I will give you a complete account of the system, and expound the actual teachings of the great explorer of the truth, the master-builder of human happiness. No one rejects, dislikes, or avoids pleasure itself, because it is pleasure, but because those who do not know how to pursue pleasure rationally encounter consequences that are extremely painful.

The zebra style:

But I must explain to you how all this mistaken idea of denouncing pleasure and praising pain was born and I will give you a complete account of the system, and expound the actual teachings of the great explorer of the truth, the master-builder of human happiness. No one rejects, dislikes, or avoids pleasure itself, because it is pleasure, but because those who do not know how to pursue pleasure rationally encounter consequences that are extremely painful.

The marked style:
But I must explain to you how all this mistaken idea of denouncing pleasure and
praising pain was born and I will give you a complete account of the system,
and expound the actual teachings of the great explorer of the truth, the master-
builder of human happiness. No one rejects, dislikes, or avoids pleasure itself,
because it is pleasure, but because those who do not know how to pursue pleasure
rationally encounter consequences that are extremely painful.

The dashed style:

The underlined style:

But I must explain to you how all this mistaken idea of denouncing pleasure and
praising pain was born and I will give you a complete account of the system,
and expound the actual teachings of the great explorer of the truth, the master-
builder of human happiness. No one rejects, dislikes, or avoids pleasure itself,
because it is pleasure, but because those who do not know how to pursue pleasure
rationally encounter consequences that are extremely painful.

3.1 The notebook style

\NotebookPar This command will present the affected paragraph as if it was written in a note-
book. Using the TikZ package ([4]), a spiral is added by default to the notebook
(the spiral can be activated/deactivated using the spiral option). The options
for this command are

\begin{itemize}
\item \texttt{linenolor=⟨color⟩} \quad \text{Color of the notebook's lines.}
\item \texttt{intercolor=⟨color⟩} \quad \text{Color of the rule between lines.}
\item \texttt{textcolor=⟨color⟩} \quad \text{Color of the text.}
\item \texttt{spiralcolor=⟨color⟩} \quad \text{Color of the spiral.}
\item \texttt{interheight=⟨length⟩} \quad \text{Height of the rule used between consecutive lines.}
\item \texttt{spiral=⟨true|false⟩} \quad \text{Activate/deactivate the spiral.}
\item \texttt{ntextwidth=⟨length⟩} \quad \text{Text width inside the notebook (only affects the text).}
\end{itemize}

The syntax is

\NotebookPar[options]{{text paragraph}}

3.2 The zebra-like style

\ZebraPar This command will color every line of the affected paragraph using a two-color
(zebra-like) pattern. The options for this command are

\begin{itemize}
\item \texttt{colorone=⟨color⟩} \quad \text{Background color of the odd-numbered lines.}
\item \texttt{colortwo=⟨color⟩} \quad \text{Background color of the even-numbered lines.}
\item \texttt{textcolorone=⟨color⟩} \quad \text{Color of the text in the odd-numbered lines.}
\item \texttt{textcolortwo=⟨color⟩} \quad \text{Color of the text in the even-numbered lines.}
\end{itemize}
The syntax is

\ZebraPar[options]{⟨text paragraph⟩}

Internally, the counter fancycolor is used to alternate colors for the odd and even-numbered lines, by redefining the command \FancyZColor. A little variation allows to achieve more sophisticated patterns with more than two alternating colors (see Example 4, page 10). By an appropriate redefinition of the \FancyZTextColor, some interesting patterns for the color of the text could also be achieved.

3.3 The dashed paragraph

\DashedPar This command uses the \xleaders TeX primitive to fill the textwidth with evenly spaced copies of a symbol (or “dash”). The options for this command are

dashsymbol=⟨symbol⟩ Symbol to be used as “dash”.
dashcolor=⟨color⟩ Color for the symbol to be used as “dash”.
separation=⟨length⟩ Distance between two copies of the symbol.

The syntax is as follows:

\DashedPar[options]{⟨text paragraph⟩}

3.4 Marking every line

\MarkedPar This command will add a symbol (or “mark”) to every line in the affected paragraph; the options for this style are mark=⟨symbol⟩ (the symbol to be used as the mark) and position=⟨right|left⟩ (the position of the symbol). The syntax is as follows:

\MarkedPar[options]{⟨text paragraph⟩}

3.5 Underlining every line

\UnderlinedPar This command will underline every line of the affected paragraph. The only option for this command is rulecolor=⟨color⟩ which controls the color of the rule used. The syntax is

\UnderlinedPar[rulecolor=⟨color⟩]{⟨text paragraph⟩}
<table>
<thead>
<tr>
<th>Command/Style</th>
<th>Options</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>\NotebookPar</td>
<td>linecolor=⟨color⟩</td>
<td>SlateGray3!80</td>
</tr>
<tr>
<td></td>
<td>intercolor=⟨color⟩</td>
<td>green!20</td>
</tr>
<tr>
<td></td>
<td>textcolor=⟨color⟩</td>
<td>black</td>
</tr>
<tr>
<td></td>
<td>interheight=⟨length⟩</td>
<td>1pt</td>
</tr>
<tr>
<td></td>
<td>spiralcolor=⟨color⟩</td>
<td>LightYellow3</td>
</tr>
<tr>
<td></td>
<td>spiral=⟨true</td>
<td>false⟩</td>
</tr>
<tr>
<td></td>
<td>nbtextwidth=⟨length⟩</td>
<td>\textindent\right</td>
</tr>
<tr>
<td>\ZebraPar</td>
<td>colorone=⟨color⟩</td>
<td>SlateGray2</td>
</tr>
<tr>
<td></td>
<td>colortwo=⟨color⟩</td>
<td>DarkOliveGreen2!90!white!70</td>
</tr>
<tr>
<td></td>
<td>textcolorone=⟨color⟩</td>
<td>black</td>
</tr>
<tr>
<td></td>
<td>textcolortwo=⟨color⟩</td>
<td>black</td>
</tr>
<tr>
<td>\DashedPar</td>
<td>separation=⟨length⟩</td>
<td>0.9em</td>
</tr>
<tr>
<td></td>
<td>dashsymbol=⟨symbol⟩</td>
<td>– (en-dash: --)</td>
</tr>
<tr>
<td></td>
<td>dashcolor=⟨color⟩</td>
<td>blue!50</td>
</tr>
<tr>
<td>\MarkedPar</td>
<td>mark=⟨symbol⟩</td>
<td>$\surd$</td>
</tr>
<tr>
<td></td>
<td>position=⟨right</td>
<td>left⟩</td>
</tr>
<tr>
<td>\UnderlinedPar</td>
<td>rulecolor=⟨color⟩</td>
<td>DarkOliveGreen3</td>
</tr>
</tbody>
</table>

Table 1: summary of the predefined styles, their options and their default values.

4 Defining new styles

The creation of new paragraph designs involves the redefinition of the two commands \FancyPreFormat and \FancyFormat. The redefinition of the former will have effect just before the first line of the affected paragraph, whilst the redefinition of the latter will affect all lines of the paragraph; the redefinition of \FancyFormat must contain the \box\linebox construct. After redefining those commands, the actual typesetting of the modified paragraph is done by invoking \vbox{#1}\par\AddFancyFormat. Schematically the definition of a new style (called, for example, \MyStylePar) should have the following aspect:

\newcommand\MyStylePar[1]{%
\renewcommand\FancyPreFormat{%
...some commands...%
\renewcommand\FancyFormat{%
...some commands...%
\box\linebox%
...some commands...
}
...some commands...
5 Examples

In the following examples we will use some placeholder text, taken from H. Rackham’s 1914 translation of Section 1.10.32 of “de Finibus Bonorum et Malorum”, written by Cicero:

\begin{quote}
But I must explain to you how all this mistaken idea of denouncing pleasure and praising pain was born and I will give you a complete account of the system, and expound the actual teachings of the great explorer of the truth, the master-builder of human happiness. No one rejects, dislikes, or avoids pleasure itself, because it is pleasure, but because those who do not know how to pursue pleasure rationally encounter consequences that are extremely painful.
\end{quote}

Each example includes the complete compilable code (after addition of the above definition of the \testtext command) and its result.

**Example 1**

*The default predefined styles.*

\begin{verbatim}
\documentclass{article}
\usepackage[english]{babel}
\usepackage{fancypar}
\begin{document}
\textit{The notebook style:}
\NotebookPar{\testtext}
\textit{The zebra style:}
\ZebraPar{\testtext}
\textit{The marked style:}
\MarkedPar{\testtext}
\textit{The dashed style:}
\DashedPar{\testtext}
\textit{The underlined style:}
\end{document}
\end{verbatim}
The output of this example is shown on Section 3, page 3.

Example 2

*Changing the predefined styles* (via `\usepackage` and `\fancyparsetup`).

```latex
\documentclass{article}
\usepackage[english]{babel}
\usepackage[x11names]{xcolor}
\usepackage[spiral=false,linecolor=Chocolate3!100!white!80]{fancypar}

\begin{document}
\textcolor{white}{\underline{\textbf{Example 2}}}

But I must explain to you how all this mistaken idea of denouncing
pleasure and praising pain was born and I will give you a complete
account of the system, and expound the actual teachings of the great
explorer of the truth, the master-builder of human happiness. No
one rejects, dislikes, or avoids pleasure itself, because it is pleasure,
but because those who do not know how to pursue pleasure ratio-
nally encounter consequences that are extremely painful.
```

```latex
\documentclass{article}
\usepackage[english]{babel}
\usepackage[x11names]{xcolor}
\usepackage[spiral=false,linecolor=Chocolate3!100!white!80]{fancypar}

\begin{document}
\textcolor{white}{\underline{\textbf{Example 2}}}

But I must explain to you how all this mistaken idea of denouncing
pleasure and praising pain was born and I will give you a complete
account of the system, and expound the actual teachings of the great
explorer of the truth, the master-builder of human happiness. No
one rejects, dislikes, or avoids pleasure itself, because it is pleasure,
but because those who do not know how to pursue pleasure ratio-
nally encounter consequences that are extremely painful.
```
But I must explain to you how all this mistaken idea of denouncing pleasure and praising pain was born and I will give you a complete account of the system, and expound the actual teachings of the great explorer of the truth, the master-builder of human happiness. No one rejects, dislikes, or avoids pleasure itself, because it is pleasure, but because those who do not know how to pursue pleasure rationally encounter consequences that are extremely painful.

Example 3

Changing the predefined styles (via the optional argument of the commands).

```
\documentclass{article}
\usepackage[english]{babel}
\usepackage{fancypar}

\begin{document}
\MarkedPar{\testtext}
\MarkedPar[mark=\ddag,position=left]{\testtext}
\MarkedPar[mark=$\bullet$]{\testtext}
\end{document}
```

But I must explain to you how all this mistaken idea of denouncing pleasure and praising pain was born and I will give you a complete account of the system, and expound the actual teachings of the great explorer of the truth, the master-builder of human happiness. No one rejects, dislikes, or avoids pleasure itself, because it is pleasure, but because those who do not know how to pursue pleasure rationally encounter consequences that are extremely painful.
But I must explain to you how all this mistaken idea of denouncing pleasure and
praising pain was born and I will give you a complete account of the system,
and expound the actual teachings of the great explorer of the truth, the master-
builder of human happiness. No one rejects, dislikes, or avoids pleasure itself,
because it is pleasure, but because those who do not know how to pursue pleasure
rationally encounter consequences that are extremely painful.

**Example 4**

*In this example a three color zebra pattern is used for the lines of the paragraph.*

```latex
\documentclass{book}
\usepackage[english]{babel}
\usepackage[x11names]{xcolor}
\usepackage{fancypar}
\usepackage{intcalc}

\renewcommand{\FancyZColor}{% 
  \ifcase\intcalcMod{\value{fancycount}}{3} %
    \OliveDrab4!100!white!90 \or \Chocolate3!100!white!80%
    \or \LightGoldenrod3\fi 
}
\begin{document}
\ZebraPar{\testtext}
\end{document}
```

But I must explain to you how all this mistaken idea of denouncing pleasure and
praising pain was born and I will give you a complete account of the system,
and expound the actual teachings of the great explorer of the truth, the master-
builder of human happiness. No one rejects, dislikes, or avoids pleasure itself,
because it is pleasure, but because those who do not know how to pursue pleasure
rationally encounter consequences that are extremely painful.

**Example 5**

*Definition of a new style. In this example we build a new style; the odd-numbered
lines will be typeset in red and the even-numbered lines will be typeset in black.*
But I must explain to you how all this mistaken idea of denouncing pleasure and praising pain was born and I will give you a complete account of the system, and expound the actual teachings of the great explorer of the truth, the master-builder of human happiness. No one rejects, dislikes, or avoids pleasure itself, because it is pleasure, but because those who do not know how to pursue pleasure rationally encounter consequences that are extremely painful.

References

Change History

v 1.1
  General: default symbol for the
  mark option changed to √ ........ 5
  dingbat will not be used .......... 12
  First revision .................. 1

v 1.2
  \NotebookPar: \NotebookPar
  admits more than one
  paragraph. Thanks to Frank
  Mittelbach .................... 14

\add@fancy@format: Now all other
  styles also admit more than one

v 1.3
\add@fancy@format: An additional
  unskip was added since the
  2021 release of \LaTeX{} adds an
  extra glue in the material
  between paragraphs. Thanks to
  Frank Mittelbach ............... 17

General: Second revision ........ 1

General: Third revision ........ 1
6 Implementation

Standard identification:

```latex
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{fancypar}[2021/04/17 v1.3 fancy paragraphs]
```

We load the necessary packages:

```latex
\@ifpackageloaded{xkeyval}{}{\RequirePackage{xkeyval}}
\@ifpackageloaded{tikz}{\usetikzlibrary{calc}}
\RequirePackage{tikz}\usetikzlibrary{calc}
\@ifpackageloaded{xcolor}{}{\RequirePackage{xcolor}}
```

The xkeyval package was used to handle the package options that will also be used later on. First, the options declaration (prefix: FP, family: fancypar).

```latex
\DeclareOptionX[FP]{fancypar}{colorone}[\def\FancyZColorOne{#1}]
\DeclareOptionX[FP]{fancypar}{colortwo}[\def\FancyZColorTwo{#1}]
\DeclareOptionX[FP]{fancypar}{textcolorone}[\def\FancyZTextColorOne{#1}]
\DeclareOptionX[FP]{fancypar}{textcolortwo}[\def\FancyZTextColorTwo{#1}]
\DeclareOptionX[FP]{fancypar}{linecolor}[\def\FancyNlColor{#1}]
\DeclareOptionX[FP]{fancypar}{intercolor}[\def\FancyNilColor{#1}]
\DeclareOptionX[FP]{fancypar}{interheight}[\def\FancyNilHeight{#1}]
\DeclareOptionX[FP]{fancypar}{spiralcolor}[\def\FancyNSColor{#1}]
\DeclareOptionX[FP]{fancypar}{textcolor}[\def\FancyNTextColor{#1}]
\DeclareOptionX[FP]{fancypar}{nbtextwidth}[\def\FancyNTWidth{#1}]
\DeclareOptionX[FP]{fancypar}{mark}[\def\FancyMark{#1}]
\DeclareOptionX[FP]{fancypar}{rulecolor}[\def\FancyUColor{#1}]
\DeclareOptionX[FP]{fancypar}{separation}[\def\FancyDSeparation{#1}]
\DeclareOptionX[FP]{fancypar}{dashcolor}[\def\FancyDColor{#1}]
\DeclareOptionX[FP]{fancypar}{dashsymbol}[\def\FancyDSymbol{#1}]
```

The \textindent will be used to control the indentation of the paragraph in the notebook style, depending on whether or not the spiral will be used. The length \textindentright controls the distance from the right indentation of the text; it is set to \textwidth-2cm.

```latex
\newlength{\textindent}
\newlength{\textindentright}
\settowidth{\textindentright}{\textwidth}
\addtolength{\textindentright}{-2cm}
```

The boolean key spiral is used here to set \textindent appropriately and will be used in the definition of the notebook style to draw or not the spiral.

```latex
define@boolkey[FP]{fancypar}{spiral}[
\ifFP@fancypar@spiral
\setlength{\textindent}{-2.6mm}\
\else
\fiFP@fancypar@spiral
\setlength{\textindent}{-2.6mm}\
\else
```

13
position

The choice-key position is used to specify the placement of the mark in the marked style.

\define@choicekey+[\textwidth]{fancypar}{position}\valnr\left,right\%
\ifcase\nr\relax
\def\FancyMarkPosition{\llap{\mbox{\FancyMark\quad}}\box\linebox}
\or
\def\FancyMarkPosition{\box\linebox\rlap{\mbox{\quad\FancyMark}}}
\fi
\%
\PackageWarning{fancypar}{erroneous input ignored}%

Now we define some of the colors that will be used by default. We use the RGB system to define colors already present in the x11names family, just to avoid loading the xcolor package with options.

\definecolor{zcolori}{RGB}{185,211,238}%SlateGray2
\definecolor{zcolorii}{RGB}{188,238,104}%DarkOliveGreen2
\definecolor{lcolor}{RGB}{159,182,205}%SlateGray3
\definecolor{scolor}{RGB}{205,205,180}%LightYellow3
\definecolor{rcolor}{RGB}{162,205,90}%DarkOliveGreen3

We set the default value for the keys that were defined.

\ExecuteOptionsX{\PackageWarning{fancypar}{\CurrentOption ignored}}
\ExecuteOptionsX{colorone=zcolori,}
\ExecuteOptionsX{colortwo=zcolorii!90!white!70,}
\ExecuteOptionsX{textcolorone=black,}
\ExecuteOptionsX{textcolortwo=black,}
\ExecuteOptionsX{linecolor=lcolor!80,}
\ExecuteOptionsX{intercolor=green!20,}
\ExecuteOptionsX{interheight=1pt,}
\ExecuteOptionsX{spiralcolor=scolor,}
\ExecuteOptionsX{spiral=true,}
\ExecuteOptionsX{textcolor=black,}
\ExecuteOptionsX{nbtextwidth=\textwidth,}
\ExecuteOptionsX{mark=$\surd$,}% \changes{v 1.1}{2010/04/25}{changed to $\surd$}
\ExecuteOptionsX{rulecolor=rcolor,}
\ExecuteOptionsX{position=right,}
\ExecuteOptionsX{dashcolor=blue!50,}
\ExecuteOptionsX{separation=0.9em,}
\ExecuteOptionsX{dashesymbol=--}
Now comes the processing of the keys and values which will be passed by the user to the package.

\ProcessOptionsX{FP}{fancypar}

\fancyparsetup

Definition of the command to control attributes in the preamble or at any point of the document.

\DeclareRobustCommand*{\fancyparsetup}[1]{%
  \setkeys{FP}{fancypar}{#1}
%
}

\NotebookPar

Now, to the definition of the five predefined styles. \NotebookPar comes first.

%%%% notebook %%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\newcommand{\NotebookPar}[2][]{%
  \begingroup
  \setkeys{FP}{fancypar}{#1}
  \renewcommand{\FancyPreFormat}{\smallskip}
  \renewcommand{\FancyFormat}{%
    \hskip\textindent\%
    \tikz{%
      \draw[draw=black,fill=white] (-1,-0.3) circle (3pt);%
      \ifFP@fancypar@spiral
        \draw[very thin,rotate=4,double=\FancyNSColor,\
        double distance=1.5pt]%
        (-1,-0.2) arc (40:-250:10pt and 2pt);%
      \else
        \fi
      \%
    }
    \hskip4mm\vphantom{\strut}%
    \textcolor{\FancyNTextColor}{\box\linebox}%
    \color{\FancyNilColor}\hrule height\FancyNilHeight%
    \smallskip%
  }
  \setlength{\parindent}{0pt}
  \par\vskip\baselineskip
  \noindent%
  \begin{tikzpicture}[inner sep=-1.1pt]
    \setlength{\fboxsep}{0pt}
    \node (a) {\colorbox{\FancyNlColor}{%
      \vbox{%
        \vskip-0.5mm\parshape 1 0cm \FancyNTWidth%
        \defpar{\{\@par\}}% A trick that executes the real "par" = \@par inside a group so that the parshape is restored. Thanks to Frank Mittelbach.
        \#2\@par
      \}}%
    }
  \end{tikzpicture}%
%
Next, we define the counter \texttt{fancycount}, and the command \texttt{\FancyZColor} used to produce the zebra-like pattern (by changing the color depending on whether the value of the counter is odd or even). We also define the command \texttt{\FancyZTextColor} to allow a similar definition for the color of the text lines. The counter and the commands can be used, or redefined by the user, in a L\TeX\ document to produce more sophisticated zebra-like designs.

\begin{verbatim}
\newcounter{fancycount}
\newcommand\FancyZColor{}
\renewcommand\FancyZColor{%alternate line colors
  \ifodd\thefancycount 
    \FancyZColorOne%
  \else
    \FancyZColorTwo%
  \fi}
\newcommand\FancyZTextColor{}
\renewcommand\FancyZTextColor{%alternate text colors
  \ifodd\thefancycount 
    \FancyZTextColorOne%
  \else
    \FancyZTextColorTwo%
  \fi}
\end{verbatim}

\texttt{\ZebraPar} Now, the definition of \texttt{\ZebraPar}.

\begin{verbatim}
\newcommand\ZebraPar[2][1]{% \begin{verbatim}
  \begingroup
  \setkeys{FP}{fancypar}{#1}%
  \renewcommand\FancyPreformat{\setcounter{fancycount}{0}}%
  \renewcommand\FancyFormat{%
    \noindent\stepcounter{fancycount}%
    \makebox[\textwidth]{\colorbox{\FancyZColor}{%
      \textcolor{\FancyZTextColor}{\box\linebox}}}%
    \hrule height 0pt%
  }%
  \par\smallskip
  \vbox{#2\par\addfancyformat}%
  \par\smallskip
  \end{verbatim}
}
\end{verbatim}
Definition of the leader that will be used in \DashedPar.

\def\leaderfill{\color{\FancyDColor}\xleaders\hbox to \FancyDSeparation{\hss\FancyDSymbol\hss}\hfill}

The turn now is for \DashedPar.

\newcommand\DashedPar[2][]{}{\begingroup\setkeys{FP}{fancypar}{#1}\renewcommand\FancyPreFormat{\hbox to \textwidth{\leaderfill}\vskip-\baselineskip}\renewcommand\FancyFormat{\vphantom{\strut}\box\linebox\hbox to \textwidth{\leaderfill}\vskip-\baselineskip}\par\medskip\vbox{\noindent#2\par\add@fancy@format\medskip}\par\bigskip\endgroup}

The definition of \MarkedPar.

\newcommand\MarkedPar[2][]{}{\begingroup\setkeys{FP}{fancypar}{#1}\renewcommand\FancyPreFormat{}\renewcommand\FancyFormat{\noindent\FancyMarkPosition\par}\par\medskip\vbox[\noindent#2\par\add@fancy@format\medskip]\par\bigskip\endgroup}
And last, but not least, the definition of \texttt{\UnderlinedPar}.

The simple, yet powerful macro that makes use of \texttt{\lastbox} to dissect a paragraph; this macro is the core of this package; it is invoked in each one of the five predefined styles (and must be used in newly defined ones). A description can be found in [2].

\begin{itemize}
\item \texttt{\add@fancy@format} which the user can employ to apply new styles defined with the two commands below.
\item \texttt{\AddFancyFormat} which the user can employ to apply new styles defined with the two commands below.
\item \texttt{\FancyPreFormat} These two commands will allow the user to define his/her own styles.
\end{itemize}
Index

Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

Symbols
\@@par ........ 111, 112
\add@fancy@format .... 113, 153, 177, 192, 207, 212, 225
\AddFancyFormat .... 6, 225
A
\add@fancy@format .... 113, 153, 177, 192, 207, 212, 225
\AddFancyFormat .... 6, 225
C
\changes ........ 68
\colorone ........ 9
\colortwo ........ 9
D
\dashcolor .... 9
\DashedPar .... 5, 163
\dashesymbol .... 9
\DeclareOptionX .......... 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 48
\DeclareRobustCommand .......... 78
\define@boolkey .... 30
\define@choicekey .... 38
\definecolor ...... 50, 51, 52, 53, 54
\ExecuteOptionsX .... 56
\fancycolor .... 5
\fancycount .... 122
\FancyDColor .... 22, 159
\fancy@format ........ 111, 112
\FancyDSeparation .... 21, 160
\FancyDSymbol .... 23, 160
\FancyFormat .... 6, 87, 146, 171, 187, 202, 221, 227
\FancyMark .... 19, 40, 42
\FancyMarkPosition .... 40, 42, 189
\FancyNlColor .... 14, 100
\FancyNlHeight .... 15, 100
\FancyNColor ...... 13, 108
\FancyNlColor ...... 16, 92
\FancyNlColor ...... 17, 99
\FancyNlWidth ..... 18, 110
\fancyparseup .... 2, 78
\FancyPreformat ..... 6, 86, 145, 167, 186, 201, 215, 227
\FancyUColor ..... 20, 203
\FancyZColor ..... 5, 122, 148
\FancyZColorOne ..... 9, 126
\FancyZColorTwo ..... 10, 128
\FancyZColor ...... 5, 122, 149
\FancyZColor ...... 11, 135
\FancyZColor ...... 12, 137
\FancyZColor ...... 13, 139
\FancyZColor ...... 14, 141
E
\iff@fancy@par@spiral .......... 31, 91
\intecolor .... 9
\interheight .... 9
\IF@fancy@par@spiral .......... 31, 91
\leaderfill .... 158, 168, 173
\ZebraPar .... 5, 197
F
\UnderlinedPar .... 5, 197
\ZebraPar .... 5, 197