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2018 年 5 月 16 日

1 first

Listing 1: example

```
1 \documentclass[11pt]{ltjsarticle}
2 \usepackage{luatexja}
3 \usepackage{listings} % for source codes
4 \usepackage[dvipsnames, svgnames, xllnames, dvipdfmx, table, xcdraw
   ]{xcolor}
5 \usepackage{graphics}
6 \usepackage{caption, subcaption}
7 % ### macro ### {{{
8 \newcommand{\lnand}[1]{\uparrow{\#1}}
9 \newcommand{\lnor}[1]{\downarrow{\#1}}
10 \renewcommand{\Re}{\operatorname{Re}}
11 \renewcommand{\Im}{\operatorname{Im}}
12 \newcommand{\framedParBox}[2][10zw]{%
13   \fbox{\parbox{\#1}{\#2}}}%
14 }
15 % ### for graphic ### {{{
16 % Usage
17 % \fig[width=3cm]{FNAME}{CAPTION}{REFNAME}
18 % If you write
19 % \fig{FNAME}{CAPTION}{REFNAME}
20 % is show image whose width is 5cm
21 \newcommand{\fig}[4][width=5cm]{%
22   \begin{figure}[htbp]
23     \centering
24     \includegraphics[\#1]{\#2}
```

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25     \caption{#3} \label{fig:#4}
26     \end{figure}%
27 }
28 \newcommand{\tfig}[5]{%
29     \begin{figure}
30         \centering
31         \subcaptionbox{A}{\includegraphics{#1}}%
32         \subcaptionbox{B}{\includegraphics{#2}}
33
34         \subcaptionbox{C}{\includegraphics{#3}}%
35         \subcaptionbox{D}{\includegraphics{#4}}
36         \caption{#5}
37     \end{figure}%
38 }
39 % }}}
40 % programming documents macros for listings {{{
41 \lstset{
42     breaklines=true ,
43     frame=tRbI ,
44     classoffset=1,
45     numbers=left , stepnumber=1, numberstyle=\tiny ,
46     tabsize=2
47 }
48 \newcommand{\code}[4]{%
49     \lstinputlisting [language=#1,
50     caption=#3,
51     label=code#4,
52     ]{#2}%
53 }
54 % }}}
55 % }}}
56 \begin{document}
57 \title{}
58 \author{1710693 渡辺 大智}
59 \maketitle
60

```

```
61 \section{first}
62 \code{tex}{./t_tex.tex}{example}{t_tex.tex}
63
64 \begin{thebibliography}{99}
65   \bibitem{book1}
66 \end{thebibliography}
67 \end{document}
```

参考文献

[1]