fmocdmac — FM's OCD LATEX Macro*

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Released 2022/02/06

Abstract

This package contains almost all the latex macros I heavily use in my tcs research activity and, in particular, in the writing of conference and journal articles. As few of my co-authors have kindly pointed out, and probably many have thought, they are somehow a clear expression of an underlying ocd-like behavior... hence the name!

1 Implementation & Usage

 $1 \langle *package \rangle$

```
Required external packages:
```

```
2
3 \RequirePackage{etoolbox}
4
5 \RequirePackage{xargs}
6 \RequirePackage{xspace}
7 \RequirePackage{stringstrings}
```

```
Package options:
 10 %% Auxiliary packages
 11 \newif\ifaux@ \aux@false
 12 \DeclareOption{aux}{\aux@true}
13 \DeclareOption{noaux}{\aux@false}
15 %% AMS defaults
 16 \newif\ifamsdef@ \amsdef@true
17 \DeclareOption{noamsdef}{\amsdef@false}
19\ \mbox{\%\%} AMS theorem tools
20 \newif\ifamsthm@ \amsthm@true
23 %% Extended Theorem tools
24 \newif\ifthmtls@ \thmtls@true
25 \DeclareOption{nothmtls}{\thmtls@false}
27 %% Enumeration tools
28 \newif\ifenmtls@ \enmtls@true
29 \verb|\DeclareOption{noenmtls}{\cline{Condition}} | \cline{Condition} | \cline{Condit
31 %% Hyper reference
32 \neq 0 
35 %% Font tools
36 \newif\iffnttls@ \fnttls@true
```

^{*}This document describes version v0.7 of the fmocdmac package, last revised 2022/02/06.

```
37 \DeclareOption{nofnttls}{\fnttls@false}
39 %% Camera-ready version
40 \newif\ifcrv@ \crv@false
41 \DeclareOption{crv}{\crv@true}
43 %% Change bars
44 \newif\ifchgbar@ \chgbar@false
45 \DeclareOption{chgbar}{\chgbar@true}
47 %% Line numbers
48 \newif\iflinnum@ \linnum@false
49 \DeclareOption{linnum}{\linnum@true}
51
52 %% Text macro generation
53 \newif\iftxtgen@ \txtgen@false
54 \DeclareOption{txtgen}{\txtgen@true}
55 \DeclareOption{notxtgen}
    {\txtgen@false\text@false\com@false\log@false\aut@false}
57
58 %% Math macro generation
59 \newif\ifmthgen@ \mthgen@false
60 \DeclareOption{mthgen}{\mthgen@true}
61 \DeclareOption{nomthgen}
    {\mthgen@false\math@false\gam@false\log@false\aut@false}
63
64
65 %% Elementary macros for text
66 \newif\iftext@ \text@false
67 \DeclareOption{text}{\text@true\txtgen@true}
68 \DeclareOption{notext}{\text@false}
70 %% Elementary macros for math
71 \newif\ifmath@ \math@false
72 \DeclareOption{math}{\math@true\mthgen@true}
73 \ensuremath{$\ \ $$ \{\mathbf x_i\}$}
75
76 %% Macros for computational-complexity classes
77 \newif\ifcom@ \com@false
78 \DeclareOption{com}{\com@true\txtgen@true}
79 \DeclareOption{nocom}{\com@false}
82 %% Macros for games
83 \newif\ifgam@ \gam@false
84 \end{true} txtgen@true\mthgen@true\}
85 \DeclareOption{nogam}{\gam@false}
87 %% Macros for logics
88 \newif\iflog@ \log@false
89 \DeclareOption{log}{\log@true\txtgen@true\mthgen@true}
90 \DeclareOption{nolog}{\log@false}
91
92 %% Macros for automata
93 \newif\ifaut@ \aut@false
94 \end{true} txtgen@true\end{true}
95 \DeclareOption{noaut}{\aut@false}
96
98 %% Format-related tricks
99 \newif\iffrm@ \frm@false
```

```
100 \DeclareOption{frm}{\frm@true}
101 \DeclareOption{nofrm}{\frm@false}
102
103
104 %% Figure-related tricks
105 \neq \frac{1}{100} \fig@false
106 \DeclareOption{fig}{\fig@true}
107 \DeclareOption{nofig}{\fig@false}
108
109 %% Wrapfig package
110 \newif\ifwrpfig@ \wrpfig@true
111 \DeclareOption{nowrpfig}{\wrpfig@false}
112
113
114 %% Table-related tricks
115 \newif\iftab@ \tab@false
116 \DeclareOption{tab}{\tab@true}
117 \DeclareOption{notab}{\tab@false}
118
119
120 %% Algorithm-related tricks
121 \newif\ifalg@ \alg@false
122 \DeclareOption{alg}{\alg@true}
123 \DeclareOption{noalg}{\alg@false}
124
     Option-processing code:
125
126 \ensuremath{\mbox{\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{
128 \ExecuteOptions{aux,txtgen,mthgen,text,math,com,gam,log,aut}%
130 \ProcessOptions\relax%
132 \ifcsdef{if@twocolumn}{}{\newif\if@twocolumn}
137 \ifaux@
138
139 \ifamsdef@
140 % AMS Packages
           \RequirePackage{amsmath}
          \RequirePackage{amssymb}
          \interdisplaylinepenalty=2500
143
144 \fi
145
146 \ifamsthm@
147 % AMS Theorem Tools
148 \RequirePackage{amsthm}
149 \fi
150
151 \ifthmtls@
152 % Extended Theorem Tools
         \RequirePackage{thmtools, thm-restate}
154\ \mathbf{\backslash fi}
155
156 \ifenmtls@
           % Enumeration Tools
           \RequirePackage{paralist}
158
159 \fi
161 \ifhypref@
```

```
163
           \RequirePackage{hyperref}
       164
           \hypersetup
       165
       166
            {
                      = {},
            pdfsubject
       167
            pdfkeywords
                      = {},
       168
            pdfproducer
                      = {},
       169
            pdfcreator
                      = {},
       170
            pdfpagemode
                      = {UseNone},
       171
            pdfstartview = {FitH},
       172
       173
            urlcolor
                      = {blue},
            colorlinks
       174
       175
       176 \fi
       177
       178 \iffnttls@
           % Font Tools
       179
           \RequirePackage[final]{microtype}
       181 \fi
       182
       183 \ifcrv@
           % Camera-Ready Version
       185
           %%...
       186
       187
       188 \else
          % Draft Version
       189
       190
          %%...
       191
       192
           \ifchgbar@
       193
       194
            % Change Bars
            \RequirePackage{changebar}
       195
       196
           \fi
       197
           \iflinnum@
       198
            % Line Numbers
       199
            \if@twocolumn
       200
       201
             \RequirePackage[switch, columnwise, mathlines]{lineno}\linenumbers
       202
              \RequirePackage[columnwise, mathlines]{lineno}\linenumbers
       203
       204
            \fi
       205
           \fi
       206
           %%...
       207
       208
       209 \fi
       210
       211 \fi
       \mathbbo Bbo Math Font: ... to do!
       Eus Math Font: ... to do!
       217 \left( \mathbb{U}_{matheus}{} \right) \
\mathpzc Pzc Math Font: ... to do!
       218 \left\{ \mathbf{T1}_{pzc}_{m}_{it} \right\}
```

162

% Hyper References

```
\mathscr Scr Math Font: ... to do!
           219 \left( \mathbf{Wathscr} { \mathbb{U} { rsfs}{m}{n} } \right) 
          \omicron Auxiliary Greek lowercase letter: ... to do!
          224 \csdef{omicron}{o}
\Alpha, ... Auxiliary Greek uppercase letters: ... to do!
          225 \csdef{Alpha}{A} \csdef{Beta}{B} \csdef{Epsilon}{E} \csdef{varEpsilon}{E}
          226 \texttt{Zeta}{Z} \texttt{Kappa}{K} $$ \csdef{Zeta}{I} \csdef{Kappa}{K} $$
          227 \csdef{VarKappa}{K} \csdef{Mu}{M} \csdef{Nu}{N} \csdef{Omicron}{0}
          228 \end{P} \csdef{Rho}{P} \csdef{Tau}{T} \csdef{Chi}{X}
          Emptiness check: \{A\}\{\langle B\}\}\ evaluates to the empty string, if Argument \langle A\rangle is empty,
          and to Argument \langle B \rangle, otherwise.
            • \empchk{}{B} = ""
            • \empchk{A}{B} = "B"
          233 \newcommand{\empchk}[2]
             {\left\{ if & 1 \right\} }
  \defval Default value: \defval{\langle A \rangle}{\langle B \rangle} evaluates to Argument \langle B \rangle, if Argument \langle A \rangle is empty, and to
          Argument \langle A \rangle itself, otherwise.
            • \defval{}{B} = "B"
            • \defval{A}{B} = "A"
          235 \newcommand{\defval}[2]
              {\left\{ if & 1 & 2 \le 1 \le 1 \right\}}
          \arglef Left extension: \arglef{\langle}\langle}\ evaluates to the concatenation \langle AB \rangle of the two arguments, if
          Argument \langle B \rangle is non-empty, and to the empty string, otherwise.
            • \arglef{A}{} = ""
            • \arglef{A}{B} = "AB"
          238 \newcommand{\arglef}[2]
              {\empchk{#2}{#1\allowbreak#2}}
  \argrig Right extension: \argrig{\langle A\rangle} \{\langle B\rangle}$ evaluates to the concatenation \langle AB \rangle of the two arguments,
          if Argument \langle A \rangle is non-empty, and to the empty string, otherwise.
            • \argrig{}{B} = ""
            • \argrig{A}{B} = "AB"
          240 \newcommand{\argrig}[2]
             {\empchk{#1}{#1\allowbreak#2}}
  \ Middle extension: \ of the three
          arguments, if Argument \langle B \rangle is non-empty, and to the empty string, otherwise.
            • \argmid{A}{}{C} = ""
            • \argmid{A}{B}{C} = "ABC"
          242 \newcommand{\argmid}[3]
```

{\empchk{#2}{#1\allowbreak#2\allowbreak#3}}

```
Separators: \argsep\{\langle A \rangle\}\{\langle B \rangle\}\{\langle C \rangle\} evaluates to Argument \langle C \rangle, if Argument \langle A \rangle is empty, to
               Argument \langle A \rangle, if Argument \langle C \rangle is empty, and to the concatenation \langle ABC \rangle, otherwise.
                  • \argsep{}{B}{C} = "C"
                  • \argsep{A}{B}{} = "A"
                  • \argsep{A}{}{C} = "AC"
                  • \argsep{A}{B}{C} = "ABC"
               244 \newcommand{\argsep}[3]
                    \label{limits} $$ {\left  \  \  \right } = 1\allowbreak\arglef{#2}{\#3}\fi}
               Variadic commands: \operatorname{Varcmd}\{\langle A \rangle\}\{\langle B \rangle\}\{\langle C \rangle\}\{\langle D \rangle\}\{\langle E \rangle\}\{\langle F \rangle\} \dots to do!
     \varcmd
               247 \newcommand{\varcmd}[6]
                     {\expandafter\newcommand\csname gobble#1arg\endcsname[2]
               249
                        {\csname check#1arg\endcsname{\argsep{##1}{#4}{##2}}}%
               250
                     \expandafter\newcommand\csname check#larg\endcsname[1]
               251
                       {\csname @ifnextchar\endcsname%
                         \bgroup{\csname gobble#1arg\endcsname{##1}}{#2{##1#5}#6}}%
                252
                     \expandafter\newcommand\csname#1\endcsname[1]
                253
                       {\csname check#1arg\endcsname{#3##1}}}
               Sequence of tags: \ensuremath{\mathsf{Sequence}}\ (A) + (B) + (C) + \dots  to do!
   \seqoftag
                256 \newcommand{\seqoftag}[3]
                257
                     {\@for\itr:={#1}\do%
                258
                       {\expandafter\csedef{\itr#2}%
                         {\noexpand\csname #3\endcsname{\itr}}}
               259
              Sequence of commands: \sqoign{A}{\langle A \rangle} {\langle A \rangle} {\langle C \rangle} \dots \text{ to do!}
   \seqofcmd
                260 \newcommand{\seqofcmd}[3]
                261
                     {\@for\itr:={#1}\do%
                262
                       {\expandafter\csedef{\itr#2}%
                263
                         {\noexpand\csname #3\endcsname{\csname \itr\endcsname}}}}
               \seqoflatlow Sequence of Latin lowercase letters: \seqoflatlow{\langle A \rangle}{\langle B \rangle} ... to do!
               265 \newcommand{\seqoflatlow}
                     {\left(a,b,c,d,e,f,g,h,i,j,k,l,m,n,o,p,q,r,s,t,u,v,w,x,y,z\right)}
\seqoflatupp Sequence of Latin uppercase letters: \seqoflatupp\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                267 \newcommand{\seqoflatupp}
                     {\left(A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q,R,S,T,U,V,W,X,Y,Z\right)}
\seqoflatlet Sequence of Latin letters: \seqoflatlet\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                269 \newcommand{\seqoflatlet}[2]
                     {\seqoflatlow{#1}{#2}\seqoflatupp{#1}{#2}}
               Sequence of Greek lowercase letters: \seqofgrklow{\langle A \rangle}{\langle B \rangle} ... to do!
\seqofgrklow
                272 \newcommand{\seqofgrklow}
                     {\seqofcmd{alpha,beta,gamma,delta,epsilon,varepsilon,zeta,eta,theta,vartheta,%
                274
                     iota, kappa, varkappa, lambda, mu, nu, xi, omicron, pi, varpi, rho, varrho, sigma, %
                275
                     varsigma,tau,upsilon,phi,varphi,chi,psi,omega}}
              Sequence of Greek uppercase letters: \seqofgrkupp\{\langle A \rangle\}\{\langle B \rangle\}\ ... to do!
\seqofgrkupp
                276 \newcommand{\seqofgrkupp}
               277
                     {\seqofcmd{Alpha,Beta,Gamma,Delta,Epsilon,varEpsilon,Zeta,Eta,Theta,varTheta,%
                     Iota, Kappa, varKappa, Lambda, Mu, Nu, Xi, Omicron, Pi, varPi, Rho, varRho, Sigma, %
               278
                279
                     varSigma,Tau,Upsilon,Phi,varPhi,Chi,Psi,Omega}}
```

```
\seqofgrklet Sequence of Greek letters: \seqofgrklet\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                                   280 \newcommand{\seqofgrklet}[2]
                                              {\seqofgrklow{#1}{#2}\seqofgrkupp{#1}{#2}}
                                   \seqoflow Sequence of lowercase letters: \seqoflow{\langle A \rangle}{\langle B \rangle} ... to do!
                                   283 \newcommand{\seqoflow}[2]
                                            {\seqoflatlow{#1}{#2}\seqofgrklow{#1}{#2}}
                                 Sequence of uppercase letters: \ensuremath{\mathsf{Veq}} \{\langle A \rangle\} \{\langle B \rangle\} \dots \text{ to do!}
        \seqofupp
                                   285 \newcommand{\seqofupp}[2]
                                              {\seqoflatupp{#1}{#2}\seqofgrkupp{#1}{#2}}
        \seqoflet Sequence of all letters: \seqoflet\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                                   287 \newcommand{\seqoflet}[2]
                                             {\seqoflow{#1}{#2}\seqofupp{#1}{#2}}
                                   \newtxt ... to do!
                                        • \newtxt[\rmfamily]{Name}[sub][sup][Ext] = "Name_sub_Ext"
                                        • \newtxt[\sffamily]{Name}[sub][sup][Ext] = "Name_sub_Ext"
                                         • \newtxt[\ttfamily]{Name}[sub][sup][Ext] = "Name_sub_Ext"
                                   293 \newcommandx{\newtxt}[5][1=, 3=, 4=, 5=]
                                              {\text{#1#2\txtsubsup[#1]{#3}{#4}#5}\xspace}
      \newtxtsty ... to do!
                                        • \newtxtsty{\rmfamily}{Name}[sub][sup][Ext] = "Name_sup_Ext"
                                        • \newtxtsty{\rmfamily}[\sffamily]{Name}[sub][sup][Ext] = "Name_sub_Ext"
                                         • \newtxtsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Ext] = "Name_sup_Ext"
                                   295 \newcommandx{\newtxtsty}[2][2=]
                                             {\newtxt[\defval{#2}{#1}]}
      \newtxtarg ... to do!
                                        • \newtxtarg[\rmfamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sup_Ext1(Arg)Ext2"
                                        • \newtxtarg[\sffamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sup_Ext1(Arg)Ext2"
                                         • \newtxtarg[\ttfamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sub_Ext1(Arg)Ext2"
                                   297 \newcommandx{\newtxtarg}[7][1=, 3=, 4=, 5=, 7=]
                                              {\newtxt[#1]{#2}[#3][#4][#5\argmid{(}{#6}{)}#7]}
\newtxtargsty ... to do!
                                         \bullet \mathtt{Name}^{\sup}_{\sup} [\mathtt{Ext1}] \{\mathtt{Arg}\} [\mathtt{Ext2}] = \mathtt{``Name}^{\sup}_{\sup} [\mathtt{Ext1}] \{\mathtt{Arg}\} [\mathtt{Ext2}] = \mathtt{``Name}^{\sup}_{\sup} [\mathtt{Ext1}] (\mathtt{Arg}) [\mathtt{Ext2}] = \mathtt{``Name}^{\sup}_{\sup} [\mathtt{Ex
                                        • \newtxtargsty{\rmfamily}[\sffamily][\sup][\sup][\sup][\sup][\st1]{\Arg}[\st2] = "Name_sup_\sup \st1(\Arg)\st2"
                                         • \newtxtargsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Namesup Ext1(Arg)Ext2"
                                   299 \newcommandx{\newtxtargsty}[2][2=]
                                            {\newtxtarg[\defval{#2}{#1}]}
    \newtxtoarg ... to do!
                                        • \newtxtoarg[\rmfamily]{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
                                         • \newtxtoarg[\sffamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                         • \newtxtoarg[\ttfamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                   301 \newcommandx{\newtxtoarg}[5][1=, 3=, 4=, 5=]
                                           {\newtxtarg[#1]{#2}[#3][#4][]{#5}[]}
```

```
\newtxtoargsty ... to do!
                                      • \mbox{\normalize} \{\mbox{\normalize}, \mbox{\normalize} \} \ [sub] [sup] [Arg] = "Name_{
m sub}^{
m sup} (\mbox{\normalize}, \mbox{\normalize})"
                                      • \mbox{\ensuremath{\mbox{\sup}[sup][Arg]} = "Name}_{sub}(Arg)"}
                                       \bullet \verb| \newtxtoargsty{\mbox{\newtxtoargsty}[\mbox{\newtxtoargsty}[\mbox{\newtxtoargsty}] [\mbox{\newtxtoargsty}] [\mbox{\newtxtoargsty}[\mbox{\newtxtoargsty}] [\mbox{\newtxtoargsty}] [\mbox{\newtxt
                                 303 \newcommandx{\newtxtoargsty}[2][2=]
                                304 {\newtxtoarg[\defval{#2}{#1}]}
       \newtxtpar ... to do!
                                      • \newtxtpar[\rmfamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_sup_Ext1[Par]Ext2"
                                      • \newtxtpar[\sffamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_sup}Ext1[Par]Ext2"
                                      • \newtxtpar[\ttfamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_sub_Ext1[Par]Ext2"
                                 305 \newcommandx{\newtxtpar}[7][1=, 3=, 4=, 5=, 7=]
                                         {\newtxt[#1]{#2}[#3][#4][#5\argmid{[}{#6}{]}#7]}
 \newtxtparsty ... to do!
                                      • \newtxtparsty{\rmfamily}{Name}[sub] [sup] [Ext1] {Par} [Ext2] = "Name_{sub}^{sup}Ext1[Par]Ext2"
                                      • \newtxtparsty{\rmfamily}[\sffamily]{\Name}[sub][sup][Ext1]{\Par}[Ext2] = "Name_sub_Ext1[\Par]Ext2"
                                      • \newtxtparsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "NamesubExt1[Par]Ext2"
                                 307 \newcommandx{\newtxtparsty}[2][2=]
                                308 {\newtxtpar[\defval{#2}{#1}]}
      \newtxtopar ... to do!
                                      • \newtxtopar[\rmfamily]{Name}[sub][sup][Par] = "Name_sub_[Par]"
                                      • \newtxtopar[\sffamily]{Name}[sub][sup][Par] = "Name_sub_[Par]"
                                      • \newtxtopar[\ttfamily]{Name}[sub][sup][Par] = "Name_sub_Par]"
                                 309 \newcommandx{\newtxtopar}[5][1=, 3=, 4=, 5=]
                                        {\newtxtpar[#1]{#2}[#3][#4][]{#5}[]}
\newtxtoparsty ... to do!
                                      • \mbox{\ensuremath{\mbox{Name}} (Sub) [Sup] [Par] = "Name}_{sub} [Par]"}
                                      \newtxtoparsty{\rmfamily}[\sffamily] {\Name} [sub] [sup] [Par] = "Name_sup[Par]"
                                      • \newtxtoparsty{\rmfamily}[\ttfamily]{\Name}[sub][sup][Par] = "Name_sup_[Par]"
                                 311 \newcommandx{\newtxtoparsty}[2][2=]
                                        {\newtxtopar[\defval{#2}{#1}]}
       \txtsubsup ... to do!
                                      • \text{txtsubsup}\{\text{sub}\} = "sub"; \text{txtsubsup}\{\}\{\text{sup}\} = "sup"; \text{txtsubsup}\{\text{sub}\}\{\text{sup}\} = "sub" |
                                      • \txtsubsup[\sffamily]{Aa}{Bb} = "Bb" Aa
                                      • \txtsubsup[\ttfamily]{Aa}{Bb} = ^{\text{"Bb"}}_{Aa}
                                 313 \newcommand{\txtsubsup}[3][]
                                         \txt ... to do!
                                      • \text{txt{Name}}[\text{sub}][\text{sup}][\text{Ext}] = \text{"Name}_{\text{sub}}^{\text{sup}}\text{Ext"}
                                      • \text{txt[\scshape]{Name}[sub][sup][Ext]} = \text{"Name}_{\text{Sub}}^{\text{SUP}} \text{Ext"}
                                      • \text{txt}[\text{bfseries}]{\text{Name}}[\text{sub}][\text{sup}][\text{Ext}] = \text{"Name}_{\text{sub}}^{\text{sup}}\text{Ext}"
                                 316 \newcommand{\txt}
                                         {\newtxtsty{\txtsty}}
             \txtarg ... to do!
                                      • \text{txtarg{Name}}[\text{sub}][\text{sup}][\text{Ext1}]{\text{Arg}}[\text{Ext2}] = \text{"Name}_{\text{sub}}^{\text{sup}}\text{Ext1}(\text{Arg})\text{Ext2}"
                                      • \txtarg[\scshape]{Name}[sub] [sup] [Ext1] {Arg}[Ext2] = "NAME_SUB_EXT1(ARG)EXT2"
```

```
• \txtarg[\bfseries]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_{sub}^{sup}Ext1(Arg)Ext2"
                             318 \newcommand{\txtarg}
                            319 {\newtxtargsty{\txtsty}}
      \txtoarg ... to do!
                                  • \txtoarg{Name}[sub][sup][Arg] = "Name<sup>sup</sup><sub>sub</sub>(Arg)"
                                  • \txtoarg[\scshape]{Name}[sub][sup][Arg] = "NAME_SUB(ARG)"
                                  • \t \ [sub] [sup] [Arg] = "Name \ [sub]" [Arg] = "Name \ [sub]"
                             320 \newcommand{\txtoarg}
                             321 {\newtxtoargsty{\txtsty}}
        \txtpar ... to do!
                                  • \text{txtpar{Name}[sub][sup][Ext1]{Par}[Ext2]} = \text{"Name}_{\text{sub}}^{\text{sup}}\text{Ext1}[Par]\text{Ext2"}
                                  • \txtpar[\scshape]{Name}[sub][sup][Ext1]{Par}[Ext2] = "NAME_{SUB}^{SUP}EXT1[PAR]EXT2"
                                  • \txtpar[\bfseries] {Name} [sub] [sub] [Ext1] {Par} [Ext2] = "Name sub Ext1[Par] Ext2"
                             322 \newcommand{\txtpar}
                            323 {\newtxtparsty{\txtsty}}
      \txtopar ... to do!
                                  • \text{txtopar{Name}[sub][sup][Par]} = \text{"Name}_{\text{sub}}^{\text{sup}}[Par]"
                                  • \txtopar[\schape]{Name}[sub][sup][Par] = "NAME_{SUB}^{SUP}[PAR]"
                                  • \t \ [Sub] [Sup] [Par] = "Name \ [Par]"
                             324 \newcommand{\txtopar}
                                      {\newtxtoparsty{\txtsty}}
        \txtsty ... to do!
                             326 \newcommand{\txtsty}
                                      {\mdseries\upshape\rmfamily}
                            \cmdtxt ... to do!
                                  • \cmdtxt{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                      \mathsf{Name}[\mathsf{sub}][\mathsf{sup}][\mathsf{Ext}] = \mathsf{Name}^{\mathsf{SUP}}_{\mathsf{SUB}}[\mathsf{Ext}]
                             329 \mbox{ } \mbox{
                                      {\csdef{txt#1}{\newtxtsty{\csname txtsty#1\endcsname}}}
  \cmdtxtarg ... to do!
                                  • \cmdtxtarg{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                      \texttt{\txtargNewCmd}\{\texttt{Name}\}[\texttt{sub}][\texttt{sup}][\texttt{Ext1}]\{\texttt{Arg}\}[\texttt{Ext2}] = \texttt{Name}^{\texttt{SUP}}_{\texttt{SUB}}\texttt{Ext1}(\texttt{Arg})\texttt{Ext2}
                             331 \newcommand{\cmdtxtarg}[1]
                            332 {\csdef{txtarg#1}{\newtxtargsty{\csname txtsty#1\endcsname}}}
\cmdtxtoarg ... to do!
                                  • \cmdtxtoarg{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                      \t Name [sub] [sup] [Arg] = Name_{SUB} (Arg)
                             333 \newcommand{\cmdtxtoarg}[1]
                                     {\csdef{txtoarg#1}{\newtxtoargsty{\csname txtsty#1\endcsname}}}
  \cmdtxtpar ... to do!
                                  • \cmdtxtpar{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                      \txtparNewCmd{Name}[sub][sup][Ext1]{Par}[Ext2] = NAME_SUB_EXT1[PAR]EXT2
                             335 \newcommand{\cmdtxtpar}[1]
                                     {\csdef{txtpar#1}{\newtxtparsty{\csname txtsty#1\endcsname}}}
\cmdtxtopar ... to do!
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\cmdtxtopar{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                  \verb|\txtoparNewCmd{Name}[sub][sup][Par] = \verb|\Name|_{SUB}^{SUP}[Par]|
                           337 \newcommand{\cmdtxtopar}[1]
                                  {\csdef{txtopar#1}{\newtxtoparsty{\csname txtsty#1\endcsname}}}
     \cmdtxtall ... to do!
                               • \cmdtxtall{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                  \verb|\txtNewCmd{Name}[sub][sup][Ext] = \verb|\NAME|_{SUB}^{SUP}Ext|
                                  \texttt{\txtargNewCmd}[Sub][Sub][Ext1] \{Arg\}[Ext2] = \texttt{Name}_{SUB}^{SUP}Ext1(Arg)Ext2
                                  \verb|\txtoargNewCmd{Name}[sub][sup][Arg] = \verb|\Name|^{SUP}(Arg)
                                  \label{eq:local_local_transform} $$ \text{LxtparNewCmd}_{Name}[sub][sup][Ext1]_{Par}[Ext2] = Name_{SUB}^{SUP}Ext1[Par]Ext2$
                                  \t \ [sub] [sup] [Par] = NAME_SUB [PAR]
                           339 \newcommand{\cmdtxtall}[1]
                           340 {\cmdtxt{#1}\cmdtxtarg{#1}\cmdtxtoarg{#1}\cmdtxtpar{#1}\cmdtxtopar{#1}}
                           \usrtxt ... to do!
                               • \usrtxt{cmdName}{Suf}{}; \cmdNameSuf = cmdName
                                  \t {cmdName} {Suf} {arg}; \t {Arg} = cmdName(Arg)
                                  \t {cmdName} {Suf} {par}; \t {Par} = cmdName [Par]
                               • \usrtxt{cmdName}{Suf}{}[newName]; \cmdNameSuf = newName
                                  \usrtxt{cmdName}{Suf}{arg}[newName]; \cmdNameSuf{Arg} = newName(Arg)
                                  342 \newcommandx{\usrtxt}[4][4=]
                                 {\csdef{#1#2}{\csname txt#3\endcsname{\defval{#4}{#1}}}}
                           \newmth ... to do!
                               • \newmth[mathsf]{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                               • \newmth[mathtt]{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                           348 \newcommandx{\newmth}[5][1=, 3=, 4=, 5=]
                                  {\ensuremath{\csname#1\endcsname{#2}\mthsubsup{#3}{#4}#5}}
     \newmthsty ... to do!
                               • \newmthsty{mathrm}{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                               • \newmthsty{mathrm} [mathsf] {Name} [sub] [sup] [Ext] = "Name_{sub}^{sup}Ext"
                               • \newmthsty{mathrm}[mathtt]{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                           350 \newcommandx{\newmthsty}[2][2=]
                           351 \{ \left( \frac{\#2}{\#1} \right) \}
     \newmtharg ... to do!
                               • \newmtharg[mathrm] {Name} [sub] [sup] [Ext1] {Arg} [Ext2] = "Name _{sub}^{sup} Ext1(Arg) Ext2"
                               \bullet \ \texttt{\ \ } [\texttt{Ext1}] \ \texttt{\ \ } [\texttt{Ext2}] = \ \texttt{\ \ \ } [\texttt{Ext2}] = \ \texttt{\ \ \ } [\texttt{Ext2}] = \ \texttt{\ \ \ } [\texttt{\ \ \ } [\texttt{\ \ \ } ] 
                                \bullet \verb| \newmtharg[mathtt]{Name}[sub][sup][Ext1]{Arg}[Ext2] = \verb| "Name| | sub| Ext1(Arg)Ext2" |
                           352 \newcommandx{\newmtharg}[7][1=, 3=, 4=, 5=, 7=]
                                  {\newmth[#1]{#2}[#3][#4][#5\argmid{\!\left(}{#6}{\right)\arglef{\!}{#7}}]}
\newmthargsty ... to do!
                                \bullet \verb| \norm{sup}{mathrm}{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name {sup}{sub}Ext1(Arg)Ext2" \\
                               • \newmthargsty{mathrm}[mathsf]{Name}[sub] [sub] [Ext1] {Arg} [Ext2] = "Nam_{sup}^{sup}Ext1(Arg)Ext2"
                                \bullet \verb| \newmthargsty{mathrm}| [mathtt]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name|_{sub}^{sup} Ext1(Arg) Ext2" | \newmthargsty{mathrm}| [mathtt]|_{sub}^{sup} Ext1(Arg) | \newmthargsty{mathrm}|_{sub}^{sup} Ext1(Arg) | \newmthargsty{mathrm}|_{sub}^{sup} | \newmthargsty{mat
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354 \newcommandx{\newmthargsty}[2][2=]
                                                                       {\newmtharg[\defval{#2}{#1}]}
          \newmthoarg ... to do!
                                                                 • \newmthoarg[mathrm] {Name} [sub] [sup] [Arg] = "Name_{sub}^{sup}(Arg)"
                                                                  • \newmthoarg[mathsf]{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
                                                                  • \newmthoarg[mathtt]{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
                                                         356 \newcommandx{\newmthoarg}[5][1=, 3=, 4=, 5=]
                                                                          {\text{newmtharg}}[#1]{#2}[#3][#4][]{#5}[]}
\newmthoargsty ... to do!
                                                                 • \newmthoargsty{mathrm}{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
                                                                 • \newmthoargsty{mathrm} [mathsf] {Name} [sub] [sup] [Arg] = "Name_{sub}^{sup}(Arg)"
                                                                   \qquad \qquad \texttt{`newmthoargsty{mathrm}[mathtt]{Name}[sub][sup][Arg]} = \texttt{``Name}_{sub}^{sup}(Arg) \texttt{''} \\
                                                         358 \newcommandx{\newmthoargsty}[2][2=]
                                                                          {\newmthoarg[\defval{#2}{#1}]}
             \newmthpar ... to do!
                                                                 • \newmthpar[mathrm] {Name} [sub] [sup] [Ext1] {Par} [Ext2] = "Name _{sub}^{sup} Ext1[Par] Ext2"
                                                                 • \newmthpar[mathtt] {Name} [sub] [sup] [Ext1] {Par} [Ext2] = "Name _{sub}^{sup} Ext1[Par] Ext2"
                                                         360 \newcommandx{\newmthpar}[7][1=, 3=, 4=, 5=, 7=]
                                                                          {\newmth[#1]{#2}[#3][#4][#5\argmid{\!\left[}{#6}{\right]\arglef{\!}{#7}}]}
   \newmthparsty ... to do!
                                                                  \bullet \verb| \normal| \normal| \verb| \normal| \verb| \normal| \verb| \normal| \verb| \normal| \
                                                                   \bullet \texttt{ \  \  } \texttt{ [Ext1] \{Par\}[Ext2]} = \texttt{``Name}_{sub}^s Ext1[Par] Ext2" \\
                                                                  • \newmthparsty{mathrm}[mathtt]{Name}[sub] [sup] [Ext1]{Par} [Ext2] = "Name _{sub}^{sup}Ext1[Par]Ext2"
                                                         362 \newcommandx{\newmthparsty}[2][2=]
                                                                         {\newmthpar[\defval{#2}{#1}]}
          \newmthopar ... to do!
                                                                  \bullet \verb| \newmthopar[mathrm] {Name} [sub] [sup] [Par] = "Name_{sub}^{sup} [Par]" 
                                                                  • \newmthopar[mathtt]{Name}[sub][sup][Par] = "Name_{sub}^{sup}[Par]"
                                                         364 \newcommandx{\newmthopar}[5][1=, 3=, 4=, 5=]
                                                                          {\newmthpar[#1]{#2}[#3][#4][]{#5}[]}
\newmthoparsty ... to do!
                                                                 \bullet \ \texttt{\ \ } [sub] \ [sup] \ [Par] = "Name_{sub}^{sup} [Par]"
                                                                  • \newmthoparsty{mathrm} [mathsf] {Name} [sub] [sup] [Par] = "Name_{sub}^{sup}[Par]"
                                                                   \bullet \ \texttt{\  \  } \ \texttt{\  \  \  } \ \texttt{\  \  } \ \texttt{\  \  \  \  } \ \texttt{\  \  \  \ } \ \texttt{\  \  \  } \ \texttt{\  \  \  } \ \texttt{\  \  \  } \ \texttt{\  \  \  \ } \ \texttt{\  \ 
                                                         366 \newcommandx{\newmthoparsty}[2][2=]
                                                                       {\mathbb{L}}{\mathbb{L}}
             \mthsubsup ... to do!
                                                         368 \newcommand{\mthsubsup}[2]
                                                                      {\empchk{#1}{_{#1}}\empchk{#2}{^{#2}\!}}
                                                         \mth ... to do!
                                                                 • \mathbb{Sup}[Sup][Ext] = "Name^{sup}_{sub}Ext"
                                                                  • \mathbf{Name}_{sub}^{sup}[\mathbf{Ext}] = \mathbf{Name}_{sub}^{sup}Ext
                                                                  • \mbox{\mbox{\tt mth[mathtt]}{\tt Name}[sub][sup][Ext] = "Name}_{sub}^{sup}Ext"}
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371 \newcommand{\mth}
                                                                                                              {\newmthsty{\mthsty}}
                       \mtharg ... to do!
                                                                                                    • \mtharg{Name} [sub] [sup] [Ext1] {Arg} [Ext2] = "Name_{sub}^{sup}Ext1(Arg)Ext2"
                                                                                                    • \mathbb{E}[xt1] = \mathbb{E}[xt2] = \mathbb{E}[xt1] = \mathbb{E}[xt2] = \mathbb{E}[xt1] = \mathbb{E}[xt2]
                                                                                                     • \mtharg[mathtt] {Name} [sub] [sup] [Ext1] {Arg} [Ext2] = "Name _{sub}^{sup} Ext1(Arg) Ext2"
                                                                                     373 \mbox{ } \mbox{mtharg}
                                                                                                               {\newmthargsty{\mthsty}}
                  \mthoarg ... to do!
                                                                                                    • \mthoarg{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
                                                                                                    • \mthoarg[mathbf]{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
                                                                                                     \bullet \  \, \texttt{\bar{lame}[mathtt]{Name}[sub][sup][Arg]} = \texttt{\bar{"Name}}^{sup}_{sub}(Arg)"
                                                                                     375 \newcommand{\mthoarg}
                                                                                                                   {\newmthoargsty{\mthsty}}
                       \mthpar ... to do!
                                                                                                    \bullet \  \, \texttt{\bare}[\mathtt{Sub}] \  \, \texttt{\bare}[\mathtt{Ext1}] \  \, \texttt{\bare}[\mathtt{Ext2}] \  \, = \  \, "Name^{sup}_{sub} Ext1[Par] Ext2"
                                                                                                    \bullet \  \, \texttt{\bare}[mathbf] \  \, \texttt{\bare}[sub] \  \, \texttt{\bare}[Ext1] \  \, \texttt{\bare}[Ext2] \  \, = \  \, \text{\bare}[mathbf] \  \, \texttt{\bare}[Ext1] \  \, \texttt{\bare}[Ext2] \  \, = \  \, \text{\bare}[mathbf] \  \, \texttt{\bare}[Ext2] \  \, = \  \, \text{\bare}[Ext2] \  \, = 
                                                                                                    \bullet \  \, \texttt{\bare}[mathtt] \, \{\texttt{Name}\} \, [\texttt{sub}] \, [\texttt{Ext1}] \, \{\texttt{Par}\} \, [\texttt{Ext2}] \, = \, \text{\bare} \, \sup_{sub} Ext1 [Par] Ext2 \, \text{\bare} \, [\texttt{Ext2}] \, = \, \text{
                                                                                      377 \newcommand{\mthpar}
                                                                                                               {\newmthparsty{\mthsty}}
                  \mthopar ... to do!
                                                                                                    • \mthopar[mathbf] {Name} [sub] [sup] [Par] = "Name_{sub}^{sup} [Par]"
                                                                                                     • \mthopar[mathtt] {Name} [sub] [sup] [Par] = "Name _{sub}^{sup}[Par]"
                                                                                     379 \newcommand{\mthopar}
                                                                                                               {\newmthoparsty{\mthsty}}
                        \mthsty ... to do!
                                                                                    381 \newcommand{\mthsty}
                                                                                    382 {}
                                                                                     \cmdmth ... to do!
                                                                                                    \bullet \ \mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mb
                                                                                                               \mathcal{E}_{sub} [sub] [sup] [Ext] = \mathcal{E}_{sub}
                                                                                      384 \newcommand{\cmdmth}[1]
                                                                                                             {\csdef{mth#1}{\newmthsty{mthsty#1}}}
     \cmdmtharg ... to do!
                                                                                                     • \cmdmtharg{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                                \mbox{\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\
                                                                                      386 \newcommand{\cmdmtharg}[1]
                                                                                                           {\csdef{mtharg#1}{\newmthargsty{mthsty#1}}}
                                                                                    387
\cmdmthoarg ... to do!
                                                                                                     • \cmdmthoarg{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                               \verb|\mbox| \verb| [sub] [sup] [Arg] = \verb|\mbox| \verb| [sup] [Arg] = \verb|\mbox| \verb| [sub] [sup] |
                                                                                     388 \newcommand{\cmdmthoarg}[1]
                                                                                                               {\csdef{mthoarg#1}{\newmthoargsty{mthsty#1}}}
     \cmdmthpar ... to do!
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\cmdmthpar{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                      \mathbb{E}[\operatorname{Sup}_{sub}][\operatorname{Sup}_{sub}][\operatorname{Ext1}_{sub}][\operatorname{Ext2}] = \operatorname{Name}_{sub}^{sup}Ext1[Par]Ext2
                                          390 \newcommand{\cmdmthpar}[1]
                                                       {\csdef{mthpar#1}{\newmthparsty{mthsty#1}}}
      \cmdmthopar
                                       ... to do!
                                                 • \cmdmthopar{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                      \mbox{\t Mame} [sub] [sup] [Par] = \mbox{\t Name} sup [Par]
                                          392 \newcommand{\cmdmthopar}[1]
                                                      {\csdef{mthopar#1}{\newmthoparsty{mthsty#1}}}
        \cmdmthall ... to do!
                                                 • \cmdmthall{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                      \verb|\mthNewCmd{Name}[sub][sup][Ext]| = \verb|\mame| sub | Ext| = \verb|\mame| sub | Ext| = \verb|\mame| sub | Ext| |
                                                      \verb|\mathargNewCmd{Name}[sub][sup][Ext1]{Arg}[Ext2] = \verb|\mathargNewCmd{Name}[sub][sup][ext1][Arg][ext2] = \verb|\mathargNewCmd{Name}[sub][sub][sup][ext1][arg][ext2] = \verb|\mathargNewCmd{Name}[sub][sub][sub][ext2][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ex
                                                      \verb|\mbox| \verb| Sup| [Arg] = \verb|\mbox| mame| sup| [sup] [Arg] = \verb|\mbox| mame| sup| (Arg)
                                                      \verb|\mbox| \verb| mthparNewCmd{Name}[sub][sup][Ext1]{Par}[Ext2] = \verb|\mbox| \verb| mame| sub| Ext1[Par]Ext2|
                                                      \verb|\mbox| | [sub] [sup] [Par] = \verb|\mbox| | [sub] [Par] = \verb|\mbox| | [sub] | [
                                          394 \newcommand{\cmdmthall}[1]
                                                      {\cmdmth{#1}\cmdmtharg{#1}\cmdmthoarg{#1}\cmdmthpar{#1}\cmdmthopar{#1}}
                                          \usrmth ... to do!
                                                 • \sl = cmdName 
                                                      \verb|\usrmth{cmdName}{Suf}{par}[newName]; \verb|\cmdNameSuf}{Par} = newName[Par]
                                           397 \newcommandx{\usrmth}[4][4=]
                                                      {\csdef{#1#2}{\csname mth#3\endcsname{\defval{#4}{#1}}}}
                                          \usrmthlatlow ... to do!
                                          400 \newcommandx{\usrmthlatlow}[4][4=]
                                                      {\usrmth{#1}{#2}{#3}[#4]\seqoflatlow{#1#2}{mth#3}}
\usrmthlatupp ... to do!
                                          402 \verb|\newcommandx{\newcommandx{\newcommandx}[4][4=]}
                                                      {\usrmth{#1}{#2}{#3}[#4]\seqoflatupp{#1#2}{mth#3}}
\usrmthlatlet ... to do!
                                          404 \newcommandx{\usrmthlatlet}[4][4=]
                                                      {\usrmth{#1}{#2}{#3}[#4]\seqoflatlet{#1#2}{mth#3}}
\usrmthgrklow ... to do!
                                          406 \newcommandx{\usrmthgrklow}[4][4=]
                                                       {\usrmth{#1}{#2}{#3}[#4]\seqofgrklow{#1#2}{mth#3}}
\usrmthgrkupp ... to do!
                                          408 \newcommandx{\usrmthgrkupp}[4][4=]
                                                       {\usrmth{#1}{#2}{#3}[#4]\seqofgrkupp{#1#2}{mth#3}}
\usrmthgrklet ... to do!
                                          410 \newcommandx{\usrmthgrklet}[4][4=]
                                                        {\usrmth{#1}{#2}{#3}[#4]\seqofgrklet{#1#2}{mth#3}}
        \usrmthlow ... to do!
                                          412 \newcommandx{\usrmthlow}[4][4=]
                                                      {\usrmth{#1}{#2}{#3}[#4]\seqoflow{#1#2}{mth#3}}
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\usrmthupp ... to do!
                               414 \newcommandx{\usrmthupp}[4][4=]
                               415 {\usrmth{#1}{#2}{#3}[#4]\seqofupp{#1#2}{mth#3}}
       \usrmthlet ... to do!
                               416 \newcommandx{\usrmthlet}[4][4=]
                               417 {\usrmth{#1}{#2}{#3}[#4]\seqoflet{#1#2}{mth#3}}
                                422 \iftxtgen@
   \txtdef, ... to do!
                                    ullet \txtdef{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                     \qquad \qquad \bullet \  \  \, \texttt{`txtargdef\{Name\}[sub][sup][Ext1]\{Arg\}[Ext2]} = Name_{sub}^{sup}Ext1(Arg)Ext2 
                                    ullet \txtpardef{Name}[sub][sup][Ext1]{Par}[Ext2] = Name_{ext}^{sup}Ext1/Par]Ext2
                                423 %% Style for Definitions
                               424 \verb|\def|\newcommand{\txtstydef}{\normalfont\bfseries\em}|
       \cmdtxtdef ... to do!
                                    • \cmdtxtdef{cmdName};
                                        \verb|\cmdName[sub][sub][ext]| = cmdName_{sub}^{sub}ext
                                    • \cmdtxtdef{cmdName}[newName];
                                        \colon = newName[sub][sub][ext] = newName^{sub}_{sub}ext
                                425 \newcommandx{\cmdtxtdef}[2][2=]
                                        {\usrtxt{#1}{}{def}[#2]}
 \cmdtxtargdef ... to do!
                                    • \cmdtxtargdef{cmdName};
                                        \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                    • \cmdtxtargdef{cmdName}[newName];
                                        \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = newName_{sub}^{sub}ext1(arg)ext2
                                427 \newcommandx{\cmdtxtargdef}[2][2=]
                               428 {\usrtxt{#1}{}{argdef}[#2]}
\cmdtxtoargdef ... to do!
                                    \cmdtxtoargdef{cmdName};
                                        \colon colon col
                                    • \cmdtxtoargdef{cmdName}[newName];
                                        \colon = [sub][sub][arg] = newName^{sub}_{sub}(arg)
                                429 \newcommandx{\cmdtxtoargdef}[2][2=]
                                430 {\usrtxt{#1}{}{oargdef}[#2]}
 \cmdtxtpardef ... to do!
                                    • \cmdtxtpardef{cmdName};
                                        \cmdName[sub][sub][ext1]\{par\}[ext2] = cmdName_{sub}^{sub}ext1/par]ext2
                                    \cmdtxtpardef{cmdName}[newName];
                                        \verb|\cmdName[sub][sub][ext1]{par}[ext2] = newName_{sub}^{sub}ext1[par]ext2
                                431 \newcommandx{\cmdtxtpardef}[2][2=]
                               432 {\usrtxt{#1}{}{pardef}[#2]}
\cmdtxtopardef ... to do!
                                    • \cmdtxtopardef{cmdName};
                                        \cmdName[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                    • \cmdtxtopardef{cmdName}[newName];
                                        \verb|\cmdName[sub][sub][par]| = newName_{sub}^{sub}/par|
```

```
433 \newcommandx{\cmdtxtopardef}[2][2=]
                         {\usrtxt{#1}{}{opardef}[#2]}
  \txtabr, ... to do!
                       ullet \txtabr{Name}[sub][sup][Ext] = Name_{
m sub}^{
m sup}Ext
                       • \txtargabr{Name} [sub] [sup] [Ext1] {Arg} [Ext2] = Name_{\text{sub}}^{\text{sup}} Ext1(Arg) Ext2
                       • \txtparabr{Name} [sub] [sup] [Ext1] {Par} [Ext2] = Name_{\mathrm{sub}}^{\mathrm{sup}} Ext1[Par]Ext2
                    435 %% Style for Abbreviations
                    436 \cmdtxtall{abr}\newcommand{\txtstyabr}{\em}
    \cmdtxtabr ... to do!
                       \cmdtxtabr{cmdName};
                         \verb|\cmdName[sub][sub][ext]| = cmdName_{\rm sub}^{\rm sub}ext
                       • \cmdtxtabr{cmdName}[newName];
                          \colon dName[sub][sub][ext] = newName_{sub}^{sub}ext
                    437 \verb|\newcommandx{\cmdtxtabr}[2][2=]
                    438 {\usrtxt{#1}{}{abr}[#2]}
 \cmdtxtargabr ... to do!
                       • \cmdtxtargabr{cmdName};
                         \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                       • \cmdtxtargabr{cmdName}[newName];
                         \cmdName[sub][sub][ext1]{arg}[ext2] = newName_{sub}^{sub}ext1(arg)ext2
                    439 \newcommandx{\cmdtxtargabr}[2][2=]
                    440 {\usrtxt{#1}{}{argabr}[#2]}
\cmdtxtoargabr ... to do!
                       • \cmdtxtoargabr{cmdName};
                         \cmdName[sub][sub][arg] = cmdName_{sub}^{sub}(arq)
                       • \cmdtxtoargabr{cmdName}[newName];
                         \colon = newName[sub][sub][arg] = newName[sub](arg)
                    441 \newcommandx{\cmdtxtoargabr}[2][2=]
                    442 {\usrtxt{#1}{}{oargabr}[#2]}
 \cmdtxtparabr ... to do!
                       • \cmdtxtparabr{cmdName};
                         \cmdName[sub][sub][ext1][par][ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                       • \cmdtxtparabr{cmdName} [newName];
                         \verb|\cmdName[sub][sub][ext1]{par}[ext2] = newName_{sub}^{sub}ext1[par]ext2|
                    443 \newcommandx{\cmdtxtparabr}[2][2=]
                         {\usrtxt{#1}{}{parabr}[#2]}
\cmdtxtoparabr ... to do!
                       • \cmdtxtoparabr{cmdName};
                          \cmdName[sub] [sub] [par] = cmdName_{\text{sub}}^{\text{sub}}/par
                       • \cmdtxtoparabr{cmdName}[newName];
                         \cmdName[sub][sub][par] = newName_{sub}^{sub}/par]
                    445 \newcommandx{\cmdtxtoparabr}[2][2=]
                         {\usrtxt{#1}{}{oparabr}[#2]}
                    \txtname, ... to do!
                       • \text{txtname}\{\text{Name}\}[\text{sub}][\text{Sup}][\text{Ext}] = \text{Name}_{\text{Sup}}^{\text{SUP}}\text{Ext}
                       • \text{txtargname}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Ext1}]\{\text{Arg}\}[\text{Ext2}] = \text{Name}_{\text{SUB}}^{\text{SUP}}\text{Ext1}(\text{Arg})\text{Ext2}
                       • \text{txtparname}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Ext1}]\{\text{Par}\}[\text{Ext2}] = \text{Name}_{\text{SUB}}^{\text{SUP}}\text{Ext1}[\text{Par}]\text{Ext2}
```

```
448 %% Style for Names
                                         449 \cmdtxtall{name}\newcommand{\txtstyname}{\normalfont\mdseries\scshape\sffamily}
         \cmdtxtname ... to do!
                                               \cmdtxtname{cmdName};
                                                   \cmdName[sub][sub][ext] = CMDNAME_{SUB}^{SUB}EXT
                                               • \cmdtxtname{cmdName}[newName];
                                                   \c Mame[sub][sub][ext] = NEWNAME_{SUB}^{SUB}EXT
                                         450 \newcommandx{\cmdtxtname}[2][2=]
                                         451 {\usrtxt{#1}{}{name}[#2]}
  \cmdtxtargname ... to do!
                                               • \cmdtxtargname{cmdName};
                                                   \label{lem:cmdName} $$ \operatorname{[sub][sub][ext1]}_{arg}[ext2] = \operatorname{CMDNAME}_{SUB}^{SUB} \operatorname{EXT1}(\operatorname{ARG}) \operatorname{EXT2} $$
                                               • \cmdtxtargname{cmdName}[newName];
                                                    \cmdName[sub][sub][ext1]{arg}[ext2] = NEWNAME_{SUB}^{SUB}EXT1(ARG)EXT2
                                          452 \newcommandx{\cmdtxtargname}[2][2=]
                                         453 {\usrtxt{#1}{}{argname}[#2]}
\cmdtxtoargname ... to do!
                                               \cmdtxtoargname{cmdName};
                                                   \cmdName[sub][sub][arg] = CMDNAME_{SUB}^{SUB}(ARG)
                                               • \cmdtxtoargname{cmdName}[newName];
                                                   \colon = NEWNAME_{SUB}^{SUB}(ARG)
                                         454 \newcommandx{\cmdtxtoargname}[2][2=]
                                                   {\usrtxt{#1}{}{oargname}[#2]}
  \cmdtxtparname ... to do!
                                               \cmdtxtparname{cmdName};
                                                   \verb|\cmdName[sub][sub][ext1]{par}[ext2] = \verb|\cmdName[sub]| = \verb|\cmdNam
                                               • \cmdtxtparname{cmdName}[newName];
                                                    456 \newcommandx{\cmdtxtparname}[2][2=]
                                                  {\usrtxt{#1}{}{parname}[#2]}
\cmdtxtoparname ... to do!
                                               \cmdtxtoparname{cmdName};
                                                   \verb|\cmdName[sub][par]| = CMDNAME_{SUB}^{SUB}[PAR]|
                                               \cmdtxtoparname{cmdName}[newName];
                                                   \verb|\cmdName[sub][sub][par]| = NEWNAME_{SUB}^{SUB}[PAR]|
                                         458 \newcommandx{\cmdtxtoparname}[2][2=]
                                         459 {\usrtxt{#1}{}{oparname}[#2]}
       \txtcom, ... to do!
                                               • \text{txtcom{Name}[sub][sup][Ext]} = \text{Name}_{SUB}^{SUP} \text{Ext}
                                               • \t xtargcom{Name}[sub][sup][Ext1]{Arg}[Ext2] = NAME_{SUB}^{SUP}EXT1(ARG)EXT2
                                               \bullet \ \texttt{\txtparcom{Name}[sub][sup][Ext1]{Par}[Ext2]} = NAME^{SUP}_{SUB}EXT1[PAR]EXT2
                                         460 %% Style for Complexities
                                         461 \cmdtxtall{com}\newcommand{\txtstycom}{\normalfont\mdseries\scshape\rmfamily}
           \cmdtxtcom ... to do!
                                               • \cmdtxtcom{cmdName};
                                                   \verb|\cmdName[sub][sub][ext]| = \texttt{CMDNAME}^{\texttt{SUB}}_{\texttt{SUB}} \texttt{EXT}
                                               • \cmdtxtcom{cmdName} [newName];
                                                   462 \newcommandx{\cmdtxtcom}[2][2=]
                                          463 {\usrtxt{#1}{}{com}[#2]}
```

```
\cmdtxtargcom ... to do!
                      • \cmdtxtargcom{cmdName};
                         \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = CMDNAME_{SUB}^{SUB}EXT1(ARG)EXT2
                      • \cmdtxtargcom{cmdName}[newName];
                         464 \newcommandx{\cmdtxtargcom}[2][2=]
                        {\usrtxt{#1}{}{argcom}[#2]}
\cmdtxtoargcom ... to do!
                      • \cmdtxtoargcom{cmdName};
                        \colon = CMDNAME_{SUB}^{SUB}(ARG)
                      \cmdtxtoargcom{cmdName}[newName];
                        \verb|\cmdName[sub][sub][arg]| = NEWNAME_{SUB}^{SUB}(ARG)
                   466 \newcommandx{\cmdtxtoargcom}[2][2=]
                        {\usrtxt{#1}{}{oargcom}[#2]}
 \cmdtxtparcom ... to do!
                      • \cmdtxtparcom{cmdName};
                        \verb|\cmdName[sub][sub][ext1]{par}[ext2] = \verb|\cmdName[sub][sub][ext1]{par}[ext2]
                      • \cmdtxtparcom{cmdName} [newName];
                        \label{lem:lemma:equation:lemma:equation:ext} $$ \operatorname{CmdName}[\operatorname{sub}][\operatorname{sub}][\operatorname{ext1}][\operatorname{par}][\operatorname{ext2}] = \operatorname{NEWNAME}_{\operatorname{SUB}}^{\operatorname{SUB}} \operatorname{EXT1}[\operatorname{PAR}] \operatorname{EXT2} $$
                   468 \verb|\newcommandx{\cmdtxtparcom}[2][2=]
                        {\usrtxt{#1}{}{parcom}[#2]}
\cmdtxtoparcom ... to do!
                      • \cmdtxtoparcom{cmdName};
                        \label{eq:cmdNamesub} $$ \cmdName[sub][sub][par] = CMDNAME_{SUB}^{SUB}[PAR] $$
                      \cmdtxtoparcom{cmdName}[newName];
                        \verb|\cmdName[sub][par]| = NEWNAME_{SUB}^{SUB}[PAR]|
                   470 \newcommandx{\cmdtxtoparcom}[2][2=]
                        {\usrtxt{#1}{}{oparcom}[#2]}
                   472 \fi
                   477 \ifmthgen@
 \mthname, ... to do!
                      • \mthname{NAME}[sub][sup][Ext] = \mathcal{NAME}_{sub}^{sup}Ext
                      \bullet \  \, \texttt{\bar{NAME}[sub][sup][Ext1]\{Arg\}[Ext2]} = \mathcal{NAME}^{sup}_{sub} Ext1(Arg) Ext2
                      • \mthparname{NAME}[sub][sup][Ext1]{Par}[Ext2] = \mathcal{NAME}^{sup}_{sub}Ext1[Par]Ext2
                   478 %% Style for Names
                   479 \mbox{ } \mbox{mthall{name}\newcommand{\mbox{mthstyname}{\mbox{mathcal}}}
   \AName, ... to do!
                  \mathcal{A},\,\mathcal{B},\,\mathcal{C},\,\mathcal{D},\,\mathcal{E},\,\mathcal{F},\,\mathcal{G},\,\mathcal{H},\,\mathcal{I},\,\mathcal{J},\,\mathcal{K},\,\mathcal{L},\,\mathcal{M},\,\mathcal{N},\,\mathcal{O},\,\mathcal{P},\,\mathcal{Q},\,\mathcal{R},\,\mathcal{S},\,\mathcal{T},\,\mathcal{U},\,\mathcal{V},\,\mathcal{W},\,\mathcal{X},\,\mathcal{Y},\,\mathcal{Z}
                   480 \seqoflatupp{Name}{mthname}
   \cmdmthname ... to do!
                      • \cmdmthname{CMDNAME};
                         \CMDNAMEName[sub][sub][ext] = \mathcal{CMDNAME}_{sub}^{sub}ext
                      • \cmdmthname{cmdName}[NEWNAME];
                        \colon {\tt CmdNameName[sub][sub][ext]} = \mathcal{NEWNAME}^{sub}_{sub}ext
                   481 \newcommandx{\cmdmthname}[2][2=]
                   482 {\usrmth{#1}{Name}{name}[#2]}
```

```
\cmdmthargname ... to do!
                                              • \cmdmthargname{CMDNAME};
                                                   \CMDNAMEName[sub][sub][ext1]{arg}[ext2] = \mathcal{CMDNAME}_{sub}^{sub}ext1(arg)ext2
                                              • \cmdmthargname{cmdName}[NEWNAME];
                                                   \cmdNameName[sub][sub][ext1]{arg}[ext2] = \mathcal{NEWNAME}_{sub}^{sub}ext1(arg)ext2
                                         483 \newcommandx{\cmdmthargname}[2][2=]
                                                  {\usrmth{#1}{Name}{argname}[#2]}
\cmdmthoargname ... to do!
                                              • \cmdmthoargname{CMDNAME};
                                                   \verb|\CMDNAMEName[sub][sub][arg]| = \mathcal{CMDNAME}_{sub}^{sub}(arg)
                                              • \cmdmthoargname{cmdName}[NEWNAME];
                                                  \colon {\tt cmdNameName[sub][sub][arg]} = \mathcal{NEWNAME}^{sub}_{sub}(arg)
                                         485 \newcommandx{\cmdmthoargname}[2][2=]
                                                  {\usrmth{#1}{Name}{oargname}[#2]}
  \cmdmthparname ... to do!
                                              • \cmdmthparname{CMDNAME};
                                                  \CMDNAMEName[sub][sub][ext1]{par}[ext2] = \mathcal{CMDNAME}_{sub}^{sub}ext1[par]ext2
                                              • \cmdmthparname{cmdName}[NEWNAME];
                                                   \cmdNameName[sub][sub][ext1]{par}[ext2] = \mathcal{NEWNAME}_{sub}^{sub}ext1[par]ext2
                                         487 \newcommandx{\cmdmthparname}[2][2=]
                                                 {\usrmth{#1}{Name}{parname}[#2]}
\cmdmthoparname ... to do!
                                              • \cmdmthoparname{CMDNAME};
                                                   \verb|\CMDNAMEName[sub][sub][par]| = \mathcal{CMDNAME}_{sub}^{sub}[par]
                                              • \cmdmthoparname{cmdName}[NEWNAME];
                                                   \verb|\cmdNameName[sub][sub][par]| = \mathcal{NEWNAME}_{sub}^{sub}[par]
                                         489 \newcommandx{\cmdmthoparname}[2][2=]
                                                  {\usrmth{#1}{Name}{oparname}[#2]}
      \mthfam, ... to do!
                                              \bullet \  \, \texttt{\bar{NAME}[sub][sub][Ext1]{Arg}[Ext2]} = \mathcal{NAME}^{sup}_{sub}Ext1(Arg)Ext2
                                              \bullet \  \, \texttt{\bar{NAME}[sub][sub][Ext1]{Par}[Ext2]} = \mathcal{N} \, \mathcal{M} \, \mathcal{E}_{sub}^{sup} Ext1[Par]Ext2]
                                         491 %% Style for Families
                                         492 \cmdmthall{fam}\newcommand{\mthstyfam}{\mathscr}
           \AFam, ... to do!
                                      \mathcal{A}, \mathcal{B}, \mathcal{C}, \mathcal{D}, \mathcal{E}, \mathcal{F}, \mathcal{G}, \mathcal{H}, \mathcal{J}, \mathcal{J}, \mathcal{H}, \mathcal{L}, \mathcal{M}, \mathcal{N}, \mathcal{O}, \mathcal{P}, \mathcal{Q}, \mathcal{R}, \mathcal{F}, \mathcal{T}, \mathcal{U}, \mathcal{V}, \mathcal{W}, \mathcal{X}, \mathcal{Y}, \mathcal{Y}
                                        493 \seqoflatupp{Fam}{mthfam}
           \cmdmthfam ... to do!
                                              \cmdmthfam{CMDNAME};
                                                   \CMDNAMEFam[sub][sub][ext] = \mathscr{CMDNAMEF}am[sub][sub][ext] = \mathscr{CMDNAMEF}am[sub]
                                              • \cmdmthfam{cmdName}[NEWNAME];
                                                  \cmdNameFam[sub][sub][ext] = \mathcal{NEWNAME}_{sub}^{sub}ext
                                         494 \newcommandx{\cmdmthfam}[2][2=]
                                        495 {\usrmth{#1}{Fam}{fam}[#2]}
    \cmdmthargfam ... to do!
                                              • \cmdmthargfam{CMDNAME};
                                                   \verb|\CMDNAMEFam[sub][sub][ext1]{arg}[ext2] = \mathscr{CMDNAMEFam}[sub][sub][ext1]{arg}[ext2] = \mathscr{CMDNAMEFam}[sub][sub][ext1][ext2] = \mathscr{CMDNAMEFam}[sub][ext2][ext2] = \mathscr{CMDNAMEFam}[sub][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ex
                                              • \cmdmthargfam{cmdName}[NEWNAME];
                                                   \verb|\cmdNameFam[sub][sub][ext1]{arg}[ext2] = \mathscr{NEWNAME}^{sub}_{sub}ext1(arg)ext2
```

```
496 \newcommandx{\cmdmthargfam}[2][2=]
                                                  {\usrmth{#1}{Fam}{argfam}[#2]}
\cmdmthoargfam ... to do!
                                               \cmdmthoargfam{CMDNAME};
                                                   \CMDNAMEFam[sub][sub][arg] = \mathscr{CMDNAMEFam}[sub](arg)
                                               • \cmdmthoargfam{cmdFam}[NEWNAME];
                                                   \verb|\cmdFamFam[sub][sub][arg]| = \mathscr{NEWNAME}^{sub}_{sub}(arg)
                                         498 \newcommandx{\cmdmthoargfam}[2][2=]
                                                  {\usrmth{#1}{Fam}{oargfam}[#2]}
  \cmdmthparfam ... to do!
                                               • \cmdmthparfam{CMDNAME};
                                                   \verb|\CMDNAMEFam[sub][sub][ext1]{par}[ext2] = \mathscr{CMDNAMEFam}[sub][sub][ext1][par]ext2
                                               • \cmdmthparfam{cmdName}[NEWNAME];
                                                   \cmdNameFam[sub][sub][ext1]{par}[ext2] = \mathcal{NEWNAME}_{sub}^{sub}ext1[par]ext2
                                         500 \newcommandx{\cmdmthparfam}[2][2=]
                                                  {\usrmth{#1}{Fam}{parfam}[#2]}
\cmdmthoparfam ... to do!
                                               • \cmdmthoparfam{CMDNAME};
                                                   \CMDNAMEFam[sub][sub][par] = \mathscr{EMDNAME}_{sub}^{sub}[par]
                                               \cmdmthoparfam{cmdFam}[NEWNAME];
                                                   \label{eq:cmdFamFam} $$ \operatorname{Sub}[\operatorname{sub}][\operatorname{par}] = \mathcal{NEWNAME}_{sub}^{sub}[\operatorname{par}] $$
                                         502 \newcommandx{\cmdmthoparfam}[2][2=]
                                                   {\usrmth{#1}{Fam}{oparfam}[#2]}
    \mthcls, ... to do!
                                               • \mthcls{NAME}[sub][sup][Ext] = \mathcal{NAME}_{sub}^{sup}Ext
                                               • \mthargcls{NAME}[sub][sup][Ext1]{Arg}[Ext2] = \mathcal{NAME}_{sub}^{sup}Ext1(Arg)Ext2
                                               \bullet \ \texttt{\nAME} \ [\texttt{sub}] \ [\texttt{sup}] \ [\texttt{Ext1}] \ \{\texttt{Par}\} \ [\texttt{Ext2}] \ = \ \mathcal{NAME} \\ sub \ Ext1 \ [Par] Ext2
                                         504 %% Style for Classes
                                        505 \cmdmthall{cls}\newcommand{\mthstycls}{\matheus}
         \ACls, ... to do!
                                      \mathcal{A}, \mathcal{B}, \mathcal{C}, \mathcal{D}, \mathcal{E}, \mathcal{F}, \mathcal{G}, \mathcal{H}, \mathcal{I}, \mathcal{J}, \mathcal{K}, \mathcal{L}, \mathcal{M}, \mathcal{N}, \mathcal{O}, \mathcal{P}, \mathcal{Q}, \mathcal{R}, \mathcal{S}, \mathcal{T}, \mathcal{U}, \mathcal{V}, \mathcal{W}, \mathcal{X}, \mathcal{Y}, \mathcal{Z}
                                         506 \seqoflatupp{Cls}{mthcls}
         \cmdmthcls ... to do!
                                               • \cmdmthcls{CMDNAME};
                                                   \CMDNAMEC1s[sub][sub][ext] = \mathcal{CMDNAME}_{sub}^{sub}ext
                                               • \cmdmthcls{cmdName}[NEWNAME];
                                                   \cmdNameCls[sub][sub][ext] = \mathcal{NEWNAME}_{sub}^{sub}ext
                                         507 \newcommandx{\cmdmthcls}[2][2=]
                                        508 {\usrmth{#1}{Cls}{cls}[#2]}
  \cmdmthargcls ... to do!
                                               • \cmdmthargcls{CMDNAME};
                                                   \CMDNAMECls[sub][sub][ext1]{arg}[ext2] = \mathbb{CMDNAME}_{sub}^{sub}ext1(arg)ext2
                                               • \cmdmthargcls{cmdName}[NEWNAME];
                                                   \verb|\cmdNameCls[sub][sub][ext1]{arg}[ext2] = \verb|\cmdNameCls[sub][sub][ext1]{arg}[ext2] = \verb|\cmdNameCls[sub][sub][ext1]{arg}[ext2] = \verb|\cmdNameCls[sub][sub][ext1][ext2] = \verb|\cmdNameCls[sub][sub][ext1][ext2] = \verb|\cmdNameCls[sub][sub][ext1][ext2] = \verb|\cmdNameCls[sub][sub][ext1][ext2] = \verb|\cmdNameCls[sub][sub][ext2][ext2] = \verb|\cmdNameCls[sub][sub][ext2][ext2][ext2][ext2] = \verb|\cmdNameCls[sub][sub][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][e
                                         509 \newcommandx{\cmdmthargcls}[2][2=]
                                                   {\usrmth{#1}{Cls}{argcls}[#2]}
\cmdmthoargcls ... to do!
                                               • \cmdmthoargcls{CMDNAME};
```

\CMDNAMECls[sub][sub][arg] = $\mathcal{CMDNAME}_{sub}^{sub}(arg)$

```
\cmdmthoargcls{cmdCls}[NEWNAME];
                            \cmdClsCls[sub] [sub] [arg] = \mathcal{NEWNAME}_{sub}^{sub}(arg)
                      511 \newcommandx{\cmdmthoargcls}[2][2=]
                           {\usrmth{#1}{Cls}{oargcls}[#2]}
 \cmdmthparcls ... to do!
                         \cmdmthparcls{CMDNAME};
                            \verb|\CMDNAMECls[sub][sub][ext1]{par}[ext2] = \verb|\CMDNAME| subsect 1 | par| ext2|
                         • \cmdmthparcls{cmdName}[NEWNAME];
                            \verb|\cmdNameCls[sub][sub][ext1]{par}[ext2] = NEWNAME_{sub}^{sub}ext1[par]ext2
                      513 \newcommandx{\cmdmthparcls}[2][2=]
                      514 {\usrmth{#1}{Cls}{parcls}[#2]}
\cmdmthoparcls ... to do!
                         • \cmdmthoparcls{CMDNAME};
                            \verb|\CMDNAMECls[sub][sub][par]| = \verb|\CMDNAME| sub| sub| par|
                         \cmdmthoparcls{cmdCls}[NEWNAME];
                            \cmdClsCls[sub][sub][par] = NEWNAME_{sub}^{sub}[par]
                      515 \newcommandx{\cmdmthoparcls}[2][2=]
                      516 {\usrmth{#1}{Cls}{oparcls}[#2]}
  \mthsig, ... to do!
                         • \mthsig{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                         • \mthargsig{Name} [sub] [sup] [Ext1] {Arg} [Ext2] = Name_{sub}^{sup} Ext1(Arg)Ext2
                         • \mathbb{E}_{sub}[Sub][Sub][Sub][Ext1][Par][Ext2] = \mathcal{N}_{ame_{sub}}[Ext1][Par][Ext2]
                      517 %% Style for Signatures
                      518 \cmdmthall{sig}\newcommand{\mthstysig}{\mathpzc}
     \aSig, ... to do!
                     a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, \chi, y, z
                     \mathcal{A},~\mathcal{B},~\mathcal{C},~\mathcal{D},~\mathcal{E},~\mathcal{F},~\mathcal{G},~\mathcal{H},~I,~\mathcal{I},~\mathcal{K},~\mathcal{L},~\mathcal{M},~\mathcal{N},~\mathcal{O},~\mathcal{P},~Q,~\mathcal{R},~\mathcal{S},~\mathcal{T},~\mathcal{U},~\mathcal{V},~\mathcal{W},~X,~\mathcal{Y},~Z
                     \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                      519 \seqoflatlet{Sig}{mthsig}\seqofgrklow{Sig}{mthsig}
     \cmdmthsig ... to do!
                         • \cmdmthsig{cmdName};
                            \colon dNameSig[sub][sub][ext] = cmdName_{sub}^{sub}ext
                         • \cmdmthsig{cmdName}[NewName];
                            \verb|\cmdNameSig[sub][sub][ext]| = \textit{NewName}^{sub}_{sub}\!ext
                      520 \newcommandx{\cmdmthsig}[2][2=]
                           {\usrmth{#1}{Sig}{sig}[#2]}
 \cmdmthargsig ... to do!
                         • \cmdmthargsig{cmdName};
                            \cmdNameSig[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                         • \cmdmthargsig{cmdName}[NewName];
                            \cmdNameSig[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                      522 \newcommandx{\cmdmthargsig}[2][2=]
                      523 {\usrmth{#1}{Sig}{argsig}[#2]}
\cmdmthoargsig ... to do!
                         • \cmdmthoargsig{cmdName};
                            \colon dNameSig[sub][sub][arg] = cmdNamesub(arg)
                         • \cmdmthoargsig{cmdSig}[NewName];
                            \colored{cmdSigSig[sub][sub][arg]} = \mathcal{N}ew\mathcal{N}ame_{sub}^{sub}(arg)
                      524 \newcommandx{\cmdmthoargsig}[2][2=]
                      525 {\usrmth{#1}{Sig}{oargsig}[#2]}
```

```
\cmdmthparsig ... to do!
                                                                        • \cmdmthparsig{cmdName};
                                                                               \verb|\cmdNameSig[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2|
                                                                         • \cmdmthparsig{cmdName}[NewName];
                                                                               \verb|\cmdNameSig[sub][sub][ext1]{par}[ext2] = \textit{NewName}^{sub}_{sub}ext1[par]ext2
                                                                526 \newcommandx{\cmdmthparsig}[2][2=]
                                                                              {\usrmth{#1}{Sig}{parsig}[#2]}
\cmdmthoparsig ... to do!
                                                                        • \cmdmthoparsig{cmdName};
                                                                               \verb|\cmdNameSig[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                                                                         • \cmdmthoparsig{cmdSig}[NewName];
                                                                               \colon dSigSig[sub][sub][par] = NewName_{sub}^{sub}[par]
                                                                528 \newcommandx{\cmdmthoparsig}[2][2=]
                                                                               {\usrmth{#1}{Sig}{oparsig}[#2]}
       \mthstr, ... to do!
                                                                        • \mthstr{Name}[sub][sup][Ext] = \mathfrak{Name}_{sub}^{sup}Ext
                                                                        • \mathbb{E}[Sub][Sub][Sub][Ext1][Arg][Ext2] = \mathfrak{Mame}_{sub}^{sup}Ext1(Arg)Ext2
                                                                         • \mthparstr{Name} [sub] [sup] [Ext1] {Par} [Ext2] = \mathfrak{Name}_{sub}^{sup} Ext1[Par]Ext2
                                                               530 %% Style for Structures
                                                               531 \mbox{ \mbox{$\sim$}} \mbox{\mbox{$\sim$}} \mbox
               \aStr, ... to do!
                                                           \mathfrak{a}, \mathfrak{b}, \mathfrak{c}, \mathfrak{d}, \mathfrak{e}, \mathfrak{f}, \mathfrak{g}, \mathfrak{h}, \mathfrak{i}, \mathfrak{j}, \mathfrak{k}, \mathfrak{l}, \mathfrak{m}, \mathfrak{n}, \mathfrak{o}, \mathfrak{p}, \mathfrak{q}, \mathfrak{r}, \mathfrak{s}, \mathfrak{t}, \mathfrak{u}, \mathfrak{v}, \mathfrak{w}, \mathfrak{r}, \mathfrak{h}, \mathfrak{z}
                                                            \mathfrak{A}, \mathfrak{B}, \mathfrak{C}, \mathfrak{D}, \mathfrak{E}, \mathfrak{F}, \mathfrak{G}, \mathfrak{H}, \mathfrak{I}, \mathfrak{I}, \mathfrak{K}, \mathfrak{L}, \mathfrak{M}, \mathfrak{N}, \mathfrak{D}, \mathfrak{P}, \mathfrak{Q}, \mathfrak{R}, \mathfrak{S}, \mathfrak{T}, \mathfrak{U}, \mathfrak{W}, \mathfrak{X}, \mathfrak{Y}, \mathfrak{Z}
                                                            \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, \mathfrak{o}, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                                              532 \seqoflatlet{Str}{mthstr}\seqofgrklow{Str}{mthstr}
               \cmdmthstr ... to do!
                                                                         \cmdmthstr{cmdName};
                                                                               \verb|\cmdNameStr[sub][sub][ext]| = \mathfrak{cmdMame}_{sub}^{sub}\!ext
                                                                         • \cmdmthstr{cmdName} [NewName];
                                                                               \cmdNameStr[sub][sub][ext] = \mathfrak{NewName}_{sub}^{sub}ext
                                                                533 \newcommandx{\cmdmthstr}[2][2=]
                                                              534 {\usrmth{#1}{Str}{str}[#2]}
   \cmdmthargstr ... to do!
                                                                         \cmdmthargstr{cmdName};
                                                                               \cmdNameStr[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                                                         • \cmdmthargstr{cmdName}[NewName];
                                                                               \cmdNameStr[sub][sub][ext1]{arg}[ext2] = \mathfrak{NewName}_{sub}^{sub}ext1(arg)ext2
                                                               535 \newcommandx{\cmdmthargstr}[2][2=]
                                                                             {\usrmth{#1}{Str}{argstr}[#2]}
\cmdmthoargstr ... to do!
                                                                        • \cmdmthoargstr{cmdName};
                                                                               \cmdNameStr[sub][sub][arg] = cmdMamesub(arg)
                                                                         • \cmdmthoargstr{cmdStr}[NewName];
                                                                               \colored \
                                                                537 \newcommandx{\cmdmthoargstr}[2][2=]
                                                                              {\usrmth{#1}{Str}{oargstr}[#2]}
   \cmdmthparstr ... to do!
                                                                        • \cmdmthparstr{cmdName};
                                                                               \verb|\cmdNameStr[sub][sub][ext1]{par}[ext2] = \verb|\cmdMamestr[sub]| ext1||par||ext2||
```

```
• \cmdmthparstr{cmdName} [NewName];
                          \verb|\cmdNameStr[sub][sub][ext1][par][ext2] = \mathfrak{NewName}_{sub}^{sub}\!ext1[par]ext2
                     539 \newcommandx{\cmdmthparstr}[2][2=]
                          {\usrmth{#1}{Str}{parstr}[#2]}
\cmdmthoparstr ... to do!
                        • \cmdmthoparstr{cmdName};
                          \verb|\cmdNameStr[sub][sub][par]| = \mathfrak{cmdName}_{sub}^{sub}[par]|
                        • \cmdmthoparstr{cmdStr}[NewName];
                          \c dStrStr[sub][sub][par] = \mathfrak{NewName}_{sub}^{sub}[par]
                     541 \newcommandx{\cmdmthoparstr}[2][2=]
                          {\usrmth{#1}{Str}{oparstr}[#2]}
  \mthset, ... to do!
                        • \mthset{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                        • \mthargset{Name}[sub][sup][Ext1]{Arg}[Ext2] = Name_{sub}^{sup}Ext1(Arg)Ext2
                        • \mthparset{Name}[sub][sup][Ext1]{Par}[Ext2] = Name_{sub}^{sup}Ext1[Par]Ext2
                     543 %% Style for Sets
                     544 \mathrm
     \aSet, ... to do!
                    a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                    A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                    \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                    A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\varTheta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\varPi,\,P,\,P,\,\Sigma,\,\varSigma,\,T,\,\Upsilon,\,\Phi,\,\varPhi,\,X,\,\Psi,\,\Omega
                     545 \seqoflet{Set}{mthset}
     \cmdmthset ... to do!
                        • \cmdmthset{cmdName};
                          \colon dNameSet[sub][sub][ext] = cmdName_{sub}^{sub}ext
                        • \cmdmthset{cmdName}[NewName];
                          \verb|\cmdNameSet[sub][sub][ext]| = NewName_{sub}^{sub} ext|
                     546 \newcommandx{\cmdmthset}[2][2=]
                         {\usrmth{#1}{Set}{set}[#2]}
 \cmdmthargset ... to do!
                        • \cmdmthargset{cmdName};
                          \cmdNameSet[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                        • \cmdmthargset{cmdName}[NewName];
                          \colored Name Set [sub] [sub] [ext1] {arg} [ext2] = New Name <math>\colored sube ext1 (arg) ext2
                     548 \newcommandx{\cmdmthargset}[2][2=]
                          {\usrmth{#1}{Set}{argset}[#2]}
\cmdmthoargset ... to do!
                        • \cmdmthoargset{cmdName};
                          \colon dNameSet[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                        • \cmdmthoargset{cmdSet}[NewName];
                          \colon dSetSet[sub][sub][arg] = NewName_{sub}^{sub}(arg)
                     550 \newcommandx{\cmdmthoargset}[2][2=]
                         {\usrmth{#1}{Set}{oargset}[#2]}
 \cmdmthparset ... to do!
                        • \cmdmthparset{cmdName};
                          \verb|\cmdNameSet[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2|
                        • \cmdmthparset{cmdName}[NewName];
                          \verb|\cmdNameSet[sub][sub][ext1][par][ext2]| = NewName_{sub}^{sub}ext1[par]ext2|
                     552 \newcommandx{\cmdmthparset}[2][2=]
                     553 {\usrmth{#1}{Set}{parset}[#2]}
```

```
\cmdmthoparset ... to do!
                                               \cmdmthoparset{cmdName};
                                                   \colon dNameSet[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                               • \cmdmthoparset{cmdSet}[NewName];
                                                   \colon dSetSet[sub][sub][par] = NewName_{sub}^{sub}[par]
                                         554 \newcommandx{\cmdmthoparset}[2][2=]
                                                   {\usrmth{#1}{Set}{oparset}[#2]}
  \cmdmthsetext ... to do!
                                        556 \newcommandx{\cmdmthsetext}[3][2=, 3=]
                                                   {\cmdmthset{#1}[#2]\caselower[q]{#1}%
                                                    \usrmthlet{\thestring}{Sym}{sym}
                                                        [\defval{#3}{\defval{\empchk{#2}{\lowercase{#2}}}}{\thestring}}]%
                                                 \usrmthlet{\thestring}{Elm}{elm}
                                                           [\defval{#3}{\defval{\mpchk{#2}}}] 
    \mthrel, ... to do!
                                              • \mthrel{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                               \bullet \  \, \texttt{\bary [Ext1] [Arg] [Ext2]} = Name_{sub}^{sup} Ext1(Arg) Ext2
                                               • \mthparrel{Name}[sub][sup][Ext1]{Par}[Ext2] = Name_{sub}^{sup}Ext1[Par]Ext2
                                         562 %% Style for Relations
                                         563 \mbox{\mbox{\mbox{$\sim$}}{\rm \mbox{\mbox{$\sim$}}}{\rm \mbox{\mbox{$\sim$}}}{
         \aRel, ... to do!
                                      a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                       A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, L, T, U, V, W, X, Y, Z
                                       \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                       A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\Theta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\varSigma,\,\Sigma,\,T,\,\Upsilon,\,\varPhi,\,\varPhi,\,X,\,\Psi,\,\Omega
                                        564 \seqoflet{Rel}{mthrel}
         \cmdmthrel ... to do!
                                               \cmdmthrel{cmdName};
                                                   \verb|\cmdNameRel[sub][sub][ext]| = cmdName_{sub}^{sub}ext|
                                               • \cmdmthrel{cmdName}[NewName];
                                                   \verb|\cmdNameRel[sub][sub][ext]| = NewName_{sub}^{sub}\!ext|
                                         565 \newcommandx{\cmdmthrel}[2][2=]
                                        566 {\usrmth{#1}{Rel}{rel}[#2]}
  \verb|\cmdmthargrel| ... to do!
                                               \cmdmthargrel{cmdName};
                                                   \verb|\cmdNameRel[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                               • \cmdmthargrel{cmdName}[NewName];
                                                   \cmdNameRel[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                         567 \newcommandx{\cmdmthargrel}[2][2=]
                                        568 {\usrmth{#1}{Rel}{argrel}[#2]}
\cmdmthoargrel ... to do!
                                               \cmdmthoargrel{cmdName};
                                                   \cmdNameRel[sub][sub] [arg] = cmdName_{sub}^{sub}(arg)
                                               • \cmdmthoargrel{cmdRel}[NewName];
                                                   \cmdRelRel[sub] [sub] [arg] = NewName_{sub}^{sub}(arg)
                                         569 \newcommandx{\cmdmthoargrel}[2][2=]
                                         570 {\usrmth{#1}{Rel}{oargrel}[#2]}
  \cmdmthparrel ... to do!
                                               \cmdmthparrel{cmdName};
                                                   \verb|\cmdNameRel[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2
```

```
• \cmdmthparrel{cmdName}[NewName];
                                                  \verb|\cmdNameRel[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}\!ext1[par]ext2
                                       571 \newcommandx{\cmdmthparrel}[2][2=]
                                                 {\usrmth{#1}{Rel}{parrel}[#2]}
\cmdmthoparrel ... to do!
                                             • \cmdmthoparrel{cmdName};
                                                 \verb|\cmdNameRel[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                                             • \cmdmthoparrel{cmdRel}[NewName];
                                                 \colone{localize} \colone{lo
                                        573 \newcommandx{\cmdmthoparrel}[2][2=]
                                                 {\usrmth{#1}{Rel}{oparrel}[#2]}
    \mthfun, ... to do!
                                             • \mathbb{N} [sub] [sup] [Ext] = \mathbb{N} = \mathbb{N}
                                             \bullet \  \, \texttt{\bar{Name}[sub][sub][Ext1][Arg][Ext2]} = \mathsf{\bar{Name}}^{sup}_{sub} Ext1(Arg) Ext2
                                             • \mathbb{E}_{sub}[Sub][Sub][Sub][Ext1][Par][Ext2] = \mathbb{E}_{sub}[Ext1][Par][Ext2]
                                        575 %% Style for Functions
                                       576 \mbox{ \mbox{\mbox{mathsf}} \mbox{\mbox{\mbox{mathsf}}} \
         \aFun, ... to do!
                                     a,\,b,\,c,\,d,\,e,\,f,\,g,\,h,\,i,\,j,\,k,\,l,\,m,\,n,\,o,\,p,\,q,\,r,\,s,\,t,\,u,\,v,\,w,\,x,\,y,\,z
                                     A,\,B,\,C,\,D,\,E,\,F,\,G,\,H,\,I,\,J,\,K,\,L,\,M,\,N,\,O,\,P,\,Q,\,R,\,S,\,T,\,U,\,V,\,W,\,X,\,Y,\,Z
                                     \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,\mathsf{o},\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                     \mathsf{A},\,\mathsf{B},\,\mathsf{\Gamma},\,\mathsf{\Delta},\,\mathsf{E},\,\mathsf{E},\,\mathsf{Z},\,\mathsf{H},\,\Theta,\,\varTheta,\,\mathsf{I},\,\mathsf{K},\,\mathsf{K},\,\mathsf{K},\,\mathsf{\Lambda},\,\mathsf{M},\,\mathsf{N},\,\Xi,\,\mathsf{O},\,\mathsf{\Pi},\,\varPi,\,\mathsf{P},\,\mathsf{P},\,\mathsf{\Sigma},\,\varSigma,\,\mathsf{T},\,\Upsilon,\,\Phi,\,\varPhi,\,\mathsf{X},\,\Psi,\,\Omega
                                       577 \seqoflet{Fun}{mthfun}
         \cmdmthfun ... to do!
                                             • \cmdmthfun{cmdName};
                                                 \verb|\cmdNameFun[sub][sub][ext]| = \verb|\cmdName|^{sub}_{sub}\!ext|
                                             • \cmdmthfun{cmdName}[NewName];
                                                 \colon {\tt CmdNameFun[sub][sub][ext] = NewName}^{sub}_{sub}ext
                                        578 \newcommandx{\cmdmthfun}[2][2=]
                                                {\usrmth{#1}{Fun}{fun}[#2]}
  \cmdmthargfun ... to do!
                                             • \cmdmthargfun{cmdName};
                                                 \cmdNameFun[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                             • \cmdmthargfun{cmdName}[NewName];
                                                  \cmdNameFun[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                        580 \newcommandx{\cmdmthargfun}[2][2=]
                                                  {\usrmth{#1}{Fun}{argfun}[#2]}
\cmdmthoargfun ... to do!
                                             • \cmdmthoargfun{cmdName};
                                                 \cmdNameFun[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                             • \cmdmthoargfun{cmdFun} [NewName];
                                                 \cmdFunFun[sub][sub][arg] = NewName_{sub}^{sub}(arg)
                                        582 \newcommandx{\cmdmthoargfun}[2][2=]
                                       583 {\usrmth{#1}{Fun}{oargfun}[#2]}
  \cmdmthparfun ... to do!
                                             • \cmdmthparfun{cmdName};
                                                 \verb|\cmdNameFun[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|^{sub}_{sub} ext1[par]ext2|
                                             • \cmdmthparfun{cmdName}[NewName];
                                                 584 \newcommandx{\cmdmthparfun}[2][2=]
                                        585 {\usrmth{#1}{Fun}{parfun}[#2]}
```

```
\cmdmthoparfun ... to do!
                                                                 • \cmdmthoparfun{cmdName};
                                                                       \cmdNameFun[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                                                 • \cmdmthoparfun{cmdFun} [NewName];
                                                                       \verb|\cmdFunFun[sub][sub][par]| = \verb|\NewName|_{sub}^{sub}[par]|
                                                         586 \newcommandx{\cmdmthoparfun}[2][2=]
                                                                      {\usrmth{#1}{Fun}{oparfun}[#2]}
      \mthsym, ... to do!
                                                                 • \mathbb{S}_{sub}[Sub][Sup][Ext] = \mathbb{S}_{sub}Ext
                                                                 • \mathbb{E}_{sub}[Sub][Sub][Sub][Ext1] = \mathbb{E}_{sub}[Ext2] = \mathbb{E}_{sub}[Ext1] = \mathbb{E}_{sub}[Ext2]
                                                                 • \mathbb{E}_{sup}[Sub][Sup][Ext1][Par][Ext2] = \mathbb{E}_{sup}[Ext1][Par][Ext2]
                                                        588 %% Style for Symbols
                                                        589 \mbox{\mbox{\mbox{$\sim$}}{\mathbf{\mbox{$\sim$}}}{\mathbf{\mbox{$\sim$}}}{\mathbf{\mbox{$\sim$}}}
             \aggreen \
                                                      a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                                     A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                                      \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                                      A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, \Pi, P, P, \Sigma, \Sigma, T, T, \Phi, \Phi, X, \Psi, \Omega
                                                        590 \seqoflet{Sym}{mthsym}
             \cmdmthsym ... to do!
                                                                 \cmdmthsym{cmdName};
                                                                       \verb|\cmdNameSym[sub][sub][ext]| = \verb|\cmdNames| sub| ext|
                                                                 • \cmdmthsym{cmdName}[NewName];
                                                                       \verb|\cmdNameSym[sub][sub][ext]| = \verb|\NewName|_{sub}^{sub} ext|
                                                         591 \newcommandx{\cmdmthsym}[2][2=]
                                                        592 {\usrmth{#1}{Sym}{sym}[#2]}
   \cmdmthargsym ... to do!
                                                                 \cmdmthargsym{cmdName};
                                                                       \verb|\cmdNameSym[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|| sub| ext1(arg)ext2|
                                                                 • \cmdmthargsym{cmdName}[NewName];
                                                                       \cmdNameSym[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                        593 \newcommandx{\cmdmthargsym}[2][2=]
                                                        594 {\usrmth{#1}{Sym}{argsym}[#2]}
\cmdmthoargsym ... to do!
                                                                 \cmdmthoargsym{cmdName};
                                                                       \colon 
                                                                 • \cmdmthoargsym{cmdSym}[NewName];
                                                                       \colon dSymSym[sub][sub][arg] = NewName_{sub}^{sub}(arg)
                                                         595 \newcommandx{\cmdmthoargsym}[2][2=]
                                                                     {\usrmth{#1}{Sym}{oargsym}[#2]}
                                                        596
   \cmdmthparsym ... to do!
                                                                 \cmdmthparsym{cmdName};
                                                                        \c MameSym[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                                                                 • \cmdmthparsym{cmdName}[NewName];
                                                                       \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\NewName|^{sub}_{sub}ext1[par]ext2|
                                                         597 \newcommandx{\cmdmthparsym}[2][2=]
                                                                         {\usrmth{#1}{Sym}{parsym}[#2]}
\cmdmthoparsym ... to do!
                                                                 \cmdmthoparsym{cmdName};
                                                                       \c MameSym[sub][sub][par] = cmdName_{sub}^{sub}[par]
```

```
\cmdmthoparsym{cmdSym}[NewName];
                          \cmdSymSym[sub][sub][par] = NewName_{sub}^{sub}[par]
                     599 \newcommandx{\cmdmthoparsym}[2][2=]
                          {\usrmth{#1}{Sym}{oparsym}[#2]}
  \mbox{\em mthelm}, ... to do!
                        • \mthelm{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                        \bullet \  \, \texttt{\bar{Name}[Sub][Sup][Ext1]\{Arg\}[Ext2]} = Name_{sub}^{sup}Ext1(Arg)Ext2
                        • \mathbb{E}[Sub][Sub][Sub][Ext1][Par][Ext2] = Name_{sub}^{sup}Ext1[Par]Ext2
                     601 %% Style for Elements
                     602 \mbox{ \cmdmthall{elm}\newcommand{\mbox{\mbox{mthstyelm}}{\mbox{\mbox{\cmdmthall}}}}
     \all lm, ... to do!
                    a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                    A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                    \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                    A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\Theta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\Sigma,\,\Sigma,\,T,\,\Upsilon,\,\Phi,\,\Phi,\,X,\,\Psi,\,\Omega
                     603 \seqoflet{Elm}{mthelm}
     \cmdmthelm ... to do!
                        \cmdmthelm{cmdName};
                          \verb|\cmdNameElm[sub][sub][ext]| = cmdName_{sub}^{sub} ext|
                        • \cmdmthelm{cmdName}[NewName];
                          \verb|\cmdNameElm[sub][sub][ext]| = NewName_{sub}^{sub} ext|
                     604 \newcommandx{\cmdmthelm}[2][2=]
                     605 {\usrmth{#1}{Elm}{elm}[#2]}
 \cmdmthargelm ... to do!
                        • \cmdmthargelm{cmdName};
                          \cmdNameElm[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                        • \cmdmthargelm{cmdName}[NewName];
                          \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                     606 \newcommandx{\cmdmthargelm}[2][2=]
                          {\usrmth{#1}{Elm}{argelm}[#2]}
\cmdmthoargelm ... to do!
                        • \cmdmthoargelm{cmdName};
                          \colon dNameElm[sub][sub][arg] = cmdName^{sub}_{sub}(arg)
                        • \cmdmthoargelm{cmdElm}[NewName];
                          \colone{line} [sub] [sub] [arg] = NewName_{sub}^{sub} (arg)
                     608 \newcommandx{\cmdmthoargelm}[2][2=]
                          {\usrmth{#1}{Elm}{oargelm}[#2]}
 \cmdmthparelm ... to do!
                        • \cmdmthparelm{cmdName};
                          \cmdNameElm[sub] [sub] [ext1] {par} [ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                        • \cmdmthparelm{cmdName}[NewName];
                          \verb|\cmdNameElm[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                     610 \newcommandx{\cmdmthparelm}[2][2=]
                     611 {\usrmth{#1}{Elm}{parelm}[#2]}
\cmdmthoparelm ... to do!
                        • \cmdmthoparelm{cmdName};
                          \verb|\cmdNameElm[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                        • \cmdmthoparelm{cmdElm}[NewName];
                          \colonerge{cmdElmElm[sub][sub][par]} = NewName_{sub}^{sub}[par]
                     612 \newcommandx{\cmdmthoparelm}[2][2=]
                     613 {\usrmth{#1}{Elm}{oparelm}[#2]}
```

```
\cmdmthsymelm ... to do!
                                                                    \cmdmthsymelm{cmdName};
                                                                          \colon dNameSym[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                                          \colonerge{cmdNameElm[sub][sub][ext]} = cmdName^{sub}_{sub}ext
                                                                    • \cmdmthsymelm{cmdName}[NewName];
                                                                          \cmdNameSym[sub][sub][ext] = NewName_{sub}^{sub}ext
                                                                         \cmdNameElm[sub][sub][ext] = NewName_{sub}^{sub}ext
                                                            615 \newcommandx{\cmdmthsymelm}[2][2=]
                                                                            {\cmdmthsym{#1}[#2]%
                                                            617
                                                                            \cmdmthelm{#1}[#2]}
  \cmdmthargsymelm ... to do!
                                                                   • \cmdmthargsymelm{cmdName};
                                                                          \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                                                    • \cmdmthargsymelm{cmdName}[NewName];
                                                                          \verb|\cmdNameSym[sub][sub][ext1]{arg}[ext2] = \verb|\cmdNamesub| ext1(arg)ext2|
                                                                          \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                            618 \newcommandx{\cmdmthargsymelm}[2][2=]
                                                                            {\cmdmthargsym{#1}[#2]%
                                                                            \cmdmthargelm{#1}[#2]}
                                                            620
\cmdmthoargsymelm ... to do!
                                                                    \cmdmthoargsymelm{cmdName};
                                                                          \verb|\cmdNameSym[sub][sub][arg]| = \verb|\cmdName|_{sub}^{sub}(arg)|
                                                                          \colonerge{cmdNameElm[sub][sub][arg]} = cmdName^{sub}_{sub}(arg)
                                                                    • \cmdmthoargsymelm{cmdName}[NewName];
                                                                          \verb|\cmdNameSym[sub][sub][arg]| = \verb|\NewName|^{sub}_{sub}(arg)
                                                                          \verb|\cmdNameElm[sub][sub][arg]| = NewName_{sub}^{sub}(arg)
                                                            621 \newcommandx{\cmdmthoargsymelm}[2][2=]
                                                                          {\cmdmthoargsym{#1}[#2]%
                                                                            \cmdmthoargelm{#1}[#2]}
                                                            623
  \cmdmthparsymelm ... to do!
                                                                    \cmdmthparsymelm{cmdName};
                                                                          \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|^{sub}_{sub} ext1[par]ext2|
                                                                          \verb|\cmdNameElm[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2|
                                                                    • \cmdmthparsymelm{cmdName}[NewName];
                                                                          \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdName| subext1[par]ext2|
                                                                          \colone{local} \col
                                                            624 \newcommandx{\cmdmthparsymelm}[2][2=]
                                                                            {\cmdmthparsym{#1}[#2]%
                                                            626
                                                                            \cmdmthparelm{#1}[#2]}
\cmdmthoparsymelm
                                                       ... to do!
                                                                    \cmdmthoparsymelm{cmdName};
                                                                          \verb|\cmdNameSym[sub][sub][par]| = \verb|\cmdName|_{sub}^{sub}[par]|
                                                                          \colonerge{cmdNameElm[sub][sub][par]} = cmdName^{sub}_{sub}[par]
                                                                    • \cmdmthoparsymelm{cmdName}[NewName];
                                                                          \verb|\cmdNameSym[sub][sub][par]| = \verb|\NewName|_{sub}^{sub}[par]|
                                                                          \colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\colonerright{l}{\col
                                                            627 \newcommandx{\cmdmthoparsymelm}[2][2=]
                                                                            {\cmdmthoparsym{#1}[#2]%
                                                                            \cmdmthoparelm{#1}[#2]}
                                                            \mthlopr, ... to do!
```

```
• \mthlopr{\oplus}[sub][sup][Ext] = \bigoplus_{sub}^{sup}Ext
                    631 %% Style for \LaTex Operators
                    632 \cmdmth{lopr}\newcommand{\mthstylopr}[1]{\textstyle\mathop{#1}}
   \cmdmthlopr ... to do!
                       • \cmdmthlopr{cmdName};
                         \verb|\cmdNameOpr[sub][sub][ext]| = cmdName_{sub}^{sub}ext
                       • \cmdmthlopr{cmdName}[\oplus];
                         \colon = 0 [sub] [sub] [ext] = \oplus_{sub}^{sub} ext
                    633 \newcommandx{\cmdmthlopr}[2][2=]
                    634 {\usrmth{#1}{Opr}{lopr}[#2]}
 \mthlrel, ... to do!
                       • \mthlrel{\preceq}[sub][sup][Ext] = \leq_{sub}^{sup} Ext
                    635 %% Style for \LaTex Relations
                    636 \cmdmth{lrel}\newcommand{\mthstylrel}{\mathrel}
   \cmdmthlrel ... to do!
                       • \cmdmthlrel{cmdName};
                         \verb|\cmdNameRel[sub][sub][ext]| = cmdName_{sub}^{sub}ext|
                       • \cmdmthlrel{cmdName}[\preceq];
                         \verb|\cmdNameRel[sub][sub][ext]| = \preceq_{sub}^{sub} ext
                    637 \newcommandx{\cmdmthlrel}[2][2=]
                    638 {\usrmth{#1}{Rel}{lrel}[#2]}
                    \mthsnt, ... to do!
                       ullet \mthsnt{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                       • \mathbb{E}[Sub][Sub][Sub][Ext1][Arg][Ext2] = \mathbb{E}[Sub][Sub][Sub][Ext2]
                       \bullet \  \, \texttt{\bar{Name}[sub][sub][Ext1][Par][Ext2]} = \mathsf{Name}^{sup}_{sub} Ext1[Par]Ext2
                    640 %% Style for Sentences
                    641 \maths1{snt}\newcommand{\mthstysnt}{\mathsf}
    \aSnt, ... to do!
                   a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                   A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                   \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                   A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                    642 \square{Snt}{mthsnt}
    \cmdmthsnt ... to do!
                       \cmdmthsnt{cmdName};
                         \colon dNameSnt[sub][sub][ext] = cmdName_{sub}^{sub}ext
                       • \cmdmthsnt{cmdName}[NewName];
                         \verb|\cmdNameSnt[sub][sub][ext]| = \verb|\NewName|_{sub}^{sub} ext|
                    643 \newcommandx{\cmdmthsnt}[2][2=]
                    644 {\usrmth{#1}{Snt}{snt}[#2]}
 \cmdmthargsnt ... to do!
                       • \cmdmthargsnt{cmdName};
                         \verb|\cmdNameSnt[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|^{sub}_{sub} ext1(arg) ext2
                       • \cmdmthargsnt{cmdName}[NewName];
                         \verb|\cmdNameSnt[sub][sub][ext1]{arg}[ext2] = \verb|\NewName|^{sub}_{sub} ext1(arg) ext2
                    645 \newcommandx{\cmdmthargsnt}[2][2=]
                    646 {\usrmth{#1}{Snt}{argsnt}[#2]}
\cmdmthoargsnt ... to do!
```

```
\cmdmthoargsnt{cmdName};
                                                \verb|\cmdNameSnt[sub][sub][arg]| = \verb|\cmdNameSnt[sub][arg]| = \verb|\cmdNameSnt[sub][arg]|
                                            \cmdmthoargsnt{cmdName}[NewName];
                                                \colon dNameSnt[sub][sub][arg] = NewName_{sub}^{sub}(arg)
                                      647 \mbox{ \cmdmthoargsnt} [2] [2=]
                                               {\usrmth{#1}{Snt}{oargsnt}[#2]}
  \cmdmthparsnt ... to do!
                                            \cmdmthparsnt{cmdName};
                                                \verb|\cmdNameSnt[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|^{sub}_{sub}\!ext1[par]ext2
                                            • \cmdmthparsnt{cmdName}[NewName];
                                                \cmdNameSnt[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                      649 \newcommandx{\cmdmthparsnt}[2][2=]
                                                {\usrmth{#1}{Snt}{parsnt}[#2]}
\cmdmthoparsnt ... to do!
                                            • \cmdmthoparsnt{cmdName};
                                                \cmdNameSnt[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                            • \cmdmthoparsnt{cmdName}[NewName];
                                                \colon = NewNameSnt[sub][sub][par] = NewName_{sub}^{sub}[par]
                                       651 \newcommandx{\cmdmthoparsnt}[2][2=]
                                      652 {\usrmth{#1}{Snt}{oparsnt}[#2]}
    \mbox{\em mthfrm, } \dots \mbox{\em to do!}
                                            • \mthfrm{Name} [sub] [sup] [Ext] = Name_{sub}^{sup}Ext
                                            \bullet \  \, \texttt{\bar{Name}[sub][sub][Ext1][Arg][Ext2]} = Name_{sub}^{sup}Ext1(Arg)Ext2
                                            • \mthparfrm{Name}[sub][sup][Ext1]{Par}[Ext2] = Name_{sub}^{sup}Ext1[Par]Ext2
                                      653 %% Style for Formulae
                                      654 \mbox{ \mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\box{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbo
         \aFrm, ... to do!
                                    a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                    A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                    \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                    A,\ B,\ \Gamma,\ \Delta,\ E,\ E,\ Z,\ H,\ \Theta,\ \Theta,\ I,\ K,\ K,\ \Lambda,\ M,\ N,\ \Xi,\ O,\ \Pi,\ \Pi,\ P,\ P,\ \Sigma,\ \Sigma,\ T,\ \varUpsilon,\ \varPhi,\ \varPhi,\ X,\ \Psi,\ \Omega
                                      655 \seqoflet{Frm}{mthfrm}
         \cmdmthfrm ... to do!
                                            • \cmdmthfrm{cmdName};
                                                \verb|\cmdNameFrm[sub][sub][ext]| = cmdName_{sub}^{sub}ext|
                                            • \cmdmthfrm{cmdName}[NewName];
                                                \verb|\cmdNameFrm[sub][sub][ext]| = NewName_{sub}^{sub} ext|
                                       656 \newcommandx{\cmdmthfrm}[2][2=]
                                              {\usrmth{#1}{Frm}{frm}[#2]}
  \cmdmthargfrm ... to do!
                                            • \cmdmthargfrm{cmdName};
                                                 \cmdNameFrm[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                            • \cmdmthargfrm{cmdName}[NewName];
                                                \cmdNameFrm[sub] [sub] [ext1] {arg} [ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                      658 \newcommandx{\cmdmthargfrm}[2][2=]
                                                {\usrmth{#1}{Frm}{argfrm}[#2]}
\cmdmthoargfrm ... to do!
                                            • \cmdmthoargfrm{cmdName};
                                                \verb|\cmdNameFrm[sub][sub][arg]| = cmdName_{sub}^{sub}(arg)
                                            • \cmdmthoargfrm{cmdName}[NewName];
```

```
660 \newcommandx{\cmdmthoargfrm}[2][2=]
                           {\usrmth{#1}{Frm}{oargfrm}[#2]}
 \cmdmthparfrm ... to do!
                         • \cmdmthparfrm{cmdName};
                           \cmdNameFrm[sub][sub][ext1]\{par\}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                         • \cmdmthparfrm{cmdName}[NewName];
                           \cmdNameFrm[sub][sub][ext1]\{par\}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                      662 \newcommandx{\cmdmthparfrm}[2][2=]
                      663 {\usrmth{#1}{Frm}{parfrm}[#2]}
\cmdmthoparfrm ... to do!
                         • \cmdmthoparfrm{cmdName};
                           \verb|\cmdNameFrm[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                         • \cmdmthoparfrm{cmdName}[NewName];
                           \colon dNameFrm[sub][sub][par] = NewName_{sub}^{sub}[par]
                      664 \newcommandx{\cmdmthoparfrm}[2][2=]
                          {\usrmth{#1}{Frm}{oparfrm}[#2]}
                      \mthmat, ... to do!
                         • \mathbb{N} [sub] [sup] [Ext] = \mathbb{N} ame \mathbb{N} [sub] [sup] [Ext] = \mathbb{N}
                         • \mathbb{E}_{sub}[Sub][Sup][Ext1][Arg][Ext2] = Name_{sub}^{sup}Ext1(Arg)Ext2
                         • \mathbb{E}_{sub}[Sub][Sup][Ext1][Par][Ext2] = Name_{sub}^{sup}Ext1[Par]Ext2
                      667 %% Style for Matrices
                     668 \cmdmthall{mat}\newcommand{\mthstymat}[1]{\boldsymbol{\mathsf{#1}}}
     \aMat, ... to do!
                    a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                    A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                     \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,\mathbf{o},\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                     \mathsf{A},\,\mathsf{B},\,\mathsf{\Gamma},\,\mathsf{\Delta},\,\mathsf{E},\,\mathsf{E},\,\mathsf{Z},\,\mathsf{H},\,\Theta,\,\varTheta,\,\mathsf{I},\,\mathsf{K},\,\mathsf{K},\,\mathsf{K},\,\mathsf{M},\,\mathsf{N},\,\Xi,\,\mathsf{O},\,\Pi,\,\Pi,\,\mathsf{P},\,\mathsf{P},\,\Sigma,\,\varSigma,\,\mathsf{T},\,\Upsilon,\,\Phi,\,\varPhi,\,\mathsf{X},\,\Psi,\,\Omega
                     669 \seqoflet{Mat}{mthmat}
     \cmdmthmat ... to do!
                         • \cmdmthmat{cmdName};
                           \cmdNameMat[sub][sub][ext] = \operatorname{cmdName}_{sub}^{sub} ext
                         • \cmdmthmat{cmdName}[NewName];
                           \colon dNameMat[sub][sub][ext] = NewName_{sub}^{sub}ext
                      670 \newcommandx{\cmdmthmat}[2][2=]
                           {\usrmth{#1}{Mat}{mat}[#2]}
 \cmdmthargmat ... to do!
                         • \cmdmthargmat{cmdName};
                           \cmdNameMat[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                         • \cmdmthargmat{cmdName}[NewName];
                           \cmdNameMat[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                      672 \newcommandx{\cmdmthargmat}[2][2=]
                     673 {\usrmth{#1}{Mat}{argmat}[#2]}
\cmdmthoargmat ... to do!
                         • \cmdmthoargmat{cmdName};
                           \colon = cmdName [sub] [sub] [arg] = cmdName _{sub}^{sub}(arg)
                         • \cmdmthoargmat{cmdName}[NewName];
                           \c Mame Mat [sub] [sub] [arg] = New Name <math>_{sub}^{sub} (arg)
                      674 \newcommandx{\cmdmthoargmat}[2][2=]
                      675 {\usrmth{#1}{Mat}{oargmat}[#2]}
```

```
\cmdmthparmat ... to do!
                         • \cmdmthparmat{cmdName};
                            \verb|\cmdNameMat[sub][sub][ext1]{par}[ext2] = \mathbf{cmdName}_{sub}^{sub} ext1[par]ext2
                         • \cmdmthparmat{cmdName}[NewName];
                           \verb|\cmdNameMat[sub][sub][ext1]{par}[ext2] = \verb| NewName| subsect1| par| ext2|
                      676 \newcommandx{\cmdmthparmat}[2][2=]
                           {\usrmth{#1}{Mat}{parmat}[#2]}
\cmdmthoparmat ... to do!
                         • \cmdmthoparmat{cmdName};
                           \verb|\cmdNameMat[sub][sub][par]| = \mathbf{cmdName}_{sub}^{sub}[par]|
                         • \cmdmthoparmat{cmdName}[NewName];
                           \colon dNameMat[sub][sub][par] = NewName_{sub}^{sub}[par]
                      678 \newcommandx{\cmdmthoparmat}[2][2=]
                           {\usrmth{#1}{Mat}{oparmat}[#2]}
  \mthvec, ... to do!
                          \bullet \ \texttt{\bar{Name}[sub][sup][Ext]} = \textit{Name}^{sup}_{sub} Ext ]
                         • \mthargvec{Name}[sub][sup][Ext1]{Arg}[Ext2] = Name_{sub}^{sup}Ext1(Arg)Ext2
                         \bullet \  \, \texttt{\bar{Name}[Sub][Sup][Ext1][Par][Ext2]} = Name_{sub}^{sup}Ext1[Par]Ext2
                      680 %% Style for Vectors
                      681 \cmdmthall{vec}\newcommand{\mthstyvec}[1]{\boldsymbol{\mathit{#1}}}
     \aVec, ... to do!
                     a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                     A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                     \begin{matrix} \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega \\ A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\Theta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\Sigma,\,\Sigma,\,T,\,\Upsilon,\,\Phi,\,\Phi,\,X,\,\Psi,\,\Omega \end{matrix}
                      682 \seqoflet{Vec}{mthvec}
     \cmdmthvec ... to do!
                         \cmdmthvec{cmdName};
                           \cmdNameVec[sub][sub][ext] = cmdName_{sub}^{sub}ext
                         • \cmdmthvec{cmdName} [NewName];
                           \cmdNameVec[sub][sub][ext] = NewName_{sub}^{sub}ext
                      683 \newcommandx{\cmdmthvec}[2][2=]
                      684 {\usrmth{#1}{Vec}{vec}[#2]}
 \cmdmthargvec ... to do!
                         \cmdmthargvec{cmdName};
                           \cmdNameVec[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                         • \cmdmthargvec{cmdName}[NewName];
                            \verb|\cmdNameVec[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                      685 \newcommandx{\cmdmthargvec}[2][2=]
                      686 \quad \{\usrmth{\#1}{\vec}{argvec}{\cite{[\#2]}}
\cmdmthoargvec ... to do!
                         \cmdmthoargvec{cmdName};
                            \cmdNameVec[sub][sub] [arg] = cmdName_{sub}^{sub}(arg)
                         • \cmdmthoargvec{cmdName}[NewName];
                           \colon dNameVec[sub][sub][arg] = NewName^{sub}_{sub}(arg)
                      687 \newcommandx{\cmdmthoargvec}[2][2=]
                           {\usrmth{#1}{Vec}{oargvec}[#2]}
 \cmdmthparvec ... to do!
                         • \cmdmthparvec{cmdName};
                            \cmdNameVec[sub][sub][ext1]\{par\}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2
```

```
• \cmdmthparvec{cmdName} [NewName];
                  \verb|\cmdNameVec[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2|
              689 \newcommandx{\cmdmthparvec}[2][2=]
                  {\usrmth{#1}{Vec}{parvec}[#2]}
\cmdmthoparvec ... to do!
                \cmdmthoparvec{cmdName};
                  \colon dNameVec[sub][sub][par] = cmdName^{sub}_{sub}[par]
                • \cmdmthoparvec{cmdName}[NewName];
                  \colon dNameVec[sub][sub][par] = NewName_{sub}^{sub}[par]
              691 \newcommandx{\cmdmthoparvec}[2][2=]
                  {\usrmth{#1}{Vec}{oparvec}[#2]}
              693 \fi
              698 \iftext@
              \adhoc
                • \adhoc = ad\ hoc
              700 \cmdtxtabr{adhoc}[ad hoc]
                • \arrange a fortiori
    \afortiori
              701 \cmdtxtabr{afortiori}[a fortiori]
                • \apriori = a priori
     \apriori
              702 \cmdtxtabr{apriori}[a priori]
  \aposteriori
                • \arrowvertaposteriori = a\ posteriori
              703 \cmdtxtabr{aposteriori}[a posteriori]
          \cf
                • \backslash cf = cf.
              704 \cmdtxtabr{cf}[cf.]
                • \del{dedicto} = de \ dicto
     \dedicto
              705 \cmdtxtabr{dedicto}[de dicto]
                • \del{defacto} = de \ facto
     \defacto
              706 \cmdtxtabr{defacto}[de facto]
                • \forall dere = de re
        \dere
              707 \cmdtxtabr{dere}[de re]
\divideetimpera
                • \divideetimpera = divide et impera
              708 \cmdtxtabr{divideetimpera}[divide et impera]
                • \backslash eg = e.g.
          \eg
              709 \cmdtxtabr{eg}[e.g.]
        \ergo
                • \ergo = ergo
              710 \cmdtxtabr{ergo}
                • \errata = errata
      \errata
              711 \cmdtxtabr{errata}
                • \erratum = erratum
     \erratum
              712 \cmdtxtabr{erratum}
```

```
713 \cmdtxtabr{etal}[et al.]
                        • \ensuremath{\backslash} \mathsf{etc} = \mathit{etc}.
             \etc
                     714 \cmdtxtabr{etc}[etc.]
              \ie
                        • \forall ie = i.e.
                     715 \cmdtxtabr{ie}[i.e.]
                        • \mutatismutandis = mutatis mutandis
\mutatismutandis
                     716 \cmdtxtabr{mutatismutandis}[mutatis mutandis]
      \percontra
                        • \percontra = per contra
                     717 \cmdtxtabr{percontra}[per contra]
                         \bullet \ \texttt{\ \ } \\ \texttt{primafacie} = prima \ facie \\
     \primafacie
                     718 \cmdtxtabr{primafacie}[prima facie]
                        • \forall viceversa = vice \ versa
      \viceversa
                     719 \cmdtxtabr{viceversa}[vice versa]
                        • \vert vs = vs.
              \vs
                     720 \cmdtxtabr{vs}[vs.]
             \viz
                        • \forall viz = viz.
                     721 \cmdtxtabr{viz}[viz.]
                     \Afortiori
                        • \Afortiori = A fortiori
                     723 \cmdtxtabr{Afortiori}[A fortiori]
        \Apriori
                        • \Apriori = A \ priori
                     724 \cmdtxtabr{Apriori}[A priori]
                        • \Aposteriori = A posteriori
    \Aposteriori
                     725 \cmdtxtabr{Aposteriori}[A posteriori]
         \Dedicto
                        • \Dedicto = De \ dicto
                     726 \cmdtxtabr{Dedicto}[De dicto]
         \Defacto
                        • \ensuremath{\texttt{Defacto}} = De\ facto
                     727 \cmdtxtabr{Defacto}[De facto]
                        • \ensuremath{\backslash} \mathtt{Dere} = De \ re
            \Dere
                     728 \cmdtxtabr{Dere}[De re]
                        ullet \Divideetimpera = Divide\ et\ impera
\Divideetimpera
                     729 \cmdtxtabr{Divideetimpera}[Divide et impera]
              \Eg
                        • \backslash \text{Eg} = E.g.
                     730 \cmdtxtabr{Eg}[E.g.]
                        • \Errata = Errata
          \Errata
                     731 \cmdtxtabr{Errata}
                        • \Erratum = Erratum
         \Erratum
                     732 \cmdtxtabr{Erratum}
```

\etal

• $\ensuremath{\backslash} \mathtt{etal} = et \ al.$

```
\Mutatismutandis
                \bullet \Mutatismutandis = Mutatis\ mutandis
              733 \cmdtxtabr{Mutatismutandis}[Mutatis mutandis]
    \Percontra
                • \ensuremath{\backslash} \mathtt{Percontra} = Per\ contra
              734 \cmdtxtabr{Percontra} [Per contra]
   \Primafacie
                \bullet \Primafacie = Prima\ facie
              735 \cmdtxtabr{Primafacie}[Prima facie]
    \Viceversa
                • \forall Viceversa = Vice \ versa
              736 \cmdtxtabr{Viceversa}[Vice versa]
              \naif
                • \n naif = naif
              740 \cmdtxtabr{naif} [na\"{i}f]
       \naive
                • \ne naive = naive
              741 \cmdtxtabr{naive}[na\"{i}ve]
                • \role = r\hat{o}le
        \role
              742 \cmdtxtabr{role}[r\^{o}le]
              \Role
                • \Role = R\hat{o}le
              744 \cmdtxtabr{Role}[R\^{o}le]
              \aka
                • \arrowvert aka = a.k.a.
              746 \cmdtxtabr{aka}[a.k.a.]
       \contd
                • \contd = contd.
              747 \cmdtxtabr{contd}[contd.]
         \iff
                • \iff = iff
              748 \cmdtxtabr{iff}
         \stx
                • \ \ \ \ stx = s.t.
              749 \cmdtxtabr{stx}[s.t.]
                • \resp = resp.
        \resp
              750 \cmdtxtabr{resp}[resp.]
         \wrt
                \bullet \ \ \backslash \mathtt{wrt} = \textit{w.r.t.}
              751 \cmdtxtabr{wrt}[w.r.t.]
                • \wdots w.l.o.g.
       \wlogx
              752 \cmdtxtabr{wlogx}[w.l.o.g.]
              \Contd
                • \Contd = Contd.
              754 \cmdtxtabr{Contd}[Contd.]
```

```
\Wlogx
             • \W log x = W.l.o.g.
            755 \cmdtxtabr{Wlogx}[W.l.o.g.]
            756 \fi
            761 \ifmath@
            \defeq, \seteq ...
            763 \DeclareRobustCommand{\defeq}
            764 {\mthlopr{\triangleq}}
            765 \DeclareRobustCommand{\seteq}
            766 {\mthlopr{:=}}
            \implies, ... ...
            768 \DeclareRobustCommand{\implies}
            769 {\mthlrel{\Rightarrow}}
            770 \DeclareRobustCommand{\notimplies}
            771 {\mthlrel{\not\Rightarrow}}
 \implied, ... ...
            772 \DeclareRobustCommand{\implied}
            773 {\mthlrel{\Leftarrow}}
            774 \DeclareRobustCommand{\notimplied}
            775 {\mthlrel{\not\Leftarrow}}
\coimplies, ... ...
            776 \DeclareRobustCommand{\coimplies}
            777 {\mthlrel{\Leftrightarrow}}
            778 \DeclareRobustCommand{\notcoimplies}
            779 {\mthlrel{\not\!\Leftrightarrow}}
            \cmodels, ... ...
            781 \DeclareRobustCommand{\cmodels}
            782 {\mthlrel{\models}}
            783 \DeclareRobustCommand{\notcmodels}
            784 {\mthlrel{\not\models}}
  \cequiv, ... ...
            785 \DeclareRobustCommand{\cequiv}
            786 {\mthlrel{\equiv}}
            787 \DeclareRobustCommand{\notcequiv}
              {\mthlrel{\not\equiv}}
            \dual, \adj, ... ...
            790 \DeclareRobustCommand{\dual}[1]
               {\mth{\overline{#1}}}
            792 \DeclareRobustCommand{\adj}[1]
            793 {\mth{\mathring{#1}}}
            794 \DeclareRobustCommand{\der}[1]
            795 {\mth{\widehat{#1}}}
            796 \DeclareRobustCommand{\trn}[1]
            797 {\mth{\widetilde{#1}}}
```

```
\vec ...
               798 \DeclareRobustCommand{\vec}[1]
                  {\mth{\mathaccent"017E{#1}}}
               \enumeration, ... ...
               801 \operatorname{denumeration}{\mathrm{hth}}{}{,}{}{}
               802 \varcmd{enumerationx}{\mth}{}{;}{}}
  \sequence, ... ...
               803 \varcmd{sequence}{\mth}{\left[}{,}{\right]}{}
               804 \varcmd{sequencel}{\mth}{\left[}{,}{\right.}{}
               806 \\ {\mth}{\left[}{;}{\right]}{}
               807 \varcmd{sequencexl}{\mth}{\left[}{;}{\right.}{}
               808 \varcmd{sequencexr}{\mth}{\left.}{;}{\right]}{}
    \tuple, ... ...
               809 \varcmd{tuple}{\mth}{\left\langle}{,}{\right\rangle}{}
               810 \varcmd{tuplel}{\mth}{\left\langle}{,}{\right.}{}
               811 \varcmd{tupler}{\mth}{\left.}{,}{\right\rangle}{}
               812 \varcmd{tuplex}{\mth}{\left\langle}{;}{\right\rangle}{}
               813 \c tuplex1){\mth}{\c tuple}{;}{\c t.}{}
               814 \varcmd{tuplexr}{\mth}{\left.}{;}{\right\rangle}{}
               \set, ... ...
               816 \DeclareRobustCommand{\set}[2]
               817 {\argmid{\left\lbrace}{\argsep{#1}{\,\middle\vert\,}{#2}}{\right\rbrace}}
               818 \DeclareRobustCommand{\set1}[1]
               819 {\argmid{\left\langle \left\langle \right\rangle },\right\rangle }
               820 \DeclareRobustCommand{\setr}[1]
                  {\argmid{\left.}{#1}{\right\rbrace}}
         \card ...
               822 \DeclareRobustCommand{\card}[1]
               \pow ...
               824 \DeclareRobustCommand{\pow}[1]
               \denot ...
               826 \DeclareRobustCommand{\denot}[1]
                   {\mth{\argmid{\llbracket}{#1}{\rrbracket}}}
               \emptyrel ...
               829 \DeclareRobustCommand{\emptyrel}
                  {\mth{\varnothing}}
               \dom, \cod, ...
               832 \DeclareRobustCommand{\dom}
               833 {\mthargfun{dom}}
               834 \DeclareRobustCommand{\cod}
                  {\mthargfun{cod}}
               836 \DeclareRobustCommand{\rng}
                  {\mthargfun{rng}}
               838 \DeclareRobustCommand{\img}
                  {\mthargfun{img}}
```

```
\prj ...
              841 \DeclareRobustCommand{\prj}
             842 {\mthargfun{prj}}
        \rst ...
              843 \DeclareRobustCommand{\rst}
             844 {\mthlopr{\upharpoonright}}
        \cmp ...
              845 \DeclareRobustCommand{\cmp}
              846 {\mthlopr{\circ}}
              \emptyfun ...
             848 \DeclareRobustCommand{\emptyfun}
             849 {\mth{\varnothing}}
              \pto, \pmapsto
              851 \DeclareMathOperator{\pto}
             852 {\ensuremath{\rightharpoonup}}
             853 \DeclareMathOperator{\pmapsto}
                 {\ensuremath{\mathrel{\raisebox{0.5ex}{\footnotesize${\llcorner}$}%
              854
              855
                   \kern-1.5ex\rightharpoonup}}}
              \fix, \ifp, ... ...
             857 \DeclareRobustCommand{\fix}
                 {\mthfun{fix}}
              859 \DeclareRobustCommand{\ifp}
                 {\mthfun{ifp}}
              861 \DeclareRobustCommand{\lfp}
                 {\mthfun{lfp}}
              863 \DeclareRobustCommand{\gfp}
             864 {\mthfun{gfp}}
\Aomega, \AOmega
              865 \DeclareRobustCommand{\Aomega}
             866 {\mthargset{\omega}}
             867 \DeclareRobustCommand{\AOmega}
             868 {\mthargset{\Omega}}
\Atheta, \ATheta ...
             869 \DeclareRobustCommand{\Atheta}
             870 {\mthargset{\theta}}
             871 \DeclareRobustCommand{\ATheta}
             872 {\mthargset{\Theta}}
 \Aomicron, ... ...
             873 \DeclareRobustCommand{\Aomicron}
             874 {\mthargset{\omicron}}
             875 \DeclareRobustCommand{\AOmicron}
                 {\mthargset{\Omicron}}
              \SetB ...
              878 \DeclareRobustCommand{\SetB}
              879 {\mthset[mathbb]{B}}
```

```
\SetF ...
           880 \DeclareRobustCommand{\SetF}
           881 \quad \{\mathbf{f}\}
\SetN, ... ...
           882 \DeclareRobustCommand{\SetN}
           883 {\mthset[mathbb]{N}}
           884 \DeclareRobustCommand{\SetNI}[1][]
           885 {\SetN[\infty #1]}
\SetZ, ... ...
           886 \DeclareRobustCommand{\SetZ}
           887 {\mthset[mathbb]{Z}}
           888 \DeclareRobustCommand{\SetZI}[1][]
           889 {\SetZ[\pm\infty #1]}
           890 \DeclareRobustCommand{\SetZPI}[1][]
           891 {\SetZ[+\infty #1]}
           892 \DeclareRobustCommand{\SetZNI}[1][]
           893 {\SetZ[-\infty #1]}
\SetQ, ... ...
           894 \DeclareRobustCommand{\SetQ}
           895 {\mthset[mathbb]{Q}}
           896 \DeclareRobustCommand{\SetQI}[1][]
           897 {\SetQ[\pm\infty #1]}
           898 \DeclareRobustCommand{\SetQPI}[1][]
           899 {\SetQ[+\infty #1]}
           900 \DeclareRobustCommand{\SetQNI}[1][]
           901 {\SetQ[-\infty #1]}
\SetR, ... ...
           902 \DeclareRobustCommand{\SetR}
           903 {\mthset[mathbb]{R}}
           904 \DeclareRobustCommand{\SetRI}[1][]
           905 {\SetR[\pm\infty #1]}
           906 \DeclareRobustCommand{\SetRPI}[1][]
           907 {\SetR[+\infty #1]}
           908 \DeclareRobustCommand{\SetRNI}[1][]
               {\SetR[-\infty #1]}
\SetC, ...
           910 \DeclareRobustCommand{\SetC}
           911 {\mthset[mathbb]{C}}
           912 \DeclareRobustCommand{\SetCI}[1][]
           913 {\SetC[\infty #1]}
           \num, ... ...
           915 \DeclareRobustCommand{\num}[1]
           916 {\mth{[#1]}}
           917 \DeclareRobustCommand{\numcc}[2]
           918 {\mth{[\argsep{#1}{,}{#2}]}}
           919 \DeclareRobustCommand{\numco}[2]
           920 {\mth{[\argsep{#1}{,}{#2})}}
           921 \DeclareRobustCommand{\numoc}[2]
           922 {\mth{(\argsep{#1}{,}{#2}]}}
           923 \DeclareRobustCommand{\numoo}[2]
               {\mth{(\argsep{#1}{,}{#2})}}
```

```
\floor, \ceil ...
           926 \DeclareRobustCommand{\floor}[1]
           927 {\mth{\argmid{\left\lfloor}{#1}{\right\rfloor}}}
           928 \DeclareRobustCommand{\ceil}[1]
           929 {\bf \S} 
            \arg ...
            931 \DeclareRobustCommand{\arg}
            932 {\mthfun{arg}}
   \evn, \odd ...
           933 \DeclareRobustCommand{\evn}
            934 \quad \{\mathbf vn} 
            935 \DeclareRobustCommand{\odd}
           936 {\mthfun{odd}}
    \bst, ... ...
           937 \DeclareRobustCommand{\bst}
           938 {\bf \{mthfun\{bst\}\}}
           939 \DeclareRobustCommand{\argbst}
           940 {\mthfun{arg bst}}
\min, \max, ...
           941 \DeclareRobustCommand{\min}
           942 {\mthfun{min}}
           943 \DeclareRobustCommand{\max}
           944 {\bf \{max\}}
           945 \DeclareRobustCommand{\argmin}
           946 {\mthfun{arg min}}
            947 \DeclareRobustCommand{\argmax}
           948 {\mthfun{arg max}}
   \inf, \sup ...
           949 \DeclareRobustCommand{\inf}
           950 {\bf \{nf}
           951 \DeclareRobustCommand{\sup}
           952 {\mthfun{sup}}
           \emptyseq ...
           954 \DeclareRobustCommand{\emptyseq}
           955 {\mth{\varepsilon}}
   \fst, \lst ...
            956 \DeclareRobustCommand{\fst}
            957 {\mthargfun{fst}}
            958 \DeclareRobustCommand{\lst}
            959 {\mthargfun{lst}}
           960 \fi
           965 \ifcom@
   \defcomcls ... to do!
```

\defcomcls{CompClass};

```
\CompClass[sub][sup][ext] = COMPCLASS_{SUR}^{SUP}EXT
    \CoCompClass[sub][sup][ext] = CoCompClass_{SUB}^{SUP}EXT
    \verb|\CompClassE[sub][sup][ext]| = CompClass-Easy_{sur}^{SUP}EXT
    \verb|\CoCompClassE[sub][sup][ext]| = CoCompClass-Easy_{SUB}^{SUP}EXT|
    \CompClassH[sub][sup][ext] = COMPCLASS-HARD_{SUB}^{SUP}EXT
    \CoCompClassH[sub][sup][ext] = CoCompClass-HARD_{SUB}^{SUP}EXT
    \CompClassC[sub][sup][ext] = COMPCLASS-COMPLETE_{SUB}^{SUP}EXT
    \verb|\CoCompClassC[sub][sup][ext]| = CoCompClass-Complete_{Sup}^{SUP}EXT
   \verb|\NCompClass[sub][sup][ext]| = NCOMPCLASS_{SUB}^{SUP}EXT
    \verb|\ConCompClass[sub][sup][ext]| = ConCompClass[sup]EXT|
    \verb|\NCompClassE[sub][sup][ext]| = NCOMPCLASS-EASY_{SUB}^{SUP}EXT|
    \verb|\ConCompClassE[sub][sup][ext]| = ConCompClass-Easy_{SUB}^{SUP}EXT
   \NCompClassH[sub][sup][ext] = NCompClass-Hard_{SUB}^{SUP}EXT
    \ConCompClassH[sub][sup][ext] = ConCompClass-Hard_{SUB}^{SUP}EXT
    \NCompClassC[sub][sup][ext] = NCOMPCLASS-COMPLETE_{SUB}^{SUP}EXT
    \ConCompClassC[sub][sup][ext] = ConCompClass-CompLete_{Sup}^{SUP}EXT
    \UCompClass[sub][sup][ext] = UCompClass_{SUB}^{SUP}EXT
    \verb|\CoUCompClass[sub][sup][ext]| = COUCOMPCLASS_{SUB}^{SUP}EXT
    \UCompClassE[sub][sup][ext] = UCompClass-Easy_{SUB}^{SUP}EXT
    \verb|\CoUCompClassE[sub][sup][ext]| = CoUCompClass-Easy_{SUB}^{SUP}EXT|
    \UCompClassH[sub][sup][ext] = UCompClass-Hard_{SUR}^{SUP}EXT
    \Coulomb ClassH[sub][sup][ext] = Coulomp Class-Hard_{Sup}^{Sup}EXT
    \label{eq:UCompClassCsub} $$ \operatorname{[sub][ext]} = \operatorname{UCOMPCLASS-COMPLETE}^{\operatorname{SUP}}_{\operatorname{SUB}} = \operatorname{UCOMPCLASS-COMPLETE}^{\operatorname{UCOMPCLASS-COMPLETE}_{\operatorname{SUB}} = \operatorname{UCOMPCLASS-COMPLETE}^{\operatorname{UCOMPCLASS-COMPLETE}_{\operatorname{SUB}} = \operatorname{UCOMPCLASS-COMPLETE}^{\operatorname{UCOMPCLASS-COMPLETE}_{\operatorname{UCOMPCLASS-COMPLETE}} = \operatorname{UCOMPCLASS-COMPLETE}^{\operatorname{UCOMPCLASS-COMPLETE}_{\operatorname{UCOMPCLASS-COMPLETE}} = \operatorname{UCOMPCLASS-COMPCLASS-COMPLETE}^{\operatorname{UCOMPCLASS-COMPCLASS-COMPLETE}_{\operatorname{UCOMPCLASS-COMPLETE}} = \operatorname{UCOMPCLASS-COMPCLASS-COMPCLASS-COMPCLASS-COMPCLASS-COMPCLASS-COMPCLASS-COMPCLASS-COMPCLASS-COMPCLASS-COMPCLASS-COMPCLASS-COMPCLASS-COMPCLASS-COMPCLASS-COMPCLASS-COMPCLASS-COMPCL
    \verb|\CoUCompClassC[sub][sup][ext]| = CoUCompClass-complete_{SUB}^{SUP}EXT
   \verb|\ACompClass[sub][sup][ext]| = ACompClass[sub]Ext|
    \CoACompClass[sub][sup][ext] = CoACompClass_{SUB}^{SUP}EXT
    \verb|\ACompClassE[sub][sup][ext]| = ACOMPCLASS-EASY_{SUB}^{SUP}EXT
    \verb|\CoACompClassE[sub][sup][ext]| = CoACompClass-Easy_{SUB}^{SUP}EXT|
    \verb|\ACompClassH[sub][sup][ext]| = ACompClass-Hard_{SUB}^{SUP}EXT
    \CoACompClassH[sub][sup][ext] = CoACompClass-HARD_{SUB}^{SUP}EXT
    \verb|\ACompClassC[sub][sup][ext]| = ACOMPCLASS-COMPLETE_{SUB}^{SUP}EXT
    \CoACompClassC[sub][sup][ext] = CoACompClass-CompLete_{Sub}^{SUP}EXT
• \defcomcls{CompClass}[NewClass];
    \verb|\CompClass[sub][sup][ext]| = NewClass_{Sub}^{SUP}EXT|
    \verb|\CoCompClass[sub][sup][ext]| = CoNewClass_{SUB}^{SUP}EXT
    \verb|\CompClassE[sub][sup][ext]| = NewClass-easy_{sub}^{SUP}ext
    \CoCompClassE[sub][sup][ext] = CoNewClass-Easy_{SUB}^{SUP}EXT
    \CompClassH[sub][sup][ext] = NEWCLASS-HARD_{SUB}^{SUP}EXT
    \verb|\CoCompClassH[sub][sup][ext]| = CoNewClass-Hard_{sur}^{SUP}EXT
    \CompClassC[sub][sup][ext] = NewClass-complete_Sup Ext
    \verb|\CoCompClassC[sub][sup][ext]| = CoNewClass-complete_{Sub}^{SUP}EXT
   \NCompClass[sub][sup][ext] = NNEWCLASS_{SUB}^{SUP}EXT
    \verb|\CoNCompClass[sub][sup][ext]| = CoNNewClass_{SUB}^{SUP}EXT
    \verb|\NCompClassE[sub][sup][ext]| = NNewClass-easy_{sub}^{SUP}EXT
    \verb|\ConCompClassE[sub][sup][ext]| = CoNNewClass-easy_{SUB}^{SUP}EXT
    \N{\c CLASS-HARD}_{SUB}^{SUP} [sup] [ext] = NNEWCLASS-HARD_{SUB}^{SUP}EXT
    \texttt{CoNCompClassH[sub][sup][ext]} = CoNNewClass-Hard_{SUB}^{SUP}EXT
    \NCompClassC[sub][sup][ext] = NNEWCLASS-COMPLETE_{SUB}^{SUP}EXT
    \ConCompClassC[sub][sup][ext] = ConNewClass-Complete_{Sup}^{SUP}Ext
   \verb|\UCompClass[sub][sup][ext]| = UNEWCLASS^{SUP}_{SUB}EXT
    \verb|\CoUCompClass[sub][sup][ext]| = CoUNEWCLASS_{SUB}^{SUP}EXT
    \verb| UCompClassE[sub][sup][ext] = UNEWCLASS-EASY_{SUB}^{SUP}EXT
    \verb|\CoUCompClassE[sub][sup][ext]| = CoUNEWCLASS-EASY_{SUB}^{SUP}EXT
    \verb|\UCompClassH[sub][sup][ext]| = UNEWCLASS-HARD_{SUB}^{SUP}EXT
    \texttt{CoUCompClassH[sub][sup][ext]} = \text{CoUNEWCLASS-HARD}^{\text{SUP}}_{\text{SUB}} \text{EXT}
    \UCompClassC[sub][sup][ext] = UNEWCLASS-COMPLETE_{SUB}^{SUP}EXT
```

```
\Coulomb Class C[sub][sup][ext] = Council New Class-complete E_{Sub}^{SUP} EXT
                                                \verb|\ACompClass[sub][sup][ext]| = ANEWCLASS^{SUP}_{SUR}EXT
                                                \verb|\CoACompClass[sub][sup][ext]| = CoANewClass_{SUB}^{SUP}EXT
                                                \verb|\ACompClassE[sub][sup][ext]| = ANEWCLASS-EASY_{SUB}^{SUP}EXT
                                                \verb|\CoACompClassE[sub][sup][ext]| = CoANewClass-easy_{sub}^{sup}ext|
                                                \ACompClassH[sub][sup][ext] = ANEWCLASS-HARD_{SUB}^{SUP}EXT
                                                \CoACompClassH[sub][sup][ext] = CoANEWCLASS-HARD_{SUB}^{SUP}EXT
                                                \verb|\ACompClassC[sub][sup][ext]| = ANEWCLASS-COMPLETE_{SUB}^{SUP}EXT
                                                \verb|\CoACompClassC[sub][sup][ext]| = CoANewClass-complete_{SUB}^{SUP}EXT
                                       966 \newcommandx{\defcomcls}[2][2=]
                                                 {\defcomclssem{#1}{\defval{#2}{#1}}}%
                                                  \defcomclssem{#1}{\defval{#2}{#1}}[Co]}
                                       968
                                       969 \newcommandx{\defcomclssem}[3][3=]
                                                {\defcomclsred{#3#1}{#2}[#3]%
                                                 \defcomclsred{#3N#1}{#2}[#3N]%
                                                 \defcomclsred{#3U#1}{#2}[#3U]%
                                                 \defcomclsred{#3A#1}{#2}[#3A]}
                                       974 \newcommandx{\defcomclsred}[3][3=]
                                                 {\defcomclscmd{#1}{#2}[#3]%
                                                 \label{lem:lemd} $$ \end{#1E}_{\#2}[\#3][-easy]% $$
                                       976
                                                 \label{lem:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma
                                       977
                                                 979 \newcommandx{\defcomclscmd}[4][3=, 4=]
                                                 {\csdef{#1}{\txtcom{#3#2#4}}}
              \defcomhrc ... to do!
                                            • \defcomhrc{CompHierarchy};
                                                 CompHierarchy[sub][sup][ext] = CompHierarchy_{SUB}^{SUP}EXT
                                             • \defcomhrc{CompHierarchy} [NewHierarchy];
                                                 CompHierarchy[sub][sup][ext] = NEWHIERARCHY_{SUB}^{SUP}EXT
                                       981 \newcommandx{\defcomhrc}[2][2=]
                                                {\csdef{#1}{\txtcom{\defval{#2}{#1}}}}
                                       \Easy, \Hard, ...
                                       984 \cmdtxtcom{Easy}
                                       985 \cmdtxtcom{Hard}
                                       986 \cmdtxtcom{Complete}
                                       • Time[sub][sup][ext] = TIME_{SUB}^{SUP}EXT
              \Time, ...
                                                \texttt{\TimeE[sub][sup][ext]} = \mathrm{TIME\text{-}EASY}^{SUP}_{SUB}\mathrm{EXT}
                                                \mathsf{TimeH[sub][sup][ext]} = \mathsf{TIME}\text{-}\mathsf{HARD}^{\mathsf{SUP}}_{\mathsf{SUB}}\mathsf{EXT}
                                                TimeC[sub][sup][ext] = TIME-COMPLETE_{SUB}^{SUP}EXT
                                             \bullet \ \ \texttt{NTime[sub][sup][ext]} = NTIME^{SUP}_{SUR}EXT
                                                \verb|\NTimeE[sub][sup][ext]| = NTIME-EASY_{SUB}^{SUP}EXT
                                                \verb|\NTimeH[sub][sup][ext]| = NTIME-HARD_{SUB}^{SUP}EXT
                                                \verb|\NTimeC[sub][sup][ext]| = NTIME-COMPLETE_{SUB}^{SUP}EXT
                                             • \UTime[sub][sup][ext] = UTIME_{SUB}^{SUP}EXT
                                                \verb| UTimeE[sub][sup][ext] = UTIME-EASY_{SUB}^{SUP}EXT
                                                 \verb| UTimeH[sub][sup][ext] = UTIME-HARD_{SUB}^{SUP}EXT
                                                \verb|\UTimeC[sub][sup][ext]| = UTIME-COMPLETE_{SUR}^{SUP}EXT
                                             • ATime[sub][sup][ext] = ATIME_{SUB}^{SUP}EXT
                                                \verb| ATimeE[sub][sup][ext] = ATime-easy_{sub}^{Sup}ext
                                                \Delta TimeH[sub][sup][ext] = ATIME-HARD_{SUB}^{SUP}EXT
                                                \Delta TimeC[sub][sup][ext] = ATIME-COMPLETE_{SUB}^{SUP}EXT
                                       988 \defcomcls{Time}
```

```
\Space, ...
                                       • Space[sub][sup][ext] = Space_{Sub}^{SUP}EXT
                                           \verb|\SpaceE[sub][sup][ext]| = Space-easy_{Sub}^{Sup}ext|
                                           \SpaceH[sub][sup][ext] = SPACE-HARD_{SUB}^{SUP}EXT
                                           \verb|\SpaceC[sub][sup][ext]| = Space-complete_{Sur}^{SUP}EXT
                                       • \NSpace[sub][sup][ext] = NSPACE_{SUB}^{SUP}EXT
                                           \verb|\NSpaceE[sub][sup][ext]| = NSPACE-EASY_{SUB}^{SUP}EXT
                                           \verb|\NSpaceH[sub][sup][ext]| = NSPACE-HARD^{SUP}_{SUB}EXT
                                           \verb|\NSpaceC[sub][sup][ext]| = NSPACE-COMPLETE_{SUB}^{SUP}EXT
                                       • USpace[sub][sup][ext] = USPACE_{SUB}^{SUP}EXT
                                           \verb|\USpaceE[sub][sup][ext]| = USPACE-EASY_{SUB}^{SUP}EXT
                                           \USpaceH[sub][sup][ext] = USPACE-HARD_{SUB}^{SUP}EXT
                                           	extstyle 	ext
                                       • ASpace[sub][sup][ext] = ASPACE_{SUB}^{SUP}EXT
                                           \verb|\ASpaceE[sub][sup][ext]| = ASPACE-EASY_{SUB}^{SUP}EXT
                                           ASpaceH[sub][sup][ext] = ASPACE-HARD_{SUB}^{SUP}EXT
                                           ASpaceC[sub][sup][ext] = ASPACE-COMPLETE_{SUB}^{SUP}EXT
                                  989 \defcomcls{Space}
                                       • \lfloor LogTime[sub][sup][ext] = LogTime_{Sub}^{SUP}EXT
 \LogTime, ...
                                          \verb|\LogTimeE[sub][sup][ext]| = LogTime-Easy_{SUB}^{SUP}EXT|
                                          \LogTimeH[sub][sup][ext] = LogTime-HARD_{SUB}^{SUP}EXT
                                           \LogTimeC[sub][sup][ext] = LogTime-Complete_{Sub}^{SUP}EXT
                                       • \NLogTime[sub][sup][ext] = NLogTime_{SUB}^{SUP}EXT
                                           \NLogTimeE[sub][sup][ext] = NLogTime-EASY_{SUB}^{SUP}EXT
                                           \verb|\NLogTimeH[sub][sup][ext]| = NLogTime-Hard_{SUB}^{SUP}EXT
                                           \NLogTimeC[sub][sup][ext] = NLogTime-Complete_{Sub}^{SUP}EXT
                                       • \ULogTime[sub][sup][ext] = ULogTime_SUP_EXT
                                          \ULogTimeE[sub][sup][ext] = ULogTime-EASY_{SUB}^{SUP}EXT
                                          \ULogTimeH[sub][sup][ext] = ULogTime-HARD_{SUB}^{SUP}EXT
                                          \ULogTimeC[sub][sup][ext] = ULogTime-Complete_{SUB}^{SUP}EXT
                                       • ALogTime[sub][sup][ext] = ALogTime_{SUB}^{SUP}EXT
                                           ALogTimeE[sub][sup][ext] = ALogTime-Easy_{SUB}^{SUP}EXT
                                           \verb|\ALogTimeH[sub][sup][ext]| = \mathrm{ALogTime-HARD}^{SUP}_{SUB}\mathrm{EXT}
                                          \ALogTimeC[sub][sup][ext] = ALogTime-Complete_{Sub}^{SUP}EXT
                                  990 \defcomcls{LogTime}
\LogSpace, ...
                                       • LogSpace[sub][sup][ext] = LogSpace_{SUB}^{SUP}EXT
                                           \LogSpaceE[sub][sup][ext] = LogSpace-Easy_{SUB}^{SUP}EXT
                                           \LogSpaceH[sub][sup][ext] = LogSpace-Hard_{Sub}^{SUP}EXT
                                           \verb|\LogSpaceC[sub][sup][ext]| = \operatorname{LogSpace-Complete}_{\operatorname{Sup}}^{\operatorname{SUP}}{\operatorname{EXT}}
                                       • \NLogSpace[sub][sup][ext] = NLogSpace_{SUB}^{SUP}EXT
                                          \NLogSpaceE[sub][sup][ext] = NLogSpace-Easy_{SUB}^{SUP}EXT
                                           \NLogSpaceH[sub][sup][ext] = NLogSpace-Hard_{SUB}^{SUP}EXT
                                           \NLogSpaceC[sub][sup][ext] = NLogSpace-Complete_{Sub}^{SUP}EXT
                                       • \ULogSpace[sub][sup][ext] = ULogSpace_Sup_EXT
                                          \verb|\ULogSpaceE[sub][sup][ext]| = ULogSpace-easy_{sup}^{SUP}ext|
                                          \ULogSpaceH[sub][sup][ext] = ULogSpace-HardSup_Sup_EXT
                                          \ULogSpaceC[sub][sup][ext] = ULogSpace-CompleteSup_{SUB}EXT
                                       • ALogSpace[sub][sup][ext] = ALogSpace_{SUB}^{SUP}EXT
                                           ALogSpaceE[sub][sup][ext] = ALogSpace-Easy_{SUB}^{SUP}EXT
                                           ALogSpaceH[sub][sup][ext] = ALogSpace-Hard_{SUB}^{SUP}EXT
                                           \verb|\ALogSpaceC[sub][sup][ext]| = ALogSpace-complete_{Sub}^{SUP}EXT
                                  991 \defcomcls{LogSpace}
                                       • \P [sub] [sup] [ext] = PTIME_{SUB}^{SUP}EXT
      \PTime, ...
                                          \label{eq:ptimeE} $$ \Pr[\sup] [ext] = \Pr[\max-EASY_{SUB}^{SUP}EXT] $$
                                          \verb|\PTimeH[sub][sup][ext]| = PTIME-HARD_{SUB}^{SUP}EXT
```

 $\PTimeC[sub][sup][ext] = PTIME-COMPLETE_{SUB}^{SUP}EXT$

```
• NPTime[sub][sup][ext] = NPTIME_{SUB}^{SUP}EXT
                                           \NPTimeE[sub][sup][ext] = NPTIME-EASY_{SUB}^{SUP}EXT
                                           \label{eq:nptimeH} $$ \DTIME-HARD_{SUB}^{SUP} = NPTIME-HARD_{SUB}^{SUP} EXT $$
                                           \texttt{NPTimeC[sub][sup][ext]} = \mathrm{NPTIME\text{-}COMPLETE}^{SUP}_{SUR}\mathrm{EXT}
                                       \label{eq:uptimeEsub} $$\operatorname{UPTimeE[sub][sup][ext]} = \operatorname{UPTIME-EASY}^{\operatorname{SUP}}_{\operatorname{SUB}} \operatorname{EXT} 
                                           \verb|\UPTimeH[sub][sup][ext]| = UPTIME-HARD^{SUP}_{SUB}EXT
                                           \label{eq:uptimeC} $$\operatorname{UPTIME-COMPLETE}^{SUP}_{SUB}$ EXT
                                       • APTime[sub][sup][ext] = APTIME_{SUB}^{SUP}EXT
                                           \verb| APTimeE[sub][sup][ext] = APTIME-EASY_{SUB}^{SUP}EXT
                                           \Delta PTimeH[sub][sup][ext] = APTIME-HARD_{SUB}^{SUP}EXT
                                           \label{eq:aptimeC} $$ \Delta PTimeC[sub][sup][ext] = APTIME-COMPLETE_{SUB}^{SUP}EXT $$
                                  992 \defcomcls{PTime}
  \PSpace, ...
                                       • \PSpace[sub][sup][ext] = PSPACE_{SUB}^{SUP}EXT
                                           \label{eq:pspace} $$ \PSpace[sub][sup][ext] = PSpace-Easy_{SUB}^{SUP}EXT $$
                                           \verb|PSpaceH[sub][sup][ext]| = PSPACE-HARD_{SUB}^{SUP}EXT
                                           \PSpaceC[sub][sup][ext] = PSPACE-COMPLETE_{SUB}^{SUP}EXT
                                       • \NPSpace[sub][sup][ext] = NPSPACE_{SUB}^{SUP}EXT
                                           \NPSpaceE[sub][sup][ext] = NPSPACE-EASY_{SUB}^{SUP}EXT
                                           \NPSpaceH[sub][sup][ext] = NPSPACE-HARD_{SUB}^{SUP}EXT
                                           \NPSpaceC[sub][sup][ext] = NPSPACE-COMPLETE_{SUB}^{SUP}EXT
                                       • \UPSpace[sub][sup][ext] = UPSPACE_{SUB}^{SUP}EXT
                                           \verb| UPSpaceE[sub][sup][ext] = UPSPACE-EASY_{SUB}^{SUP}EXT|
                                           \verb|VPSpaceH[sub][sup][ext]| = UPSpace-Hard_{SUB}^{SUP}EXT
                                           \UPSpaceC[sub][sup][ext] = UPSPACE-COMPLETE_{SUB}^{SUP}EXT
                                       • APSpace[sub][sup][ext] = APSPACE_{SUB}^{SUP}EXT
                                           \label{eq:apsilon} $$ APSpaceE[sub][sup][ext] = APSpace-EASY_{SUB}^{SUP}EXT $$
                                           \label{eq:apsilon} $$ \APSpaceH[sub][sup][ext] = APSpace-HARD_{SUB}^{SUP}EXT $$
                                           \APSpaceC[sub][sup][ext] = APSPACE-COMPLETE_{SUB}^{SUP}EXT
                                  993 \defcomcls{PSpace}
                                       • \QPTime[sub][sup][ext] = QPTIME_{SUB}^{SUP}EXT
  \QPTime, ...
                                           \verb|\QPTimeE[sub][sup][ext]| = \mathrm{QPTIME\text{-}EASY}^{SUP}_{SUB}\mathrm{EXT}|
                                           \QPTimeH[sub][sup][ext] = QPTIME-HARD_{SUB}^{SUP}EXT
                                           \verb|\QPTimeC[sub][sup][ext]| = \mathrm{QPTIME\text{-}COMPLETE}^{SUP}_{SUB}{EXT}
                                       • \NQPTime[sub][sup][ext] = NQPTIME_{SUB}^{SUP}EXT
                                           \verb|\NQPTimeE[sub][sup][ext]| = NQPTIME-EASY_{SUB}^{SUP}EXT|
                                           \verb|\NQPTimeH[sub][sup][ext]| = NQPTIME-HARD_{SUB}^{SUP}EXT
                                           \verb|\NQPTimeC[sub][sup][ext]| = NQPTIME-COMPLETE_{SUB}^{SUP}EXT|
                                       • \UQPTime[sub][sup][ext] = UQPTIME_{SUB}^{SUP}EXT
                                           \UQPTimeE[sub][sup][ext] = UQPTIME-EASY_{SUB}^{SUP}EXT
                                           \UQPTimeH[sub][sup][ext] = UQPTIME-HARD_{SUB}^{SUP}EXT
                                           \label{eq:uqptimeC} $$ \UQPTimeC[sub][sup][ext] = UQPTIME-COMPLETE^{SUP}_{SUB}EXT $$
                                       • AQPTime[sub][sup][ext] = AQPTIME_{SUB}^{SUP}EXT
                                           \verb|\AQPTimeE[sub][sup][ext]| = \mathrm{AQPTIME\text{-}EASY}^{SUP}_{SUB}\mathrm{EXT}|
                                           \AQPTimeH[sub][sup][ext] = AQPTIME-HARD_{SUR}^{SUP}EXT
                                           \AQPTimeC[sub][sup][ext] = AQPTIME-COMPLETE_{SUB}^{SUP}EXT
                                 994 \defcomcls{QPTime}
                                       • \QPSpace[sub][sup][ext] = QPSPACE_{SUB}^{SUP}EXT
\QPSpace, ...
                                           \label{eq:QPSpaceEsub} $$ \QPSpaceE[sub][sup][ext] = QPSpace-EASY_{SUB}^{SUP}EXT $$
                                           \verb|\QPSpaceH[sub][sup][ext]| = QPSPACE-HARD_{SUB}^{SUP}EXT|
                                           \label{eq:QPSpaceCsub} $$ \qrup{QPSpaceCsub} = QPSpace-Complete_{SUB}^{SUP} = QPSpace-Compl
                                       • \NQPSpace[sub][sup][ext] = NQPSPACE_{SUB}^{SUP}EXT
                                           \verb|NQPSpaceE[sub][sup][ext]| = NQPSPACE-EASY_{SUB}^{SUP}EXT|
                                           \verb|\NQPSpaceH[sub][sup][ext]| = \mathrm{NQPSpace}\text{-}\mathrm{HARD}^{\mathrm{SUP}}_{\mathrm{SUB}}\mathrm{EXT}
                                           \verb|NQPSpaceC[sub][sup][ext]| = NQPSPACE-COMPLETE_{SUB}^{SUP}EXT
```

```
\verb|VQPSpaceH[sub][sup][ext]| = \mathrm{UQPSPACE}\text{-}\mathrm{HARD}^{\mathrm{SUP}}_{\mathrm{SUB}}\mathrm{EXT}
                                      \verb|VQPSpaceC[sub][sup][ext]| = UQPSPACE-COMPLETE_{SUB}^{SUP}EXT
                                   • AQPSpace[sub][sup][ext] = AQPSPACE_{SUB}^{SUP}EXT
                                      \verb|\AQPSpaceE[sub][sup][ext]| = AQPSpace-Easy_{\tiny SUB}^{\tiny SUB}EXT
                                      \verb|\AQPSpaceH[sub][sup][ext]| = AQPSpace-Hard_{SUB}^{SUP}EXT
                                      \verb|AQPSpaceC[sub][sup][ext]| = AQPSPACE-COMPLETE_{SUB}^{SUP}EXT
                              995 \defcomcls{QPSpace}
 \ExpTime, ...
                                    \bullet \ \texttt{\ \ } \texttt{[sup][ext]} = \texttt{EXPTIME}^{\texttt{SUP}}_{\texttt{SUB}} \texttt{EXT} \\
                                      \ExpTimeE[sub][sup][ext] = EXPTIME-EASY_{SUR}^{SUP}EXT
                                      \ExpTimeH[sub][sup][ext] = EXPTIME-HARD_{SUP}^{SUP}EXT
                                      \ExpTimeC[sub][sup][ext] = EXPTIME-COMPLETE_{SUB}^{SUP}EXT
                                   • \NExpTime[sub][sup][ext] = NEXPTIME_{SUB}^{SUP}EXT
                                      \NExpTimeE[sub][sup][ext] = NEXPTIME-EASY_{SUB}^{SUP}EXT
                                      \verb|\NExpTimeH[sub][sup][ext]| = NEXPTIME-HARD_{SUB}^{SUP}EXT
                                      \NExpTimeC[sub][sup][ext] = NEXPTIME-COMPLETE_{SUB}^{SUP}EXT
                                   • \UExpTime[sub][sup][ext] = UEXPTIME_{SUB}^{SUP}EXT
                                      \label{eq:uexpTimeE} $$ \UEXPTIME-EASY_{SUB}^{SUP} = UEXPTIME-EASY_{SUB}^{SUP} = UEX
                                      \verb|\UExpTimeH[sub][sup][ext]| = UEXPTIME-HARD_{SUB}^{SUP}EXT
                                      \UExpTimeC[sub][sup][ext] = UEXPTIME-COMPLETE_{SUB}^{SUP}EXT
                                   • \triangle ExpTime[sub][sup][ext] = AEXPTIME_{SUB}^{SUP}EXT
                                      \verb|\AExpTimeE[sub][sup][ext]| = AEXPTIME-EASY_{SUB}^{SUP}EXT
                                      \verb|\AExpTimeH[sub][sup][ext]| = AEXPTIME-HARD_{SUB}^{SUP}EXT
                                      \texttt{AExpTimeC[sub][sup][ext]} = AEXPTIME-COMPLETE_{SUB}^{SUP}EXT
                              996 \defcomcls{ExpTime}
                                   • \ExpSpace[sub][sup][ext] = ExpSpace_{SUB}^{SUP}EXT
\ExpSpace, ...
                                      \ExpSpaceE[sub][sup][ext] = ExpSpace-Easy_{SUB}^{SUP}EXT
                                      \ExpSpaceH[sub][sup][ext] = ExpSpace-Hard_{Sub}^{Sup}Ext
                                      \ExpSpaceC[sub][sup][ext] = ExpSpace-CompleteSup_{SUB}EXT
                                   • \NExpSpace[sub][sup][ext] = NEXPSPACE_{SUB}^{SUP}EXT
                                      \NExpSpaceE[sub][sup][ext] = NEXpSpace-EASY_{SUB}^{SUP}EXT
                                      \NExpSpaceH[sub][sup][ext] = NEXPSPACE-HARD_{SUB}^{SUP}EXT
                                      \verb|\NExpSpaceC[sub][sup][ext]| = NEXPSPACE-COMPLETE_{SUB}^{SUP}EXT
                                   • \UExpSpace[sub][sup][ext] = UExpSpace_Sup_Ext
                                      \UExpSpaceE[sub][sup][ext] = UExpSpace-Easy_{SUB}^{SUP}Ext
                                      \UExpSpaceH[sub][sup][ext] = UExpSpace-Hard_{Sub}^{SUP}Ext
                                      \verb|\UExpSpaceC[sub][sup][ext]| = UEXPSPACE-COMPLETE^{SUP}_{SUB}EXT
                                   • \triangle ExpSpace[sub][sup][ext] = AExpSpace_{SUB}^{SUP}EXT
                                      \verb|\AExpSpaceE[sub][sup][ext]| = AExpSpace-easy_{Sub}^{SUP}EXT
                                      \texttt{AExpSpaceH[sub][sup][ext]} = \text{AExpSpace-HARD}^{\text{SUP}}_{\text{SUB}}EXT
                                      \texttt{AExpSpaceC[sub][sup][ext]} = \text{AExpSpace-complete}_{	ext{Sub}}^{	ext{Sup}} 	ext{Ext}
                              997 \defcomcls{ExpSpace}
                              \PH
                                   • \PH[sub][sup][ext] = PH_{SUB}^{SUP}EXT
                              999 \defcomhrc{PH}
                             1005 \ifgam@
```

• $UQPSpace[sub][sup][ext] = UQPSPACE_{SUB}^{SUP}EXT$

 $\verb|VQPSpaceE[sub][sup][ext]| = UQPSPACE-EASY_{SUB}^{SUP}EXT$

```
\SATG, ... ...
                 1007 %% Satisfiability Games
                 1008 \cmdtxtoparname{SATG}[Sat]
                 1010 %% Validity Games
                 1011 \cmdtxtoparname{VALG}[Val]
                 1012
                 1013 %% Evaluation Games
                 1014 \cmdtxtoparname{EVLG}[Evl]
                 1015
                 1016 %% Synthesis Games
                 1017 \cmdtxtoparname{SYNG}[Syn]
                 1019 %% Model-Checking Games
                 1020 \verb|\cmdtxtoparname{MCG}| [MC]|
                 1022 %% Ehrenfeucht-Fraisse Games
                 1023 \cmdtxtoparname{EFG}[EF]
                 \PlrSym, \OppSym
                 1025 \newcommand{\plrsym}{E}
                 1026 \cmdmthsym{Plr}[\plrsym]
                 1027 \verb|\newcommand{\oppsym}{A}|
                 1028 \cmdmthsym{Opp}[\oppsym]
\ArenaName, ... ...
                1029 \newcommand{\arenaname}{A}
                1030 \usrmthlatupp{Arena}{Name}{name}[\arenaname]
   \verb|\PosSet, ... ...|
                1031 \newcommand{\possym}{v}
                 1032 \newcommand{\posset}{Ps}
                 1033 \cmdmthsetext{Pos}[\posset][\possym]
                 1034 \cmdmthsymelm{ipos}[\possym_{I}]
                 1035 \cmdmthsymelm{fpos}[\possym_{F}]
                 1036 \cmdmthset{PPos}[\posset_{\PlrSym}]
                 1037 \cmdmthsymelm{ppos}[\possym_{\PlrSym}]
                 1038 \cmdmthset{OPos} [\posset_{\OppSym}]
                 1039 \cmdmthsymelm{opos}[\possym_{\OppSym}]
        \MovRel ...
                 1040 \newcommand{\movrel}{Mv}
                 1041 \cmdmthrel{Mov}[\movrel]
 \GameName, ... ...
                 1042 \mbox{ \newcommand{\gamename}{\Game}}
                 1043 \usrmthlatupp{Game}{Name}{name}[\gamename]
        \WinSet
                 1044 \mbox{ \newcommand{\winset}{Wn}}
                 1045 \cmdmthset{Win}[\winset]
\ObsSet, \obsFun
                 1046 \mbox{ \newcommand{\obsset}{0b}}
                 1047 \cmdmthset{Obs}[\obsset]
                 1048 \cmdmthfun{obs}
```

```
\PthSet, \pthFun
                    1050 \newcommand{\pthsym}{\pi}
                    1051 \newcommand{\pthset}{Pth}
                    1052 \cmdmthsetext{Pth} [\pthset] [\pthsym]
                    1053 \mbox{cmdmthfun{pth}}
     \HstSet, ...
                    1054 \mbox{ \newcommand{\hstsym}{\rho}}
                    1055 \mbox{ \newcommand{\hstset}{Hst}}
                    1056 \cmdmthsetext{Hst}[\hstset][\hstsym]
                    1057 \cmdmthset{PHst}[\hstset_{\PlrSym}]
                    1058 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
                    1059 \cmdmthset{OHst}[\hstset_{\OppSym}]
                    1060 \cmdmthsymelm{ohst}[\hstsym_{\OppSym}]
                    1061 \cmdmthfun{hst}
\PlaySet,\playFun
                    1062 \newcommand{\playsym}{\pi}
                    1063 \newcommand{\playset}{Play}
                    1064 \cmdmthsetext{Play}[\playset][\playsym]
                    1065 \cmdmthfun{play}
     \StrSet, ... ...
                    1066 \newcommand{\strsym}{\sigma}
                    1067 \newcommand{\strset}{Str}
                    1068 \cmdmthsetext{Str}[\strset][\strsym]
                    1069 \verb|\cmdmthset{PStr}[\strset_{\prsym}]|
                    1070 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
                    1071 \cmdmthset{OStr}[\strset_{\OppSym}]
                    1072 \cmdmthsymelm{ostr}[\strsym_{\OppSym}]
\PrfSet, \prfFun
                    1073 \newcommand{\prfsym}{\xi}
                    1074 \newcommand{\prfset}{Prf}
                    1075 \cmdmthsetext{Prf}[\prfset][\prfsym]
\preFun, \sucFun
                    1076 \newcommand{\prefun}{pre}
                    1077 \cmdmthoargfun{pre}[\prefun]
                    1078 \newcommand{\sucfun}{suc}
                    1079 \cmdmthoargfun{suc}[\sucfun]
\entFun, \escFun
                    1080 \newcommand{\entfun}{ent}
                    1081 \cmdmthoargfun{ent}[\entfun]
                    1082 \mbox{newcommand{\escfun}{esc}}
                    1083 \cmdmthoargfun{esc}[\cmdmthoargfun]
\intFun, \outFun
                    1084 \newcommand{\intfun}{int}
                    1085 \cmdmthoargfun{int}[\intfun]
                    1086 \newcommand{\outfun}{out}
                    1087 \cmdmthoargfun{out}[\outfun]
\atrFun, \rchFun
                    1088 \newcommand{\atrfun}{atr}
                    1089 \cmdmthoargfun{atr}[\atrfun]
                    1090 \newcommand{\rchfun}{rch}
                    1091 \cmdmthoargfun{rch}[\rchfun]
         \liftFun ...
                    1092 \newcommand{\liftfun}{lift}
                    1093 \cmdmthoargfun{lift}[\liftfun]
```

```
\solFun ...
             1094 \newcommand{\solfun}{sol}
             1095 \cmdmthoargfun{sol}[\solfun]
             \BG, ... ...
             1097 %% Buchi Games
             1098 \cmdtxtoparname{BG}
             1100 %% Co-Buchi Games
             1101 \cmdtxtoparname{CG}
             1102
             1103 %% Parity Games
             1104 \cmdtxtoparname{PG}
             1106 %% Rabin Games
             1107 \cmdtxtoparname{RG}
             1109 %% Streett Games
             1110 \cmdtxtoparname{SG}
             1112 %% Muller Games
             1113 \cmdtxtoparname{MG}
             \EvnSym, \OddSym ...
             1115 \newcommand{\evnsym}{0}
             1116 \cmdmthsym{Evn}[\evnsym]
             1117 \neq 1117 \pmod{ \pmod{ym}{1}}
             1118 \cmdmthsym{Odd}[\oddsym]
\PrtSet, \prtFun ...
             1119 \newcommand{\prtsym}{p}
             1120 \newcommand{\prtset}{Pr}
             1121 \cmdmthsetext{Prt}[\prtset][\prtsym]
             1122 \cmdmthfun{prt}[pr]
             \EG, ... ...
            1125 %% Energy Games
            1126 \cmdtxtoparname{EG}
             1128 %% Mean-Payoff Games
            1129 \cmdtxtoparname{MPG}
             1131 %% Discounted-Payoff Games
             1132 \cmdtxtoparname{DPG}
             \MaxSym, \MinSym
             1134 \newcommand{\maxsym}{\oplus}
             1135 \cmdmthsym{Max}[\maxsym]
             1136 \newcommand{\minsym}{\boxminus}
             1137 \cmdmthsym{Min}[\minsym]
```

```
\WghSet, \wghFun
            1138 \neq \{w\}
            1139 \newcommand{\wghset}{Wg}
            1140 \cmdmthsetext{Wgh} [\wghset] [\wghsym]
            1141 \cmdmthfun{wgh} [wg]
            1143 \fi
            1148 \iflog@
            \BF, \QBF, ... ...
            1150 % Boolean Formulae
            1151 \cmdtxtoparname{BF}
            1153 % Quantified Boolean Formulae
            1154 \DeclareRobustCommand{\QBF}
            1155
                \{\{\text{txtname}\{Q\}\}\setminus BF\}
            1156 \DeclareRobustCommand{\EBF}
                {\ensuremath{\exists}\BF}
            1158 \DeclareRobustCommand{\UBF}
                {\ensuremath{\forall}\BF}
            \LogSig, ... ...
            1161 \newcommand{\lceil \log sig}{L}
            1162 \verb|\usrmth|| a tupp{Log}{Sig}{sig}[\logsig]
     \Tt, \Ff ...
            1163 \newcommand{\ttsym}{\top}
            1164 \usrmth{Tt}{}{sym}[\ttsym]
            1165 \verb|\newcommand{\ffsym}{\bot}|
            1166 \usrmth{Ff}{}{sym}[\ffsym]
  \LCon, \LDis ...
            1167 \newcommand{\lconsym}{\land}
            1168 \usrmth{LCon}{}{lopr}[\lconsym]
            1169 \newcommand{\ldissym}{\lor}
            1170 \usrmth{LDis}{}{lopr}[\ldissym]
  \LExs, \LA11 ...
            1171 \newcommand{\lexssym}{\exists}
            1172 \usrmth{LExs}{}{lopr}[\lexssym]
            1173 \newcommand{\lallsym}{\forall}
            1174 \usrmth{LAll}{}{lopr}[\lallsym]
   \APSet, ... ...
            1175 \newcommand{\apsym}{p}
            1176 \newcommand{\apset}{AP}
            1177 \cmdmthsetext{AP}[\apset][\apsym]
            1178 \cmdmthfun{ap}\usrmth{ap}{}{argfun}
        \sub ...
            1179 \usrmth{sub}{}{argfun}
```

```
\Cnt, \Qnt, \Sym ...
               1180 \usrmth{Cnt}{}{sym}[C]
               1181 \usrmth{Qnt}{sym}[Q]
               1182 \usrmth{Sym}{}{sym}[\odot]
     \QAE, \QEA ...
               1183 \usrmth{QAE}{}{sym}[\forall\exists]
               1184 \usrmth{QEA}{}{sym}[\exists\forall]
   \QntSet, ... ...
               1185 \newcommand{\qntsym}{\wp}
               1186 \newcommand{\qntset}{Qn}
               1187 \cmdmthsetext{Qnt}[\qntset][\qntsym]
         \free ...
               1188 \usrmth{free}{}{argfun}
     \dep, \alt ...
               1189 \verb|\argfun|| \\
               1190 \usrmth{alt}{}{argfun}
\cnf, \dnf, ... ...
               1191 \cmdtxtabr{cnf}
               1192 \cmdtxtabr{dnf}
               1193 \cmdtxtabr{pnf}
               1194 \cmdtxtabr{nnf}
               \LogStr, ... ...
               1196 \newcommand{\logstr}{L}
               1197 \usrmthlatupp{Log}{Str}{str}[\logstr]
   \ValSet, ... ...
               1198 \newcommand{\valsym}{\xi}
               1199 \newcommand{\valset}{Val}
               1200 \cmdmthsetext{Val}[\valset][\valsym]
   \AsgSet, ...
               1201 \newcommand{\asgsym}{\chi}
               1202 \verb|\newcommand{\asgset}{Asg}|
               1203 \cmdmthsetext{Asg}[\asgset][\asgsym]
               \FOL, ... ...
               1205 % First-Order Logic
               1206 \cmdtxtoparname{FOL}[Fol]
               1208 % Monadic First-Order Logic
               1209 \DeclareRobustCommand{\MFOL}
                    {\{\text{txtname}\{M\}}\FOL\}
               \VarSig, ... ...
               1212 \newcommand{\varsig}{V}
               1213 \usrmthlatupp{Var}{Sig}{sig}[\varsig]
               1214 \newcommand{\varsym}{x}
               1215 \newcommand{\varset}{Vr}
               1216 \cmdmthsetext{Var}[\varset][\varsym]
               1217 \usrmth{var}{}{argfun}[vr]
               1218 \cmdmthfun{dim}[dm]\usrmth{dim}{}{argfun}[dm]
```

```
\ConSig, ... ...
              1219 \mbox{ } \mbox{consig}{C}
              1220 \usrmthlatupp{Con}{Sig}{sig}[\consig]
              1221 \mbox{ }\mbox{consym}{c}
              1222 \mbox{ } \mbox{conset}{Cn}
              1223 \cmdmthsetext{Con}[\conset][\consym]
              1224 \usrmth{con}{}{argfun}[cn]
\FunSig, ... ...
              1225 \mbox{ } \mbox{newcommand{\funsig}{F}}
              1226 \usrmthlatupp{Fun}{Sig}{sig}[\funsig]
              1227 \rightarrow \{1227 \}
              1228 \newcommand{\funset}{Fn}
              1229 \cmdmthsetext{Fun} [\funset] [\funsym]
              1230 \usrmth{fun}{}{argfun}[fn]
              1231 \cmdmthfun{art}[ar]\usrmth{art}{}{argfun}[ar]
\TerSig, ... ...
              1232 \newcommand{\tersig}{T}
              1233 \usrmthlatupp{Ter}{Sig}{sig}[\tersig]
              1234 \newcommand{\tersym}{t}
              1235 \newcommand{\terset}{Tr}
              1236 \cmdmthsetext{Ter}[\terset][\tersym]
              1237 \operatorname{ter}{{argfun}}
\RelSig, ... ...
              1238 \newcommand{\relsig}{R}
              1239 \usrmthlatupp{Rel}{Sig}{sig}[\relsig]
              1240 \newcommand{\relsym}{r}
              1241 \newcommand{\relset}{Rl}
              1242 \cmdmthsetext{Rel}[\relset][\relsym]
              1243 \usrmth{rel}{}{argfun}[rl]
        \skm ...
              1244 \usrmth{skm}{}{argfun}
              \ConStr, ... ...
              1246 \newcommand{\constr}{C}
              1247 \usrmthlatupp{Con}{Str}{str}[\constr]
\FunStr, ... ...
              1248 \mbox{ } \mbox{newcommand{\funstr}{F}}
              1249 \usrmthlatupp{Fun}{Str}{str}[\funstr]
\TerStr, ... ...
              1250 \mbox{ } \mbox{newcommand{\terstr}{T}}
              1251 \usrmthlatupp{Ter}{Str}{str}[\terstr]
\RelStr, ... ...
              1252 \newcommand{\relstr}{R}
              1253 \usrmthlatupp{Rel}{Str}{str}[\relstr]
              \DF, \IF, ... ...
              1255 % Dependence-Friendly Logic
              1256 \cmdtxtoparname{DF}
              1257
              1258 % Independence-Friendly Logic
              1259 \cmdtxtoparname{IF}
              1260
```

```
1261 % Dependence/Independence-Friendly Logic
           1262 \cmdtxtoparname{DIF}
           1263
           1264 % Team Logic
           1265 \cmdtxtoparname{TL}
           1267 % Alternating Dependence-Friendly Logic
           1268 \cmdtxtoparname{ADF}
           1270 % Alternating Independence-Friendly Logic
           1271 \cmdtxtoparname{AIF}
           1273 % Alternating Dependence/Independence-Friendly Logic
           1274 \cmdtxtoparname{ADIF}
           \LEExs, \LAA11
           1276 \mbox{ \newcommand{\leexssym}{\Sigma}}
           1277 \usrmth{LEExs}{}{lopr}[\leexssym]
           1278 \newcommand{\laallsym}{\Pi}
           1279 \usrmth{LAAll}{}{lopr}[\laallsym]
           \SOL, ... ...
           1282 % Second-Order Logic
           1283 \cmdtxtoparname{SOL}[Sol]
           1285 % Monadic Second-Order Logic
           1286 \DeclareRobustCommand{\MSOL}
           1287 \{\{\text{txtname}\{M\}\}\}\
           \FVarSet, ... ...
           1289 \newcommand{\fvarsym}{x}
           1290 \newcommand{\fvarset}{FVr}
           1291 \cmdmthsetext{FVar}[\fvarset][\fvarsym]
\SVarSet, ... ...
           1292 \newcommand{\svarsym}{X}
           1293 \newcommand{\svarset}{SVr}
           1294 \cmdmthsetext{SVar}[\svarset][\svarsym]
           \TL, \PL, ... ...
           1297 % Tree Logic
           1298 \cmdtxtoparname{TL}
           1300 % Monadic Tree Logic
           1301 \DeclareRobustCommand{\MTL}
               {\{\text{txtname}\{M\}}\TL\}
           1304 % Path Logic
```

```
1305 \cmdtxtoparname{PL}
             1306
             1307 % Monadic Path Logic
             1308 \DeclareRobustCommand{\MPL}
                {\{\text{txtname}\{M\}}\PL\}
             \ML, \QML, ... ...
            1313 % Modal Logic
            1314 \cmdtxtoparname{ML}
             1315
             1316 % Quantified Modal Logic
             1317 \DeclareRobustCommand{\QML}
             1318 \{\{\text{txtname}\{Q\}\}\}\}
             1319 \DeclareRobustCommand{\EML}
             1320 {\ensuremath{\exists}\ML}
             1321 \DeclareRobustCommand{\UML}
            1322 {\ensuremath{\forall}\ML}
            \Opr ...
            1324 \usrmth{Opr}{}{sym}[Op]
  \DMod, \BMod ...
             1325 \usrmth{DMod}{}{sym}[\Diamond]
            1326 \verb|\usrmth{BMod}{{}} sym} [\verb|\Box|]
    \Exs, \All ...
             1327 \DeclareRobustCommand{\Exs}[1]
                {\mth{\defval{\argmid{\langle}{#1}{\rangle}}}{\DMod}}}
             1329 \DeclareRobustCommand{\All}[1]
             \KrpStr, ... ...
            1332 \newcommand{\krpstr}{K}
            1333 \usrmthlatupp{Krp}{Str}{str}[\krpstr]
  \WrlSet, ... ...
            1334 \newcommand{\wrlsym}{w}
            1335 \newcommand{\wrlset}{W}
             1336 \cmdmthsetext{Wrl}[\wrlset][\wrlsym]
            1337 \cmdmthsymelm{iwrl}[\wrlsym_{I}]
\AccRel, \TrnRel ...
             1338 \neq \{R\}
             1339 \cmdmthrel{Acc}[\accsym]
            1340 \cmdmthrel{Trn}[\accsym]
      \labFun ...
             1341 \mbox{labsym}{{\labsym}}
             1342 \cmdmthfun{lab}[\labsym]
```

```
\PthSet, \pthFun
              1343 \providecommand{\pthsym}{\pi}
              1344 \providecommand{\pthset}{Pth}
              1345 \cmdmthsetext{Pth} [\pthset] [\pthsym]
              1346 \cmdmthfun{pth}
              \MC, \QMC, ... ...
              1348 % Mu Calculus
              1349 \cmdtxtoparname{MC}[\ensuremath{\mu}-Calculus]
              1351 % Quantified Modal Logic
              1352 \DeclareRobustCommand{\QMC}
                  {{\txtname{0}}\MC}
              1354 \DeclareRobustCommand{\EMC}
              1355 {\ensuremath{\exists}\MC}
              1356 \DeclareRobustCommand{\UMC}
                  {\ensuremath{\forall}\MC}
              \PTL, \LTL, ...
              1361 % Propositional Temporal Logic
              1362 \cmdtxtoparname{PTL}
              1364 % Quantified Propositional Temporal Logic
              1365 \DeclareRobustCommand{\QPTL}
              1366 \quad \{\{\text{txtname}\{Q\}\}\}\}
              1367 \DeclareRobustCommand{\EPTL}
                  {\ensuremath{\exists}\PTL}
              1369 \DeclareRobustCommand{\UPTL}
              1370 {\ensuremath{\forall}\PTL}
              1372 % Linear Temporal Logic
              1373 \cmdtxtoparname{LTL}
              1374
              1375 % Quantified Linear Temporal Logic
              1376 \DeclareRobustCommand{\QLTL}
                   {\{\text{txtname}\{Q\}\}\setminus LTL\}}
              1378 \DeclareRobustCommand{\ELTL}
                   {\ensuremath{\exists}\LTL}
              1380 \DeclareRobustCommand{\ULTL}
                  {\ensuremath{\forall}\LTL}
              \X, ... ...
              1383 \usrmth{X}{}{sym}[X\,]
              1384 \usrmth{F}{}{sym}[F\,]
              1385 \usrmth{G}{}{sym}[G\,]
              1386 \usrmth{U}{}{sym}[\,U\,]
              1387 \usrmth{R}{}{sym}[\,R\,]
       \Y, ... ...
              1388 \usrmth{Y}{}{sym}[G\,]
              1389 \mbox{usrmth}{P}{}{sym}[P\,]\let\SavePilcrow\P
              1390 \usrmth{H}{}{sym}[H\,]\let\SaveDoubleAcute\H
              1391 \space{1}{sym}[\,S\,]\leq \space{1}{symbol}S
              1392 \usrmth{B}{}{sym}[\,B\,]
```

```
\PDL, \CTL, ...
             1396 % Propositional Dynamic Logic
              1397 \cmdtxtoparname{PDL}
             1399 % Computation Tree Logic
             1400 \verb|\cmdtxtoparname{CTL}|
             1401
             1402 % Quantified Computation Tree Logic
              1403 \DeclareRobustCommand{\QCTL}
                  {\{\text{txtname}\{Q\}\}\CTL\}}
              1405 \DeclareRobustCommand{\ECTL}
              1406 {\ensuremath{\exists}\CTL}
              1407 \DeclareRobustCommand{\UCTL}
              1408
                  {\ensuremath{\forall}\CTL}
             1409
             1410\ \% Improved Computation Tree Logic
              1411 \cmdtxtoparname{CTLP}[CTL$^{+}$]
              1413 % Quantified Improved Computation Tree Logic
              1414 \DeclareRobustCommand{\QCTLP}
                  {\{\text{txtname}\{Q\}\}\CTLP\}}
              1416 \DeclareRobustCommand{\ECTLP}
                  {\ensuremath{\exists}\CTLP}
             1418 \DeclareRobustCommand{\UCTLP}
             1419
                  {\ensuremath{\forall}\CTLP}
             1420
             1421 % Full Computation Tree Logic
             1422 \cmdtxtoparname{CTLS}[CTL*]
             1424 % Quantified Full Computation Tree Logic
             1425 \DeclareRobustCommand{\QCTLS}
                 {\{\text{txtname}\{Q\}\}\CTLS}
             1427 \verb|\DeclareRobustCommand{\ECTLS}|
             1428 {\ensuremath{\exists}\CTLS}
              1429 \verb|\DeclareRobustCommand{\UCTLS}|
                  {\ensuremath{\forall}\CTLS}
              \E, \A ...
              1432 \operatorname{LSYm}
              1433 \usrmth{A}{}{sym}
              \ATL, ...
             1436 % Alternating Temporal Logic
             1437 \cmdtxtoparname{ATL}
             1438
             1439 % Quantified Alternating Temporal Logic
              1440 \DeclareRobustCommand{\QATL}
                  {\{\text{txtname}\{Q\}\}\setminus ATL\}}
              1442 \DeclareRobustCommand{\EATL}
              1443 {\ensuremath{\exists}\ATL}
              1444 \DeclareRobustCommand{\UATL}
```

```
1445
                   {\ensuremath{\forall}\ATL}
             1446
             1447 % Improved Alternating Temporal Logic
             1448 \cmdtxtoparname{ATLP}[ATL$^{+}$]
             1450 % Quantified Improved Alternating Temporal Logic
             1451 \DeclareRobustCommand{\QATLP}
             1452 \quad \{\{\text{txtname}\{Q\}\} \setminus ATLP\}
             1453 \DeclareRobustCommand{\EATLP}
             1454 {\ensuremath{\exists}\ATLP}
             1455 \DeclareRobustCommand{\UATLP}
                  {\ensuremath{\forall}\ATLP}
             1457
             1458\;\text{\%} Full Alternating Temporal Logic
             1459 \cmdtxtoparname{ATLS}[ATL*]
             1461 % Quantified Full Alternating Temporal Logic
             1462 \DeclareRobustCommand{\QATLS}
                  {{\txtname{Q}}\ATLS}
             1464 \DeclareRobustCommand{\EATLS}
             1465 {\ensuremath{\exists}\ATLS}
             1466 \DeclareRobustCommand{\UATLS}
                  {\ensuremath{\forall}\ATLS}
             \EExs, \AAll
             1469 \DeclareRobustCommand{\EExs}[1]
             1470 {\mth{\argmid{\langle\!\langle}{\defval{#1}{\emptyset}}{\rangle\!\rangle}}}
             1471 \DeclareRobustCommand{\AAll}[1]
                  {\mth{\argmid{\left[\left[}{\defval{#1}{\emptyset}}{\right]\right]}}}
             \CGS ...
             1474 \cmdtxtname{CGS}
\CGSStr, ... ...
             1475 \mbox{ } \mbox{cgsstr}{G}
             1476 \usrmthlatupp{CGS}{Str}{str}[\cgsstr]
\AgnSet, ... ...
             1477 \newcommand{\agnsym}{a}
             1478 \newcommand{\agnset}{Ag}
             1479 \cmdmthsetext{Agn}[\agnset][\agnsym]
\PosSet, ... ...
             1480 \providecommand{\possym}{v}
             1481 \providecommand{\posset}{Ps}
             1482 \cmdmthsetext{Pos}[\posset][\possym]
             1483 \cmdmthsymelm{ipos}[\possym_{I}]
             1484 \cmdmthsymelm{fpos}[\possym_{F}]
             1485 \cmdmthset{PPos}[\posset_{\PlrSym}]
             1486 \cmdmthsymelm{ppos}[\possym_{\PlrSym}]
             1487 \cmdmthset{OPos} [\posset_{\OppSym}]
             1488 \cmdmthsymelm{opos}[\possym_{\OppSym}]
\SttSet, ...
             1489 \newcommand{\sttsym}{s}
             1490 \mbox{ } \mbox{newcommand{\sttset}{St}}
             1491 \cmdmthsetext{Stt}[\sttset][\sttsym]
             1492 \cmdmthset{IStt}[\sttset_{I}]
             1493 \cmdmthsymelm{istt}[\sttsym_{I}]
             1494 \cmdmthset{FStt}[\sttset_{F}]
             1495 \cmdmthsymelm{fstt}[\sttsym_{F}]
```

```
\ActSet, ... ...
                   1496 \newcommand{\actsym}{c}
                   1497 \mbox{ } \mbox{actset}{Ac}
                   1498 \cmdmthsetext{Act}[\actset][\actsym]
    \DecSet, ... ...
                   1499 \mbox{ \newcommand{\decsym}{d}}
                   1500 \mbox{ \newcommand{\decset}{Dc}}
                   1501 \cmdmthsetext{Dec}[\decset][\decsym]
         \mbox{movFun}
                   1502 \mbox{ newcommand{\movsym}{\tau}}
                   1503 \cmdmthfun{mov}[\movsym]
    \HstSet, ...
                   1504 \providecommand{\hstsym}{\rho}
                   1505 \providecommand{\hstset}{Hst}
                   1506 \cmdmthsetext{Hst}[\hstset][\hstsym]
                   1507 \cmdmthset{PHst}[\hstset_{\PlrSym}]
                   1508 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
                   1509 \cmdmthset{OHst}[\hstset_{\OppSym}]
                   1510 \cmdmthsymelm{ohst}[\hstsym_{\OppSym}]
                   1511 \cmdmthfun{hst}
\PlaySet,\playFun
                   1512 \displaystyle \frac{\pi}{\pi}
                   1513 \providecommand{\playset}{Play}
                   1514 \cmdmthsetext{Play}[\playset][\playsym]
                   1515 \cmdmthfun{play}
    \StrSet, ... ...
                   1516 \providecommand{\strsym}{\sigma}
                   1517 \verb|\providecommand{\strset}{Str}
                   1518 \cmdmthsetext{Str}[\strset][\strsym]
                   1519 \cmdmthset{PStr}[\strset_{\PlrSym}]
                   1520 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
                   1521 \cmdmthset{OStr}[\strset_{\OppSym}]
                   1522 \mbox{ \cmdmthsymelm{ostr} [\strsym_{\oppSym}]}
\PrfSet, \prfFun
                   1523 \providecommand{\prfsym}{\xi}
                   1524 \providecommand{\prfset}{Prf}
                   1525 \cmdmthsetext{Prf}[\prfset][\prfsym]
                   \SL, ... ...
                   1527 % Strategy Logic
                   1528 \cmdtxtoparname{SL}
                   1529
                   1530 \DeclareRobustCommand{\ESL}
                        {\ensuremath{\exists}\SL}
                   1532 \DeclareRobustCommand{\USL}
                   1533
                        {\ensuremath{\forall}\SL}
                   1534
                   1535 \DeclareRobustCommand{\FSL}
                        {\{\text{txtname}\{F\}\}\SL\}}
                   1536
                   1537
                   1538 \DeclareRobustCommand{\EFSL}
                        {\ensuremath{\exists}\FSL}
                   1540 \DeclareRobustCommand{\UFSL}
                   1541
                        {\ensuremath{\forall}\FSL}
                   1542
```

```
1543 % One-Goal Strategy Logic
1544 \DeclareRobustCommandx{\OGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][1g\arglef{,}{#3}]}
1546
1547 \DeclareRobustCommand{\EOGSL}
     {\ensuremath{\exists}\OGSL}
1548
1549 \DeclareRobustCommand{\UOGSL}
      {\ensuremath{\forall}\OGSL}
1550
1551
1552 \DeclareRobustCommand{\FOGSL}
      {{\txtname{F}}\OGSL}
1555 \DeclareRobustCommand{\EFOGSL}
      {\ensuremath{\exists}\FOGSL}
1557 \DeclareRobustCommand{\UFOGSL}
1558
      {\ensuremath{\forall}\FOGSL}
1559
1560 % Conjunctive-Goal Strategy Logic
1561 \DeclareRobustCommandx{\CGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][cg\arglef{,}{#3}]}
1563
1564 \DeclareRobustCommand{\ECGSL}
      {\ensuremath{\exists}\CGSL}
1566 \DeclareRobustCommand{\UCGSL}
      {\ensuremath{\forall}\CGSL}
1567
1568
1569 \DeclareRobustCommand{\FCGSL}
1570
     {\{ \text{xtname}\{F\} \} xGSL \}}
1571
1572 \DeclareRobustCommand{\EFCGSL}
      {\ensuremath{\exists}\FCGSL}
1574 \DeclareRobustCommand{\UFCGSL}
1575
      {\ensuremath{\forall}\FCGSL}
1576
1577 % Disjunctive-Goal Strategy Logic
1578 \ensuremath{\texttt{DGSL}}[3][1=, 2=, 3=]
      {SL[#1][#2][dg\arg\{{,}{#3}]}
1579
1580
1581 \DeclareRobustCommand{\EDGSL}
      {\ensuremath{\exists}\DGSL}
1583 \DeclareRobustCommand{\UDGSL}
      {\ensuremath{\forall}\DGSL}
1586 \DeclareRobustCommand{\FDGSL}
1587
      {\{\text{txtname}\{F\}\}\setminus xGSL\}}
1588
1589 \DeclareRobustCommand{\EFDGSL}
     {\ensuremath{\exists}\FDGSL}
1591 \DeclareRobustCommand{\UFDGSL}
      {\ensuremath{\forall}\FDGSL}
1594 % Alternating-Goal Strategy Logic
1595 \DeclareRobustCommandx{\AGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][ag\arglef{,}{#3}]}
1597
1598 \DeclareRobustCommand{\EAGSL}
      {\ensuremath{\exists}\AGSL}
1600 \DeclareRobustCommand{\UAGSL}
      {\ensuremath{\forall}\AGSL}
1601
1602
1603 \DeclareRobustCommand{\FAGSL}
      {\{\text{xtname}\{F\}\}\xgsl}
1604
1605
```

```
1606 \DeclareRobustCommand{\EFAGSL}
     {\ensuremath{\exists}\FAGSL}
1608 \DeclareRobustCommand{\UFAGSL}
1609
     {\ensuremath{\forall}\FAGSL}
1610
1611 % Extended-Goal Strategy Logic
1612 \DeclareRobustCommandx{\EGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][eg\arglef{,}{#3}]}
1614
1615 \DeclareRobustCommand{\EEGSL}
     {\ensuremath{\exists}\EGSL}
1617 \DeclareRobustCommand{\UEGSL}
1618
      {\ensuremath{\forall}\EGSL}
1619
1620 \DeclareRobustCommand{\FEGSL}
      {{\txtname{F}}\xGSL}
1621
1622
1623 \DeclareRobustCommand{\EFEGSL}
      {\ensuremath{\exists}\FEGSL}
1625 \DeclareRobustCommand{\UFEGSL}
      {\ensuremath{\forall}\FEGSL}
1626
1628 % Boolean-Goal Strategy Logic
1629 \DeclareRobustCommandx{\BGSL}[3][1=, 2=, 3=]
     {\SL[#1][#2][bg\arglef{,}{#3}]}
1630
1631
1632 \DeclareRobustCommand{\EBGSL}
1633
     {\ensuremath{\exists}\BGSL}
1634 \DeclareRobustCommand{\UBGSL}
     {\ensuremath{\forall}\BGSL}
1636
1637 \DeclareRobustCommand{\FBGSL}
1638
     {\{\text{xtname}\{F\}\}\times GSL\}}
1639
1640 \verb|\DeclareRobustCommand{\EFBGSL}|
     {\ensuremath{\exists}\FBGSL}
1641
1642 \DeclareRobustCommand{\UFBGSL}
     {\ensuremath{\forall}\FBGSL}
1644
1645 % Nested-Goal Strategy Logic
1646 \DeclareRobustCommandx{\NGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][ng\arglef{,}{#3}]}
1649 \DeclareRobustCommand{\ENGSL}
     {\ensuremath{\exists}\NGSL}
1651 \DeclareRobustCommand{\UNGSL}
1652
     {\ensuremath{\forall}\NGSL}
1653
1654 \DeclareRobustCommand{\FNGSL}
     {{\txtname{F}}\xGSL}
1655
1656
1657 \DeclareRobustCommand{\EFNGSL}
     {\ensuremath{\exists}\FNGSL}
1659 \DeclareRobustCommand{\UFNGSL}
1660
     {\ensuremath{\forall}\FNGSL}
1661
1662 % Undefined-Goal Strategy Logic
1663 \DeclareRobustCommandx{\XGSL}[3][1=, 2=, 3=]
     {\SL[#1][#2][xg\arglef{,}{#3}]}
1664
1665
1666 \DeclareRobustCommand{\EXGSL}
     {\ensuremath{\exists}\XGSL}
1668 \DeclareRobustCommand{\UXGSL}
```

```
1669
                                                                                                {\ensuremath{\forall}\XGSL}
                                                                      1670
                                                                      1671 \DeclareRobustCommand{\FXGSL}
                                                                      1672
                                                                                             {\{\text{txtname}\{F\}\}\setminus xGSL\}}
                                                                      1673
                                                                      1674 \DeclareRobustCommand{\EFXGSL}
                                                                      1675 {\ensuremath{\exists}\FXGSL}
                                                                      1676 \DeclareRobustCommand{\UFXGSL}
                                                                                             {\ensuremath{\forall}\FXGSL}
                                                                      \BndSet, ... ...
                                                                      1679 \mbox{ \newcommand{\bndsym}{\flat}}
                                                                     1680 \newcommand{\bndset}{Bn}
                                                                     1681 \cmdmthsetext{Bnd}[\bndset][\bndsym]
                                                                      1682 \mbox{ \normalfond}{{\normalfond}}{{\normalfond}}{{\normalfond}}
                                            \psn ...
                                                                     1683 \usrmth{psn}{}{argfun}
                                                                      \nxtFun
                                                                      1685 \newcommand{\nxtfun}{nxt}
                                                                      1686 \cmdmthfun{nxt} [\nxtfun]
                                                                      1687 \fi
                                                                      1692 \ifaut@
                                                                      \DWA, ...
                                                                     1694 \verb|\cmdtxtoparname{NWA}\cmdtxtoparname{WMA}\cmdtxtoparname{AWA}|
                                                                      1696 \verb|\cmdtxtoparname{DFW}| cmdtxtoparname{UFW}| cmdtxtoparname{AFW}| cmdtxtoparname{AFW}|
                                                                      1697 \verb|\cmdtxtoparname{DBW}\cmdtxtoparname{MBW}\cmdtxtoparname{ABW}| $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$ $$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$ 1697 $$$$ 1697 $$$
                                                                      1698 \verb|\cmdtxtoparname{DCW}\cmdtxtoparname{MCW}\cmdtxtoparname{ACW}|
                                                                      1699 \verb|\cmdtxtoparname{DPW}\cmdtxtoparname{MPW}\cmdtxtoparname{APW}| $$
                                                                      1700 \verb|\cmdtxtoparname{DRW}\cmdtxtoparname{ARW}| $$ 1700 \verb|\cmdtxtoparname{DRW}\cmdtxtoparname{ARW}| $$ 1700 \verb|\cmdtxtoparname{DRW}\cmdtxtoparname{ARW}| $$ 1700 \verb|\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}| $$ 1700 \verb|\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}| $$ 1700 \verb|\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}| $$ 1700 \verb|\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}| $$ 1700 \verb|\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}| $$ 1700 \verb|\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\
                                                                      1702 \verb|\cmdtxtoparname{DMW}\cmdtxtoparname{MW}| cmdtxtoparname{AMW}| c
\GFG, \PD, ... ...
                                                                      1703 \cmdtxtoparname{GFG}
                                                                      1705 \cmdtxtoparname{PD}
                                                                      1706
                                                                      1707 %% ...
                                                                      \AutName, ... ...
                                                                      1709 \mbox{newcommand{\autname}{A}}
                                                                      1710 \usrmthlatupp{Aut}{Name}{name}[\autname]
                                                                      1711 \newcommand{\autset}{Aut}
                                                                      1712 \cmdmthset{Aut}[\autset]
                          \WAutSet ...
                                                                      1713 \newcommand{\wautset}{WAut}
```

1714 \cmdmthset{WAut}[\wautset]

```
\SttSet, ... ...
           1715 \def\sttsym{q}
           1716 \def\sttset{Q}
           1717 \cmdmthsetext{Stt}[\sttset][\sttsym]
            1718 \verb|\cmdmthset{IStt}| [\sttset_{I}]|
            1719 \verb|\cmdmthsymelm{istt}[\sttsym_{I}]|
            1720 \verb|\cmdmthset{FStt}| [\sttset_{F}]|
            1721 \cmdmthsymelm{fstt}[\sttsym_{F}]
\SymSet, ...
           1722 \newcommand{\symsym}{\sigma}
            1723 \newcommand{\symset}{\Sigma}
            1724 \cmdmthsetext{Sym}[\symset][\symsym]
    \trnFun ...
            1725 \newcommand{\trnsym}{\delta}
            1726 \cmdmthfun{trn}[\trnsym]
            \LangFun ...
            1728 \mbox{ }\mbox{langfun}{L}
            1729 \cmdmthfun{Lang}[\langfun]
\WrdSet, ... ...
            1730 \newcommand{\wrdsym}{w}
            1731 \newcommand{\wrdset}{Wr}
            1732 \cmdmthsetext{Wrd}[\wrdset][\wrdsym]
            \DTA, ... ...
           1734 \verb|\cmdtxtoparname{NTA}\cmdtxtoparname{UTA}\cmdtxtoparname{ATA}|
            1736 \verb|\cmdtxtoparname{DFT}\cmdtxtoparname{AFT}| \\
            1737 \cmdtxtoparname{DBT}\cmdtxtoparname{ABT}
            1738 \cmdtxtoparname{DCT}\cmdtxtoparname{UCT}\cmdtxtoparname{UCT}\cmdtxtoparname{ACT}
            1739 \cmdtxtoparname{DPT}\cmdtxtoparname{MPT}\cmdtxtoparname{MPT}\cmdtxtoparname{APT}
            1740 \verb|\cmdtxtoparname{NRT}\cmdtxtoparname{URT}\cmdtxtoparname{ART}|
            1741 \verb|\cmdtxtoparname{NST}\cmdtxtoparname{UST}\cmdtxtoparname{AST}|
            1742 \verb|\cmdtxtoparname{NMT}\cmdtxtoparname{UMT}\cmdtxtoparname{AMT}|
            \TAutSet ...
            1744 \newcommand{\tautset}{TAut}
            1745 \cmdmthset{TAut}[\tautset]
\DirSet, ... ...
            1746 \newcommand{\dirsym}{d}
            1747 \newcommand{\dirset}{\Lambda}
            1748 \cmdmthsetext{Dir}[\dirset][\dirsym]
            \TreeSet, ... ...
            1750 \newcommand{\treesym}{T}
            1751 \newcommand{\treeset}{Tr}
            1752 \cmdmthsetext{Tree} [\treeset] [\treesym]
    \wotFun ...
            1753 \newcommand{\wotfun}{wot}
            1754 \cmdmthfun{wot}[\wotfun]
```

```
1755 \fi
     1760 \iffrm@
   1761 %%...
     1762 \fi
     1767 \iffig@
     1768 \RequirePackage{tikz}
     1769 \usetikzlibrary{arrows, shapes, patterns}
     1770 \tikzstyle{every node} =
       [draw = none, fill = none, black, thin]
     1772 \tikzstyle{every edge} +=
     1773 [black, thick]
     1774 \tikzstyle{noall} =
     1775 [draw = none, fill = none]
     1776 \tikzstyle{nodraw} =
     1777 [draw = none, fill = white]
     1778 \tikzstyle{nofill} =
     1779 [draw = black, fill = none]
     1780 \ifwrpfig@
     1781 % Wrapfig Package
     1782
       \RequirePackage{wrapfig}
     1783 \fi
     1784 \fi
     1789 \iftab@
     1790 %%...
     1791 \fi
     1796 \ifalg@
     1797 \RequirePackage[ruled,vlined]{algorithm2e}
     1798 \setlength{\algomargin}{1.25em}
     1799 \DontPrintSemicolon
     1800 \setminus SetInd\{0.25em\}\{0.5em\}
\Signature ...
     1801 \SetKw{Signature}{signature}
\Macro, ... ...
     1802 \SetKwFor{Macro}{macro}{}}
     1803 \SetKwFor{Function}{function}{}}
     1804 \SetKwFor{Procedure}{procedure}{}{}
```

```
\Let ...
           1805 \SetKwFor{Let}{let}{in}{}
\True, \False ...
           1806 \SetKw{True}{true}
           1807 \SetKw{False}{false}
  \GoTo, ... ...
           1808 \SetKw{GoTo}{goto}
           1809 \SetKw{Break}{break}
           1810 \SetKw{Continue}{continue}
  \MIf, ... ...
           \nlr ...
           1812 \DeclareRobustCommand{\nlr}[1]
               {\addtocounter{AlgoLine}{1}%
               \nlset{\arabic{AlgoLine}-\addtocounter{AlgoLine}{#1}\arabic{AlgoLine}}}
           1815 \fi
           1817 \endinput
           1818 \langle /package \rangle
```

2 Change History

v0.0	extensions
General: First public release 1	v0.5
v0.1	General: Figure tricks
General: Algorithm tricks 1	
v0.2	v0.6
General: Changes in auxiliary tricks $\dots 1$	General: Small refinements 1
v0.3	
General: Few problems solved $\dots \dots 1$	v0.7
v0.4	General: Refinements, corrections, and
General: Refactoring, corrections, and	extensions

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1378, 1380, 1403, 1405, 1407, 1414, 1416, 1418,	$\label{eq:dual_loss} $$\operatorname{DWA}_{,\sqcup} \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \frac{790}{1694}$$$	1633, 1635, 1641, 1643,
1378, 1380, 1403, 1405, 1407, 1414, 1416, 1418, 1425, 1427, 1429, 1440, 1442, 1444, 1451, 1453, 1455, 1462, 1464, 1466,	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	1633, 1635, 1641, 1643, 1650, 1652, 1658, 1660, 1667, 1669, 1675, 1677
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1378, 1380, 1403, 1405, 1407, 1414, 1416, 1418, 1425, 1427, 1429, 1440, 1442, 1444, 1451, 1453, 1455, 1462, 1464, 1466, 1469, 1471, 1530, 1532, 1535, 1538, 1540, 1547,	\dual, \adj, \ldots \frac{790}{1694} E \E, \alpha \frac{1}{432} \EAGSL \frac{1598}{1598} \Easy, \alpha \Hard, \ldots \frac{984}{1598}	1633, 1635, 1641, 1643, 1650, 1652, 1658, 1660, 1667, 1669, 1675, 1677 \entfun 1080, 1081 \entFun, ⊔\escFun
1378, 1380, 1403, 1405, 1407, 1414, 1416, 1418, 1425, 1427, 1429, 1440, 1442, 1444, 1451, 1453, 1455, 1462, 1464, 1466, 1469, 1471, 1530, 1532, 1535, 1538, 1540, 1547, 1549, 1552, 1555, 1557,	\dual, \adj, \ldots \frac{790}{1694} \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1633, 1635, 1641, 1643, 1650, 1652, 1658, 1660, 1667, 1669, 1675, 1677 \entfum 1080, 1081 \entFun, \(\text{\subset} \) \escrumeration, \(\text{\subset} \) \end{aligned}
1378, 1380, 1403, 1405, 1407, 1414, 1416, 1418, 1425, 1427, 1429, 1440, 1442, 1444, 1451, 1453, 1455, 1462, 1464, 1466, 1469, 1471, 1530, 1532, 1535, 1538, 1540, 1547, 1549, 1552, 1555, 1557, 1564, 1566, 1569, 1572,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1633, 1635, 1641, 1643, 1650, 1652, 1658, 1660, 1667, 1669, 1675, 1677 \entfum 1080, 1081 \entFun,_\omega\escFum
1378, 1380, 1403, 1405, 1407, 1414, 1416, 1418, 1425, 1427, 1429, 1440, 1442, 1444, 1451, 1453, 1455, 1462, 1464, 1466, 1469, 1471, 1530, 1532, 1535, 1538, 1540, 1547, 1549, 1552, 1555, 1557, 1564, 1566, 1569, 1572, 1574, 1581, 1583, 1586,	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1633, 1635, 1641, 1643, 1650, 1652, 1658, 1660, 1667, 1669, 1675, 1677 \entfum
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1378, 1380, 1403, 1405, 1407, 1414, 1416, 1418, 1425, 1427, 1429, 1440, 1442, 1444, 1451, 1453, 1455, 1462, 1464, 1466, 1469, 1471, 1530, 1532, 1535, 1538, 1540, 1547, 1549, 1552, 1555, 1557, 1564, 1566, 1569, 1572, 1574, 1581, 1583, 1586, 1589, 1591, 1598, 1600, 1603, 1606, 1608, 1615, 1617, 1620, 1623, 1625,	\dual, \adj, \ldots 790 \DWA, \ldots 1694 E \E, \ldot\A 1432 \EAGSL 1598 \Easy, \ldot\Hard, \ldots 984 \EATL 1442 \EATLP 1453 \EATLS 1464 \EBF 1156 \EBGSL 1632	1633, 1635, 1641, 1643, 1650, 1652, 1658, 1660, 1667, 1669, 1675, 1677 \entfum
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1378, 1380, 1403, 1405, 1407, 1414, 1416, 1418, 1425, 1427, 1429, 1440, 1442, 1444, 1451, 1453, 1455, 1462, 1464, 1466, 1469, 1471, 1530, 1532, 1535, 1538, 1540, 1547, 1549, 1552, 1555, 1557, 1564, 1566, 1569, 1572, 1574, 1581, 1583, 1586, 1589, 1591, 1598, 1600, 1603, 1606, 1608, 1615, 1617, 1620, 1623, 1625, 1632, 1634, 1637, 1640,	Value 790 VDWA, □ 1694 E E VE, □ \A 1432 \EAGSL 1598 \Easy, □ \Hard, □ 984 \EATL 1442 \EATLP 1453 \EATLS 1464 \EBF 1156 \EBGSL 1632 \ECGSL 1564 \ECTL 1405 \ECTLP 1416	1633, 1635, 1641, 1643, 1650, 1652, 1658, 1660, 1667, 1669, 1675, 1677 \entfum
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$\begin{array}{c} 1378,\ 1380,\ 1403,\ 1405,\\ 1407,\ 1414,\ 1416,\ 1418,\\ 1425,\ 1427,\ 1429,\ 1440,\\ 1442,\ 1444,\ 1451,\ 1453,\\ 1455,\ 1462,\ 1464,\ 1466,\\ 1469,\ 1471,\ 1530,\ 1532,\\ 1535,\ 1538,\ 1540,\ 1547,\\ 1549,\ 1552,\ 1555,\ 1557,\\ 1564,\ 1566,\ 1569,\ 1572,\\ 1574,\ 1581,\ 1583,\ 1586,\\ 1589,\ 1591,\ 1598,\ 1600,\\ 1603,\ 1606,\ 1608,\ 1615,\\ 1617,\ 1620,\ 1623,\ 1625,\\ 1632,\ 1634,\ 1637,\ 1640,\\ 1642,\ 1649,\ 1651,\ 1654,\\ 1657,\ 1659,\ 1666,\ 1668,\\ 1671,\ 1674,\ 1676,\ 1812\\ \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	\dual, \adj, \ldots 790 \DWA, \ldots 1694 E E \E, \ldots \A 1432 \EAGSL 1598 \Easy, \ldot\Hard, \ldots 984 \EATL 1442 \EATLP 1453 \EATLS 1464 \EBF 1156 \EBGSL 1632 \ECGSL 1564 \ECTL 1405 \ECTLP 1416 \ECTLS 1427 \EDGSL 1581 \EEGSL 1615 \EEXs, \ldot\Aall 1469 \EFAGSL 1606	1633, 1635, 1641, 1643, 1650, 1652, 1658, 1660, 1667, 1669, 1675, 1677 \entfum 1080, 1081 \entfum, \(\)\escription \(\)\end{align* 801} \enumeration, \(\) 801 \end{align* 400} \enumeration \(\) 367 \equiv 786, 788 \ergo 710 \errata 731 \errata 731 \errata 731 \erratum 732 \erratum 732 \erratum 712 \escfum 1082, 1083 \ext{ESL} 1530 \ext{\ext{etal}} 713 \etc 714 \evn, \(\)\evn, \(\)\end{align* 600}
$\begin{array}{c} 1378,\ 1380,\ 1403,\ 1405,\\ 1407,\ 1414,\ 1416,\ 1418,\\ 1425,\ 1427,\ 1429,\ 1440,\\ 1442,\ 1444,\ 1451,\ 1453,\\ 1455,\ 1462,\ 1464,\ 1466,\\ 1469,\ 1471,\ 1530,\ 1532,\\ 1535,\ 1538,\ 1540,\ 1547,\\ 1549,\ 1552,\ 1555,\ 1557,\\ 1564,\ 1566,\ 1569,\ 1572,\\ 1574,\ 1581,\ 1583,\ 1586,\\ 1589,\ 1591,\ 1598,\ 1600,\\ 1603,\ 1606,\ 1608,\ 1615,\\ 1617,\ 1620,\ 1623,\ 1625,\\ 1632,\ 1634,\ 1637,\ 1640,\\ 1642,\ 1649,\ 1651,\ 1654,\\ 1657,\ 1659,\ 1666,\ 1668,\\ 1671,\ 1674,\ 1676,\ 1812\\ \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	\dual, \adj, \ldots 790 \DWA, \ldots 1694 E E \E, \ldots A 1432 \EAGSL 1598 \Easy, \ldot\Hard, \ldots 984 \EATL 1442 \EATLP 1453 \EATLS 1464 \EBF 1156 \EBGSL 1632 \ECGSL 1564 \ECTL 1405 \ECTLP 1416 \ECTLS 1427 \EDGSL 1581 \EEGSL 1615 \EExs, \ldot\Aall 1469 \EFAGSL 1640	1633, 1635, 1641, 1643, 1650, 1652, 1658, 1660, 1667, 1669, 1675, 1677 \entfum
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1378, 1380, 1403, 1405, 1407, 1414, 1416, 1418, 1425, 1427, 1429, 1440, 1442, 1444, 1451, 1453, 1455, 1462, 1464, 1466, 1469, 1471, 1530, 1532, 1535, 1538, 1540, 1547, 1549, 1552, 1555, 1557, 1564, 1566, 1569, 1572, 1574, 1581, 1583, 1586, 1589, 1591, 1598, 1600, 1603, 1606, 1608, 1615, 1617, 1620, 1623, 1625, 1632, 1634, 1637, 1640, 1642, 1649, 1651, 1654, 1657, 1659, 1666, 1668, 1671, 1674, 1676, 1812 \DeclareRobustCommandx \tag{1544, 1561, 1578, 1595,} 1612, 1629, 1646, 1663 \decset \tag{1625, 1500, 1501} \DecSet, \tag{1499} \decsym \tag{1501} \tag{1499} \decsym \tag{1501} \Dedicto \tag{705}	dual, \adj, \ldots 790 \DWA, \ldots 1694 E \E, \ldot\A 1432 \EAGSL 1598 \Easy, \ldot\Hard, \ldots 984 \EATL 1442 \EATLP 1453 \EATLS 1464 \EBF 1156 \EBGSL 1632 \ECGSL 1564 \ECTL 1405 \ECTL 1405 \ECTLS 1427 \EDGSL 1581 \EEGSL 1615 \EEXS, \ldot\AA11 1469 \EFAGSL 1606 \EFBGSL 1640 \EFCGSL 1572 \EFDGSL 1589 \EFGSL 1657 \EFOGSL 1555 \EFSL 1538	1633, 1635, 1641, 1643, 1650, 1652, 1658, 1660, 1667, 1669, 1675, 1677 \entfum
1378, 1380, 1403, 1405, 1407, 1414, 1416, 1418, 1425, 1427, 1429, 1440, 1442, 1444, 1451, 1453, 1455, 1462, 1464, 1466, 1469, 1471, 1530, 1532, 1535, 1538, 1540, 1547, 1549, 1552, 1555, 1557, 1564, 1566, 1569, 1572, 1574, 1581, 1583, 1586, 1589, 1591, 1598, 1600, 1603, 1606, 1608, 1615, 1617, 1620, 1623, 1625, 1632, 1634, 1637, 1640, 1642, 1649, 1651, 1654, 1657, 1659, 1666, 1668, 1671, 1674, 1676, 1812 \DeclareRobustCommandx \[1544, 1561, 1578, 1595,	dual, □\adj, □ 790 DWA, □ 1694 E E \E, □\A 1432 \EAGSL 1598 \Easy, □\Hard, □ 984 \EATL 1442 \EATLP 1453 \EATLS 1464 \EBF 1156 \EBGSL 1632 \ECGSL 1564 \ECTL 1405 \ECTLP 1416 \ECTLS 1427 \EDGSL 1581 \EEGSL 1615 \EFGSL 1606 \EFBGSL 1640 \EFCGSL 1572 \EFDGSL 1589 \EFCGSL 1623 \EFNGSL 1657 \EFOGSL 1555	1633, 1635, 1641, 1643, 1650, 1652, 1658, 1660, 1667, 1669, 1675, 1677 \entfum
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1616, 1624, 1633, 1641, 1650, 1658, 1667, 1675	\gfp	\labSym
\expandafter	н	\lallsym 1173, 1174
248, 250, 253, 258, 262		\Lambda
\ExpSpace,		\lambda 1341
\ExpTime, \ \ \ \ \ \ \ \.	\hstset	\land
\Exs, _□ \All <u>1327</u>	1505, 1506, 1507, 1509,	\LangFun
F	\HstSet, 1506, 1507, 1509	\langfun 1728, 1729 \langle 809,
\FAGSL 1603, 1607, 1609	\hstsym	810, 812, 813, 1328, 1470
\FBGSL 1637, 1641, 1643	1054, 1056, 1058, 1060,	\LaTex 631, 635
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\possym	\resp <u>750</u>	\SetZ, _□ 886
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\textstyle 632	\UFAGSL 1608	434, 438, 440, 442, 444,
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\tikzstyle 1770,	\UFOGSL	\valset 1199, 1200
1772, 1774, 1776, 1778	\UFSL 1540	\ValSet,
\Time,	\UFXGSL 1676	\valsym 1198, 1200
\TL, _□ \PL, _□ <u>1297</u>	\ULTL 1380	\varcmd . 247 , 801 , 802 , 803 ,
\top 1163	\UMC 1356	804, 805, 806, 807, 808,
\treeset 1751, 1752	\UML 1321	809, 810, 811, 812, 813, 814
\TreeSet, <u>1750</u>	\UNGSL	\varepsilon 955
\treesym 1750, 1752	\UOGSL 1549	\varnothing 830, 849
\triangleq 764	\upharpoonright 844	\varset 1215, 1216
\trn 796	\upshape	\varsig 1212, 1213
\trnFun	\UPTL 1369	\VarSig,
\trnsym 1725, 1726	\usetikzlibrary 1769	\varsym 1214, 1216
\True, \ \False \ <u>1806</u>	\USL 1532	\vec
\Tt,_\Ff <u>1163</u>	\usrmth 397,	\vert 817, 819
\ttsym 1163, 1164	$401, 403, 405, 407, \overline{409},$	\Viceversa
\tuple, 809 \txt 316	411, 413, 415, 417, 482,	\viceversa 719 \viz 721
\txtabr, 435	484, 486, 488, 490, 495,	\viz
\txtarg 318	497, 499, 501, 503, 508,	(VS
\txtcom 980, 982	510, 512, 514, 516, 521,	\mathbf{W}
\txtcom, 460	523, 525, 527, 529, 534,	\WAutSet
\txtdef, 423	536, 538, 540, 542, 547,	\wautset 1713, 1714
\txtgen@false 53, 56	549, 551, 553, 555, 566,	\wghset 1139, 1140
\txtgen@true	568, 570, 572, 574, 579,	\WghSet, \\wghFun 1138
54, 67, 78, 84, 89, 94	581, 583, 585, 587, 592,	\wghsym 1138, 1140
\txtname	594, 596, 598, 600, 605,	\widehat 795
	607, 609, 611, 613, 634,	\widetilde 797
1155, 1210, 1287, 1302,		\widetiide 191
1155, 1210, 1287, 1302, 1309, 1318, 1353, 1366,	638, 644, 646, 648, 650,	\WinSet
	638, 644, 646, 648, 650, 652, 657, 659, 661, 663,	
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$\begin{array}{c} 1309,\ 1318,\ 1353,\ 1366,\\ 1377,\ 1404,\ 1415,\ 1426,\\ 1441,\ 1452,\ 1463,\ 1536,\\ 1553,\ 1570,\ 1587,\ 1604,\\ 1621,\ 1638,\ 1655,\ 1672\\ \verb+\txtname,_{\perp} \ $	638, 644, 646, 648, 650, 652, 657, 659, 661, 663, 665, 671, 673, 675, 677, 679, 684, 686, 688, 690, 692, 1164, 1166, 1168, 1170, 1172, 1174, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1188, 1189, 1190, 1217, 1218, 1224,	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
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