

fmocdmac — FM's OCD L^AT_EX Macro*

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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 `\package`

Required external packages:

```
2
3 \RequirePackage{etoolbox}
4
5 \RequirePackage{xargs}
6 \RequirePackage{xspace}
7 \RequirePackage{stringstrings}
8
```

Package options:

```
9
10 %% Auxiliary packages
11 \newif\ifaux@ \aux@false
12 \DeclareOption{aux}{\aux@true}
13 \DeclareOption{noaux}{\aux@false}
14
15 %% AMS defaults
16 \newif\ifamsdef@ \amsdef@true
17 \DeclareOption{noamsdef}{\amsdef@false}
18
19 %% AMS theorem tools
20 \newif\ifamsthm@ \amsthm@true
21 \DeclareOption{noamsthm}{\amsthm@false}
22
23 %% Extended Theorem tools
24 \newif\ifthmtls@ \thmtls@true
25 \DeclareOption{nothmtls}{\thmtls@false}
26
27 %% Enumeration tools
28 \newif\ifenmtls@ \enmtls@true
29 \DeclareOption{noenmtls}{\enmtls@false}
30
31 %% Hyper reference
32 \newif\ifhympref@ \hympref@true
33 \DeclareOption{nohympref}{\hympref@false}
34
```

*This document describes version v0.15 of the fmocdmac package, last revised 2023/02/14.

```

35 %% Font tools
36 \newif\iffnttts@ \fnttts@true
37 \DeclareOption{nofnttts}{\fnttts@false}
38
39 %% Camera-ready version
40 \newif\ifcrv@ \crv@false
41 \DeclareOption{crv}{\crv@true}
42
43 %% Change bars
44 \newif\ifchgbar@ \chgbar@false
45 \DeclareOption{chgbar}{\chgbar@true}
46
47 %% Line numbers
48 \newif\iflinnum@ \linnum@false
49 \DeclareOption{linnum}{\linnum@true}
50
51
52 %% Text macro generation
53 \newif\iftxtgen@ \txtgen@false
54 \DeclareOption{txtgen}{\txtgen@true}
55 \DeclareOption{notxtgen}
56   {\txtgen@false\text@false\com@false\gam@false\log@false\aut@false}
57
58 %% Math macro generation
59 \newif\ifmthgen@ \mthgen@false
60 \DeclareOption{mthgen}{\mthgen@true}
61 \DeclareOption{nomthgen}
62   {\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}
69
70 %% Elementary macros for math
71 \newif\ifmath@ \math@false
72 \DeclareOption{math}{\math@true\mthgen@true}
73 \DeclareOption{nomath}{\math@false}
74
75
76 %% Macros for computational-complexity classes
77 \newif\ifcom@ \com@false
78 \DeclareOption{com}{\com@true\txtgen@true}
79 \DeclareOption{nocom}{\com@false}
80
81
82 %% Macros for games
83 \newif\ifgam@ \gam@false
84 \DeclareOption{gam}{\gam@true\txtgen@true\mthgen@true}
85 \DeclareOption{nogam}{\gam@false}
86
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 \DeclareOption{aut}{\aut@true\txtgen@true\mthgen@true}
95 \DeclareOption{noaut}{\aut@false}
96
97

```

```

98 %% Format-related tricks
99 \newif\iffm@ \frm@false
100 \DeclareOption{frm}{\frm@true}
101 \DeclareOption{nofrm}{\frm@false}
102
103
104 %% Figure-related tricks
105 \newif\iffig@ \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 \DeclareOption*{\PackageWarning{fmocdmac}{Unknown~'\CurrentOption'}}%
127
128 \ExecuteOptions{aux,txtgen,mthgen,text,math,com,gam,log,aut}%
129
130 \ProcessOptions\relax%
131
132 \ifcsdef{if@twocolumn}{\newif\if@twocolumn}
133

```

Package main body:

```

134
135 %*****%
136 %** Auxiliary Alphabet Letters *****%
137 %*****%

```

`\omicron` **Auxiliary Greek lowercase letter: ... to do!**

```
138 \csdef{omicron}{o}
```

`\Alpha`, ... **Auxiliary Greek uppercase letters: ... to do!**

```

139 \csdef{Alpha}{A} \csdef{Beta}{B} \csdef{Epsilon}{E} \csdef{varEpsilon}{E}
140 \csdef{Zeta}{Z} \csdef{Eta}{H} \csdef{Iota}{I} \csdef{Kappa}{K}
141 \csdef{varKappa}{K} \csdef{Mu}{M} \csdef{Nu}{N} \csdef{Omicron}{O}
142 \csdef{Rho}{P} \csdef{varRho}{P} \csdef{Tau}{T} \csdef{Chi}{X}

```

```

143 %*****%
144 %*****%
145 %** Tools *****%
146 %*****%

```

`\empchk` **Emptiness check:** `\empchk{⟨A⟩}{⟨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”

```

147 \newcommand{\empchk}[2]
148   {\if&#1&\else#2\fi}

\defval Default value: \defval{<A>}{<B>} evaluates to Argument <B>, if Argument <A> is empty, and to
Argument <A> itself, otherwise.
    • \defval{}{B} = “B”
    • \defval{A}{B} = “A”
149 \newcommand{\defval}[2]
150   {\if&#1&#2\else#1\fi}

151 %%*****%

\arglef Left extension: \arglef{<A>}{<B>} evaluates to the concatenation <AB> of the two arguments, if
Argument <B> is non-empty, and to the empty string, otherwise.
    • \arglef{A}{} = “”
    • \arglef{A}{B} = “AB”
152 \newcommand{\arglef}[2]
153   {\empchk{#2}{#1#2}}

\argrig Right extension: \argrig{<A>}{<B>} evaluates to the concatenation <AB> of the two arguments,
if Argument <A> is non-empty, and to the empty string, otherwise.
    • \argrig{}{B} = “”
    • \argrig{A}{B} = “AB”
154 \newcommand{\argrig}[2]
155   {\empchk{#1}{#1#2}}

\argmid Middle extension: \argmid{<A>}{<B>}{<C>} evaluates to the concatenation <ABC> of the three
arguments, if Argument <B> is non-empty, and to the empty string, otherwise.
    • \argmid{A}{}{C} = “”
    • \argmid{A}{B}{C} = “ABC”
156 \newcommand{\argmid}[3]
157   {\empchk{#2}{#1#2#3}}

\argsep Separators: \argsep{<A>}{<B>}{<C>} evaluates to Argument <C>, if Argument <A> is empty, to
Argument <A>, if Argument <C> is empty, and to the concatenation <ABC>, otherwise.
    • \argsep{}{B}{C} = “C”
    • \argsep{A}{B}{} = “A”
    • \argsep{A}{}{C} = “AC”
    • \argsep{A}{B}{C} = “ABC”
158 \newcommand{\argsep}[3]
159   {\if&#1&#3\else#1\arglef{#2}{#3}\fi}

160 %%*****%

\varcmd Variadic commands: \varcmd{<A>}{<B>}{<C>}{<D>}{<E>}{<F>} ... to do!
161 \newcommand{\varcmd}[6]
162   {\expandafter\newcommand\csname gobble#1arg\endcsname[2]
163     {\csname check#1arg\endcsname{\argsep{##1}{#4}{\empchk{##2}{#{##2}}}}}
164   \expandafter\newcommand\csname check#1arg\endcsname[1]
165     {\csname @ifnextchar\endcsname%
166       \bgroup{\csname gobble#1arg\endcsname{##1}{#2{##1#5}#6}}%
167   \expandafter\newcommand\csname#1\endcsname[1]
168     {\csname check#1arg\endcsname{#3##1}}
169 %%*****%

```

```

\seqoftag Sequence of tags: \seqoftag{⟨A⟩}{⟨B⟩}{⟨C⟩} ... to do!
170 \newcommand{\seqoftag}[3]
171   {\@for\itr:={#1}\do%
172     {\expandafter\csedef{\itr#2}%
173       {\noexpand\csname #3\endcsname{\itr}}}}

\seqofcmd Sequence of commands: \seqofcmd{⟨A⟩}{⟨B⟩}{⟨C⟩} ... to do!
174 \newcommand{\seqofcmd}[3]
175   {\@for\itr:={#1}\do%
176     {\expandafter\csedef{\itr#2}%
177       {\noexpand\csname #3\endcsname{\csname \itr\endcsname}}}}

178 %%*****%

\seqoflatlow Sequence of Latin lowercase letters: \seqoflatlow{⟨A⟩}{⟨B⟩} ... to do!
179 \newcommand{\seqoflatlow}
180   {\seqoftag{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}}

\seqoflatupp Sequence of Latin uppercase letters: \seqoflatupp{⟨A⟩}{⟨B⟩} ... to do!
181 \newcommand{\seqoflatupp}
182   {\seqoftag{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}}

\seqoflatlet Sequence of Latin letters: \seqoflatlet{⟨A⟩}{⟨B⟩} ... to do!
183 \newcommand{\seqoflatlet}[2]
184   {\seqoflatlow{#1}{#2}\seqoflatupp{#1}{#2}}

185 %%*****%

\seqofgrklow Sequence of Greek lowercase letters: \seqofgrklow{⟨A⟩}{⟨B⟩} ... to do!
186 \newcommand{\seqofgrklow}
187   {\seqofcmd{alpha,beta,gamma,delta,epsilon,varepsilon,zeta,eta,theta,vartheta,%
188     iota,kappa,varkappa,lambda,mu,nu,xi,omicron,pi,varpi,rho,varrho,sigma,%
189     varsigma,tau,upsilon,phi,varphi,chi,psi,omega}}

\seqofgrkupp Sequence of Greek uppercase letters: \seqofgrkupp{⟨A⟩}{⟨B⟩} ... to do!
190 \newcommand{\seqofgrkupp}
191   {\seqofcmd{Alpha,Beta,Gamma,Delta,Epsilon,varEpsilon,Zeta,Eta,Theta,varTheta,%
192     Iota,Kappa,varKappa,Lambda,Mu,Nu,Xi,Omicron,Pi,varPi,Rho,varRho,Sigma,%
193     varSigma,Tau,Upsilon,Phi,varPhi,Chi,Psi,Omega}}

\seqofgrklet Sequence of Greek letters: \seqofgrklet{⟨A⟩}{⟨B⟩} ... to do!
194 \newcommand{\seqofgrklet}[2]
195   {\seqofgrklow{#1}{#2}\seqofgrkupp{#1}{#2}}

196 %%*****%

\seqoflow Sequence of lowercase letters: \seqoflow{⟨A⟩}{⟨B⟩} ... to do!
197 \newcommand{\seqoflow}[2]
198   {\seqoflatlow{#1}{#2}\seqofgrklow{#1}{#2}}

\seqofupp Sequence of uppercase letters: \seqofupp{⟨A⟩}{⟨B⟩} ... to do!
199 \newcommand{\seqofupp}[2]
200   {\seqoflatupp{#1}{#2}\seqofgrkupp{#1}{#2}}

\seqoflet Sequence of all letters: \seqoflet{⟨A⟩}{⟨B⟩} ... to do!
201 \newcommand{\seqoflet}[2]
202   {\seqoflow{#1}{#2}\seqofupp{#1}{#2}}

203 %%*****%

```

```

204 %*****%
205 %** Auxiliary Packages *****%
206 %*****%
207 \ifaux@
208
209 \ifamsdef@
210 % AMS Packages
211 \RequirePackage{amsmath}
212 \RequirePackage{amssymb}
213 \RequirePackage{stmaryrd}
214 \interdisplaylinepenalty=2500
215 \fi
216
217 \ifamsthm@
218 % AMS Theorem Tools
219 \RequirePackage{amsthm}
220 \fi
221
222 \ifthmtls@
223 % Extended Theorem Tools
224 \RequirePackage{thmtools, thm-restate}
225 \fi
226
227 \ifenmtls@
228 % Enumeration Tools
229 \RequirePackage{paralist}
230 \fi
231
232 \ifhympref@
233 % Hyper References
234 \RequirePackage{hyperref}
235 \hypersetup {
236     pdfsubject    = {},
237     pdfkeywords   = {},
238     pdfproducer   = {},
239     pdfcreator    = {},
240     pdfpagemode   = {UseNone},
241     pdfstartview  = {FitH},
242     urlcolor      = {blue},
243     colorlinks
244 }
245 \fi
246
247 \iffnttts@
248 % Font Tools
249 \RequirePackage[final]{microtype}
250 \fi
251
252 \ifcrv@
253 % Camera-Ready Version
254
255 %...
256
257 \else
258 % Draft Version
259
260 %...
261
262 \ifchgbar@
263 % Change Bars
264 \RequirePackage{changebar}
265 \fi
266

```

```

267 \iflinnu@
268 % Line Numbers
269 \if@twocolumn
270 \RequirePackage[switch, columnwise, mathlines]{lineno}\linenumbers
271 \else
272 \RequirePackage[columnwise, mathlines]{lineno}\linenumbers
273 \fi
274 \fi
275
276 %...
277
278 \fi
279
280 \fi
281 %*****%
282 %*****%
283 %** Auxiliary Font Declarations *****%
284 %*****%

```

\mathbbo Bbo Math Font: ... to do!

```
285 \ifdef{\mathbbo}{\DeclareMathAlphabet{\mathbbo}{U}{bbold}{m}{n}}
```

\matheus Eus Math Font: ... to do!

```
286 \ifdef{\matheus}{\DeclareMathAlphabet{\matheus}{U}{eus}{m}{n}}
```

\mathpzc Pzc Math Font: ... to do!

```
287 \ifdef{\mathpzc}{\DeclareMathAlphabet{\mathpzc}{T1}{pzc}{m}{it}}
```

\mathscr Scr Math Font: ... to do!

```
288 \ifdef{\mathscr}{\DeclareMathAlphabet{\mathscr}{U}{rsfs}{m}{n}}
```

```

289 %*****%
290 %*****%
291 %** Text Meta Commands *****%
292 %*****%

```

\newtxt ... to do!

- `\newtxt[\rmfamily]{Name}[sub][sup][Ext] = "NamesubsupExt"`
- `\newtxt[\sffamily]{Name}[sub][sup][Ext] = "NamesubsupExt"`
- `\newtxt[\ttfamily]{Name}[sub][sup][Ext] = "NamesubsupExt"`

```

293 \newcommandx{\newtxt}[5][1=, 3=, 4=, 5=]
294 {\text{#1#2\textsubsup{#1}{#3}{#4}{#5}\xspace}}

```

\newtxtsty ... to do!

- `\newtxtsty{\rmfamily}{Name}[sub][sup][Ext] = "NamesubsupExt"`
- `\newtxtsty{\rmfamily}[\sffamily]{Name}[sub][sup][Ext] = "NamesubsupExt"`
- `\newtxtsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Ext] = "NamesubsupExt"`

```

295 \newcommandx{\newtxtsty}[2][2=]
296 {\newtxt[\defval{#2}{#1}]}

```

\newxtarg ... to do!

- `\newxtarg[\rmfamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "NamesubsupExt1(Arg)Ext2"`
- `\newxtarg[\sffamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "NamesubsupExt1(Arg)Ext2"`
- `\newxtarg[\ttfamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "NamesubsupExt1(Arg)Ext2"`

```

297 \newcommandx{\newxtarg}[7][1=, 3=, 4=, 5=, 7=]
298 {\newtxt{#1}{#2}{#3}{#4}[\argmid{#5}{#6}{#7}]}

```

\newxtargsty ... to do!

- `\newxtargsty{\rmfamily}{Name}[sub][sup][Ext1]{Arg}[Ext2] = "NamesubsupExt1(Arg)Ext2"`

- $\newtxxargsty{\rmfamily}\{\textsf{family}\}\{\text{Name}\}_{\text{sub}}^{\text{sup}}[\text{Ext1}]\{\text{Arg}\}[\text{Ext2}] = \text{Name}_{\text{sub}}^{\text{sup}}\text{Ext1}(\text{Arg})\text{Ext2}$
- $\newtxxargsty{\rmfamily}\{\ttfamily}\{\text{Name}\}_{\text{sub}}^{\text{sup}}[\text{Ext1}]\{\text{Arg}\}[\text{Ext2}] = \text{Name}_{\text{sub}}^{\text{sup}}\text{Ext1}(\text{Arg})\text{Ext2}$

```

299 \newcommandx{\newtxxargsty}[2][2=]
300   {\newtxxarg[\defval{#2}{#1}]}

```

\newtxxtoarg ... to do!

- $\newtxxtoarg[\rmfamily]\{\text{Name}\}_{\text{sub}}^{\text{sup}}[\text{Arg}] = \text{Name}_{\text{sub}}^{\text{sup}}(\text{Arg})$
- $\newtxxtoarg[\textsf{family}]\{\text{Name}\}_{\text{sub}}^{\text{sup}}[\text{Arg}] = \text{Name}_{\text{sub}}^{\text{sup}}(\text{Arg})$
- $\newtxxtoarg[\ttfamily]\{\text{Name}\}_{\text{sub}}^{\text{sup}}[\text{Arg}] = \text{Name}_{\text{sub}}^{\text{sup}}(\text{Arg})$

```

301 \newcommandx{\newtxxtoarg}[5][1=, 3=, 4=, 5=]
302   {\newtxxarg[#1]{#2}[#3][#4][#5]}

```

\newtxxtoargsty ... to do!

- $\newtxxtoargsty{\rmfamily}\{\text{Name}\}_{\text{sub}}^{\text{sup}}[\text{Arg}] = \text{Name}_{\text{sub}}^{\text{sup}}(\text{Arg})$
- $\newtxxtoargsty{\rmfamily}\{\textsf{family}\}\{\text{Name}\}_{\text{sub}}^{\text{sup}}[\text{Arg}] = \text{Name}_{\text{sub}}^{\text{sup}}(\text{Arg})$
- $\newtxxtoargsty{\rmfamily}\{\ttfamily}\{\text{Name}\}_{\text{sub}}^{\text{sup}}[\text{Arg}] = \text{Name}_{\text{sub}}^{\text{sup}}(\text{Arg})$

```

303 \newcommandx{\newtxxtoargsty}[2][2=]
304   {\newtxxtoarg[\defval{#2}{#1}]}

```

\newtxxtpar ... to do!

- $\newtxxtpar[\rmfamily]\{\text{Name}\}_{\text{sub}}^{\text{sup}}[\text{Ext1}]\{\text{Par}\}[\text{Ext2}] = \text{Name}_{\text{sub}}^{\text{sup}}\text{Ext1}[\text{Par}]\text{Ext2}$
- $\newtxxtpar[\textsf{family}]\{\text{Name}\}_{\text{sub}}^{\text{sup}}[\text{Ext1}]\{\text{Par}\}[\text{Ext2}] = \text{Name}_{\text{sub}}^{\text{sup}}\text{Ext1}[\text{Par}]\text{Ext2}$
- $\newtxxtpar[\ttfamily]\{\text{Name}\}_{\text{sub}}^{\text{sup}}[\text{Ext1}]\{\text{Par}\}[\text{Ext2}] = \text{Name}_{\text{sub}}^{\text{sup}}\text{Ext1}[\text{Par}]\text{Ext2}$

```

305 \newcommandx{\newtxxtpar}[7][1=, 3=, 4=, 5=, 7=]
306   {\newtxxtpar[#1]{#2}[#3][#4][\argmid{#5}{#6}{#7}]}

```

\newtxxtparsty ... to do!

- $\newtxxtparsty{\rmfamily}\{\text{Name}\}_{\text{sub}}^{\text{sup}}[\text{Ext1}]\{\text{Par}\}[\text{Ext2}] = \text{Name}_{\text{sub}}^{\text{sup}}\text{Ext1}[\text{Par}]\text{Ext2}$
- $\newtxxtparsty{\rmfamily}\{\textsf{family}\}\{\text{Name}\}_{\text{sub}}^{\text{sup}}[\text{Ext1}]\{\text{Par}\}[\text{Ext2}] = \text{Name}_{\text{sub}}^{\text{sup}}\text{Ext1}[\text{Par}]\text{Ext2}$
- $\newtxxtparsty{\rmfamily}\{\ttfamily}\{\text{Name}\}_{\text{sub}}^{\text{sup}}[\text{Ext1}]\{\text{Par}\}[\text{Ext2}] = \text{Name}_{\text{sub}}^{\text{sup}}\text{Ext1}[\text{Par}]\text{Ext2}$

```

307 \newcommandx{\newtxxtparsty}[2][2=]
308   {\newtxxtpar[\defval{#2}{#1}]}

```

\newtxxtopar ... to do!

- $\newtxxtopar[\rmfamily]\{\text{Name}\}_{\text{sub}}^{\text{sup}}[\text{Par}] = \text{Name}_{\text{sub}}^{\text{sup}}[\text{Par}]$
- $\newtxxtopar[\textsf{family}]\{\text{Name}\}_{\text{sub}}^{\text{sup}}[\text{Par}] = \text{Name}_{\text{sub}}^{\text{sup}}[\text{Par}]$
- $\newtxxtopar[\ttfamily]\{\text{Name}\}_{\text{sub}}^{\text{sup}}[\text{Par}] = \text{Name}_{\text{sub}}^{\text{sup}}[\text{Par}]$

```

309 \newcommandx{\newtxxtopar}[5][1=, 3=, 4=, 5=]
310   {\newtxxtpar[#1]{#2}[#3][#4][#5]}

```

\newtxxtoparsty ... to do!

- $\newtxxtoparsty{\rmfamily}\{\text{Name}\}_{\text{sub}}^{\text{sup}}[\text{Par}] = \text{Name}_{\text{sub}}^{\text{sup}}[\text{Par}]$
- $\newtxxtoparsty{\rmfamily}\{\textsf{family}\}\{\text{Name}\}_{\text{sub}}^{\text{sup}}[\text{Par}] = \text{Name}_{\text{sub}}^{\text{sup}}[\text{Par}]$
- $\newtxxtoparsty{\rmfamily}\{\ttfamily}\{\text{Name}\}_{\text{sub}}^{\text{sup}}[\text{Par}] = \text{Name}_{\text{sub}}^{\text{sup}}[\text{Par}]$

```

311 \newcommandx{\newtxxtoparsty}[2][2=]
312   {\newtxxtopar[\defval{#2}{#1}]}

```

\txxsubsup ... to do!

- $\txxsubsup_{\text{sub}}\{\text{sub}\} = \text{sub}$; $\txxsubsup_{\text{sup}}\{\text{sup}\} = \text{sup}$; $\txxsubsup_{\text{sub}}\{\text{sub}\}\{\text{sup}\} = \text{sub}^{\text{sup}}$
- $\txxsubsup_{\text{sub}}\{\textsf{family}\}\{\text{Aa}\}\{\text{Bb}\} = \text{Aa}^{\text{Bb}}$
- $\txxsubsup_{\text{sub}}\{\ttfamily}\{\text{Aa}\}\{\text{Bb}\} = \text{Aa}^{\text{Bb}}$

```

313 \newcommand{\txxsubsup}[3]{}
314   {\ensuremath{\empchk{#2}{\text{#1#2}}}\empchk{#3}{\text{#1#3}}}}

```

```

315 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

```



```

\txt ... to do!
    • \txt{Name}[sub][sup][Ext] = "NamesubExt"
    • \txt{\scshape}{Name}[sub][sup][Ext] = "NAMESUBEXT"
    • \txt{\bfseries}{Name}[sub][sup][Ext] = "NamesubExt"
316 \newcommand{\txt}
317 {\newtxtsty{\txtsty}}

\txtgarg ... to do!
    • \txtgarg{Name}[sub][sup][Ext1]{Arg}[Ext2] = "NamesubExt1(Arg)Ext2"
    • \txtgarg{\scshape}{Name}[sub][sup][Ext1]{Arg}[Ext2] = "NAMESUBEXT1(ARG)EXT2"
    • \txtgarg{\bfseries}{Name}[sub][sup][Ext1]{Arg}[Ext2] = "NamesubExt1(Arg)Ext2"
318 \newcommand{\txtgarg}
319 {\newtxtgargsty{\txtsty}}

\txtoarg ... to do!
    • \txtoarg{Name}[sub][sup][Arg] = "Namesub(Arg)"
    • \txtoarg{\scshape}{Name}[sub][sup][Arg] = "NAMESUB(ARG)"
    • \txtoarg{\bfseries}{Name}[sub][sup][Arg] = "Namesub(Arg)"
320 \newcommand{\txtoarg}
321 {\newtxtoargsty{\txtsty}}

\txtpar ... to do!
    • \txtpar{Name}[sub][sup][Ext1]{Par}[Ext2] = "NamesubExt1[Par]Ext2"
    • \txtpar{\scshape}{Name}[sub][sup][Ext1]{Par}[Ext2] = "NAMESUBEXT1[PAR]EXT2"
    • \txtpar{\bfseries}{Name}[sub][sup][Ext1]{Par}[Ext2] = "NamesubExt1[Par]Ext2"
322 \newcommand{\txtpar}
323 {\newtxtparsty{\txtsty}}

\txtopar ... to do!
    • \txtopar{Name}[sub][sup][Par] = "Namesub[Par]"
    • \txtopar{\scshape}{Name}[sub][sup][Par] = "NAMESUB[PAR]"
    • \txtopar{\bfseries}{Name}[sub][sup][Par] = "Namesub[Par]"
324 \newcommand{\txtopar}
325 {\newtxtoparsty{\txtsty}}

\txtsty ... to do!
326 \newcommand{\txtsty}
327 {\mdseries\upshape\rmfamily}

328 %*****%

\cmdtxt ... to do!
    • \cmdtxt{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
    \txtNewCmd{Name}[sub][sup][Ext] = NAMESUBEXT
329 \newcommand{\cmdtxt}[1]
330 {\csdef{txt#1}{\newtxtsty{\csname txtsty#1\endcsname}}}

\cmdtxtgarg ... to do!
    • \cmdtxtgarg{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
    \txtgargNewCmd{Name}[sub][sup][Ext1]{Arg}[Ext2] = NAMESUBEXT1(ARG)EXT2
331 \newcommand{\cmdtxtgarg}[1]
332 {\csdef{txtgarg#1}{\newtxtgargsty{\csname txtsty#1\endcsname}}}

\cmdtxtoarg ... to do!
    • \cmdtxtoarg{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
    \txtoargNewCmd{Name}[sub][sup][Arg] = NAMESUB(ARG)

```

```

333 \newcommand{\cmdtxtoarg}[1]
334 {\csdef{txtoarg#1}{\newtxtoargsty{\csname txtsty#1\endcsname}}}

\cmdtxtpar ... to do!


- \cmdtxtpar{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
  \txtparNewCmd{Name}[sub][sup][Ext1]{Par}[Ext2] = NAMESUBEXT1[PAR]EXT2


335 \newcommand{\cmdtxtpar}[1]
336 {\csdef{txtpar#1}{\newtxtparsty{\csname txtsty#1\endcsname}}}

\cmdtxtopar ... to do!


- \cmdtxtopar{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
  \txtoparNewCmd{Name}[sub][sup][Par] = NAMESUB[PAR]


337 \newcommand{\cmdtxtopar}[1]
338 {\csdef{txtopar#1}{\newtxtoparsty{\csname txtsty#1\endcsname}}}

\cmdtxtall ... to do!


- \cmdtxtall{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
  \txtNewCmd{Name}[sub][sup][Ext] = NAMESUBEXT
  \txtargNewCmd{Name}[sub][sup][Ext1]{Arg}[Ext2] = NAMESUBEXT1(ARG)EXT2
  \txtoargNewCmd{Name}[sub][sup][Arg] = NAMESUB(ARG)
  \txtparNewCmd{Name}[sub][sup][Ext1]{Par}[Ext2] = NAMESUBEXT1[PAR]EXT2
  \txtoparNewCmd{Name}[sub][sup][Par] = NAMESUB[PAR]


339 \newcommand{\cmdtxtall}[1]
340 {\cmdtxt{#1}\cmdtxtarg{#1}\cmdtxtoarg{#1}\cmdtxtpar{#1}\cmdtxtopar{#1}}

341 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

\usrtxt ... to do!


- \usrtxt{cmdName}{Suf}{}; \cmdNameSuf = cmdName
  \usrtxt{cmdName}{Suf}{arg}; \cmdNameSuf{Arg} = cmdName(Arg)
  \usrtxt{cmdName}{Suf}{par}; \cmdNameSuf{Par} = cmdName[Par]
- \usrtxt{cmdName}{Suf}{}[newName]; \cmdNameSuf = newName
  \usrtxt{cmdName}{Suf}{arg}[newName]; \cmdNameSuf{Arg} = newName(Arg)
  \usrtxt{cmdName}{Suf}{par}[newName]; \cmdNameSuf{Par} = newName[Par]


342 \newcommandx{\usrtxt}[4][4=]
343 {\csdef{#1#2}{\csname txt#3\endcsname{\defval{#4}{#1}}}}

344 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
345 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
346 %** Math Meta Commands %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
347 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

\newmth ... to do!


- \newmth[mathrm]{Name}[sub][sup][Ext] = "NamesupsubExt"
- \newmth[mathsf]{Name}[sub][sup][Ext] = "NamesupsubExt"
- \newmth[mathtt]{Name}[sub][sup][Ext] = "NamesupsubExt"


348 \newcommandx{\newmth}[5][1=, 3=, 4=, 5=]
349 {\ensuremath{\csname#1\endcsname{#2}\mthsubsup{#3}{#4}{#5}}}

\newmthsty ... to do!


- \newmthsty[mathrm]{Name}[sub][sup][Ext] = "NamesupsubExt"
- \newmthsty[mathsf]{Name}[sub][sup][Ext] = "NamesupsubExt"
- \newmthsty[mathtt]{Name}[sub][sup][Ext] = "NamesupsubExt"


350 \newcommandx{\newmthsty}[2][2=]
351 {\newmth{\defval{#2}{#1}}}

\newmtharg ... to do!


- \newmtharg[mathrm]{Name}[sub][sup][Ext1]{ArgEx{Ex}}[Ext2] = "NamesupsubExt1(ArgExEx)Ext2"

```

- ```

352 \newcommand{\newmtharg}
353 {\@ifstar{\@snewmtharg}{\@newmtharg}}
354 \newcommandx{\@newmtharg}[7][1=, 3=, 4=, 5=, 7=]
355 {\newmth{#1}{#2}{#3}{#4}[\argmid{#5}\left{}{#6}{\right)}\anglef{!}{#7}]}}
356 \newcommandx{\@snewmtharg}[7][1=, 3=, 4=, 5=, 7=]
357 {\newmth{#1}{#2}{#3}{#4}[\argmid{#5}{#6}{#7}]}

```

- `\newmthargsty{\mathrm}{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2]` = “Name<sub>sub</sub><sup>sup</sup>Ext1(*Arg*<sup>Ex<sup>Ex</sup></sup>)Ext2”
- `\newmthargsty{\mathrm}[mathsf]{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2]` = “Name<sub>sub</sub><sup>sup</sup>Ext1(*Arg*<sup>Ex<sup>Ex</sup></sup>)Ext2”
- `\newmthargsty{\mathrm}[mathtt]{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2]` = “Name<sub>sub</sub><sup>sup</sup>Ext1(*Arg*<sup>Ex<sup>Ex</sup></sup>)Ext2”
- `\newmthargsty*{\mathrm}{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2]` = “Name<sub>sub</sub><sup>sup</sup>Ext1(*Arg*<sup>Ex<sup>Ex</sup></sup>)Ext2”
- `\newmthargsty*{\mathrm}[mathsf]{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2]` = “Name<sub>sub</sub><sup>sup</sup>Ext1(*Arg*<sup>Ex<sup>Ex</sup></sup>)Ext2”
- `\newmthargsty*{\mathrm}[mathtt]{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2]` = “Name<sub>sub</sub><sup>sup</sup>Ext1(*Arg*<sup>Ex<sup>Ex</sup></sup>)Ext2”

- `\newmthoarg[mathrm]{Name}[sub][sup][Arg^{Ex^{Ex}}]` = “Name<sub>sub</sub><sup>sup</sup>(Arg<sup>Ex</sup>Ex)”
- `\newmthoarg[mathsf]{Name}[sub][sup][Arg^{Ex^{Ex}}]` = “Name<sub>sub</sub><sup>sup</sup>(Arg<sup>Ex</sup>Ex)”
- `\newmthoarg[mathtt]{Name}[sub][sup][Arg^{Ex^{Ex}}]` = “Name<sub>sub</sub><sup>sup</sup>(Arg<sup>Ex</sup>Ex)”
- `\newmthoarg*[mathrm]{Name}[sub][sup][Arg^{Ex^{Ex}}]` = “Name<sub>sub</sub><sup>sup</sup>(Arg<sup>Ex</sup>Ex)”
- `\newmthoarg*[mathsf]{Name}[sub][sup][Arg^{Ex^{Ex}}]` = “Name<sub>sub</sub><sup>sup</sup>(Arg<sup>Ex</sup>Ex)”
- `\newmthoarg*[mathtt]{Name}[sub][sup][Arg^{Ex^{Ex}}]` = “Name<sub>sub</sub><sup>sup</sup>(Arg<sup>Ex</sup>Ex)”

- `\newmthoargsty{\mathrm}{Name}[sub][sup][Arg^{Ex^{Ex}}]` = “Name<sub>sub</sub><sup>sup</sup>(Arg<sup>Ex<sup>Ex</sup></sup>)”
- `\newmthoargsty{\mathsf}{Name}[sub][sup][Arg^{Ex^{Ex}}]` = “Name<sub>sub</sub><sup>sup</sup>(Arg<sup>Ex<sup>Ex</sup></sup>)”
- `\newmthoargsty{\mathtt}{Name}[sub][sup][Arg^{Ex^{Ex}}]` = “Name<sub>sub</sub><sup>sup</sup>(Arg<sup>Ex<sup>Ex</sup></sup>)”
- `\newmthoargsty*{\mathrm}{Name}[sub][sup][Arg^{Ex^{Ex}}]` = “Name<sub>sub</sub><sup>sup</sup>(Arg<sup>Ex<sup>Ex</sup></sup>)”
- `\newmthoargsty*{\mathsf}{Name}[sub][sup][Arg^{Ex^{Ex}}]` = “Name<sub>sub</sub><sup>sup</sup>(Arg<sup>Ex<sup>Ex</sup></sup>)”
- `\newmthoargsty*{\mathtt}{Name}[sub][sup][Arg^{Ex^{Ex}}]` = “Name<sub>sub</sub><sup>sup</sup>(Arg<sup>Ex<sup>Ex</sup></sup>)”

```

370 \newcommand{\newmthoargsty}
371 {\@ifstar{\@snewmthoargsty}{\@newmthoargsty}}
372 \newcommandx{\@newmthoargsty}[2][2=]
373 {\newmthoarg[\defval{#2}{#1}]}
374 \newcommandx{\@snewmthoargsty}[2][2=]
375 {\newmthoarg*[\defval{#2}{#1}]}

```

\newmthpar ... to do!

- $\newmthpar[\mathrm]{Name}[\mathrm{sub}][\mathrm{sup}][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \text{"Name}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2"$
- $\newmthpar[\mathrm{sf}]{Name}[\mathrm{sub}][\mathrm{sup}][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \text{"Name}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2"$
- $\newmthpar[\mathrm{htt}]{Name}[\mathrm{sub}][\mathrm{sup}][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \text{"Name}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2"$
- $\newmthpar*[\mathrm{rm}]{Name}[\mathrm{sub}][\mathrm{sup}][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \text{"Name}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2"$
- $\newmthpar*[\mathrm{sf}]{Name}[\mathrm{sub}][\mathrm{sup}][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \text{"Name}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2"$
- $\newmthpar*[\mathrm{htt}]{Name}[\mathrm{sub}][\mathrm{sup}][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \text{"Name}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2"$

```

376 \newcommand{\newmthpar}
377 {\@ifstar{\@snewmthpar}{\@newmthpar}}
378 \newcommandx{\@newmthpar}[7][1=, 3=, 4=, 5=, 7=]
379 {\newmth[#1]{#2}[#3][#4][\argmid{#5}\left[\right]\arglef{!}{#7}]}
380 \newcommandx{\@snewmthpar}[7][1=, 3=, 4=, 5=, 7=]
381 {\newmth[#1]{#2}[#3][#4][\argmid{#5}{#6}{#7}]}

```

\newmthparsty ... to do!

- $\newmthparsty[\mathrm]{Name}[\mathrm{sub}][\mathrm{sup}][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \text{"Name}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2"$
- $\newmthparsty[\mathrm{rm}]{Name}[\mathrm{sub}][\mathrm{sup}][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \text{"Name}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2"$
- $\newmthparsty[\mathrm{sf}]{Name}[\mathrm{sub}][\mathrm{sup}][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \text{"Name}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2"$
- $\newmthparsty[\mathrm{htt}]{Name}[\mathrm{sub}][\mathrm{sup}][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \text{"Name}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2"$
- $\newmthparsty*[\mathrm{rm}]{Name}[\mathrm{sub}][\mathrm{sup}][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \text{"Name}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2"$
- $\newmthparsty*[\mathrm{sf}]{Name}[\mathrm{sub}][\mathrm{sup}][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \text{"Name}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2"$
- $\newmthparsty*[\mathrm{htt}]{Name}[\mathrm{sub}][\mathrm{sup}][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \text{"Name}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2"$

```

382 \newcommand{\newmthparsty}
383 {\@ifstar{\@snewmthparsty}{\@newmthparsty}}
384 \newcommandx{\@newmthparsty}[2][2=]
385 {\newmthpar[\defval{#2}{#1}]}
386 \newcommandx{\@snewmthparsty}[2][2=]
387 {\newmthpar*[\defval{#2}{#1}]}

```

\newmthopar ... to do!

- $\newmthopar[\mathrm]{Name}[\mathrm{sub}][\mathrm{sup}][Par^{Ex^{Ex}}] = \text{"Name}_{sub}^{sup}[Par^{Ex^{Ex}}]"$
- $\newmthopar[\mathrm{sf}]{Name}[\mathrm{sub}][\mathrm{sup}][Par^{Ex^{Ex}}] = \text{"Name}_{sub}^{sup}[Par^{Ex^{Ex}}]"$
- $\newmthopar[\mathrm{htt}]{Name}[\mathrm{sub}][\mathrm{sup}][Par^{Ex^{Ex}}] = \text{"Name}_{sub}^{sup}[Par^{Ex^{Ex}}]"$
- $\newmthopar*[\mathrm{rm}]{Name}[\mathrm{sub}][\mathrm{sup}][Par^{Ex^{Ex}}] = \text{"Name}_{sub}^{sup}[Par^{Ex^{Ex}}]"$
- $\newmthopar*[\mathrm{sf}]{Name}[\mathrm{sub}][\mathrm{sup}][Par^{Ex^{Ex}}] = \text{"Name}_{sub}^{sup}[Par^{Ex^{Ex}}]"$
- $\newmthopar*[\mathrm{htt}]{Name}[\mathrm{sub}][\mathrm{sup}][Par^{Ex^{Ex}}] = \text{"Name}_{sub}^{sup}[Par^{Ex^{Ex}}]"$

```

388 \newcommand{\newmthopar}
389 {\@ifstar{\@snewmthopar}{\@newmthopar}}
390 \newcommandx{\@newmthopar}[5][1=, 3=, 4=, 5=]
391 {\newmthpar[#1]{#2}[#3][#4][\argmid{#5}]}
392 \newcommandx{\@snewmthopar}[5][1=, 3=, 4=, 5=]
393 {\newmthpar*[#1]{#2}[#3][#4][\argmid{#5}]}

```

\newmthoparsty ... to do!

```

394 \newcommand{\newmthoparsty}
395 {\@ifstar{\@snewmthoparsty}{\@newmthoparsty}}
396 \newcommandx{\@newmthoparsty}[2][2=]
397 {\newmthopar[\defval{#2}{#1}]}
398 \newcommandx{\@snewmthopar}[2][2=]
399 {\newmthopar*[\defval{#2}{#1}]}

```

[illegible]

- $\text{\texttt{\textit{Name}}}_{\text{\texttt{sub}}}^{\text{\texttt{sup}}}\text{\texttt{Ext}} = \text{\textit{Name}}_{\text{\textit{sub}}}^{\text{\textit{sup}}}\text{\textit{Ext}}$
- $\text{\textbf{\textit{Name}}}_{\text{\textbf{\texttt{sub}}}^{\text{\textbf{\texttt{sup}}}}}\text{\textbf{\texttt{Ext}}} = \text{\textbf{\textit{Name}}}_{\text{\textbf{\textit{sub}}}^{\text{\textbf{\textit{sup}}}}}\text{\textbf{\textit{Ext}}}$
- $\text{\texttt{\textbf{\textit{Name}}}}_{\text{\texttt{\textbf{\texttt{sub}}}^{\text{\texttt{\textbf{\texttt{sup}}}}}}}\text{\texttt{\textbf{\texttt{Ext}}}} = \text{\textbf{\textit{Name}}}_{\text{\textbf{\textit{sub}}}^{\text{\textbf{\textit{sup}}}}}\text{\textbf{\textit{Ext}}}$

- $\mathrm{\mtharg}\{\mathrm{Name}\}_{\mathrm{sub}}^{\mathrm{sup}}[\mathrm{Ext1}]{\mathrm{Arg}^{\mathrm{Ex}}\{\mathrm{Ex}\}}[\mathrm{Ext2}] = \textit{“Name}_{\mathrm{sub}}^{\mathrm{sup}}\mathrm{Ext1}\left(\mathrm{Arg}^{\mathrm{Ex}\mathrm{Ex}}\right)\mathrm{Ext2}”}$
- $\mathrm{\mtharg}\{\mathrm{mathbf{b}}\mathrm{f}\}\{\mathrm{Name}\}_{\mathrm{sub}}^{\mathrm{sup}}[\mathrm{Ext1}]{\mathrm{Arg}^{\mathrm{Ex}}\{\mathrm{Ex}\}}[\mathrm{Ext2}] = \textit{“Name}_{\mathrm{sub}}^{\mathrm{sup}}\mathrm{Ext1}\left(\mathrm{Arg}^{\mathrm{Ex}\mathrm{Ex}}\right)\mathrm{Ext2}”}$
- $\mathrm{\mtharg}\{\mathrm{mathtt}\}\{\mathrm{Name}\}_{\mathrm{sub}}^{\mathrm{sup}}[\mathrm{Ext1}]{\mathrm{Arg}^{\mathrm{Ex}}\{\mathrm{Ex}\}}[\mathrm{Ext2}] = \textit{“Name}_{\mathrm{sub}}^{\mathrm{sup}}\mathrm{Ext1}\left(\mathrm{Arg}^{\mathrm{Ex}\mathrm{Ex}}\right)\mathrm{Ext2}”}$
- $\mathrm{\mtharg}\ast\{\mathrm{Name}\}_{\mathrm{sub}}^{\mathrm{sup}}[\mathrm{Ext1}]{\mathrm{Arg}^{\mathrm{Ex}}\{\mathrm{Ex}\}}[\mathrm{Ext2}] = \textit{“Name}_{\mathrm{sub}}^{\mathrm{sup}}\mathrm{Ext1}(\mathrm{Arg}^{\mathrm{Ex}\mathrm{Ex}})\mathrm{Ext2}”}$
- $\mathrm{\mtharg}\ast\{\mathrm{mathbf{b}}\mathrm{f}\}\{\mathrm{Name}\}_{\mathrm{sub}}^{\mathrm{sup}}[\mathrm{Ext1}]{\mathrm{Arg}^{\mathrm{Ex}}\{\mathrm{Ex}\}}[\mathrm{Ext2}] = \textit{“Name}_{\mathrm{sub}}^{\mathrm{sup}}\mathrm{Ext1}(\mathrm{Arg}^{\mathrm{Ex}\mathrm{Ex}})\mathrm{Ext2}”}$
- $\mathrm{\mtharg}\ast\{\mathrm{mathtt}\}\{\mathrm{Name}\}_{\mathrm{sub}}^{\mathrm{sup}}[\mathrm{Ext1}]{\mathrm{Arg}^{\mathrm{Ex}}\{\mathrm{Ex}\}}[\mathrm{Ext2}] = \textit{“Name}_{\mathrm{sub}}^{\mathrm{sup}}\mathrm{Ext1}(\mathrm{Arg}^{\mathrm{Ex}\mathrm{Ex}})\mathrm{Ext2}”}$

```

5 \newcommand{\mtharg}
6 {\@ifstar{\newmthargsty*{\mthsty}}{\newmthargsty{\mthsty}}}

```

- $\backslash\text{thoarg}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Arg}^{\sim}\{\text{Ex}^{\sim}\{\text{Ex}\}}] = \textit{“Name}_{sub}^{sup}\left(\textit{Arg}^{Ex^{Ex}}\right)”$
- $\backslash\text{thoarg}[\text{mathbf}]{\text{Name}}[\text{sub}][\text{sup}][\text{Arg}^{\sim}\{\text{Ex}^{\sim}\{\text{Ex}\}}] = \textit{“Name}_{sub}^{sup}\left(\textit{Arg}^{Ex^{Ex}}\right)”$
- $\backslash\text{thoarg}[\text{mathtt}]{\text{Name}}[\text{sub}][\text{sup}][\text{Arg}^{\sim}\{\text{Ex}^{\sim}\{\text{Ex}\}}] = \textit{“Name}_{sub}^{sup}\left(\textit{Arg}^{Ex^{Ex}}\right)”$
- $\backslash\text{thoarg}^{*}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Arg}^{\sim}\{\text{Ex}^{\sim}\{\text{Ex}\}}] = \textit{“Name}_{sub}^{sup}(\textit{Arg}^{Ex^{Ex}})”$
- $\backslash\text{thoarg}^{*}[\text{mathbf}]{\text{Name}}[\text{sub}][\text{sup}][\text{Arg}^{\sim}\{\text{Ex}^{\sim}\{\text{Ex}\}}] = \textit{“Name}_{sub}^{sup}(\textit{Arg}^{Ex^{Ex}})”$
- $\backslash\text{thoarg}^{*}[\text{mathtt}]{\text{Name}}[\text{sub}][\text{sup}][\text{Arg}^{\sim}\{\text{Ex}^{\sim}\{\text{Ex}\}}] = \textit{“Name}_{sub}^{sup}(\textit{Arg}^{Ex^{Ex}})”$

```

7 \newcommand{\thoarg}
8 {\@ifstar{\newthoargsty*{\mthsty}}{\newmthoargsty{\mthsty}}}

```

- $\text{\textbackslash mthpar\{Name\}[sub][sup][Ext1]\{Par^{\wedge}\{Ex^{\wedge}\{Ex\}\}\}[Ext2]} = \textit{Name}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2$

- $\backslash\mathit{mthpar}[\mathbf{mathtt}]{\text{Name}}[\text{sub}][\text{sup}][\text{Ext1}]{\text{Par}}^{\text{Ex}}{\text{Ex}}[\text{Ext2}] = \text{Name}_{\text{sub}}^{\text{sup}}\text{Ext1}\left[\text{Par}^{\text{Ex}}{\text{Ex}}\right]\text{Ext2}$
- $\backslash\mathit{mthpar}[\mathbf{mathtt}]{\text{Name}}[\text{sub}][\text{sup}][\text{Ext1}]{\text{Par}}^{\text{Ex}}{\text{Ex}}[\text{Ext2}] = \text{Name}_{\text{sub}}^{\text{sup}}\text{Ext1}\left[\text{Par}^{\text{Ex}}{\text{Ex}}\right]\text{Ext2}$
- $\backslash\mathit{mthpar}*\{\text{Name}\}[\text{sub}][\text{sup}][\text{Ext1}]{\text{Par}}^{\text{Ex}}{\text{Ex}}[\text{Ext2}] = \text{Name}_{\text{sub}}^{\text{sup}}\text{Ext1}\left[\text{Par}^{\text{Ex}}{\text{Ex}}\right]\text{Ext2}$
- $\backslash\mathit{mthpar}[\mathbf{mathtt}]{\text{Name}}[\text{sub}][\text{sup}][\text{Ext1}]{\text{Par}}^{\text{Ex}}{\text{Ex}}[\text{Ext2}] = \text{Name}_{\text{sub}}^{\text{sup}}\text{Ext1}\left[\text{Par}^{\text{Ex}}{\text{Ex}}\right]\text{Ext2}$
- $\backslash\mathit{mthpar}*\{\mathbf{mathtt}\}{\text{Name}}[\text{sub}][\text{sup}][\text{Ext1}]{\text{Par}}^{\text{Ex}}{\text{Ex}}[\text{Ext2}] = \text{Name}_{\text{sub}}^{\text{sup}}\text{Ext1}\left[\text{Par}^{\text{Ex}}{\text{Ex}}\right]\text{Ext2}$

409  $\backslash\text{newcommand}\{\backslash\mathit{mthpar}\}$

410  $\{\backslash\text{ifstar}\{\backslash\text{newmthparsty}*\{\backslash\mathit{mthsty}\}\}\{\backslash\text{newmthparsty}\{\backslash\mathit{mthsty}\}\}\}$

$\backslash\mathit{mthopar}$  ... to do!

- $\backslash\mathit{mthopar}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Par}}^{\text{Ex}}{\text{Ex}}] = \text{Name}_{\text{sub}}^{\text{sup}}\left[\text{Par}^{\text{Ex}}{\text{Ex}}\right]$
- $\backslash\mathit{mthopar}[\mathbf{mathtt}]{\text{Name}}[\text{sub}][\text{sup}][\text{Par}}^{\text{Ex}}{\text{Ex}}] = \text{Name}_{\text{sub}}^{\text{sup}}\left[\text{Par}^{\text{Ex}}{\text{Ex}}\right]$
- $\backslash\mathit{mthopar}[\mathbf{mathtt}]{\text{Name}}[\text{sub}][\text{sup}][\text{Par}}^{\text{Ex}}{\text{Ex}}] = \text{Name}_{\text{sub}}^{\text{sup}}\left[\text{Par}^{\text{Ex}}{\text{Ex}}\right]$
- $\backslash\mathit{mthopar}*\{\text{Name}\}[\text{sub}][\text{sup}][\text{Par}}^{\text{Ex}}{\text{Ex}}] = \text{Name}_{\text{sub}}^{\text{sup}}\left[\text{Par}^{\text{Ex}}{\text{Ex}}\right]$
- $\backslash\mathit{mthopar}[\mathbf{mathtt}]{\text{Name}}[\text{sub}][\text{sup}][\text{Par}}^{\text{Ex}}{\text{Ex}}] = \text{Name}_{\text{sub}}^{\text{sup}}\left[\text{Par}^{\text{Ex}}{\text{Ex}}\right]$
- $\backslash\mathit{mthopar}*\{\mathbf{mathtt}\}{\text{Name}}[\text{sub}][\text{sup}][\text{Par}}^{\text{Ex}}{\text{Ex}}] = \text{Name}_{\text{sub}}^{\text{sup}}\left[\text{Par}^{\text{Ex}}{\text{Ex}}\right]$

411  $\backslash\text{newcommand}\{\backslash\mathit{mthopar}\}$

412  $\{\backslash\text{ifstar}\{\backslash\text{newmthoparsty}*\{\backslash\mathit{mthsty}\}\}\{\backslash\text{newmthoparsty}\{\backslash\mathit{mthsty}\}\}\}$

$\backslash\mathit{mthsty}$  ... to do!

413  $\backslash\text{newcommand}\{\backslash\mathit{mthsty}\}$

414  $\{\}$

415  $\%*****\%$

$\backslash\text{cmdmth}$  ... to do!

- $\backslash\text{cmdmth}\{\text{NewCmd}\}; \backslash\text{newcommand}\{\mathit{mthstyNewCmd}\}\{\backslash\mathbf{mathtt}\};$   
 $\backslash\mathit{mthNewCmd}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Ext}] = \text{Name}_{\text{sub}}^{\text{sup}}\text{Ext}$

416  $\backslash\text{newcommand}\{\backslash\text{cmdmth}\}[1]$

417  $\{\backslash\text{csdef}\{\mathit{mth}\#1\}\{\backslash\text{newmthsty}\{\mathit{mthsty}\#1\}\}\}$

$\backslash\text{cmdmtharg}$  ... to do!

- $\backslash\text{cmdmtharg}\{\text{NewCmd}\}; \backslash\text{newcommand}\{\mathit{mthstyNewCmd}\}\{\backslash\mathbf{mathtt}\};$   
 $\backslash\mathit{mthargNewCmd}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Ext1}]{\text{Arg}}^{\text{Ex}}{\text{Ex}}[\text{Ext2}] = \text{Name}_{\text{sub}}^{\text{sup}}\text{Ext1}\left(\text{Arg}^{\text{Ex}}{\text{Ex}}\right)\text{Ext2}$   
 $\backslash\mathit{mthargNewCmd}*\{\text{Name}\}[\text{sub}][\text{sup}][\text{Ext1}]{\text{Arg}}^{\text{Ex}}{\text{Ex}}[\text{Ext2}] = \text{Name}_{\text{sub}}^{\text{sup}}\text{Ext1}\left(\text{Arg}^{\text{Ex}}{\text{Ex}}\right)\text{Ext2}$

418  $\backslash\text{newcommand}\{\backslash\text{cmdmtharg}\}[1]$

419  $\{\backslash\text{csdef}\{\mathit{mtharg}\#1\}\%$

420  $\{\backslash\text{ifstar}\{\backslash\text{newmthargsty}*\{\mathit{mthsty}\#1\}\}\{\backslash\text{newmthargsty}\{\mathit{mthsty}\#1\}\}\}\}$

$\backslash\text{cmdmthoarg}$  ... to do!

- $\backslash\text{cmdmthoarg}\{\text{NewCmd}\}; \backslash\text{newcommand}\{\mathit{mthstyNewCmd}\}\{\backslash\mathbf{mathtt}\};$   
 $\backslash\mathit{mthoargNewCmd}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Arg}}^{\text{Ex}}{\text{Ex}}] = \text{Name}_{\text{sub}}^{\text{sup}}\left(\text{Arg}^{\text{Ex}}{\text{Ex}}\right)$   
 $\backslash\mathit{mthoargNewCmd}*\{\text{Name}\}[\text{sub}][\text{sup}][\text{Arg}}^{\text{Ex}}{\text{Ex}}] = \text{Name}_{\text{sub}}^{\text{sup}}\left(\text{Arg}^{\text{Ex}}{\text{Ex}}\right)$

421  $\backslash\text{newcommand}\{\backslash\text{cmdmthoarg}\}[1]$

422  $\{\backslash\text{csdef}\{\mathit{mthoarg}\#1\}\%$

423  $\{\backslash\text{ifstar}\{\backslash\text{newmthoargsty}*\{\mathit{mthsty}\#1\}\}\{\backslash\text{newmthoargsty}\{\mathit{mthsty}\#1\}\}\}\}$

$\backslash\text{cmdmthpar}$  ... to do!

- $\backslash\text{cmdmthpar}\{\text{NewCmd}\}; \backslash\text{newcommand}\{\mathit{mthstyNewCmd}\}\{\backslash\mathbf{mathtt}\};$   
 $\backslash\mathit{mthparNewCmd}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Ext1}]{\text{Par}}^{\text{Ex}}{\text{Ex}}[\text{Ext2}] = \text{Name}_{\text{sub}}^{\text{sup}}\text{Ext1}\left[\text{Par}^{\text{Ex}}{\text{Ex}}\right]\text{Ext2}$   
 $\backslash\mathit{mthparNewCmd}*\{\text{Name}\}[\text{sub}][\text{sup}][\text{Ext1}]{\text{Par}}^{\text{Ex}}{\text{Ex}}[\text{Ext2}] = \text{Name}_{\text{sub}}^{\text{sup}}\text{Ext1}\left[\text{Par}^{\text{Ex}}{\text{Ex}}\right]\text{Ext2}$

```

424 \newcommand{\cmdmthpar}[1]
425 {\csdef{mthpar#1}%
426 {\@ifstar{\newmthparsty*{mthsty#1}}{\newmthparsty{mthsty#1}}}}

\cmdmthpar ... to do!
 • \cmdmthpar{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
 \mthparNewCmd{Name}[sub][sup][Par^{Ex^{Ex}}] = Name_{sub}^{sup}[Par^{Ex^{Ex}}]
 \mthparNewCmd*{Name}[sub][sup][Par^{Ex^{Ex}}] = Name_{sub}^{sup}[Par^{Ex^{Ex}}]
427 \newcommand{\cmdmthpar}[1]
428 {\csdef{mthpar#1}%
429 {\@ifstar{\newmthparsty*{mthsty#1}}{\newmthparsty{mthsty#1}}}}

\cmdmthall ... to do!
 • \cmdmthall{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
 \mthNewCmd{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
 \mthargNewCmd{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
 \mthargNewCmd*{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
 \mthoargNewCmd{Name}[sub][sup][Arg^{Ex^{Ex}}] = Name_{sub}^{sup}(Arg^{Ex^{Ex}})
 \mthoargNewCmd*{Name}[sub][sup][Arg^{Ex^{Ex}}] = Name_{sub}^{sup}(Arg^{Ex^{Ex}})
 \mthparNewCmd{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
 \mthparNewCmd*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
 \mthoparNewCmd{Name}[sub][sup][Par^{Ex^{Ex}}] = Name_{sub}^{sup}[Par^{Ex^{Ex}}]
 \mthoparNewCmd*{Name}[sub][sup][Par^{Ex^{Ex}}] = Name_{sub}^{sup}[Par^{Ex^{Ex}}]
430 \newcommand{\cmdmthall}[1]
431 {\cmdmth{#1}\cmdmtharg{#1}\cmdmthoarg{#1}\cmdmthpar{#1}\cmdmthopar{#1}}
432 %%*****

\usrmth ... to do!
 • \usrmth{cmdName}{Suf}{}; \cmdNameSuf = cmdName
 \usrmth{cmdName}{Suf}{arg};
 \cmdNameSuf{Arg^{Ex^{Ex}}} = cmdName(Arg^{Ex^{Ex}})
 \cmdNameSuf*{Arg^{Ex^{Ex}}} = cmdName(Arg^{Ex^{Ex}})
 \usrmth{cmdName}{Suf}{par};
 \cmdNameSuf{Par^{Ex^{Ex}}} = cmdName[Par^{Ex^{Ex}}]
 \cmdNameSuf*{Par^{Ex^{Ex}}} = cmdName[Par^{Ex^{Ex}}]
 • \usrmth{cmdName}{Suf}{}[newName]; \cmdNameSuf = newName
 \usrmth{cmdName}{Suf}{arg}[newName];
 \cmdNameSuf{Arg^{Ex^{Ex}}} = newName(Arg^{Ex^{Ex}})
 \cmdNameSuf*{Arg^{Ex^{Ex}}} = newName(Arg^{Ex^{Ex}})
 \usrmth{cmdName}{Suf}{par}[newName];
 \cmdNameSuf{Par^{Ex^{Ex}}} = newName[Par^{Ex^{Ex}}]
 \cmdNameSuf*{Par^{Ex^{Ex}}} = newName[Par^{Ex^{Ex}}]
433 \newcommandx{\usrmth}[4][4=]
434 {\csdef{#1#2}{%
435 \@ifstar%
436 {\csname mth#3\endcsname*{\defval{#4}{#1}}}%
437 {\csname mth#3\endcsname{\defval{#4}{#1}}}%
438 }}
439 %%*****

\usrmthlatlow ... to do!
440 \newcommandx{\usrmthlatlow}[4][4=]
441 {\usrmth{#1}{#2}{#3}[#4]\seqoflatlow{#1#2}{mth#3}}

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\usrmthlatupp ... to do!
442 \newcommandx{\usrmthlatupp}[4][4=]
443 {\usrmth{#1}{#2}{#3}[#4]\seqoflatupp{#1#2}{mth#3}}

\usrmthlatlet ... to do!
444 \newcommandx{\usrmthlatlet}[4][4=]
445 {\usrmth{#1}{#2}{#3}[#4]\seqoflatlet{#1#2}{mth#3}}

\usrmthgrklow ... to do!
446 \newcommandx{\usrmthgrklow}[4][4=]
447 {\usrmth{#1}{#2}{#3}[#4]\seqofgrklow{#1#2}{mth#3}}

\usrmthgrkupp ... to do!
448 \newcommandx{\usrmthgrkupp}[4][4=]
449 {\usrmth{#1}{#2}{#3}[#4]\seqofgrkupp{#1#2}{mth#3}}

\usrmthgrklet ... to do!
450 \newcommandx{\usrmthgrklet}[4][4=]
451 {\usrmth{#1}{#2}{#3}[#4]\seqofgrklet{#1#2}{mth#3}}

\usrmthlow ... to do!
452 \newcommandx{\usrmthlow}[4][4=]
453 {\usrmth{#1}{#2}{#3}[#4]\seqoflow{#1#2}{mth#3}}

\usrmthupp ... to do!
454 \newcommandx{\usrmthupp}[4][4=]
455 {\usrmth{#1}{#2}{#3}[#4]\seqofupp{#1#2}{mth#3}}

\usrmthlet ... to do!
456 \newcommandx{\usrmthlet}[4][4=]
457 {\usrmth{#1}{#2}{#3}[#4]\seqoflet{#1#2}{mth#3}}

458 %%*****%
459 %%*****%
460 %%** Text Macro Generators *****%
461 %%*****%
462 \iftxtgen@

\txtdf, to do!
• \txtdf{Name}[sub][sup][Ext] = $Name_{sub}^{sup}Ext$
• \txtdf{Name}[sub][sup][Ext1]{Arg}[Ext2] = $Name_{sub}^{sup}Ext1(Arg)Ext2$
• \txtdf{Name}[sub][sup][Ext1]{Par}[Ext2] = $Name_{sub}^{sup}Ext1[Par]Ext2$

463 %% Style for Definitions
464 \cmdtxtall{def}\newcommand{\txtstydef}{\normalfont\bfseries\em}

\cmdtxtdef ... to do!
• \cmdtxtdef{cmdName};
 \cmdName[sub][sub][ext] = $cmdName_{sub}^{sub}ext$
• \cmdtxtdef{cmdName}[newName];
 \cmdName[sub][sub][ext] = $newName_{sub}^{sub}ext$

465 \newcommandx{\cmdtxtdef}[2][2=]
466 {\usrtxt{#1}{\def}{#2}}

\cmdtxtargdef ... to do!
• \cmdtxtargdef{cmdName};
 \cmdName[sub][sub][ext1]{arg}[ext2] = $cmdName_{sub}^{sub}ext1(arg)ext2$
• \cmdtxtargdef{cmdName}[newName];
 \cmdName[sub][sub][ext1]{arg}[ext2] = $newName_{sub}^{sub}ext1(arg)ext2$

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467 \newcommandx{\cmdtxtargdef}[2][2=]
468 {\usrtxt{#1}{\argdef}{#2}}

\cmdtxttoargdef ... to do!
 • \cmdtxttoargdef{cmdName};
 \cmdName[sub][sub][arg] = $cmdName_{sub}^{sub}(arg)$
 • \cmdtxttoargdef{cmdName}[newName];
 \cmdName[sub][sub][arg] = $newName_{sub}^{sub}(arg)$
469 \newcommandx{\cmdtxttoargdef}[2][2=]
470 {\usrtxt{#1}{\oargdef}{#2}}

\cmdtxtpardef ... to do!
 • \cmdtxtpardef{cmdName};
 \cmdName[sub][sub][ext1]{par}[ext2] = $cmdName_{sub}^{sub}ext1[par]ext2$
 • \cmdtxtpardef{cmdName}[newName];
 \cmdName[sub][sub][ext1]{par}[ext2] = $newName_{sub}^{sub}ext1[par]ext2$
471 \newcommandx{\cmdtxtpardef}[2][2=]
472 {\usrtxt{#1}{\pardef}{#2}}

\cmdtxtopardef ... to do!
 • \cmdtxtopardef{cmdName};
 \cmdName[sub][sub][par] = $cmdName_{sub}^{sub}[par]$
 • \cmdtxtopardef{cmdName}[newName];
 \cmdName[sub][sub][par] = $newName_{sub}^{sub}[par]$
473 \newcommandx{\cmdtxtopardef}[2][2=]
474 {\usrtxt{#1}{\opardef}{#2}}

\txtabr, to do!
 • \txtabr{Name}[sub][sup][Ext] = $Name_{sub}^{sup}Ext$
 • \txtargabr{Name}[sub][sup][Ext1]{Arg}[Ext2] = $Name_{sub}^{sup}Ext1(Arg)Ext2$
 • \txtparabr{Name}[sub][sup][Ext1]{Par}[Ext2] = $Name_{sub}^{sup}Ext1[Par]Ext2$
475 %% Style for Abbreviations
476 \cmdtxtall{abr}\newcommand{\txtstyabr}{\em}

\cmdtxtabr ... to do!
 • \cmdtxtabr{cmdName};
 \cmdName[sub][sub][ext] = $cmdName_{sub}^{sub}ext$
 • \cmdtxtabr{cmdName}[newName];
 \cmdName[sub][sub][ext] = $newName_{sub}^{sub}ext$
477 \newcommandx{\cmdtxtabr}[2][2=]
478 {\usrtxt{#1}{\abr}{#2}}

\cmdtxtargabr ... to do!
 • \cmdtxtargabr{cmdName};
 \cmdName[sub][sub][ext1]{arg}[ext2] = $cmdName_{sub}^{sub}ext1(arg)ext2$
 • \cmdtxtargabr{cmdName}[newName];
 \cmdName[sub][sub][ext1]{arg}[ext2] = $newName_{sub}^{sub}ext1(arg)ext2$
479 \newcommandx{\cmdtxtargabr}[2][2=]
480 {\usrtxt{#1}{\argabr}{#2}}

\cmdtxttoargabr ... to do!
 • \cmdtxttoargabr{cmdName};
 \cmdName[sub][sub][arg] = $cmdName_{sub}^{sub}(arg)$
 • \cmdtxttoargabr{cmdName}[newName];
 \cmdName[sub][sub][arg] = $newName_{sub}^{sub}(arg)$
481 \newcommandx{\cmdtxttoargabr}[2][2=]
482 {\usrtxt{#1}{\oargabr}{#2}}

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\cmdtxtparabr ... to do!
 • \cmdtxtparabr{cmdName};
 \cmdName[sub][sub][ext1]{par}[ext2] = $\text{cmdName}_{\text{sub}}^{\text{sub}} \text{ext1}[\text{par}]\text{ext2}$
 • \cmdtxtparabr{cmdName}[newName];
 \cmdName[sub][sub][ext1]{par}[ext2] = $\text{newName}_{\text{sub}}^{\text{sub}} \text{ext1}[\text{par}]\text{ext2}$
483 \newcommandx{\cmdtxtparabr}[2][2=]
484 {\usrtxt{#1}{-}{parabr}[#2]}

\cmdtxtoparabr ... to do!
 • \cmdtxtoparabr{cmdName};
 \cmdName[sub][sub][par] = $\text{cmdName}_{\text{sub}}^{\text{sub}}[\text{par}]$
 • \cmdtxtoparabr{cmdName}[newName];
 \cmdName[sub][sub][par] = $\text{newName}_{\text{sub}}^{\text{sub}}[\text{par}]$
485 \newcommandx{\cmdtxtoparabr}[2][2=]
486 {\usrtxt{#1}{-}{oparabr}[#2]}

487 %%*****%

\txtname, to do!
 • \txtname{Name}[sub][sup][Ext] = $\text{NAME}_{\text{SUB}}^{\text{SUP}}\text{EXT}$
 • \txtargname{Name}[sub][sup][Ext1]{Arg}[Ext2] = $\text{NAME}_{\text{SUB}}^{\text{SUP}}\text{EXT1}(\text{ARG})\text{EXT2}$
 • \txtparname{Name}[sub][sup][Ext1]{Par}[Ext2] = $\text{NAME}_{\text{SUB}}^{\text{SUP}}\text{EXT1}[\text{PAR}]\text{EXT2}$
488 %% Style for Names
489 \cmdtxtall{name}\newcommand{\txtstyname}{\normalfont\mdseries\scshape\sffamily}

\cmdtxtname ... to do!
 • \cmdtxtname{cmdName};
 \cmdName[sub][sub][ext] = $\text{CMDNAME}_{\text{SUB}}^{\text{SUB}}\text{EXT}$
 • \cmdtxtname{cmdName}[newName];
 \cmdName[sub][sub][ext] = $\text{NEWNAME}_{\text{SUB}}^{\text{SUB}}\text{EXT}$
490 \newcommandx{\cmdtxtname}[2][2=]
491 {\usrtxt{#1}{-}{name}[#2]}

\cmdtxtargname ... to do!
 • \cmdtxtargname{cmdName};
 \cmdName[sub][sub][ext1]{arg}[ext2] = $\text{CMDNAME}_{\text{SUB}}^{\text{SUB}}\text{EXT1}(\text{ARG})\text{EXT2}$
 • \cmdtxtargname{cmdName}[newName];
 \cmdName[sub][sub][ext1]{arg}[ext2] = $\text{NEWNAME}_{\text{SUB}}^{\text{SUB}}\text{EXT1}(\text{ARG})\text{EXT2}$
492 \newcommandx{\cmdtxtargname}[2][2=]
493 {\usrtxt{#1}{-}{argname}[#2]}

\cmdtxtoargname ... to do!
 • \cmdtxtoargname{cmdName};
 \cmdName[sub][sub][arg] = $\text{CMDNAME}_{\text{SUB}}^{\text{SUB}}(\text{ARG})$
 • \cmdtxtoargname{cmdName}[newName];
 \cmdName[sub][sub][arg] = $\text{NEWNAME}_{\text{SUB}}^{\text{SUB}}(\text{ARG})$
494 \newcommandx{\cmdtxtoargname}[2][2=]
495 {\usrtxt{#1}{-}{oargname}[#2]}

\cmdtxtparname ... to do!
 • \cmdtxtparname{cmdName};
 \cmdName[sub][sub][ext1]{par}[ext2] = $\text{CMDNAME}_{\text{SUB}}^{\text{SUB}}\text{EXT1}[\text{PAR}]\text{EXT2}$
 • \cmdtxtparname{cmdName}[newName];
 \cmdName[sub][sub][ext1]{par}[ext2] = $\text{NEWNAME}_{\text{SUB}}^{\text{SUB}}\text{EXT1}[\text{PAR}]\text{EXT2}$
496 \newcommandx{\cmdtxtparname}[2][2=]
497 {\usrtxt{#1}{-}{parname}[#2]}

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```

\cmdtxtoparname ... to do!
 • \cmdtxtoparname{cmdName};
 \cmdName[sub][sub][par] = CMDNAMESUB[PAR]
 • \cmdtxtoparname{cmdName}[newName];
 \cmdName[sub][sub][par] = NEWNAMESUB[PAR]
498 \newcommandx{\cmdtxtoparname}[2][2=]
499 {\usrtxt{#1}{-}{oparname}{#2}}

\txtcom, to do!
 • \txtcom{Name}[sub][sup][Ext] = NAMESUBEXT
 • \txtargcom{Name}[sub][sup][Ext1]{Arg}[Ext2] = NAMESUBEXT1(ARG)EXT2
 • \txtparcom{Name}[sub][sup][Ext1]{Par}[Ext2] = NAMESUBEXT1[PAR]EXT2
500 %% Style for Complexities
501 \cmdtxtall{com}\newcommand{\txtstycom}{\normalfont\mdseries\scshape\rmfamily}

\cmdtxtcom ... to do!
 • \cmdtxtcom{cmdName};
 \cmdName[sub][sub][ext] = CMDNAMESUBEXT
 • \cmdtxtcom{cmdName}[newName];
 \cmdName[sub][sub][ext] = NEWNAMESUBEXT
502 \newcommandx{\cmdtxtcom}[2][2=]
503 {\usrtxt{#1}{-}{com}{#2}}

\cmdtxtargcom ... to do!
 • \cmdtxtargcom{cmdName};
 \cmdName[sub][sub][ext1]{arg}[ext2] = CMDNAMESUBEXT1(ARG)EXT2
 • \cmdtxtargcom{cmdName}[newName];
 \cmdName[sub][sub][ext1]{arg}[ext2] = NEWNAMESUBEXT1(ARG)EXT2
504 \newcommandx{\cmdtxtargcom}[2][2=]
505 {\usrtxt{#1}{-}{argcom}{#2}}

\cmdtxtoargcom ... to do!
 • \cmdtxtoargcom{cmdName};
 \cmdName[sub][sub][arg] = CMDNAMESUB(ARG)
 • \cmdtxtoargcom{cmdName}[newName];
 \cmdName[sub][sub][arg] = NEWNAMESUB(ARG)
506 \newcommandx{\cmdtxtoargcom}[2][2=]
507 {\usrtxt{#1}{-}{oargcom}{#2}}

\cmdtxtparcom ... to do!
 • \cmdtxtparcom{cmdName};
 \cmdName[sub][sub][ext1]{par}[ext2] = CMDNAMESUBEXT1[PAR]EXT2
 • \cmdtxtparcom{cmdName}[newName];
 \cmdName[sub][sub][ext1]{par}[ext2] = NEWNAMESUBEXT1[PAR]EXT2
508 \newcommandx{\cmdtxtparcom}[2][2=]
509 {\usrtxt{#1}{-}{parcom}{#2}}

\cmdtxtoparcom ... to do!
 • \cmdtxtoparcom{cmdName};
 \cmdName[sub][sub][par] = CMDNAMESUB[PAR]
 • \cmdtxtoparcom{cmdName}[newName];
 \cmdName[sub][sub][par] = NEWNAMESUB[PAR]
510 \newcommandx{\cmdtxtoparcom}[2][2=]
511 {\usrtxt{#1}{-}{oparcom}{#2}}

512 \fi
513 %%*****%

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514 %*****%
515 %** Math Macro Generators *****%
516 %*****%
517 \ifmthgen@

```

\mthname, ... to do!

- \mthname{NAME}[sub][sup][Ext] =  $\mathcal{NAME}_{sub}^{sup}Ext$
- \mthargname{NAME}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] =  $\mathcal{NAME}_{sub}^{sup}Ext1\left(Arg^{Ex^{Ex}}\right)Ext2$
- \mthargname\*{NAME}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] =  $\mathcal{NAME}_{sub}^{sup}Ext1\left(Arg^{Ex^{Ex}}\right)Ext2$
- \mthparname{NAME}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] =  $\mathcal{NAME}_{sub}^{sup}Ext1\left[Par^{Ex^{Ex}}\right]Ext2$
- \mthparname\*{NAME}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] =  $\mathcal{NAME}_{sub}^{sup}Ext1\left[Par^{Ex^{Ex}}\right]Ext2$

518 % Style for Names

519 \cmdmthall{name}\newcommand{\mthstname}{\mathcal}

\Aname, ... to do!

$A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z$

520 \seqoflatupp{Name}{mthname}

\cmdmthname ... to do!

- \cmdmthname{CMDNAME};  
\CMDNAMEName[sub][sub][ext] =  $CMDNAME_{sub}^{sub}ext$
- \cmdmthname{cmdName}{NEWNAME};  
\cmdNameName[sub][sub][ext] =  $\mathcal{NEWNAME}_{sub}^{sub}ext$

521 \newcommandx{\cmdmthname}[2][2=]

522 {\usrmth{#1}{Name}{name}[#2]}

\cmdmthargname ... to do!

- \cmdmthargname{CMDNAME};  
\CMDNAMEName[sub][sub][ext1]{arg}[ext2] =  $CMDNAME_{sub}^{sub}ext1(arg)ext2$
- \cmdmthargname{cmdName}{NEWNAME};  
\cmdNameName[sub][sub][ext1]{arg}[ext2] =  $\mathcal{NEWNAME}_{sub}^{sub}ext1(arg)ext2$

523 \newcommandx{\cmdmthargname}[2][2=]

524 {\usrmth{#1}{Name}{argname}[#2]}

\cmdmthoargname ... to do!

- \cmdmthoargname{CMDNAME};  
\CMDNAMEName[sub][sub][arg] =  $CMDNAME_{sub}^{sub}(arg)$
- \cmdmthoargname{cmdName}{NEWNAME};  
\cmdNameName[sub][sub][arg] =  $\mathcal{NEWNAME}_{sub}^{sub}(arg)$

525 \newcommandx{\cmdmthoargname}[2][2=]

526 {\usrmth{#1}{Name}{oargname}[#2]}

\cmdmthparname ... to do!

- \cmdmthparname{CMDNAME};  
\CMDNAMEName[sub][sub][ext1]{par}[ext2] =  $CMDNAME_{sub}^{sub}ext1[par]ext2$
- \cmdmthparname{cmdName}{NEWNAME};  
\cmdNameName[sub][sub][ext1]{par}[ext2] =  $\mathcal{NEWNAME}_{sub}^{sub}ext1[par]ext2$

527 \newcommandx{\cmdmthparname}[2][2=]

528 {\usrmth{#1}{Name}{parname}[#2]}

\cmdmthoparname ... to do!

- \cmdmthoparname{CMDNAME};  
\CMDNAMEName[sub][sub][par] =  $CMDNAME_{sub}^{sub}[par]$
- \cmdmthoparname{cmdName}{NEWNAME};  
\cmdNameName[sub][sub][par] =  $\mathcal{NEWNAME}_{sub}^{sub}[par]$

```

529 \newcommandx{\cmdmthoparname}[2][2=]
530 {\usrmth{#1}{Name}{oparname}[#2]}

\mthfam, to do!
 • \mthfam{NAME}[sub][sup][Ext] = $\mathcal{N}\mathcal{A}\mathcal{M}\mathcal{E}_{sub}^{sup}Ext$
 • \mthargfam{NAME}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = $\mathcal{N}\mathcal{A}\mathcal{M}\mathcal{E}_{sub}^{sup}Ext1\left(Arg^{Ex^{Ex}}\right)Ext2$
 • \mthargfam*{NAME}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = $\mathcal{N}\mathcal{A}\mathcal{M}\mathcal{E}_{sub}^{sup}Ext1\left(Arg^{Ex^{Ex}}\right)Ext2$
 • \mthparfam{NAME}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = $\mathcal{N}\mathcal{A}\mathcal{M}\mathcal{E}_{sub}^{sup}Ext1\left[Par^{Ex^{Ex}}\right]Ext2$
 • \mthparfam*{NAME}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = $\mathcal{N}\mathcal{A}\mathcal{M}\mathcal{E}_{sub}^{sup}Ext1\left[Par^{Ex^{Ex}}\right]Ext2$
531 %% Style for Families
532 \cmdmthall{fam}\newcommand{\mthstyfam}{\mathscr}

\AFam, to do!
 $\mathcal{A}, \mathcal{B}, \mathcal{C}, \mathcal{D}, \mathcal{E}, \mathcal{F}, \mathcal{G}, \mathcal{H}, \mathcal{I}, \mathcal{J}, \mathcal{K}, \mathcal{L}, \mathcal{M}, \mathcal{N}, \mathcal{O}, \mathcal{P}, \mathcal{Q}, \mathcal{R}, \mathcal{S}, \mathcal{T}, \mathcal{U}, \mathcal{V}, \mathcal{W}, \mathcal{X}, \mathcal{Y}, \mathcal{Z}$
533 \seqoflatupp{Fam}{mthfam}

\cmdmthfam ... to do!
 • \cmdmthfam{CMDNAME};
 \CMDNAMEFam[sub][sub][ext] = $\mathcal{C}\mathcal{M}\mathcal{D}\mathcal{N}\mathcal{A}\mathcal{M}\mathcal{E}_{sub}^{sub}ext$
 • \cmdmthfam{cmdName}{NEWNAME};
 \cmdNameFam[sub][sub][ext] = $\mathcal{N}\mathcal{E}\mathcal{W}\mathcal{N}\mathcal{A}\mathcal{M}\mathcal{E}_{sub}^{sub}ext$
534 \newcommandx{\cmdmthfam}[2][2=]
535 {\usrmth{#1}{Fam}{fam}[#2]}

\cmdmthargfam ... to do!
 • \cmdmthargfam{CMDNAME};
 \CMDNAMEFam[sub][sub][ext1]{arg}[ext2] = $\mathcal{C}\mathcal{M}\mathcal{D}\mathcal{N}\mathcal{A}\mathcal{M}\mathcal{E}_{sub}^{sub}ext1(arg)ext2$
 • \cmdmthargfam{cmdName}{NEWNAME};
 \cmdNameFam[sub][sub][ext1]{arg}[ext2] = $\mathcal{N}\mathcal{E}\mathcal{W}\mathcal{N}\mathcal{A}\mathcal{M}\mathcal{E}_{sub}^{sub}ext1(arg)ext2$
536 \newcommandx{\cmdmthargfam}[2][2=]
537 {\usrmth{#1}{Fam}{argfam}[#2]}

\cmdmthoargfam ... to do!
 • \cmdmthoargfam{CMDNAME};
 \CMDNAMEFam[sub][sub][arg] = $\mathcal{C}\mathcal{M}\mathcal{D}\mathcal{N}\mathcal{A}\mathcal{M}\mathcal{E}_{sub}^{sub}(arg)$
 • \cmdmthoargfam{cmdFam}{NEWNAME};
 \cmdFamFam[sub][sub][arg] = $\mathcal{N}\mathcal{E}\mathcal{W}\mathcal{N}\mathcal{A}\mathcal{M}\mathcal{E}_{sub}^{sub}(arg)$
538 \newcommandx{\cmdmthoargfam}[2][2=]
539 {\usrmth{#1}{Fam}{oargfam}[#2]}

\cmdmthparfam ... to do!
 • \cmdmthparfam{CMDNAME};
 \CMDNAMEFam[sub][sub][ext1]{par}[ext2] = $\mathcal{C}\mathcal{M}\mathcal{D}\mathcal{N}\mathcal{A}\mathcal{M}\mathcal{E}_{sub}^{sub}ext1[par]ext2$
 • \cmdmthparfam{cmdName}{NEWNAME};
 \cmdNameFam[sub][sub][ext1]{par}[ext2] = $\mathcal{N}\mathcal{E}\mathcal{W}\mathcal{N}\mathcal{A}\mathcal{M}\mathcal{E}_{sub}^{sub}ext1[par]ext2$
540 \newcommandx{\cmdmthparfam}[2][2=]
541 {\usrmth{#1}{Fam}{parfam}[#2]}

\cmdmthoparfam ... to do!
 • \cmdmthoparfam{CMDNAME};
 \CMDNAMEFam[sub][sub][par] = $\mathcal{C}\mathcal{M}\mathcal{D}\mathcal{N}\mathcal{A}\mathcal{M}\mathcal{E}_{sub}^{sub}[par]$
 • \cmdmthoparfam{cmdFam}{NEWNAME};
 \cmdFamFam[sub][sub][par] = $\mathcal{N}\mathcal{E}\mathcal{W}\mathcal{N}\mathcal{A}\mathcal{M}\mathcal{E}_{sub}^{sub}[par]$
542 \newcommandx{\cmdmthoparfam}[2][2=]
543 {\usrmth{#1}{Fam}{oparfam}[#2]}

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\mthcls, to do!
 • \mthcls{NAME}[sub][sup][Ext] = $\mathcal{NAME}_{sub}^{sup}Ext$
 • \mthargcls{NAME}[sub][sup][Ext1]{ArgExEx}[Ext2] = $\mathcal{NAME}_{sub}^{sup}Ext1\left(Arg^{Ex^{Ex}}\right)Ext2$
 • \mthargcls*{NAME}[sub][sup][Ext1]{ArgExEx}[Ext2] = $\mathcal{NAME}_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2$
 • \mthparcls{NAME}[sub][sup][Ext1]{ParExEx}[Ext2] = $\mathcal{NAME}_{sub}^{sup}Ext1\left[Par^{Ex^{Ex}}\right]Ext2$
 • \mthparcls*{NAME}[sub][sup][Ext1]{ParExEx}[Ext2] = $\mathcal{NAME}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2$
544 %% Style for Classes
545 \cmdmthall{cls}\newcommand{\mthstycls}{\matheus}

\ACls, 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
546 \seqoflatupp{Cls}{mthcls}

\cmdmthcls ... to do!
 • \cmdmthcls{CMDNAME};
 \CMDNAMECls[sub][sub][ext] = $\mathcal{CMDNAME}_{sub}^{sub}ext$
 • \cmdmthcls{cmdName}[NEWNAME];
 \cmdNameCls[sub][sub][ext] = $\mathcal{NEWNAME}_{sub}^{sub}ext$
547 \newcommandx{\cmdmthcls}[2][2=]
548 {\usrmth{#1}{Cls}{cls}[#2]}

\cmdmthargcls ... to do!
 • \cmdmthargcls{CMDNAME};
 \CMDNAMECls[sub][sub][ext1]{arg}[ext2] = $\mathcal{CMDNAME}_{sub}^{sub}ext1(arg)ext2$
 • \cmdmthargcls{cmdName}[NEWNAME];
 \cmdNameCls[sub][sub][ext1]{arg}[ext2] = $\mathcal{NEWNAME}_{sub}^{sub}ext1(arg)ext2$
549 \newcommandx{\cmdmthargcls}[2][2=]
550 {\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] = $\mathcal{NEWNAME}_{sub}^{sub}(arg)$
551 \newcommandx{\cmdmthoargcls}[2][2=]
552 {\usrmth{#1}{Cls}{oargcls}[#2]}

\cmdmthparcls ... to do!
 • \cmdmthparcls{CMDNAME};
 \CMDNAMECls[sub][sub][ext1]{par}[ext2] = $\mathcal{CMDNAME}_{sub}^{sub}ext1[par]ext2$
 • \cmdmthparcls{cmdName}[NEWNAME];
 \cmdNameCls[sub][sub][ext1]{par}[ext2] = $\mathcal{NEWNAME}_{sub}^{sub}ext1[par]ext2$
553 \newcommandx{\cmdmthparcls}[2][2=]
554 {\usrmth{#1}{Cls}{parcls}[#2]}

\cmdmthoparcls ... to do!
 • \cmdmthoparcls{CMDNAME};
 \CMDNAMECls[sub][sub][par] = $\mathcal{CMDNAME}_{sub}^{sub}[par]$
 • \cmdmthoparcls{cmdCls}[NEWNAME];
 \cmdClsCls[sub][sub][par] = $\mathcal{NEWNAME}_{sub}^{sub}[par]$
555 \newcommandx{\cmdmthoparcls}[2][2=]
556 {\usrmth{#1}{Cls}{oparcls}[#2]}

\mthsig, to do!
 • \mthsig{Name}[sub][sup][Ext] = $\mathcal{ame}_{sub}^{sup}Ext$

```

- $\backslash\mathrm{mthargsig}\{\mathrm{Name}\}[\mathrm{sub}][\mathrm{sup}][\mathrm{Ext1}]\{\mathrm{Arg}^{\mathrm{Ex}^{\mathrm{Ex}}}\}[\mathrm{Ext2}] = \mathcal{N}\mathrm{ame}_{\mathrm{sub}}^{\mathrm{sup}}\mathrm{Ext1}\left(\mathrm{Arg}^{\mathrm{Ex}^{\mathrm{Ex}}}\right)\mathrm{Ext2}$
- $\backslash\mathrm{mthargsig}^*\{\mathrm{Name}\}[\mathrm{sub}][\mathrm{sup}][\mathrm{Ext1}]\{\mathrm{Arg}^{\mathrm{Ex}^{\mathrm{Ex}}}\}[\mathrm{Ext2}] = \mathcal{N}\mathrm{ame}_{\mathrm{sub}}^{\mathrm{sup}}\mathrm{Ext1}\left(\mathrm{Arg}^{\mathrm{Ex}^{\mathrm{Ex}}}\right)\mathrm{Ext2}$
- $\backslash\mathrm{mthparsig}\{\mathrm{Name}\}[\mathrm{sub}][\mathrm{sup}][\mathrm{Ext1}]\{\mathrm{Par}^{\mathrm{Ex}^{\mathrm{Ex}}}\}[\mathrm{Ext2}] = \mathcal{N}\mathrm{ame}_{\mathrm{sub}}^{\mathrm{sup}}\mathrm{Ext1}\left[\mathrm{Par}^{\mathrm{Ex}^{\mathrm{Ex}}}\right]\mathrm{Ext2}$
- $\backslash\mathrm{mthparsig}^*\{\mathrm{Name}\}[\mathrm{sub}][\mathrm{sup}][\mathrm{Ext1}]\{\mathrm{Par}^{\mathrm{Ex}^{\mathrm{Ex}}}\}[\mathrm{Ext2}] = \mathcal{N}\mathrm{ame}_{\mathrm{sub}}^{\mathrm{sup}}\mathrm{Ext1}\left[\mathrm{Par}^{\mathrm{Ex}^{\mathrm{Ex}}}\right]\mathrm{Ext2}$

557 %% Style for Signatures

558  $\backslash\mathrm{cmdmthall}\{\mathrm{sig}\}\backslash\mathrm{newcommand}\{\mathrm{mthstysig}\}\{\mathrm{mathpzc}\}$

$\backslash\mathrm{aSig}$ , ... ... to do!

$a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z$   
 $\mathcal{A}, \mathcal{B}, \mathcal{C}, \mathcal{D}, \mathcal{E}, \mathcal{F}, \mathcal{G}, \mathcal{H}, \mathcal{I}, \mathcal{J}, \mathcal{K}, \mathcal{L}, \mathcal{M}, \mathcal{N}, \mathcal{O}, \mathcal{P}, \mathcal{Q}, \mathcal{R}, \mathcal{S}, \mathcal{T}, \mathcal{U}, \mathcal{V}, \mathcal{W}, \mathcal{X}, \mathcal{Y}, \mathcal{Z}$   
 $\alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, \omicron, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega$

559  $\backslash\mathrm{seqoflatlet}\{\mathrm{Sig}\}\{\mathrm{mthsig}\}\backslash\mathrm{seqofgrklow}\{\mathrm{Sig}\}\{\mathrm{mthsig}\}$

$\backslash\mathrm{cmdmthsig}$  ... to do!

- $\backslash\mathrm{cmdmthsig}\{\mathrm{cmdName}\};$   
 $\backslash\mathrm{cmdNameSig}[\mathrm{sub}][\mathrm{sub}][\mathrm{ext}] = \mathrm{cmd}\mathcal{N}\mathrm{ame}_{\mathrm{sub}}^{\mathrm{sub}}\mathrm{ext}$
- $\backslash\mathrm{cmdmthsig}\{\mathrm{cmdName}\}[\mathrm{NewName}];$   
 $\backslash\mathrm{cmdNameSig}[\mathrm{sub}][\mathrm{sub}][\mathrm{ext}] = \mathcal{N}\mathrm{ew}\mathcal{N}\mathrm{ame}_{\mathrm{sub}}^{\mathrm{sub}}\mathrm{ext}$

560  $\backslash\mathrm{newcommandx}\{\backslash\mathrm{cmdmthsig}\}[2][2=]$

561  $\{\backslash\mathrm{usrmth}\{\#1\}\{\mathrm{Sig}\}\{\mathrm{sig}\}\{\#2\}\}$

$\backslash\mathrm{cmdmthargsig}$  ... to do!

- $\backslash\mathrm{cmdmthargsig}\{\mathrm{cmdName}\};$   
 $\backslash\mathrm{cmdNameSig}[\mathrm{sub}][\mathrm{sub}][\mathrm{ext1}]\{\mathrm{arg}\}[\mathrm{ext2}] = \mathrm{cmd}\mathcal{N}\mathrm{ame}_{\mathrm{sub}}^{\mathrm{sub}}\mathrm{ext1}(\mathrm{arg})\mathrm{ext2}$
- $\backslash\mathrm{cmdmthargsig}\{\mathrm{cmdName}\}[\mathrm{NewName}];$   
 $\backslash\mathrm{cmdNameSig}[\mathrm{sub}][\mathrm{sub}][\mathrm{ext1}]\{\mathrm{arg}\}[\mathrm{ext2}] = \mathcal{N}\mathrm{ew}\mathcal{N}\mathrm{ame}_{\mathrm{sub}}^{\mathrm{sub}}\mathrm{ext1}(\mathrm{arg})\mathrm{ext2}$

562  $\backslash\mathrm{newcommandx}\{\backslash\mathrm{cmdmthargsig}\}[2][2=]$

563  $\{\backslash\mathrm{usrmth}\{\#1\}\{\mathrm{Sig}\}\{\mathrm{argsig}\}\{\#2\}\}$

$\backslash\mathrm{cmdmthoargsig}$  ... to do!

- $\backslash\mathrm{cmdmthoargsig}\{\mathrm{cmdName}\};$   
 $\backslash\mathrm{cmdNameSig}[\mathrm{sub}][\mathrm{sub}][\mathrm{arg}] = \mathrm{cmd}\mathcal{N}\mathrm{ame}_{\mathrm{sub}}^{\mathrm{sub}}(\mathrm{arg})$
- $\backslash\mathrm{cmdmthoargsig}\{\mathrm{cmdSig}\}[\mathrm{NewName}];$   
 $\backslash\mathrm{cmdSigSig}[\mathrm{sub}][\mathrm{sub}][\mathrm{arg}] = \mathcal{N}\mathrm{ew}\mathcal{N}\mathrm{ame}_{\mathrm{sub}}^{\mathrm{sub}}(\mathrm{arg})$

564  $\backslash\mathrm{newcommandx}\{\backslash\mathrm{cmdmthoargsig}\}[2][2=]$

565  $\{\backslash\mathrm{usrmth}\{\#1\}\{\mathrm{Sig}\}\{\mathrm{oargsig}\}\{\#2\}\}$

$\backslash\mathrm{cmdmthparsig}$  ... to do!

- $\backslash\mathrm{cmdmthparsig}\{\mathrm{cmdName}\};$   
 $\backslash\mathrm{cmdNameSig}[\mathrm{sub}][\mathrm{sub}][\mathrm{ext1}]\{\mathrm{par}\}[\mathrm{ext2}] = \mathrm{cmd}\mathcal{N}\mathrm{ame}_{\mathrm{sub}}^{\mathrm{sub}}\mathrm{ext1}[\mathrm{par}]\mathrm{ext2}$
- $\backslash\mathrm{cmdmthparsig}\{\mathrm{cmdName}\}[\mathrm{NewName}];$   
 $\backslash\mathrm{cmdNameSig}[\mathrm{sub}][\mathrm{sub}][\mathrm{ext1}]\{\mathrm{par}\}[\mathrm{ext2}] = \mathcal{N}\mathrm{ew}\mathcal{N}\mathrm{ame}_{\mathrm{sub}}^{\mathrm{sub}}\mathrm{ext1}[\mathrm{par}]\mathrm{ext2}$

566  $\backslash\mathrm{newcommandx}\{\backslash\mathrm{cmdmthparsig}\}[2][2=]$

567  $\{\backslash\mathrm{usrmth}\{\#1\}\{\mathrm{Sig}\}\{\mathrm{parsig}\}\{\#2\}\}$

$\backslash\mathrm{cmdmthoparsig}$  ... to do!

- $\backslash\mathrm{cmdmthoparsig}\{\mathrm{cmdName}\};$   
 $\backslash\mathrm{cmdNameSig}[\mathrm{sub}][\mathrm{sub}][\mathrm{par}] = \mathrm{cmd}\mathcal{N}\mathrm{ame}_{\mathrm{sub}}^{\mathrm{sub}}[\mathrm{par}]$
- $\backslash\mathrm{cmdmthoparsig}\{\mathrm{cmdSig}\}[\mathrm{NewName}];$   
 $\backslash\mathrm{cmdSigSig}[\mathrm{sub}][\mathrm{sub}][\mathrm{par}] = \mathcal{N}\mathrm{ew}\mathcal{N}\mathrm{ame}_{\mathrm{sub}}^{\mathrm{sub}}[\mathrm{par}]$

568  $\backslash\mathrm{newcommandx}\{\backslash\mathrm{cmdmthoparsig}\}[2][2=]$

569  $\{\backslash\mathrm{usrmth}\{\#1\}\{\mathrm{Sig}\}\{\mathrm{oparsig}\}\{\#2\}\}$

$\backslash\mathrm{mthstr}$ , ... ... to do!

- $\backslash\mathrm{mthstr}\{\mathrm{Name}\}[\mathrm{sub}][\mathrm{sup}][\mathrm{Ext}] = \mathcal{N}\mathrm{ame}_{\mathrm{sub}}^{\mathrm{sup}}\mathrm{Ext}$
- $\backslash\mathrm{mthargstr}\{\mathrm{Name}\}[\mathrm{sub}][\mathrm{sup}][\mathrm{Ext1}]\{\mathrm{Arg}^{\mathrm{Ex}^{\mathrm{Ex}}}\}[\mathrm{Ext2}] = \mathcal{N}\mathrm{ame}_{\mathrm{sub}}^{\mathrm{sup}}\mathrm{Ext1}\left(\mathrm{Arg}^{\mathrm{Ex}^{\mathrm{Ex}}}\right)\mathrm{Ext2}$

- $\backslash\mathrm{mthargstr}\{Name\}[\mathrm{sub}][\mathrm{sup}][\mathrm{Ext1}]\{\mathrm{Arg}^{\mathrm{Ex}}\{\mathrm{Ex}\}\}[\mathrm{Ext2}] = \mathfrak{Name}_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2$
- $\backslash\mathrm{mthparstr}\{Name\}[\mathrm{sub}][\mathrm{sup}][\mathrm{Ext1}]\{\mathrm{Par}^{\mathrm{Ex}}\{\mathrm{Ex}\}\}[\mathrm{Ext2}] = \mathfrak{Name}_{sub}^{sup}Ext1\left[Par^{Ex^{Ex}}\right]Ext2$
- $\backslash\mathrm{mthparstr}\{Name\}[\mathrm{sub}][\mathrm{sup}][\mathrm{Ext1}]\{\mathrm{Par}^{\mathrm{Ex}}\{\mathrm{Ex}\}\}[\mathrm{Ext2}] = \mathfrak{Name}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2$

570 %% Style for Structures

571  $\backslash\mathrm{cmdmthall}\{\mathrm{str}\}\backslash\mathrm{newcommand}\{\backslash\mathrm{mthstyststr}\}\{\mathrm{mathfrakak}\}$

$\backslash\mathrm{aStr}, \dots$  ... 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  
 $\mathfrak{A}, \mathfrak{B}, \mathfrak{C}, \mathfrak{D}, \mathfrak{E}, \mathfrak{F}, \mathfrak{G}, \mathfrak{H}, \mathfrak{I}, \mathfrak{J}, \mathfrak{K}, \mathfrak{L}, \mathfrak{M}, \mathfrak{N}, \mathfrak{O}, \mathfrak{P}, \mathfrak{Q}, \mathfrak{R}, \mathfrak{S}, \mathfrak{T}, \mathfrak{U}, \mathfrak{V}, \mathfrak{W}, \mathfrak{X}, \mathfrak{Y}, \mathfrak{Z}$   
 $\alpha, \beta, \gamma, \delta, \epsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \lambda, \mu, \nu, \xi, \omicron, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega$

572  $\backslash\mathrm{seqoflatlet}\{\mathrm{Str}\}\{\mathrm{mthstr}\}\backslash\mathrm{seqofgrklow}\{\mathrm{Str}\}\{\mathrm{mthstr}\}$

$\backslash\mathrm{cmdmthstr}$  ... to do!

- $\backslash\mathrm{cmdmthstr}\{\mathrm{cmdName}\};$   
 $\backslash\mathrm{cmdNameStr}[\mathrm{sub}][\mathrm{sub}][\mathrm{ext}] = \mathrm{cmd}\mathfrak{Name}_{sub}^{sub}ext$
- $\backslash\mathrm{cmdmthstr}\{\mathrm{cmdName}\}[\mathrm{NewName}];$   
 $\backslash\mathrm{cmdNameStr}[\mathrm{sub}][\mathrm{sub}][\mathrm{ext}] = \mathfrak{New}\mathfrak{Name}_{sub}^{sub}ext$

573  $\backslash\mathrm{newcommandx}\{\backslash\mathrm{cmdmthstr}\}[2][2=]$

574  $\{\backslash\mathrm{usrmth}\{\#1\}\{\mathrm{Str}\}\{\mathrm{str}\}\{\#2\}\}$

$\backslash\mathrm{cmdmthargstr}$  ... to do!

- $\backslash\mathrm{cmdmthargstr}\{\mathrm{cmdName}\};$   
 $\backslash\mathrm{cmdNameStr}[\mathrm{sub}][\mathrm{sub}][\mathrm{ext1}]\{\mathrm{arg}\}[\mathrm{ext2}] = \mathrm{cmd}\mathfrak{Name}_{sub}^{sub}ext1(arg)ext2$
- $\backslash\mathrm{cmdmthargstr}\{\mathrm{cmdName}\}[\mathrm{NewName}];$   
 $\backslash\mathrm{cmdNameStr}[\mathrm{sub}][\mathrm{sub}][\mathrm{ext1}]\{\mathrm{arg}\}[\mathrm{ext2}] = \mathfrak{New}\mathfrak{Name}_{sub}^{sub}ext1(arg)ext2$

575  $\backslash\mathrm{newcommandx}\{\backslash\mathrm{cmdmthargstr}\}[2][2=]$

576  $\{\backslash\mathrm{usrmth}\{\#1\}\{\mathrm{Str}\}\{\mathrm{argstr}\}\{\#2\}\}$

$\backslash\mathrm{cmdmthoargstr}$  ... to do!

- $\backslash\mathrm{cmdmthoargstr}\{\mathrm{cmdName}\};$   
 $\backslash\mathrm{cmdNameStr}[\mathrm{sub}][\mathrm{sub}][\mathrm{arg}] = \mathrm{cmd}\mathfrak{Name}_{sub}^{sub}(arg)$
- $\backslash\mathrm{cmdmthoargstr}\{\mathrm{cmdStr}\}[\mathrm{NewName}];$   
 $\backslash\mathrm{cmdStrStr}[\mathrm{sub}][\mathrm{sub}][\mathrm{arg}] = \mathfrak{New}\mathfrak{Name}_{sub}^{sub}(arg)$

577  $\backslash\mathrm{newcommandx}\{\backslash\mathrm{cmdmthoargstr}\}[2][2=]$

578  $\{\backslash\mathrm{usrmth}\{\#1\}\{\mathrm{Str}\}\{\mathrm{oargstr}\}\{\#2\}\}$

$\backslash\mathrm{cmdmthparstr}$  ... to do!

- $\backslash\mathrm{cmdmthparstr}\{\mathrm{cmdName}\};$   
 $\backslash\mathrm{cmdNameStr}[\mathrm{sub}][\mathrm{sub}][\mathrm{ext1}]\{\mathrm{par}\}[\mathrm{ext2}] = \mathrm{cmd}\mathfrak{Name}_{sub}^{sub}ext1[par]ext2$
- $\backslash\mathrm{cmdmthparstr}\{\mathrm{cmdName}\}[\mathrm{NewName}];$   
 $\backslash\mathrm{cmdNameStr}[\mathrm{sub}][\mathrm{sub}][\mathrm{ext1}]\{\mathrm{par}\}[\mathrm{ext2}] = \mathfrak{New}\mathfrak{Name}_{sub}^{sub}ext1[par]ext2$

579  $\backslash\mathrm{newcommandx}\{\backslash\mathrm{cmdmthparstr}\}[2][2=]$

580  $\{\backslash\mathrm{usrmth}\{\#1\}\{\mathrm{Str}\}\{\mathrm{parstr}\}\{\#2\}\}$

$\backslash\mathrm{cmdmthoparstr}$  ... to do!

- $\backslash\mathrm{cmdmthoparstr}\{\mathrm{cmdName}\};$   
 $\backslash\mathrm{cmdNameStr}[\mathrm{sub}][\mathrm{sub}][\mathrm{par}] = \mathrm{cmd}\mathfrak{Name}_{sub}^{sub}[par]$
- $\backslash\mathrm{cmdmthoparstr}\{\mathrm{cmdStr}\}[\mathrm{NewName}];$   
 $\backslash\mathrm{cmdStrStr}[\mathrm{sub}][\mathrm{sub}][\mathrm{par}] = \mathfrak{New}\mathfrak{Name}_{sub}^{sub}[par]$

581  $\backslash\mathrm{newcommandx}\{\backslash\mathrm{cmdmthoparstr}\}[2][2=]$

582  $\{\backslash\mathrm{usrmth}\{\#1\}\{\mathrm{Str}\}\{\mathrm{oparstr}\}\{\#2\}\}$

$\backslash\mathrm{mthset}, \dots$  ... to do!

- $\backslash\mathrm{mthset}\{Name\}[\mathrm{sub}][\mathrm{sup}][\mathrm{Ext}] = \mathrm{Name}_{sub}^{sup}Ext$
- $\backslash\mathrm{mthargset}\{Name\}[\mathrm{sub}][\mathrm{sup}][\mathrm{Ext1}]\{\mathrm{Arg}^{\mathrm{Ex}}\{\mathrm{Ex}\}\}[\mathrm{Ext2}] = \mathrm{Name}_{sub}^{sup}Ext1\left(Arg^{Ex^{Ex}}\right)Ext2$
- $\backslash\mathrm{mthargset}\{Name\}[\mathrm{sub}][\mathrm{sup}][\mathrm{Ext1}]\{\mathrm{Arg}^{\mathrm{Ex}}\{\mathrm{Ex}\}\}[\mathrm{Ext2}] = \mathrm{Name}_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2$



- $\backslash\mathrm{mthparset}\{\mathrm{Name}\}[\mathrm{sub}][\mathrm{sup}][\mathrm{Ext1}]\{\mathrm{Par}^{\mathrm{Ex}^{\mathrm{Ex}}}\}[\mathrm{Ext2}] = \mathrm{Name}_{\mathrm{sub}}^{\mathrm{sup}}\mathrm{Ext1}\left[\mathrm{Par}^{\mathrm{Ex}^{\mathrm{Ex}}}\right]\mathrm{Ext2}$
- $\backslash\mathrm{mthparset}^*\{\mathrm{Name}\}[\mathrm{sub}][\mathrm{sup}][\mathrm{Ext1}]\{\mathrm{Par}^{\mathrm{Ex}^{\mathrm{Ex}}}\}[\mathrm{Ext2}] = \mathrm{Name}_{\mathrm{sub}}^{\mathrm{sup}}\mathrm{Ext1}[\mathrm{Par}^{\mathrm{Ex}^{\mathrm{Ex}}}]\mathrm{Ext2}$

583 %% Style for Sets

584  $\backslash\mathrm{cmdmthall}\{\mathrm{set}\}\backslash\mathrm{newcommand}\{\backslash\mathrm{mthstyset}\}\{\mathrm{mathrm}\}$

$\backslash\mathrm{aSet}, \dots$  ... 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  
 $\alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, \omicron, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega$   
 $\mathrm{A}, \mathrm{B}, \mathrm{I}, \Delta, \mathrm{E}, \mathrm{E}, \mathrm{Z}, \mathrm{H}, \Theta, \Theta, \mathrm{I}, \mathrm{K}, \mathrm{K}, \Lambda, \mathrm{M}, \mathrm{N}, \Xi, \mathrm{O}, \Pi, \mathrm{II}, \mathrm{P}, \mathrm{P}, \Sigma, \Sigma, \mathrm{T}, \Upsilon, \Phi, \Phi, \mathrm{X}, \Psi, \Omega$   
585  $\backslash\mathrm{seqoflet}\{\mathrm{Set}\}\{\mathrm{mthset}\}$

$\backslash\mathrm{cmdmthset}$  ... to do!

- $\backslash\mathrm{cmdmthset}\{\mathrm{cmdName}\};$   
 $\backslash\mathrm{cmdNameSet}[\mathrm{sub}][\mathrm{sub}][\mathrm{ext}] = \mathrm{cmdName}_{\mathrm{sub}}^{\mathrm{sub}}\mathrm{ext}$
- $\backslash\mathrm{cmdmthset}\{\mathrm{cmdName}\}[\mathrm{NewName}];$   
 $\backslash\mathrm{cmdNameSet}[\mathrm{sub}][\mathrm{sub}][\mathrm{ext}] = \mathrm{NewName}_{\mathrm{sub}}^{\mathrm{sub}}\mathrm{ext}$

586  $\backslash\mathrm{newcommandx}\{\backslash\mathrm{cmdmthset}\}[2][2=]$   
587  $\{\backslash\mathrm{usrmth}\{\#1\}\{\mathrm{Set}\}\{\mathrm{set}\}\{\#2\}\}$

$\backslash\mathrm{cmdmthargset}$  ... to do!

- $\backslash\mathrm{cmdmthargset}\{\mathrm{cmdName}\};$   
 $\backslash\mathrm{cmdNameSet}[\mathrm{sub}][\mathrm{sub}][\mathrm{ext1}]\{\mathrm{arg}\}[\mathrm{ext2}] = \mathrm{cmdName}_{\mathrm{sub}}^{\mathrm{sub}}\mathrm{ext1}(\mathrm{arg})\mathrm{ext2}$
- $\backslash\mathrm{cmdmthargset}\{\mathrm{cmdName}\}[\mathrm{NewName}];$   
 $\backslash\mathrm{cmdNameSet}[\mathrm{sub}][\mathrm{sub}][\mathrm{ext1}]\{\mathrm{arg}\}[\mathrm{ext2}] = \mathrm{NewName}_{\mathrm{sub}}^{\mathrm{sub}}\mathrm{ext1}(\mathrm{arg})\mathrm{ext2}$

588  $\backslash\mathrm{newcommandx}\{\backslash\mathrm{cmdmthargset}\}[2][2=]$   
589  $\{\backslash\mathrm{usrmth}\{\#1\}\{\mathrm{Set}\}\{\mathrm{argset}\}\{\#2\}\}$

$\backslash\mathrm{cmdmthoargset}$  ... to do!

- $\backslash\mathrm{cmdmthoargset}\{\mathrm{cmdName}\};$   
 $\backslash\mathrm{cmdNameSet}[\mathrm{sub}][\mathrm{sub}][\mathrm{arg}] = \mathrm{cmdName}_{\mathrm{sub}}^{\mathrm{sub}}(\mathrm{arg})$
- $\backslash\mathrm{cmdmthoargset}\{\mathrm{cmdSet}\}[\mathrm{NewName}];$   
 $\backslash\mathrm{cmdSetSet}[\mathrm{sub}][\mathrm{sub}][\mathrm{arg}] = \mathrm{NewName}_{\mathrm{sub}}^{\mathrm{sub}}(\mathrm{arg})$

590  $\backslash\mathrm{newcommandx}\{\backslash\mathrm{cmdmthoargset}\}[2][2=]$   
591  $\{\backslash\mathrm{usrmth}\{\#1\}\{\mathrm{Set}\}\{\mathrm{oargset}\}\{\#2\}\}$

$\backslash\mathrm{cmdmthparset}$  ... to do!

- $\backslash\mathrm{cmdmthparset}\{\mathrm{cmdName}\};$   
 $\backslash\mathrm{cmdNameSet}[\mathrm{sub}][\mathrm{sub}][\mathrm{ext1}]\{\mathrm{par}\}[\mathrm{ext2}] = \mathrm{cmdName}_{\mathrm{sub}}^{\mathrm{sub}}\mathrm{ext1}[\mathrm{par}]\mathrm{ext2}$
- $\backslash\mathrm{cmdmthparset}\{\mathrm{cmdName}\}[\mathrm{NewName}];$   
 $\backslash\mathrm{cmdNameSet}[\mathrm{sub}][\mathrm{sub}][\mathrm{ext1}]\{\mathrm{par}\}[\mathrm{ext2}] = \mathrm{NewName}_{\mathrm{sub}}^{\mathrm{sub}}\mathrm{ext1}[\mathrm{par}]\mathrm{ext2}$

592  $\backslash\mathrm{newcommandx}\{\backslash\mathrm{cmdmthparset}\}[2][2=]$   
593  $\{\backslash\mathrm{usrmth}\{\#1\}\{\mathrm{Set}\}\{\mathrm{parset}\}\{\#2\}\}$

$\backslash\mathrm{cmdmthoparset}$  ... to do!

- $\backslash\mathrm{cmdmthoparset}\{\mathrm{cmdName}\};$   
 $\backslash\mathrm{cmdNameSet}[\mathrm{sub}][\mathrm{sub}][\mathrm{par}] = \mathrm{cmdName}_{\mathrm{sub}}^{\mathrm{sub}}[\mathrm{par}]$
- $\backslash\mathrm{cmdmthoparset}\{\mathrm{cmdSet}\}[\mathrm{NewName}];$   
 $\backslash\mathrm{cmdSetSet}[\mathrm{sub}][\mathrm{sub}][\mathrm{par}] = \mathrm{NewName}_{\mathrm{sub}}^{\mathrm{sub}}[\mathrm{par}]$

594  $\backslash\mathrm{newcommandx}\{\backslash\mathrm{cmdmthoparset}\}[2][2=]$   
595  $\{\backslash\mathrm{usrmth}\{\#1\}\{\mathrm{Set}\}\{\mathrm{oparset}\}\{\#2\}\}$

$\backslash\mathrm{cmdmthsetext}$  ... to do!

596  $\backslash\mathrm{newcommandx}\{\backslash\mathrm{cmdmthsetext}\}[3][2=, 3=]$   
597  $\{\backslash\mathrm{cmdmthset}\{\#1\}\{\#2\}\backslash\mathrm{caselower}[q]\{\#1\}\%$   
598  $\backslash\mathrm{usrmthlet}\{\mathrm{thestring}\}\{\mathrm{Sym}\}\{\mathrm{sym}\}$   
599  $[\backslash\mathrm{defval}\{\#3\}\{\backslash\mathrm{defval}\{\backslash\mathrm{empchk}\{\#2\}\{\backslash\mathrm{lowercase}\{\#2\}\}\}\{\mathrm{thestring}\}\}\%$   
600  $\backslash\mathrm{usrmthlet}\{\mathrm{thestring}\}\{\mathrm{Elm}\}\{\mathrm{elm}\}$   
601  $[\backslash\mathrm{defval}\{\#3\}\{\backslash\mathrm{defval}\{\backslash\mathrm{empchk}\{\#2\}\{\backslash\mathrm{lowercase}\{\#2\}\}\}\{\mathrm{thestring}\}\}\}$

```

\mthrel, to do!
 • \mthrel{Name}[sub][sup][Ext] = NamesubsubExt
 • \mthargrel{Name}[sub][sup][Ext1]{ArgEx{Ex}}}[Ext2] = NamesubsubExt1(ArgExEx)Ext2
 • \mthargrel*{Name}[sub][sup][Ext1]{ArgEx{Ex}}}[Ext2] = NamesubsubExt1(ArgExEx)Ext2
 • \mthparrel{Name}[sub][sup][Ext1]{ParEx{Ex}}}[Ext2] = NamesubsubExt1[ParExEx]Ext2
 • \mthparrel*{Name}[sub][sup][Ext1]{ParEx{Ex}}}[Ext2] = NamesubsubExt1[ParExEx]Ext2
602 %% Style for Relations
603 \cmdmthall{rel}\newcommand{\mthstyrel}{\mathit}

\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
α, β, γ, δ, ε, ζ, η, θ, ϑ, ι, κ, λ, μ, ν, ξ, ο, π, ϖ, ρ, ϱ, σ, ς, τ, υ, φ, ϕ, χ, ψ, ω
A, B, Γ, Δ, E, E, Z, H, Θ, Θ, I, K, K, Λ, M, N, Ξ, O, Π, Π, P, P, Σ, Σ, T, Υ, Φ, Φ, X, Ψ, Ω
604 \seqoflet{Rel}{mthrel}

\cmdmthrel ... to do!
 • \cmdmthrel{cmdName};
 \cmdNameRel[sub][sub][ext] = cmdNamesubsubext
 • \cmdmthrel{cmdName}[NewName];
 \cmdNameRel[sub][sub][ext] = NewNamesubsubext
605 \newcommandx{\cmdmthrel}[2][2=]
606 {\usrmth{#1}{Rel}{rel}{#2}}

\cmdmthargrel ... to do!
 • \cmdmthargrel{cmdName};
 \cmdNameRel[sub][sub][ext1]{arg}[ext2] = cmdNamesubsubext1(arg)ext2
 • \cmdmthargrel{cmdName}[NewName];
 \cmdNameRel[sub][sub][ext1]{arg}[ext2] = NewNamesubsubext1(arg)ext2
607 \newcommandx{\cmdmthargrel}[2][2=]
608 {\usrmth{#1}{Rel}{argrel}{#2}}

\cmdmthoargrel ... to do!
 • \cmdmthoargrel{cmdName};
 \cmdNameRel[sub][sub][arg] = cmdNamesubsub(arg)
 • \cmdmthoargrel{cmdRel}[NewName];
 \cmdRelRel[sub][sub][arg] = NewNamesubsub(arg)
609 \newcommandx{\cmdmthoargrel}[2][2=]
610 {\usrmth{#1}{Rel}{oargrel}{#2}}

\cmdmthparrel ... to do!
 • \cmdmthparrel{cmdName};
 \cmdNameRel[sub][sub][ext1]{par}[ext2] = cmdNamesubsubext1[par]ext2
 • \cmdmthparrel{cmdName}[NewName];
 \cmdNameRel[sub][sub][ext1]{par}[ext2] = NewNamesubsubext1[par]ext2
611 \newcommandx{\cmdmthparrel}[2][2=]
612 {\usrmth{#1}{Rel}{parrel}{#2}}

\cmdmthoparrel ... to do!
 • \cmdmthoparrel{cmdName};
 \cmdNameRel[sub][sub][par] = cmdNamesubsub[par]
 • \cmdmthoparrel{cmdRel}[NewName];
 \cmdRelRel[sub][sub][par] = NewNamesubsub[par]
613 \newcommandx{\cmdmthoparrel}[2][2=]
614 {\usrmth{#1}{Rel}{oparrel}{#2}}

```

```

\mthfun, to do!
 • \mthfun{Name}[sub][sup][Ext] = NamesupsubExt
 • \mthargfun{Name}[sub][sup][Ext1]{ArgEx{Ex}}}[Ext2] = NamesupsubExt1(ArgExEx)Ext2
 • \mthargfun*{Name}[sub][sup][Ext1]{ArgEx{Ex}}}[Ext2] = NamesupsubExt1(ArgExEx)Ext2
 • \mthparfun{Name}[sub][sup][Ext1]{ParEx{Ex}}}[Ext2] = NamesupsubExt1[ParExEx]Ext2
 • \mthparfun*{Name}[sub][sup][Ext1]{ParEx{Ex}}}[Ext2] = NamesupsubExt1[ParExEx]Ext2
615 %% Style for Functions
616 \cmdmthall{fun}\newcommand{\mthstyfun}{\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
α, β, γ, δ, ε, ζ, η, θ, ι, κ, λ, μ, ν, ξ, ο, π, ρ, ϱ, σ, ς, τ, υ, φ, ϕ, χ, ψ, ω
Α, Β, Γ, Δ, Ε, Ζ, Η, Θ, Ι, Κ, Λ, Μ, Ν, Ξ, Ο, Π, Ψ, Ρ, Σ, Τ, Υ, Φ, Ψ, Χ, Ψ, Ω
617 \seqoflet{Fun}{mthfun}

\cmdmthfun ... to do!
 • \cmdmthfun{cmdName};
 \cmdNameFun[sub][sub][ext] = cmdNamesubsubext
 • \cmdmthfun{cmdName}[NewName];
 \cmdNameFun[sub][sub][ext] = NewNamesubsubext
618 \newcommandx{\cmdmthfun}[2][2=]
619 {\usrmth{#1}{Fun}{fun}{#2}}

\cmdmthargfun ... to do!
 • \cmdmthargfun{cmdName};
 \cmdNameFun[sub][sub][ext1]{arg}[ext2] = cmdNamesubsubext1(arg)ext2
 • \cmdmthargfun{cmdName}[NewName];
 \cmdNameFun[sub][sub][ext1]{arg}[ext2] = NewNamesubsubext1(arg)ext2
620 \newcommandx{\cmdmthargfun}[2][2=]
621 {\usrmth{#1}{Fun}{argfun}{#2}}

\cmdmthoargfun ... to do!
 • \cmdmthoargfun{cmdName};
 \cmdNameFun[sub][sub][arg] = cmdNamesubsub(arg)
 • \cmdmthoargfun{cmdFun}[NewName];
 \cmdFunFun[sub][sub][arg] = NewNamesubsub(arg)
622 \newcommandx{\cmdmthoargfun}[2][2=]
623 {\usrmth{#1}{Fun}{oargfun}{#2}}

\cmdmthparfun ... to do!
 • \cmdmthparfun{cmdName};
 \cmdNameFun[sub][sub][ext1]{par}[ext2] = cmdNamesubsubext1[par]ext2
 • \cmdmthparfun{cmdName}[NewName];
 \cmdNameFun[sub][sub][ext1]{par}[ext2] = NewNamesubsubext1[par]ext2
624 \newcommandx{\cmdmthparfun}[2][2=]
625 {\usrmth{#1}{Fun}{parfun}{#2}}

\cmdmthoparfun ... to do!
 • \cmdmthoparfun{cmdName};
 \cmdNameFun[sub][sub][par] = cmdNamesubsub[par]
 • \cmdmthoparfun{cmdFun}[NewName];
 \cmdFunFun[sub][sub][par] = NewNamesubsub[par]
626 \newcommandx{\cmdmthoparfun}[2][2=]
627 {\usrmth{#1}{Fun}{oparfun}{#2}}

```

```

\mthsym, to do!
 • \mthsym{Name}[sub][sup][Ext] = NamesubsupExt
 • \mthargsym{Name}[sub][sup][Ext1]{ArgEx{Ex}}}[Ext2] = NamesubsupExt1(ArgExEx)Ext2
 • \mthargsym*{Name}[sub][sup][Ext1]{ArgEx{Ex}}}[Ext2] = NamesubsupExt1(ArgExEx)Ext2
 • \mthparsym{Name}[sub][sup][Ext1]{ParEx{Ex}}}[Ext2] = NamesubsupExt1[ParExEx]Ext2
 • \mthparsym*{Name}[sub][sup][Ext1]{ParEx{Ex}}}[Ext2] = NamesubsupExt1[ParExEx]Ext2
628 %% Style for Symbols
629 \cmdmthall{sym}\newcommand{\mthstysym}{\mathtt}

\asym, 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
α, β, γ, δ, ε, ζ, η, θ, ι, κ, λ, μ, ν, ξ, ο, π, ρ, ϱ, σ, ς, τ, υ, φ, ϕ, χ, ψ, ω
Α, Β, Γ, Δ, Ε, Ζ, Η, Θ, Ο, Ι, Κ, Λ, Μ, Ν, Ξ, Ο, Π, ΙΙ, Ρ, Σ, Ϛ, Τ, Υ, Φ, Ψ, Ω
630 \seqoflet{Sym}{mthsym}

\cmdmthsym ... to do!
 • \cmdmthsym{cmdName};
 \cmdNameSym[sub][sub][ext] = cmdNamesubsubext
 • \cmdmthsym{cmdName}[NewName];
 \cmdNameSym[sub][sub][ext] = NewNamesubsubext
631 \newcommandx{\cmdmthsym}[2][2=]
632 {\usrmth{#1}{Sym}{sym}[#2]}

\cmdmthargsym ... to do!
 • \cmdmthargsym{cmdName};
 \cmdNameSym[sub][sub][ext1]{arg}[ext2] = cmdNamesubsubext1(arg)ext2
 • \cmdmthargsym{cmdName}[NewName];
 \cmdNameSym[sub][sub][ext1]{arg}[ext2] = NewNamesubsubext1(arg)ext2
633 \newcommandx{\cmdmthargsym}[2][2=]
634 {\usrmth{#1}{Sym}{argsym}[#2]}

\cmdmthoargsym ... to do!
 • \cmdmthoargsym{cmdName};
 \cmdNameSym[sub][sub][arg] = cmdNamesubsub(arg)
 • \cmdmthoargsym{cmdSym}[NewName];
 \cmdSymSym[sub][sub][arg] = NewNamesubsub(arg)
635 \newcommandx{\cmdmthoargsym}[2][2=]
636 {\usrmth{#1}{Sym}{oargsym}[#2]}

\cmdmthparsym ... to do!
 • \cmdmthparsym{cmdName};
 \cmdNameSym[sub][sub][ext1]{par}[ext2] = cmdNamesubsubext1[par]ext2
 • \cmdmthparsym{cmdName}[NewName];
 \cmdNameSym[sub][sub][ext1]{par}[ext2] = NewNamesubsubext1[par]ext2
637 \newcommandx{\cmdmthparsym}[2][2=]
638 {\usrmth{#1}{Sym}{parsym}[#2]}

\cmdmthoparsym ... to do!
 • \cmdmthoparsym{cmdName};
 \cmdNameSym[sub][sub][par] = cmdNamesubsub[par]
 • \cmdmthoparsym{cmdSym}[NewName];
 \cmdSymSym[sub][sub][par] = NewNamesubsub[par]
639 \newcommandx{\cmdmthoparsym}[2][2=]
640 {\usrmth{#1}{Sym}{oparsym}[#2]}

```

```

\mthelm, to do!
 • \mthelm{Name}[sub][sup][Ext] = NamesubsubExt
 • \mthargelm{Name}[sub][sup][Ext1]{ArgEx{Ex}}}[Ext2] = NamesubsubExt1(ArgExEx)Ext2
 • \mthargelm*{Name}[sub][sup][Ext1]{ArgEx{Ex}}}[Ext2] = NamesubsubExt1(ArgExEx)Ext2
 • \mthparelm{Name}[sub][sup][Ext1]{ParEx{Ex}}}[Ext2] = NamesubsubExt1[ParExEx]Ext2
 • \mthparelm*{Name}[sub][sup][Ext1]{ParEx{Ex}}}[Ext2] = NamesubsubExt1[ParExEx]Ext2
641 %% Style for Elements
642 \cmdmthall{elm}\newcommand{\mthstyelm}{\mathnormal}

\aelm, 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
α, β, γ, δ, ε, ζ, η, θ, ϑ, ι, κ, λ, μ, ν, ξ, ο, π, ϖ, ρ, ϑ, σ, ς, τ, υ, φ, ϕ, χ, ψ, ω
Α, Β, Γ, Δ, Ε, Ζ, Η, Θ, Ι, Κ, Λ, Μ, Ν, Ξ, Ο, Π, ϒ, Φ, Ψ, Ω
643 \seqoflet{Elm}{mthelm}

\cmdmthelm ... to do!
 • \cmdmthelm{cmdName};
 \cmdNameElm[sub][sub][ext] = cmdNamesubsubext
 • \cmdmthelm{cmdName}[NewName];
 \cmdNameElm[sub][sub][ext] = NewNamesubsubext
644 \newcommandx{\cmdmthelm}[2][2=]
645 {\usrmth{#1}{Elm}{elm}[#2]}

\cmdmthargelm ... to do!
 • \cmdmthargelm{cmdName};
 \cmdNameElm[sub][sub][ext1]{arg}[ext2] = cmdNamesubsubext1(arg)ext2
 • \cmdmthargelm{cmdName}[NewName];
 \cmdNameElm[sub][sub][ext1]{arg}[ext2] = NewNamesubsubext1(arg)ext2
646 \newcommandx{\cmdmthargelm}[2][2=]
647 {\usrmth{#1}{Elm}{argelm}[#2]}

\cmdmthoargelm ... to do!
 • \cmdmthoargelm{cmdName};
 \cmdNameElm[sub][sub][arg] = cmdNamesubsub(arg)
 • \cmdmthoargelm{cmdElm}[NewName];
 \cmdElmElm[sub][sub][arg] = NewNamesubsub(arg)
648 \newcommandx{\cmdmthoargelm}[2][2=]
649 {\usrmth{#1}{Elm}{oargelm}[#2]}

\cmdmthparelm ... to do!
 • \cmdmthparelm{cmdName};
 \cmdNameElm[sub][sub][ext1]{par}[ext2] = cmdNamesubsubext1[par]ext2
 • \cmdmthparelm{cmdName}[NewName];
 \cmdNameElm[sub][sub][ext1]{par}[ext2] = NewNamesubsubext1[par]ext2
650 \newcommandx{\cmdmthparelm}[2][2=]
651 {\usrmth{#1}{Elm}{parelm}[#2]}

\cmdmthoparelm ... to do!
 • \cmdmthoparelm{cmdName};
 \cmdNameElm[sub][sub][par] = cmdNamesubsub[par]
 • \cmdmthoparelm{cmdElm}[NewName];
 \cmdElmElm[sub][sub][par] = NewNamesubsub[par]
652 \newcommandx{\cmdmthoparelm}[2][2=]
653 {\usrmth{#1}{Elm}{oparelm}[#2]}

```

654 %%\*\*\*\*\*%

\cmdmthsymelm ... to do!

- \cmdmthsymelm{cmdName};  
 $\text{cmdNameSym}[\text{sub}][\text{sub}][\text{ext}] = \text{cmdName}_{\text{sub}}^{\text{sub}}\text{ext}$   
 $\text{cmdNameElm}[\text{sub}][\text{sub}][\text{ext}] = \text{cmdName}_{\text{sub}}^{\text{sub}}\text{ext}$
- \cmdmthsymelm{cmdName}[NewName];  
 $\text{cmdNameSym}[\text{sub}][\text{sub}][\text{ext}] = \text{NewName}_{\text{sub}}^{\text{sub}}\text{ext}$   
 $\text{cmdNameElm}[\text{sub}][\text{sub}][\text{ext}] = \text{NewName}_{\text{sub}}^{\text{sub}}\text{ext}$

655 \newcommandx{\cmdmthsymelm}[2][2=]  
656 {\cmdmthsym{#1}[#2]}%  
657 \cmdmthelm{#1}[#2]}

\cmdmthargsymelm ... to do!

- \cmdmthargsymelm{cmdName};  
 $\text{cmdNameSym}[\text{sub}][\text{sub}][\text{ext1}][\text{arg}][\text{ext2}] = \text{cmdName}_{\text{sub}}^{\text{sub}}\text{ext1}(\text{arg})\text{ext2}$   
 $\text{cmdNameElm}[\text{sub}][\text{sub}][\text{ext1}][\text{arg}][\text{ext2}] = \text{cmdName}_{\text{sub}}^{\text{sub}}\text{ext1}(\text{arg})\text{ext2}$
- \cmdmthargsymelm{cmdName}[NewName];  
 $\text{cmdNameSym}[\text{sub}][\text{sub}][\text{ext1}][\text{arg}][\text{ext2}] = \text{NewName}_{\text{sub}}^{\text{sub}}\text{ext1}(\text{arg})\text{ext2}$   
 $\text{cmdNameElm}[\text{sub}][\text{sub}][\text{ext1}][\text{arg}][\text{ext2}] = \text{NewName}_{\text{sub}}^{\text{sub}}\text{ext1}(\text{arg})\text{ext2}$

658 \newcommandx{\cmdmthargsymelm}[2][2=]  
659 {\cmdmthargsym{#1}[#2]}%  
660 \cmdmthargelm{#1}[#2]}

\cmdmthoargsymelm ... to do!

- \cmdmthoargsymelm{cmdName};  
 $\text{cmdNameSym}[\text{sub}][\text{sub}][\text{arg}] = \text{cmdName}_{\text{sub}}^{\text{sub}}(\text{arg})$   
 $\text{cmdNameElm}[\text{sub}][\text{sub}][\text{arg}] = \text{cmdName}_{\text{sub}}^{\text{sub}}(\text{arg})$
- \cmdmthoargsymelm{cmdName}[NewName];  
 $\text{cmdNameSym}[\text{sub}][\text{sub}][\text{arg}] = \text{NewName}_{\text{sub}}^{\text{sub}}(\text{arg})$   
 $\text{cmdNameElm}[\text{sub}][\text{sub}][\text{arg}] = \text{NewName}_{\text{sub}}^{\text{sub}}(\text{arg})$

661 \newcommandx{\cmdmthoargsymelm}[2][2=]  
662 {\cmdmthoargsym{#1}[#2]}%  
663 \cmdmthoargelm{#1}[#2]}

\cmdmthparsymelm ... to do!

- \cmdmthparsymelm{cmdName};  
 $\text{cmdNameSym}[\text{sub}][\text{sub}][\text{ext1}][\text{par}][\text{ext2}] = \text{cmdName}_{\text{sub}}^{\text{sub}}\text{ext1}[\text{par}]\text{ext2}$   
 $\text{cmdNameElm}[\text{sub}][\text{sub}][\text{ext1}][\text{par}][\text{ext2}] = \text{cmdName}_{\text{sub}}^{\text{sub}}\text{ext1}[\text{par}]\text{ext2}$
- \cmdmthparsymelm{cmdName}[NewName];  
 $\text{cmdNameSym}[\text{sub}][\text{sub}][\text{ext1}][\text{par}][\text{ext2}] = \text{NewName}_{\text{sub}}^{\text{sub}}\text{ext1}[\text{par}]\text{ext2}$   
 $\text{cmdNameElm}[\text{sub}][\text{sub}][\text{ext1}][\text{par}][\text{ext2}] = \text{NewName}_{\text{sub}}^{\text{sub}}\text{ext1}[\text{par}]\text{ext2}$

664 \newcommandx{\cmdmthparsymelm}[2][2=]  
665 {\cmdmthparsym{#1}[#2]}%  
666 \cmdmthparelm{#1}[#2]}

\cmdmthoparsymelm ... to do!

- \cmdmthoparsymelm{cmdName};  
 $\text{cmdNameSym}[\text{sub}][\text{sub}][\text{par}] = \text{cmdName}_{\text{sub}}^{\text{sub}}[\text{par}]$   
 $\text{cmdNameElm}[\text{sub}][\text{sub}][\text{par}] = \text{cmdName}_{\text{sub}}^{\text{sub}}[\text{par}]$
- \cmdmthoparsymelm{cmdName}[NewName];  
 $\text{cmdNameSym}[\text{sub}][\text{sub}][\text{par}] = \text{NewName}_{\text{sub}}^{\text{sub}}[\text{par}]$   
 $\text{cmdNameElm}[\text{sub}][\text{sub}][\text{par}] = \text{NewName}_{\text{sub}}^{\text{sub}}[\text{par}]$

667 \newcommandx{\cmdmthoparsymelm}[2][2=]  
668 {\cmdmthoparsym{#1}[#2]}%  
669 \cmdmthoparelm{#1}[#2]}

670 %%\*\*\*\*\*%

\mthluop, ... ... to do!

- $\backslash\mathrm{mthluop}\{\backslash\mathrm{oplus}\}[\mathrm{sub}][\mathrm{sup}][\mathrm{Ext}] = \oplus_{\mathrm{sub}}^{\mathrm{sup}} \mathrm{Ext}$
- $\backslash\mathrm{mthlbop}\{\backslash\mathrm{oplus}\}[\mathrm{sub}][\mathrm{sup}][\mathrm{Ext}] = \oplus_{\mathrm{sub}}^{\mathrm{sup}} \mathrm{Ext}$

```
671 %% Style for \LaTeX Operators
672 \cmdmth{luop}\newcommand{\mthstyluop}[1]{\textstyle\mathop{\#1}}
673 \cmdmth{lbop}\newcommand{\mthstylbop}[1]{\textstyle\mathbin{\#1}}
```

$\backslash\mathrm{cmdmthluop}$ , ... ... to do!

- $\backslash\mathrm{cmdmthluop}\{\mathrm{cmdName}\};$   
 $\backslash\mathrm{cmdNameUOp}[\mathrm{sub}][\mathrm{sub}][\mathrm{ext}] = \mathrm{cmdName}_{\mathrm{sub}}^{\mathrm{sub}} \mathrm{ext}$
- $\backslash\mathrm{cmdmthluop}\{\mathrm{cmdName}\}[\backslash\mathrm{oplus}];$   
 $\backslash\mathrm{cmdNameUOp}[\mathrm{sub}][\mathrm{sub}][\mathrm{ext}] = \oplus_{\mathrm{sub}}^{\mathrm{sub}} \mathrm{ext}$
- $\backslash\mathrm{cmdmthlbop}\{\mathrm{cmdName}\};$   
 $\backslash\mathrm{cmdNameBOp}[\mathrm{sub}][\mathrm{sub}][\mathrm{ext}] = \mathrm{cmdName}_{\mathrm{sub}}^{\mathrm{sub}} \mathrm{ext}$
- $\backslash\mathrm{cmdmthlbop}\{\mathrm{cmdName}\}[\backslash\mathrm{oplus}];$   
 $\backslash\mathrm{cmdNameBOp}[\mathrm{sub}][\mathrm{sub}][\mathrm{ext}] = \oplus_{\mathrm{sub}}^{\mathrm{sub}} \mathrm{ext}$

```
674 \newcommandx{\cmdmthluop}[2][2=]
675 {\usrmth{\#1}\{UOp\}\{luop\}\{#2\}}
676 \newcommandx{\cmdmthlbop}[2][2=]
677 {\usrmth{\#1}\{BOp\}\{lbop\}\{#2\}}
```

$\backslash\mathrm{mthlrel}$  ... to do!

- $\backslash\mathrm{mthlrel}\{\backslash\mathrm{preceq}\}[\mathrm{sub}][\mathrm{sup}][\mathrm{Ext}] = \preceq_{\mathrm{sub}}^{\mathrm{sup}} \mathrm{Ext}$

```
678 %% Style for \LaTeX Relations
679 \cmdmth{lrel}\newcommand{\mthstylrel}{\mathrel}
```

$\backslash\mathrm{cmdmthlrel}$  ... to do!

- $\backslash\mathrm{cmdmthlrel}\{\mathrm{cmdName}\};$   
 $\backslash\mathrm{cmdNameRel}[\mathrm{sub}][\mathrm{sub}][\mathrm{ext}] = \mathrm{cmdName}_{\mathrm{sub}}^{\mathrm{sub}} \mathrm{ext}$
- $\backslash\mathrm{cmdmthlrel}\{\mathrm{cmdName}\}[\backslash\mathrm{preceq}];$   
 $\backslash\mathrm{cmdNameRel}[\mathrm{sub}][\mathrm{sub}][\mathrm{ext}] = \preceq_{\mathrm{sub}}^{\mathrm{sub}} \mathrm{ext}$

```
680 \newcommandx{\cmdmthlrel}[2][2=]
681 {\usrmth{\#1}\{Rel\}\{lrel\}\{#2\}}
```

```
682 %%*****%
```

$\backslash\mathrm{mthsnt}$ , ... ... to do!

- $\backslash\mathrm{mthsnt}\{\mathrm{Name}\}[\mathrm{sub}][\mathrm{sup}][\mathrm{Ext}] = \mathrm{Name}_{\mathrm{sub}}^{\mathrm{sup}} \mathrm{Ext}$
- $\backslash\mathrm{mthargsnt}\{\mathrm{Name}\}[\mathrm{sub}][\mathrm{sup}][\mathrm{Ext1}]\{\mathrm{Arg}^{\mathrm{Ex}}\{\mathrm{Ex}\}\}[\mathrm{Ext2}] = \mathrm{Name}_{\mathrm{sub}}^{\mathrm{sup}} \mathrm{Ext1}(\mathrm{Arg}^{\mathrm{Ex}^{\mathrm{Ex}}})\mathrm{Ext2}$
- $\backslash\mathrm{mthargsnt}^*\{\mathrm{Name}\}[\mathrm{sub}][\mathrm{sup}][\mathrm{Ext1}]\{\mathrm{Arg}^{\mathrm{Ex}}\{\mathrm{Ex}\}\}[\mathrm{Ext2}] = \mathrm{Name}_{\mathrm{sub}}^{\mathrm{sup}} \mathrm{Ext1}(\mathrm{Arg}^{\mathrm{Ex}^{\mathrm{Ex}}})\mathrm{Ext2}$
- $\backslash\mathrm{mthparsnt}\{\mathrm{Name}\}[\mathrm{sub}][\mathrm{sup}][\mathrm{Ext1}]\{\mathrm{Par}^{\mathrm{Ex}}\{\mathrm{Ex}\}\}[\mathrm{Ext2}] = \mathrm{Name}_{\mathrm{sub}}^{\mathrm{sup}} \mathrm{Ext1}[\mathrm{Par}^{\mathrm{Ex}^{\mathrm{Ex}}}] \mathrm{Ext2}$
- $\backslash\mathrm{mthparsnt}^*\{\mathrm{Name}\}[\mathrm{sub}][\mathrm{sup}][\mathrm{Ext1}]\{\mathrm{Par}^{\mathrm{Ex}}\{\mathrm{Ex}\}\}[\mathrm{Ext2}] = \mathrm{Name}_{\mathrm{sub}}^{\mathrm{sup}} \mathrm{Ext1}[\mathrm{Par}^{\mathrm{Ex}^{\mathrm{Ex}}}] \mathrm{Ext2}$

```
683 %% Style for Sentences
684 \cmdmthall{snt}\newcommand{\mthstysnt}{\mathsf}
```

$\backslash\mathrm{aSnt}$ , ... ... 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  
 $\alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, \omicron, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega$   
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,  $\Psi$ ,  $\Omega$

```
685 \seqoflet{Snt}{mthsnt}
```

$\backslash\mathrm{cmdmthsnt}$  ... to do!

- $\backslash\mathrm{cmdmthsnt}\{\mathrm{cmdName}\};$   
 $\backslash\mathrm{cmdNameSnt}[\mathrm{sub}][\mathrm{sub}][\mathrm{ext}] = \mathrm{cmdName}_{\mathrm{sub}}^{\mathrm{sub}} \mathrm{ext}$
- $\backslash\mathrm{cmdmthsnt}\{\mathrm{cmdName}\}[\mathrm{NewName}];$   
 $\backslash\mathrm{cmdNameSnt}[\mathrm{sub}][\mathrm{sub}][\mathrm{ext}] = \mathrm{NewName}_{\mathrm{sub}}^{\mathrm{sub}} \mathrm{ext}$

```

686 \newcommandx{\cmdmthsnt}[2][2=]
687 {\usrmth{#1}{Snt}{snt}{#2}}

\cmdmthargsnt ... to do!
 • \cmdmthargsnt{cmdName};
 \cmdNameSnt[sub][sub][ext1]{arg}[ext2] = cmdNamesubsubext1(arg)ext2
 • \cmdmthargsnt{cmdName}[NewName];
 \cmdNameSnt[sub][sub][ext1]{arg}[ext2] = NewNamesubsubext1(arg)ext2
688 \newcommandx{\cmdmthargsnt}[2][2=]
689 {\usrmth{#1}{Snt}{argsnt}{#2}}

\cmdmthoargsnt ... to do!
 • \cmdmthoargsnt{cmdName};
 \cmdNameSnt[sub][sub][arg] = cmdNamesubsub(arg)
 • \cmdmthoargsnt{cmdName}[NewName];
 \cmdNameSnt[sub][sub][arg] = NewNamesubsub(arg)
690 \newcommandx{\cmdmthoargsnt}[2][2=]
691 {\usrmth{#1}{Snt}{oargsnt}{#2}}

\cmdmthparsnt ... to do!
 • \cmdmthparsnt{cmdName};
 \cmdNameSnt[sub][sub][ext1]{par}[ext2] = cmdNamesubsubext1[par]ext2
 • \cmdmthparsnt{cmdName}[NewName];
 \cmdNameSnt[sub][sub][ext1]{par}[ext2] = NewNamesubsubext1[par]ext2
692 \newcommandx{\cmdmthparsnt}[2][2=]
693 {\usrmth{#1}{Snt}{parsnt}{#2}}

\cmdmthoparsnt ... to do!
 • \cmdmthoparsnt{cmdName};
 \cmdNameSnt[sub][sub][par] = cmdNamesubsub[par]
 • \cmdmthoparsnt{cmdName}[NewName];
 \cmdNameSnt[sub][sub][par] = NewNamesubsub[par]
694 \newcommandx{\cmdmthoparsnt}[2][2=]
695 {\usrmth{#1}{Snt}{oparsnt}{#2}}

\mthfrm, to do!
 • \mthfrm{Name}[sub][sup][Ext] = NamesupsubExt
 • \mthargfrm{Name}[sub][sup][Ext1]{ArgEx{Ex}}[Ext2] = NamesupsubExt1(ArgExEx)Ext2
 • \mthargfrm*{Name}[sub][sup][Ext1]{ArgEx{Ex}}[Ext2] = NamesupsubExt1(ArgExEx)Ext2
 • \mthparfrm{Name}[sub][sup][Ext1]{ParEx{Ex}}[Ext2] = NamesupsubExt1[ParExEx]Ext2
 • \mthparfrm*{Name}[sub][sup][Ext1]{ParEx{Ex}}[Ext2] = NamesupsubExt1[ParExEx]Ext2
696 %% Style for Formulae
697 \cmdmthall{frm}\newcommand{\mthstyfrm}{\mathit}

\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
α, β, γ, δ, ε, ζ, η, θ, ϑ, ι, κ, λ, μ, ν, ξ, ο, π, ϖ, ρ, ϱ, σ, ς, τ, υ, φ, ϕ, χ, ψ, ω
A, B, Γ, Δ, E, E, Z, H, Θ, I, K, K, A, M, N, Ξ, O, Π, Π, P, P, Σ, Σ, T, Υ, Φ, Φ, X, Ψ, Ω
698 \seqoflet{Frm}{mthfrm}

\cmdmthfrm ... to do!
 • \cmdmthfrm{cmdName};
 \cmdNameFrm[sub][sub][ext] = cmdNamesubsubext
 • \cmdmthfrm{cmdName}[NewName];
 \cmdNameFrm[sub][sub][ext] = NewNamesubsubext

```



```

699 \newcommandx{\cmdmthfrm}[2][2=]
700 {\usrmth{#1}{Frm}{frm}{#2}}

\cmdmthargfrm ... to do!
 • \cmdmthargfrm{cmdName};
 \cmdNameFrm[sub][sub][ext1]{arg}[ext2] = $\text{cmdName}_{sub}^{sub}ext1(arg)ext2$
 • \cmdmthargfrm{cmdName}[NewName];
 \cmdNameFrm[sub][sub][ext1]{arg}[ext2] = $\text{NewName}_{sub}^{sub}ext1(arg)ext2$
701 \newcommandx{\cmdmthargfrm}[2][2=]
702 {\usrmth{#1}{Frm}{argfrm}{#2}}

\cmdmthoargfrm ... to do!
 • \cmdmthoargfrm{cmdName};
 \cmdNameFrm[sub][sub][arg] = $\text{cmdName}_{sub}^{sub}(arg)$
 • \cmdmthoargfrm{cmdName}[NewName];
 \cmdNameFrm[sub][sub][arg] = $\text{NewName}_{sub}^{sub}(arg)$
703 \newcommandx{\cmdmthoargfrm}[2][2=]
704 {\usrmth{#1}{Frm}{oargfrm}{#2}}

\cmdmthparfrm ... to do!
 • \cmdmthparfrm{cmdName};
 \cmdNameFrm[sub][sub][ext1]{par}[ext2] = $\text{cmdName}_{sub}^{sub}ext1[par]ext2$
 • \cmdmthparfrm{cmdName}[NewName];
 \cmdNameFrm[sub][sub][ext1]{par}[ext2] = $\text{NewName}_{sub}^{sub}ext1[par]ext2$
705 \newcommandx{\cmdmthparfrm}[2][2=]
706 {\usrmth{#1}{Frm}{parfrm}{#2}}

\cmdmthoparfrm ... to do!
 • \cmdmthoparfrm{cmdName};
 \cmdNameFrm[sub][sub][par] = $\text{cmdName}_{sub}^{sub}[par]$
 • \cmdmthoparfrm{cmdName}[NewName];
 \cmdNameFrm[sub][sub][par] = $\text{NewName}_{sub}^{sub}[par]$
707 \newcommandx{\cmdmthoparfrm}[2][2=]
708 {\usrmth{#1}{Frm}{oparfrm}{#2}}

709 %%%

\mthmat, to do!
 • \mthmat{Name}[sub][sup][Ext] = $\text{Name}_{sub}^{sup}Ext$
 • \mthargmat{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = $\text{Name}_{sub}^{sup}Ext1\left(\text{Arg}^{Ex^{Ex}}\right)Ext2$
 • \mthargmat*{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = $\text{Name}_{sub}^{sup}Ext1\left(\text{Arg}^{Ex^{Ex}}\right)Ext2$
 • \mthparmat{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = $\text{Name}_{sub}^{sup}Ext1\left[\text{Par}^{Ex^{Ex}}\right]Ext2$
 • \mthparmat*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = $\text{Name}_{sub}^{sup}Ext1\left[\text{Par}^{Ex^{Ex}}\right]Ext2$
710 %% Style for Matrices
711 \cmdmthall{mat}\newcommand{\mthstymat}[1]{\boldsymbol{\mathsf{#1}}}

\mat, 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
 $\alpha, \beta, \gamma, \delta, \epsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \lambda, \mu, \nu, \xi, \omicron, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega$
A, B, Γ, Δ, E, E, Z, H, Θ, Θ, I, K, K, Λ, M, N, Ξ, O, Π, Π, P, P, Σ, Σ, T, T, Φ, Φ, X, Ψ, Ω
712 \seqoflet{Mat}{mthmat}

\cmdmthmat ... to do!
 • \cmdmthmat{cmdName};
 \cmdNameMat[sub][sub][ext] = $\text{cmdName}_{sub}^{sub}ext$

```

- $\backslash\text{cmdmthmat}\{\text{cmdName}\}[\text{NewName}]$ ;  
 $\backslash\text{cmdNameMat}[\text{sub}][\text{sub}][\text{ext}] = \text{NewName}_{sub}^{sub}ext$

```
713 \newcommandx{\cmdmthmat}[2][2=]
714 {\usrmth{\#1}\Mat}\mat{\#2}}
```

$\backslash\text{cmdmthargmat}$  ... to do!

- $\backslash\text{cmdmthargmat}\{\text{cmdName}\}$ ;  
 $\backslash\text{cmdNameMat}[\text{sub}][\text{sub}][\text{ext1}][\text{arg}][\text{ext2}] = \text{cmdName}_{sub}^{sub}ext1(arg)ext2$
- $\backslash\text{cmdmthargmat}\{\text{cmdName}\}[\text{NewName}]$ ;  
 $\backslash\text{cmdNameMat}[\text{sub}][\text{sub}][\text{ext1}][\text{arg}][\text{ext2}] = \text{NewName}_{sub}^{sub}ext1(arg)ext2$

```
715 \newcommandx{\cmdmthargmat}[2][2=]
716 {\usrmth{\#1}\Mat}\argmat{\#2}}
```

$\backslash\text{cmdmthoargmat}$  ... to do!

- $\backslash\text{cmdmthoargmat}\{\text{cmdName}\}$ ;  
 $\backslash\text{cmdNameMat}[\text{sub}][\text{sub}][\text{arg}] = \text{cmdName}_{sub}^{sub}(arg)$
- $\backslash\text{cmdmthoargmat}\{\text{cmdName}\}[\text{NewName}]$ ;  
 $\backslash\text{cmdNameMat}[\text{sub}][\text{sub}][\text{arg}] = \text{NewName}_{sub}^{sub}(arg)$

```
717 \newcommandx{\cmdmthoargmat}[2][2=]
718 {\usrmth{\#1}\Mat}\oargmat{\#2}}
```

$\backslash\text{cmdmthparmat}$  ... to do!

- $\backslash\text{cmdmthparmat}\{\text{cmdName}\}$ ;  
 $\backslash\text{cmdNameMat}[\text{sub}][\text{sub}][\text{ext1}][\text{par}][\text{ext2}] = \text{cmdName}_{sub}^{sub}ext1[par]ext2$
- $\backslash\text{cmdmthparmat}\{\text{cmdName}\}[\text{NewName}]$ ;  
 $\backslash\text{cmdNameMat}[\text{sub}][\text{sub}][\text{ext1}][\text{par}][\text{ext2}] = \text{NewName}_{sub}^{sub}ext1[par]ext2$

```
719 \newcommandx{\cmdmthparmat}[2][2=]
720 {\usrmth{\#1}\Mat}\parmat{\#2}}
```

$\backslash\text{cmdmthoparmat}$  ... to do!

- $\backslash\text{cmdmthoparmat}\{\text{cmdName}\}$ ;  
 $\backslash\text{cmdNameMat}[\text{sub}][\text{sub}][\text{par}] = \text{cmdName}_{sub}^{sub}[par]$
- $\backslash\text{cmdmthoparmat}\{\text{cmdName}\}[\text{NewName}]$ ;  
 $\backslash\text{cmdNameMat}[\text{sub}][\text{sub}][\text{par}] = \text{NewName}_{sub}^{sub}[par]$

```
721 \newcommandx{\cmdmthoparmat}[2][2=]
722 {\usrmth{\#1}\Mat}\oparmat{\#2}}
```

$\backslash\text{mthvec}$ , ... to do!

- $\backslash\text{mthvec}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Ext}] = \text{Name}_{sub}^{sup}Ext$
- $\backslash\text{mthargvec}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Ext1}][\text{Arg}^{\text{Ex}^{\text{Ex}}}\{\text{Ex}\}][\text{Ext2}] = \text{Name}_{sub}^{sup}Ext1(\text{Arg}^{\text{Ex}^{\text{Ex}}})Ext2$
- $\backslash\text{mthargvec}*\{\text{Name}\}[\text{sub}][\text{sup}][\text{Ext1}][\text{Arg}^{\text{Ex}^{\text{Ex}}}\{\text{Ex}\}][\text{Ext2}] = \text{Name}_{sub}^{sup}Ext1(\text{Arg}^{\text{Ex}^{\text{Ex}}})Ext2$
- $\backslash\text{mthparvec}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Ext1}][\text{Par}^{\text{Ex}^{\text{Ex}}}\{\text{Ex}\}][\text{Ext2}] = \text{Name}_{sub}^{sup}Ext1[\text{Par}^{\text{Ex}^{\text{Ex}}}]Ext2$
- $\backslash\text{mthparvec}*\{\text{Name}\}[\text{sub}][\text{sup}][\text{Ext1}][\text{Par}^{\text{Ex}^{\text{Ex}}}\{\text{Ex}\}][\text{Ext2}] = \text{Name}_{sub}^{sup}Ext1[\text{Par}^{\text{Ex}^{\text{Ex}}}]Ext2$

```
723 %% Style for Vectors
```

```
724 \cmdmthall{\vec}\newcommand{\mthstyvec}[1]{\boldsymbol{\mathit{\#1}}}
```

$\backslash\text{aVec}$ , ... to do!

$a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z$   
 $A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z$   
 $\alpha, \beta, \gamma, \delta, \epsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \lambda, \mu, \nu, \xi, \omicron, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega$   
 $A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega$

```
725 \seqoflet{\Vec}\mthvec}
```

$\backslash\text{cmdmthvec}$  ... to do!

- $\backslash\text{cmdmthvec}\{\text{cmdName}\}$ ;  
 $\backslash\text{cmdNameVec}[\text{sub}][\text{sub}][\text{ext}] = \text{cmdName}_{sub}^{sub}ext$

```

 • \cmdmthvec{cmdName}[NewName];
 \cmdNameVec[sub][sub][ext] = NewNamesubsubext
726 \newcommandx{\cmdmthvec}[2][2=]
727 {\usrmth{#1}{Vec}{vec}[#2]}

\cmdmthargvec ... to do!
 • \cmdmthargvec{cmdName};
 \cmdNameVec[sub][sub][ext1]{arg}[ext2] = cmdNamesubsubext1(arg)ext2
 • \cmdmthargvec{cmdName}[NewName];
 \cmdNameVec[sub][sub][ext1]{arg}[ext2] = NewNamesubsubext1(arg)ext2
728 \newcommandx{\cmdmthargvec}[2][2=]
729 {\usrmth{#1}{Vec}{argvec}[#2]}

\cmdmthoargvec ... to do!
 • \cmdmthoargvec{cmdName};
 \cmdNameVec[sub][sub][arg] = cmdNamesubsub(arg)
 • \cmdmthoargvec{cmdName}[NewName];
 \cmdNameVec[sub][sub][arg] = NewNamesubsub(arg)
730 \newcommandx{\cmdmthoargvec}[2][2=]
731 {\usrmth{#1}{Vec}{oargvec}[#2]}

\cmdmthparvec ... to do!
 • \cmdmthparvec{cmdName};
 \cmdNameVec[sub][sub][ext1]{par}[ext2] = cmdNamesubsubext1[par]ext2
 • \cmdmthparvec{cmdName}[NewName];
 \cmdNameVec[sub][sub][ext1]{par}[ext2] = NewNamesubsubext1[par]ext2
732 \newcommandx{\cmdmthparvec}[2][2=]
733 {\usrmth{#1}{Vec}{parvec}[#2]}

\cmdmthoparvec ... to do!
 • \cmdmthoparvec{cmdName};
 \cmdNameVec[sub][sub][par] = cmdNamesubsub[par]
 • \cmdmthoparvec{cmdName}[NewName];
 \cmdNameVec[sub][sub][par] = NewNamesubsub[par]
734 \newcommandx{\cmdmthoparvec}[2][2=]
735 {\usrmth{#1}{Vec}{oparvec}[#2]}

736 \fi
737 %*****%
738 %*****%
739 %** Elementary Macros for Text *****%
740 %*****%
741 \iftext@
742 %** Latin Abbreviations *****%

\adhoc • \adhoc = ad hoc
743 \cmdtxtabr{\adhoc}[ad hoc]

\afortiori • \afortiori = a fortiori
744 \cmdtxtabr{\afortiori}[a fortiori]

\apriori • \apriori = a priori
745 \cmdtxtabr{\apriori}[a priori]

\aposteriori • \aposteriori = a posteriori
746 \cmdtxtabr{\aposteriori}[a posteriori]

\cf • \cf = cf.
747 \cmdtxtabr{\cf}[cf.]

```

`\dedicto`      • `\dedicto = de dicto`  
748 `\cmdtxtabr{dedicto}[de dicto]`

`\defacto`      • `\defacto = de facto`  
749 `\cmdtxtabr{defacto}[de facto]`

`\dere`          • `\dere = de re`  
750 `\cmdtxtabr{dere}[de re]`

`\divideetimpera`      • `\divideetimpera = divide et impera`  
751 `\cmdtxtabr{divideetimpera}[divide et impera]`

`\eg`            • `\eg = e.g.`  
752 `\cmdtxtabr{eg}[e.g.]`

`\ergo`          • `\ergo = ergo`  
753 `\cmdtxtabr{ergo}`

`\errata`        • `\errata = errata`  
754 `\cmdtxtabr{errata}`

`\erratum`      • `\erratum = erratum`  
755 `\cmdtxtabr{erratum}`

`\etal`          • `\etal = et al.`  
756 `\cmdtxtabr{etal}[et al.]`

`\etc`           • `\etc = etc.`  
757 `\cmdtxtabr{etc}[etc.]`

`\ie`            • `\ie = i.e.`  
758 `\cmdtxtabr{ie}[i.e.]`

`\mutatismutandis`      • `\mutatismutandis = mutatis mutandis`  
759 `\cmdtxtabr{mutatismutandis}[mutatis mutandis]`

`\percontra`      • `\percontra = per contra`  
760 `\cmdtxtabr{percontra}[per contra]`

`\primafacie`      • `\primafacie = prima facie`  
761 `\cmdtxtabr{primafacie}[prima facie]`

`\viceversa`      • `\viceversa = vice versa`  
762 `\cmdtxtabr{viceversa}[vice versa]`

`\vs`            • `\vs = vs.`  
763 `\cmdtxtabr{vs}[vs.]`

`\viz`           • `\viz = viz.`  
764 `\cmdtxtabr{viz}[viz.]`  
765 `%%*****%`

`\Afortiori`      • `\Afortiori = A fortiori`  
766 `\cmdtxtabr{Afortiori}[A fortiori]`

`\Apriori`        • `\Apriori = A priori`  
767 `\cmdtxtabr{Apriori}[A priori]`

$\backslash$ Aposteriori      •  $\backslash$ Aposteriori = *A posteriori*  
768 \cmdtxtabr{Aposteriori}[A posteriori]

$\backslash$ Dedicto      •  $\backslash$ Dedicto = *De dicto*  
769 \cmdtxtabr{Dedicto}[De dicto]

$\backslash$ Defacto      •  $\backslash$ Defacto = *De facto*  
770 \cmdtxtabr{Defacto}[De facto]

$\backslash$ Dere      •  $\backslash$ Dere = *De re*  
771 \cmdtxtabr{Dere}[De re]

$\backslash$ Divideetimperā      •  $\backslash$ Divideetimperā = *Divide et impera*  
772 \cmdtxtabr{Divideetimperā}[Divide et impera]

$\backslash$ Eg      •  $\backslash$ Eg = *E.g.*  
773 \cmdtxtabr{Eg}[E.g.]

$\backslash$ Errata      •  $\backslash$ Errata = *Errata*  
774 \cmdtxtabr{Errata}

$\backslash$ Erratum      •  $\backslash$ Erratum = *Erratum*  
775 \cmdtxtabr{Erratum}

$\backslash$ Mutatismutandis      •  $\backslash$ Mutatismutandis = *Mutatis mutandis*  
776 \cmdtxtabr{Mutatismutandis}[Mutatis mutandis]

$\backslash$ Percontra      •  $\backslash$ Percontra = *Per contra*  
777 \cmdtxtabr{Percontra}[Per contra]

$\backslash$ Prima facie      •  $\backslash$ Prima facie = *Prima facie*  
778 \cmdtxtabr{Prima facie}[Prima facie]

$\backslash$ Viceversa      •  $\backslash$ Viceversa = *Vice versa*  
779 \cmdtxtabr{Viceversa}[Vice versa]

780 %\*\* Italian Abbreviations \*\*\*\*\*%  
...  
781 %\*\*\*\*\*%  
...  
782 %\*\* French Abbreviations \*\*\*\*\*%

$\backslash$ naif      •  $\backslash$ naif = *naïf*  
783 \cmdtxtabr{naif}[na\{i}f]

$\backslash$ naive      •  $\backslash$ naive = *naïve*  
784 \cmdtxtabr{naive}[na\{i}ve]

$\backslash$ role      •  $\backslash$ role = *rôle*  
785 \cmdtxtabr{role}[r\^{o}le]

786 %\*\*\*\*\*%

$\backslash$ Role      •  $\backslash$ Role = *Rôle*  
787 \cmdtxtabr{Role}[R\^{o}le]

788 %\*\* English Abbreviations \*\*\*\*\*%

```

\aka • \aka = a.k.a.
789 \cmdtxtabr{aka}[a.k.a.]

\contd • \contd = contd.
790 \cmdtxtabr{contd}[contd.]

\iff • \iff = iff
791 \cmdtxtabr{iff}

\iht • \iht = i.h.t.
792 \cmdtxtabr{iht}[i.h.t.]

\stx • \stx = s.t.
793 \cmdtxtabr{stx}[s.t.]

\resp • \resp = resp.
794 \cmdtxtabr{resp}[resp.]

\wrt • \wrt = w.r.t.
795 \cmdtxtabr{wrt}[w.r.t.]

\wlogx • \wlogx = w.l.o.g.
796 \cmdtxtabr{wlogx}[w.l.o.g.]
797 %%*****%%

\Contd • \Contd = Contd.
798 \cmdtxtabr{Contd}[Contd.]

\Wlogx • \Wlogx = W.l.o.g.
799 \cmdtxtabr{Wlogx}[W.l.o.g.]

800 \fi
801 %%*****%%
802 %%*****%%
803 %%** Elementary Macros for Math *****%%
804 %%*****%%
805 \ifmath@
806 %%** General Notation *****%%

\defeq, \seteq ...
807 \DeclareRobustCommand{\defeq}
808 {\@ifstar%
809 {\mthlbop{\stackrel{\text{\textup{def}}}{=}}}%
810 {\mthlbop{\triangleleft}}}%
811 \DeclareRobustCommand{\seteq}
812 {\@ifstar{\mthlbop{:=}}{\mthlbop{:=}}}
813 %%*****%%

\implies,
814 \DeclareRobustCommand{\implies}
815 {\mthlrel{\Rightarrow}}
816 \DeclareRobustCommand{\notimplies}
817 {\mthlrel{\not\Rightarrow}}

\implied,
818 \DeclareRobustCommand{\implied}
819 {\mthlrel{\Leftarrow}}
820 \DeclareRobustCommand{\notimplied}
821 {\mthlrel{\not\Leftarrow}}

```

```

\coimplies,
822 \DeclareRobustCommand{\coimplies}
823 {\mthlrel{\Leftrightarrow}}
824 \DeclareRobustCommand{\notcoimplies}
825 {\mthlrel{\not\!\Leftrightarrow}}

826 %%*****%

\cmodels,
827 \DeclareRobustCommand{\cmodels}
828 {\mthlrel{\models}}
829 \DeclareRobustCommand{\notcmodels}
830 {\mthlrel{\not\models}}

\cequiv,
831 \DeclareRobustCommand{\cequiv}
832 {\mthlrel{\equiv}}
833 \DeclareRobustCommand{\notcequiv}
834 {\mthlrel{\not\equiv}}

835 %%*****%

\denot ...
836 \DeclareRobustCommand{\denot}
837 {\@ifstar{\@denot}{\@denot[\left][\right]}}
838 \DeclareRobustCommandx{\@denot}[3][1=, 2=]
839 {\mth{\argmid{\#1\llbracket}{\#3}{\#2\rrbracket}}}

840 %%*****%

\dual, \adj,
841 \DeclareRobustCommand{\dual}[1]
842 {\mth{\overline{\#1}}}
843 \DeclareRobustCommand{\adj}[1]
844 {\mth{\mathring{\#1}}}
845 \DeclareRobustCommand{\der}[1]
846 {\mth{\widehat{\#1}}}
847 \DeclareRobustCommand{\trn}[1]
848 {\mth{\widetilde{\#1}}}

\vec ...
849 \DeclareRobustCommand{\vec}
850 {\@ifstar{\@svec}{\@vec}}
851 \DeclareRobustCommand{\@vec}[1]
852 {\mth{\mathaccent"017E{\#1}}}
853 \DeclareRobustCommand{\@svec}[1]
854 {\mth{\overline{\#1}}}

855 %%*****%

\enumeration,
856 \varcmd{enumeration}{\mth}{\{,\}{}}
857 \varcmd{enumerationx}{\mth}{\{;\}{}}

\sequence,
858 \varcmd{sequence}{\mth}{\left[\{,\}\right]\{}}
859 \varcmd{sequencel}{\mth}{\left[\{,\}\right.]\{}}
860 \varcmd{sequencer}{\mth}{\left[\{,\}\right]}\{}}
861 \varcmd{sequencex}{\mth}{\left[\{;\}\right]}\{}}
862 \varcmd{sequencexl}{\mth}{\left[\{;\}\right.]\{}}
863 \varcmd{sequencexr}{\mth}{\left[\{;\}\right]}\{}}

```

```

\tuple,
864 \varcmd{tuple}{\mth}{\left\langle}{,}{\right\rangle}{}
865 \varcmd{tuplel}{\mth}{\left\langle}{,}{\right.}{}
866 \varcmd{tupler}{\mth}{\left.}{,}{\right\rangle}{}
867 \varcmd{tuplex}{\mth}{\left\langle}{;}{\right\rangle}{}
868 \varcmd{tuplexl}{\mth}{\left\langle}{;}{\right.}{}
869 \varcmd{tuplexr}{\mth}{\left.}{;}{\right\rangle}{}

870 %** Sets *****%%

\set,
871 \DeclareRobustCommand{\set}
872 {\ifstar{\@set}{\@set[\left][\middle][\right]}}
873 \DeclareRobustCommandx{\set}[5][1=, 2=, 3=]
874 {\mth{\argmid{#1\lbrace}{\argsep{#4}{\, #2\vert\,}{#5}}{#3\rbrace}}}
875 \DeclareRobustCommand{\setl}
876 {\ifstar{\@setl}{\@setl[\left][\right]}}
877 \DeclareRobustCommandx{\setl}[3][1=, 2=]
878 {\mth{\argmid{#1\lbrace}{#3}{\, #2\vert\!}}{}}
879 \DeclareRobustCommand{\setr}
880 {\ifstar{\@setr}{\@setr[\left.][\right]}}
881 \DeclareRobustCommandx{\setr}[3][1=, 2=]
882 {\mth{\argmid{#1}{#3}{#2\rbrace}}}

\card ...
883 \DeclareRobustCommand{\card}
884 {\ifstar{\@card}{\@card[\left][\right]}}
885 \DeclareRobustCommandx{\card}[3][1=, 2=]
886 {\mth{\argmid{#1\lvert}{#3}{#2\rvert}}}

\pow ...
887 \DeclareRobustCommand{\pow}[1]
888 {\mth{2^{\defval{#1}{\cdot}}}}

889 %** Relations *****%%

\emptyrel ...
890 \DeclareRobustCommand{\emptyrel}
891 {\mth{\varnothing}}

892 %*****%%

\dom, \cod,
893 \usrmth{dom}{\}{\argfun}
894 \usrmth{cod}{\}{\argfun}
895 \usrmth{rng}{\}{\argfun}
896 \usrmth{img}{\}{\argfun}

897 %*****%%

\prj ...
898 \DeclareRobustCommand{\prj}
899 {\mthargfun{prj}}

\rst ...
900 \DeclareRobustCommand{\rst}
901 {\mthlbop{\upharpoonright}}

\cmp ...
902 \DeclareRobustCommand{\cmp}
903 {\mthlbop{\circ}}

904 %** Functions *****%%

```



```

\emptyfun ...
905 \DeclareRobustCommand{\emptyfun}
906 {\mth{\varnothing}}

907 %%*****%

\pto, \pmapsto ...
908 \DeclareMathOperator{\pto}
909 {\ensuremath{\rightharpoonup}}
910 \DeclareMathOperator{\pmapsto}
911 {\ensuremath{\mathrel{\raisebox{0.5ex}{\footnotesize\llcorner}%
912 \kern-1.5ex\rightharpoonup}}}}

913 %%*****%

\fix, \ifp,
914 \usrmth{fix}{\}{fun}
915 \usrmth{ifp}{\}{fun}
916 \usrmth{lfp}{\}{fun}
917 \usrmth{gfp}{\}{fun}

918 %%*****%

\Aomega, \AOmega ...
919 \usrmth{Aomega}{\}{argset}[\omega]
920 \usrmth{AOmega}{\}{argset}[\Omega]

\Atheta, \ATheta ...
921 \usrmth{Atheta}{\}{argset}[\theta]
922 \usrmth{ATheta}{\}{argset}[\Theta]

\Aomicron,
923 \usrmth{Aomicron}{\}{argset}[\omicron]
924 \usrmth{AOmicron}{\}{argset}[\Omicron]

925 %** Numbers *****%

\SetB ...
926 \DeclareRobustCommand{\SetB}
927 {\mthset[mathbb]{B}}

\SetF ...
928 \DeclareRobustCommand{\SetF}
929 {\mthset[mathbb]{F}}

\SetN,
930 \DeclareRobustCommand{\SetN}
931 {\mthset[mathbb]{N}}
932 \DeclareRobustCommand{\SetNI}[1] []
933 {\SetN[\infty #1]}

\SetZ,
934 \DeclareRobustCommand{\SetZ}
935 {\mthset[mathbb]{Z}}
936 \DeclareRobustCommand{\SetZI}[1] []
937 {\SetZ[\pm\infty #1]}
938 \DeclareRobustCommand{\SetZPI}[1] []
939 {\SetZ[+\infty #1]}
940 \DeclareRobustCommand{\SetZNI}[1] []
941 {\SetZ[-\infty #1]}

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\SetQ,
942 \DeclareRobustCommand{\SetQ}
943 {\mthset[mathbb]{Q}}
944 \DeclareRobustCommand{\SetQI}[1] []
945 {\SetQ[\pm\infty #1]}
946 \DeclareRobustCommand{\SetQPI}[1] []
947 {\SetQ[+\infty #1]}
948 \DeclareRobustCommand{\SetQNI}[1] []
949 {\SetQ[-\infty #1]}

\SetR,
950 \DeclareRobustCommand{\SetR}
951 {\mthset[mathbb]{R}}
952 \DeclareRobustCommand{\SetRI}[1] []
953 {\SetR[\pm\infty #1]}
954 \DeclareRobustCommand{\SetRPI}[1] []
955 {\SetR[+\infty #1]}
956 \DeclareRobustCommand{\SetRNI}[1] []
957 {\SetR[-\infty #1]}

\SetC,
958 \DeclareRobustCommand{\SetC}
959 {\mthset[mathbb]{C}}
960 \DeclareRobustCommand{\SetCI}[1] []
961 {\SetC[\infty #1]}

962 %%*****

\num,
963 \DeclareRobustCommand{\num}[1]
964 {\mth{[#1]}}
965 \DeclareRobustCommand{\numcc}[2]
966 {\mth{[\argsep{#1}{,}{#2}]}}
967 \DeclareRobustCommand{\numco}[2]
968 {\mth{[\argsep{#1}{,}{#2})}}
969 \DeclareRobustCommand{\numoc}[2]
970 {\mth{(\argsep{#1}{,}{#2})}}
971 \DeclareRobustCommand{\numoo}[2]
972 {\mth{(\argsep{#1}{,}{#2}))}}

973 %%*****

\abs ...
974 \DeclareRobustCommand{\abs}
975 {\@ifstar{\@abs}{\@abs[\left][\right]}}
976 \DeclareRobustCommandx{\@abs}[3][1=, 2=]
977 {\mth{\argmid{#1\lvert}{#3}{#2\rvert}}}

\floor, \ceil ...
978 \DeclareRobustCommand{\floor}
979 {\@ifstar{\@floor}{\@floor[\left][\right]}}
980 \DeclareRobustCommandx{\@floor}[3][1=, 2=]
981 {\mth{\argmid{#1\lfloor}{#3}{#2\rfloor}}}
982 \DeclareRobustCommand{\ceil}
983 {\@ifstar{\@ceil}{\@ceil[\left][\right]}}
984 \DeclareRobustCommandx{\@ceil}[3][1=, 2=]
985 {\mth{\argmid{#1\lceil}{#3}{#2\rceil}}}

986 %%*****

\arg ...
987 \usrmth{arg}{\fun}

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\evn, \odd ...
 988 \usrmth{evn}{-}{fun}
 989 \usrmth{odd}{-}{fun}

\bst,
 990 \usrmth{bst}{-}{fun}
 991 \usrmth{argbst}{-}{fun}[arg\,bst]

\min, \max,
 992 \usrmth{min}{-}{fun}
 993 \usrmth{max}{-}{fun}
 994 \usrmth{argmin}{-}{fun}[arg\,min]
 995 \usrmth{argmax}{-}{fun}[arg\,max]

\inf, \sup ...
 996 \usrmth{inf}{-}{fun}
 997 \usrmth{sup}{-}{fun}

 998 %** Sequences *****%

\emptyseq ...
 999 \DeclareRobustCommand{\emptyseq}
 1000 {\mth{\varepsilon}}

\len ...
 1001 \DeclareRobustCommand{\len}
 1002 {\@ifstar{\@len}{\@len[\left][\right]}}
 1003 \DeclareRobustCommandx{\@len}[3][1=, 2=]
 1004 {\mth{\argmid{\#1\lvert}{\#3}{\#2\rvert}}}

\fst, \lst ...
 1005 \usrmth{fst}{-}{argfun}
 1006 \usrmth{lst}{-}{argfun}

 1007 \fi
 1008 %*****%
 1009 %*****%
 1010 %** Macros for Computational-Complexity Classes *****%
 1011 %*****%
 1012 \ifcom@

\defcomcls ... to do!
 • \defcomcls{CompClass};

 \CompClass[sub][sup][arg] = COMPCLASSSUB(ARG)

 • \defcomcls{CompClass}[NewClass];

 \CompClass[sub][sup][arg] = NEWCLASSSUB(ARG)

 1013 \newcommandx{\defcomcls}[2][2=]
 1014 {\csdef{\#1}{\txtoargcom{\defval{\#2}{\#1}}}}

\defcomclsgrp ... to do!
 • \defcomclsgrp{CompClass};

 \CompClass[sub][sup][arg] = COMPCLASSSUB(ARG)
 \CoCompClass[sub][sup][arg] = COCOMPCLASSSUB(ARG)
 \CompClassE[sub][sup][arg] = COMPCLASS-EASYSUB(ARG)
 \CoCompClassE[sub][sup][arg] = COCOMPCLASS-EASYSUB(ARG)
 \CompClassH[sub][sup][arg] = COMPCLASS-HARDSUB(ARG)
 \CoCompClassH[sub][sup][arg] = COCOMPCLASS-HARDSUB(ARG)

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\CompClassC[sub][sup][arg] = COMPCLASS-COMPLETESUB(ARG)
\CoCompClassC[sub][sup][arg] = CoCOMPCLASS-COMPLETESUB(ARG)

\DCompClass[sub][sup][arg] = DCOMPCLASSSUB(ARG)
\CoDCompClass[sub][sup][arg] = CoDCOMPCLASSSUB(ARG)
\DCompClassE[sub][sup][arg] = DCOMPCLASS-EASYSUB(ARG)
\CoDCompClassE[sub][sup][arg] = CoDCOMPCLASS-EASYSUB(ARG)
\DCompClassH[sub][sup][arg] = DCOMPCLASS-HARDSUB(ARG)
\CoDCompClassH[sub][sup][arg] = CoDCOMPCLASS-HARDSUB(ARG)
\DCompClassC[sub][sup][arg] = DCOMPCLASS-COMPLETESUB(ARG)
\CoDCompClassC[sub][sup][arg] = CoDCOMPCLASS-COMPLETESUB(ARG)

\NCompClass[sub][sup][arg] = NCOMPCLASSSUB(ARG)
\CoNCompClass[sub][sup][arg] = CoNCOMPCLASSSUB(ARG)
\NCompClassE[sub][sup][arg] = NCOMPCLASS-EASYSUB(ARG)
\CoNCompClassE[sub][sup][arg] = CoNCOMPCLASS-EASYSUB(ARG)
\NCompClassH[sub][sup][arg] = NCOMPCLASS-HARDSUB(ARG)
\CoNCompClassH[sub][sup][arg] = CoNCOMPCLASS-HARDSUB(ARG)
\NCompClassC[sub][sup][arg] = NCOMPCLASS-COMPLETESUB(ARG)
\CoNCompClassC[sub][sup][arg] = CoNCOMPCLASS-COMPLETESUB(ARG)

\UCompClass[sub][sup][arg] = UCOMPCLASSSUB(ARG)
\CoUCompClass[sub][sup][arg] = CoUCOMPCLASSSUB(ARG)
\UCompClassE[sub][sup][arg] = UCOMPCLASS-EASYSUB(ARG)
\CoUCompClassE[sub][sup][arg] = CoUCOMPCLASS-EASYSUB(ARG)
\UCompClassH[sub][sup][arg] = UCOMPCLASS-HARDSUB(ARG)
\CoUCompClassH[sub][sup][arg] = CoUCOMPCLASS-HARDSUB(ARG)
\UCompClassC[sub][sup][arg] = UCOMPCLASS-COMPLETESUB(ARG)
\CoUCompClassC[sub][sup][arg] = CoUCOMPCLASS-COMPLETESUB(ARG)

\ACompClass[sub][sup][arg] = ACOMPCLASSSUB(ARG)
\CoACompClass[sub][sup][arg] = CoACOMPCLASSSUB(ARG)
\ACompClassE[sub][sup][arg] = ACOMPCLASS-EASYSUB(ARG)
\CoACompClassE[sub][sup][arg] = CoACOMPCLASS-EASYSUB(ARG)
\ACompClassH[sub][sup][arg] = ACOMPCLASS-HARDSUB(ARG)
\CoACompClassH[sub][sup][arg] = CoACOMPCLASS-HARDSUB(ARG)
\ACompClassC[sub][sup][arg] = ACOMPCLASS-COMPLETESUB(ARG)
\CoACompClassC[sub][sup][arg] = CoACOMPCLASS-COMPLETESUB(ARG)

• \defcomclsggrp{CompClass}{NewClass};

\CompClass[sub][sup][arg] = NEWCLASSSUB(ARG)
\CoCompClass[sub][sup][arg] = CoNEWCLASSSUB(ARG)
\CompClassE[sub][sup][arg] = NEWCLASS-EASYSUB(ARG)
\CoCompClassE[sub][sup][arg] = CoNEWCLASS-EASYSUB(ARG)
\CompClassH[sub][sup][arg] = NEWCLASS-HARDSUB(ARG)
\CoCompClassH[sub][sup][arg] = CoNEWCLASS-HARDSUB(ARG)
\CompClassC[sub][sup][arg] = NEWCLASS-COMPLETESUB(ARG)
\CoCompClassC[sub][sup][arg] = CoNEWCLASS-COMPLETESUB(ARG)

\DCompClass[sub][sup][arg] = DNEWCLASSSUB(ARG)
\CoDCompClass[sub][sup][arg] = CoDNEWCLASSSUB(ARG)
\DCompClassE[sub][sup][arg] = DNEWCLASS-EASYSUB(ARG)
\CoDCompClassE[sub][sup][arg] = CoDNEWCLASS-EASYSUB(ARG)
\DCompClassH[sub][sup][arg] = DNEWCLASS-HARDSUB(ARG)
\CoDCompClassH[sub][sup][arg] = CoDNEWCLASS-HARDSUB(ARG)
\DCompClassC[sub][sup][arg] = DNEWCLASS-COMPLETESUB(ARG)
\CoDCompClassC[sub][sup][arg] = CoDNEWCLASS-COMPLETESUB(ARG)

\NCompClass[sub][sup][arg] = NNEWCLASSSUB(ARG)
\CoNCompClass[sub][sup][arg] = CoNNEWCLASSSUB(ARG)
\NCompClassE[sub][sup][arg] = NNEWCLASS-EASYSUB(ARG)
\CoNCompClassE[sub][sup][arg] = CoNNEWCLASS-EASYSUB(ARG)
\NCompClassH[sub][sup][arg] = NNEWCLASS-HARDSUB(ARG)
\CoNCompClassH[sub][sup][arg] = CoNNEWCLASS-HARDSUB(ARG)

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\NCompClassC[sub][sup][arg] = NNEWCLASS-COMPLETESUBSUP(ARG)
\CoNCompClassC[sub][sup][arg] = CONNEWCLASS-COMPLETESUBSUP(ARG)

\UCompClass[sub][sup][arg] = UNEWCLASSSUP(ARG)
\CoUCompClass[sub][sup][arg] = COUNEWCLASSSUP(ARG)
\UCompClassE[sub][sup][arg] = UNEWCLASS-EASYSUP(ARG)
\CoUCompClassE[sub][sup][arg] = COUNEWCLASS-EASYSUP(ARG)
\UCompClassH[sub][sup][arg] = UNEWCLASS-HARDSUP(ARG)
\CoUCompClassH[sub][sup][arg] = COUNEWCLASS-HARDSUP(ARG)
\UCompClassC[sub][sup][arg] = UNEWCLASS-COMPLETESUBSUP(ARG)
\CoUCompClassC[sub][sup][arg] = COUNEWCLASS-COMPLETESUBSUP(ARG)

\ACompClass[sub][sup][arg] = ANEWCLASSSUP(ARG)
\CoACompClass[sub][sup][arg] = COANEWCLASSSUP(ARG)
\ACompClassE[sub][sup][arg] = ANEWCLASS-EASYSUP(ARG)
\CoACompClassE[sub][sup][arg] = COANEWCLASS-EASYSUP(ARG)
\ACompClassH[sub][sup][arg] = ANEWCLASS-HARDSUP(ARG)
\CoACompClassH[sub][sup][arg] = COANEWCLASS-HARDSUP(ARG)
\ACompClassC[sub][sup][arg] = ANEWCLASS-COMPLETESUBSUP(ARG)
\CoACompClassC[sub][sup][arg] = COANEWCLASS-COMPLETESUBSUP(ARG)

1015 \newcommandx{\defcomclsggrp}{2}[2]=
1016 {\defcomclsgrpsem{#1}{\defval{#2}{#1}}}%
1017 \defcomclsgrpsem{#1}{\defval{#2}{#1}}[Co]}
1018 \newcommandx{\defcomclsgrp}{3}[3]=
1019 {\defcomclsgrp{#3#1}{#2}{#3}}%
1020 \defcomclsgrp{#3D#1}{#2}{#3D}}%
1021 \defcomclsgrp{#3N#1}{#2}{#3N}}%
1022 \defcomclsgrp{#3U#1}{#2}{#3U}}%
1023 \defcomclsgrp{#3A#1}{#2}{#3A}}%
1024 \newcommandx{\defcomclsgrp}{3}[3]=
1025 {\defcomclsgrp{#1}{#2}{#3}}%
1026 \defcomclsgrp{#1E}{#2}{#3}[-easy]}%
1027 \defcomclsgrp{#1H}{#2}{#3}[-hard]}%
1028 \defcomclsgrp{#1C}{#2}{#3}[-complete]}%
1029 \newcommandx{\defcomclsgrp}{4}[4][3=, 4=]
1030 {\csdef{#1}{\txttoargcom{#3#2#4}}}%

\defcomhrc ... to do!
 • \defcomhrc{CompHierarchy};

 CompHierarchy[sub][sup][par] = COMPHIERARCHYSUP[PAR]

 • \defcomhrc{CompHierarchy}[NewHierarchy];

 CompHierarchy[sub][sup][par] = NEWHIERARCHYSUP[PAR]

1031 \newcommandx{\defcomhrc}{2}[2]=
1032 {\csdef{#1}{\txttoparcom{\defval{#2}{#1}}}}

1033 %%*****%

\Easy, \Hard, ...

1034 \cmdtxtcom{Easy}
1035 \cmdtxtcom{Hard}
1036 \cmdtxtcom{Complete}

1037 %%*****%

\FPT • \FPT[sub][sup][arg] = FPTSUP(ARG)

1038 \defcomcls{FPT}

1039 %%*****%

```

\Time, ...

- \Time[sub][sup][arg] = TIME<sub>SUB</sub><sup>SUP</sup>(ARG)
- \TimeE[sub][sup][arg] = TIME-EASY<sub>SUB</sub><sup>SUP</sup>(ARG)
- \TimeH[sub][sup][arg] = TIME-HARD<sub>SUB</sub><sup>SUP</sup>(ARG)
- \TimeC[sub][sup][arg] = TIME-COMPLETE<sub>SUB</sub><sup>SUP</sup>(ARG)
- \DTime[sub][sup][arg] = DTIME<sub>SUB</sub><sup>SUP</sup>(ARG)
- \DTimeE[sub][sup][arg] = DTIME-EASY<sub>SUB</sub><sup>SUP</sup>(ARG)
- \DTimeH[sub][sup][arg] = DTIME-HARD<sub>SUB</sub><sup>SUP</sup>(ARG)
- \DTimeC[sub][sup][arg] = DTIME-COMPLETE<sub>SUB</sub><sup>SUP</sup>(ARG)
- \NTime[sub][sup][arg] = NTIME<sub>SUB</sub><sup>SUP</sup>(ARG)
- \NTimeE[sub][sup][arg] = NTIME-EASY<sub>SUB</sub><sup>SUP</sup>(ARG)
- \NTimeH[sub][sup][arg] = NTIME-HARD<sub>SUB</sub><sup>SUP</sup>(ARG)
- \NTimeC[sub][sup][arg] = NTIME-COMPLETE<sub>SUB</sub><sup>SUP</sup>(ARG)
- \UTime[sub][sup][arg] = UTIME<sub>SUB</sub><sup>SUP</sup>(ARG)
- \UTimeE[sub][sup][arg] = UTIME-EASY<sub>SUB</sub><sup>SUP</sup>(ARG)
- \UTimeH[sub][sup][arg] = UTIME-HARD<sub>SUB</sub><sup>SUP</sup>(ARG)
- \UTimeC[sub][sup][arg] = UTIME-COMPLETE<sub>SUB</sub><sup>SUP</sup>(ARG)
- \ATime[sub][sup][arg] = ATIME<sub>SUB</sub><sup>SUP</sup>(ARG)
- \ATimeE[sub][sup][arg] = ATIME-EASY<sub>SUB</sub><sup>SUP</sup>(ARG)
- \ATimeH[sub][sup][arg] = ATIME-HARD<sub>SUB</sub><sup>SUP</sup>(ARG)
- \ATimeC[sub][sup][arg] = ATIME-COMPLETE<sub>SUB</sub><sup>SUP</sup>(ARG)

1040 \defcomclsgrp{Time}

\Space, ...

- \Space[sub][sup][arg] = SPACE<sub>SUB</sub><sup>SUP</sup>(ARG)
- \SpaceE[sub][sup][arg] = SPACE-EASY<sub>SUB</sub><sup>SUP</sup>(ARG)
- \SpaceH[sub][sup][arg] = SPACE-HARD<sub>SUB</sub><sup>SUP</sup>(ARG)
- \SpaceC[sub][sup][arg] = SPACE-COMPLETE<sub>SUB</sub><sup>SUP</sup>(ARG)
- \DSpace[sub][sup][arg] = DSPACE<sub>SUB</sub><sup>SUP</sup>(ARG)
- \DSpaceE[sub][sup][arg] = DSPACE-EASY<sub>SUB</sub><sup>SUP</sup>(ARG)
- \DSpaceH[sub][sup][arg] = DSPACE-HARD<sub>SUB</sub><sup>SUP</sup>(ARG)
- \DSpaceC[sub][sup][arg] = DSPACE-COMPLETE<sub>SUB</sub><sup>SUP</sup>(ARG)
- \NSpace[sub][sup][arg] = NSPACE<sub>SUB</sub><sup>SUP</sup>(ARG)
- \NSpaceE[sub][sup][arg] = NSPACE-EASY<sub>SUB</sub><sup>SUP</sup>(ARG)
- \NSpaceH[sub][sup][arg] = NSPACE-HARD<sub>SUB</sub><sup>SUP</sup>(ARG)
- \NSpaceC[sub][sup][arg] = NSPACE-COMPLETE<sub>SUB</sub><sup>SUP</sup>(ARG)
- \USpace[sub][sup][arg] = USPACE<sub>SUB</sub><sup>SUP</sup>(ARG)
- \USpaceE[sub][sup][arg] = USPACE-EASY<sub>SUB</sub><sup>SUP</sup>(ARG)
- \USpaceH[sub][sup][arg] = USPACE-HARD<sub>SUB</sub><sup>SUP</sup>(ARG)
- \USpaceC[sub][sup][arg] = USPACE-COMPLETE<sub>SUB</sub><sup>SUP</sup>(ARG)
- \ASpace[sub][sup][arg] = ASPACE<sub>SUB</sub><sup>SUP</sup>(ARG)
- \ASpaceE[sub][sup][arg] = ASPACE-EASY<sub>SUB</sub><sup>SUP</sup>(ARG)
- \ASpaceH[sub][sup][arg] = ASPACE-HARD<sub>SUB</sub><sup>SUP</sup>(ARG)
- \ASpaceC[sub][sup][arg] = ASPACE-COMPLETE<sub>SUB</sub><sup>SUP</sup>(ARG)

1041 \defcomclsgrp{Space}

\LogTime, ...

- \LogTime[sub][sup][arg] = LOGTIME<sub>SUB</sub><sup>SUP</sup>(ARG)
- \LogTimeE[sub][sup][arg] = LOGTIME-EASY<sub>SUB</sub><sup>SUP</sup>(ARG)
- \LogTimeH[sub][sup][arg] = LOGTIME-HARD<sub>SUB</sub><sup>SUP</sup>(ARG)
- \LogTimeC[sub][sup][arg] = LOGTIME-COMPLETE<sub>SUB</sub><sup>SUP</sup>(ARG)
- \DLogTime[sub][sup][arg] = DLOGTIME<sub>SUB</sub><sup>SUP</sup>(ARG)
- \DLogTimeE[sub][sup][arg] = DLOGTIME-EASY<sub>SUB</sub><sup>SUP</sup>(ARG)
- \DLogTimeH[sub][sup][arg] = DLOGTIME-HARD<sub>SUB</sub><sup>SUP</sup>(ARG)
- \DLogTimeC[sub][sup][arg] = DLOGTIME-COMPLETE<sub>SUB</sub><sup>SUP</sup>(ARG)
- \NLogTime[sub][sup][arg] = NLOGTIME<sub>SUB</sub><sup>SUP</sup>(ARG)
- \NLogTimeE[sub][sup][arg] = NLOGTIME-EASY<sub>SUB</sub><sup>SUP</sup>(ARG)
- \NLogTimeH[sub][sup][arg] = NLOGTIME-HARD<sub>SUB</sub><sup>SUP</sup>(ARG)
- \NLogTimeC[sub][sup][arg] = NLOGTIME-COMPLETE<sub>SUB</sub><sup>SUP</sup>(ARG)
- \ULogTime[sub][sup][arg] = ULOGTIME<sub>SUB</sub><sup>SUP</sup>(ARG)
- \ULogTimeE[sub][sup][arg] = ULOGTIME-EASY<sub>SUB</sub><sup>SUP</sup>(ARG)
- \ULogTimeH[sub][sup][arg] = ULOGTIME-HARD<sub>SUB</sub><sup>SUP</sup>(ARG)
- \ULogTimeC[sub][sup][arg] = ULOGTIME-COMPLETE<sub>SUB</sub><sup>SUP</sup>(ARG)



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1045 \defcomclsgrp{PSpace}
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```
1046 \defcomclsgrp{QPTime}
```

```
1047 \defcomclsgrp{QPSpace}
```



```

\ExpTime, ...
• \ExpTime[sub][sup][arg] = EXP\TimeSUBSUB(ARG)
\ExpTimeE[sub][sup][arg] = EXP\Time-EASYSUBSUB(ARG)
\ExpTimeH[sub][sup][arg] = EXP\Time-HARDSUBSUB(ARG)
\ExpTimeC[sub][sup][arg] = EXP\Time-COMpleteSUBSUB(ARG)

• \DExpTime[sub][sup][arg] = DEXP\TimeSUBSUB(ARG)
\DExpTimeE[sub][sup][arg] = DEXP\Time-EASYSUBSUB(ARG)
\DExpTimeH[sub][sup][arg] = DEXP\Time-HARDSUBSUB(ARG)
\DExpTimeC[sub][sup][arg] = DEXP\Time-COMpleteSUBSUB(ARG)

• \NExpTime[sub][sup][arg] = NEXP\TimeSUBSUB(ARG)
\NExpTimeE[sub][sup][arg] = NEXP\Time-EASYSUBSUB(ARG)
\NExpTimeH[sub][sup][arg] = NEXP\Time-HARDSUBSUB(ARG)
\NExpTimeC[sub][sup][arg] = NEXP\Time-COMpleteSUBSUB(ARG)

• \UExpTime[sub][sup][arg] = UEXP\TimeSUBSUB(ARG)
\UExpTimeE[sub][sup][arg] = UEXP\Time-EASYSUBSUB(ARG)
\UExpTimeH[sub][sup][arg] = UEXP\Time-HARDSUBSUB(ARG)
\UExpTimeC[sub][sup][arg] = UEXP\Time-COMpleteSUBSUB(ARG)

• \AExpTime[sub][sup][arg] = AEXP\TimeSUBSUB(ARG)
\AExpTimeE[sub][sup][arg] = AEXP\Time-EASYSUBSUB(ARG)
\AExpTimeH[sub][sup][arg] = AEXP\Time-HARDSUBSUB(ARG)
\AExpTimeC[sub][sup][arg] = AEXP\Time-COMpleteSUBSUB(ARG)

1048 \defcomclsggrp{ExpTime}

\ExpSpace, ...
• \ExpSpace[sub][sup][arg] = EXP\SpaceSUBSUB(ARG)
\ExpSpaceE[sub][sup][arg] = EXP\Space-EASYSUBSUB(ARG)
\ExpSpaceH[sub][sup][arg] = EXP\Space-HARDSUBSUB(ARG)
\ExpSpaceC[sub][sup][arg] = EXP\Space-COMpleteSUBSUB(ARG)

• \DExpSpace[sub][sup][arg] = DEXP\SpaceSUBSUB(ARG)
\DExpSpaceE[sub][sup][arg] = DEXP\Space-EASYSUBSUB(ARG)
\DExpSpaceH[sub][sup][arg] = DEXP\Space-HARDSUBSUB(ARG)
\DExpSpaceC[sub][sup][arg] = DEXP\Space-COMpleteSUBSUB(ARG)

• \NExpSpace[sub][sup][arg] = NEXP\SpaceSUBSUB(ARG)
\NExpSpaceE[sub][sup][arg] = NEXP\Space-EASYSUBSUB(ARG)
\NExpSpaceH[sub][sup][arg] = NEXP\Space-HARDSUBSUB(ARG)
\NExpSpaceC[sub][sup][arg] = NEXP\Space-COMpleteSUBSUB(ARG)

• \UExpSpace[sub][sup][arg] = UEXP\SpaceSUBSUB(ARG)
\UExpSpaceE[sub][sup][arg] = UEXP\Space-EASYSUBSUB(ARG)
\UExpSpaceH[sub][sup][arg] = UEXP\Space-HARDSUBSUB(ARG)
\UExpSpaceC[sub][sup][arg] = UEXP\Space-COMpleteSUBSUB(ARG)

• \AExpSpace[sub][sup][arg] = AEXP\SpaceSUBSUB(ARG)
\AExpSpaceE[sub][sup][arg] = AEXP\Space-EASYSUBSUB(ARG)
\AExpSpaceH[sub][sup][arg] = AEXP\Space-HARDSUBSUB(ARG)
\AExpSpaceC[sub][sup][arg] = AEXP\Space-COMpleteSUBSUB(ARG)

1049 \defcomclsggrp{ExpSpace}

1050 %%%

\PH
• \PH[sub][sup][par] = PHSUBSUB[PAR]

1051 \defcomhrc{PH}

\WH
• \WH[sub][sup][par] = WSUBSUB[PAR]

1052 \defcomhrc{WH}[W]

\AH
• \AH[sub][sup][par] = ASUBSUB[PAR]

1053 \defcomhrc{AH}[A]

\DLH, \DBH
• \DLH[sub][sup][par] = ΔSUBSUB[PAR]
• \DBH[sub][sup][par] = ΔSUBSUB[PAR]

1054 \defcomhrc{DLH}{\mth{\Delta}}
1055 \defcomhrc{DBH}{\mth[mathbf]{\Delta}}

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\ELH, \EBH • \ELH[sub][sup][par] = $\Sigma_{\text{SUB}}^{\text{SUP}}[\text{PAR}]$
 • \EBH[sub][sup][par] = $\Sigma_{\text{SUB}}^{\text{SUP}}[\text{PAR}]$
1056 \defcomhrc{ELH}{\mth{\Sigma}}
1057 \defcomhrc{EBH}{\mth[\mathbf]{\Sigma}}

\ULH, \UBH • \ULH[sub][sup][par] = $\Pi_{\text{SUB}}^{\text{SUP}}[\text{PAR}]$
 • \UBH[sub][sup][par] = $\Pi_{\text{SUB}}^{\text{SUP}}[\text{PAR}]$
1058 \defcomhrc{ULH}{\mth{\Pi}}
1059 \defcomhrc{UBH}{\mth[\mathbf]{\Pi}}

1060 \fi
1061 %*****
1062 %*****
1063 %** Macros for Games *****
1064 %*****
1065 \ifgam@
1066 %** Logic Games *****

\SATG,
1067 %% Satisfiability Games
1068 \cmdtxtopname{SATG}[Sat]
1069
1070 %% Validity Games
1071 \cmdtxtopname{VALG}[Val]
1072
1073 %% Evaluation Games
1074 \cmdtxtopname{EVLG}[Evl]
1075
1076 %% Synthesis Games
1077 \cmdtxtopname{SYNG}[Syn]
1078
1079 %% Model-Checking Games
1080 \cmdtxtopname{MCG}[MC]
1081
1082 %% Ehrenfeucht-Fraisse Games
1083 \cmdtxtopname{EFG}[EF]

1084 %** Syntax *****

\PlrSym, \OppSym ...
1085 \newcommand{\plrsym}{E}
1086 \cmdmthsym{Plr}{\plrsym}
1087 \newcommand{\oppsym}{A}
1088 \cmdmthsym{Opp}{\oppsym}

\ArenaName,
1089 \newcommand{\arenaname}{A}
1090 \usrmthlatupp{Arena}{Name}{name}{\arenaname}

\PosSet,
1091 \newcommand{\possym}{v}
1092 \newcommand{\posset}{Ps}
1093 \cmdmthsetext{Pos}{\posset}{\possym}
1094 \cmdmthsymelm{ipos}{\possym_{I}}
1095 \cmdmthsymelm{fpos}{\possym_{F}}
1096 \cmdmthset{PPos}{\posset_{\PlrSym}}
1097 \cmdmthsymelm{ppos}{\possym_{\PlrSym}}
1098 \cmdmthset{OPos}{\posset_{\OppSym}}
1099 \cmdmthsymelm{opos}{\possym_{\OppSym}}

```

```

\PlrFun ...
1100 \newcommand{\plrfun}{pl}
1101 \cmdmthfun{plr}[\plrfun]

\MovRel ...
1102 \newcommand{\movrel}{Mv}
1103 \cmdmthrel{Mov}[\movrel]

\GameName,
1104 \newcommand{\gamename}{\Game}
1105 \usrmthlatupp{Game}{Name}{name}[\gamename]

\WinSet ...
1106 \newcommand{\winset}{Wn}
1107 \cmdmthset{Win}[\winset]

\ObsSet, \obsFun ...
1108 \newcommand{\obsset}{Ob}
1109 \cmdmthset{Obs}[\obsset]
1110 \cmdmthfun{obs}

1111 %%** Semantics *****%%

\PthSet, \pthFun ...
1112 \newcommand{\pthsym}{\pi}
1113 \newcommand{\pthset}{Pth}
1114 \cmdmthsetext{Pth}[\pthset][\pthsym]
1115 \cmdmthfun{pth}

\HstSet,
1116 \newcommand{\hstsym}{\rho}
1117 \newcommand{\hstset}{Hst}
1118 \cmdmthsetext{Hst}[\hstset][\hstsym]
1119 \cmdmthset{PHst}[\hstset_{\PlrSym}]
1120 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
1121 \cmdmthset{OHst}[\hstset_{\OppSym}]
1122 \cmdmthsymelm{ohst}[\hstsym_{\OppSym}]
1123 \cmdmthfun{hst}

\PlaySet, \playFun ...
1124 \newcommand{\playsym}{\pi}
1125 \newcommand{\playset}{Play}
1126 \cmdmthsetext{Play}[\playset][\playsym]
1127 \cmdmthfun{play}

\StrSet,
1128 \newcommand{\strsym}{\sigma}
1129 \newcommand{\strset}{Str}
1130 \cmdmthsetext{Str}[\strset][\strsym]
1131 \cmdmthset{PStr}[\strset_{\PlrSym}]
1132 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
1133 \cmdmthset{OStr}[\strset_{\OppSym}]
1134 \cmdmthsymelm{ostr}[\strsym_{\OppSym}]

\PrfSet, \prfFun ...
1135 \newcommand{\prfsym}{\xi}
1136 \newcommand{\prfset}{Prf}
1137 \cmdmthsetext{Prf}[\prfset][\prfsym]

\preFun, \sucFun ...
1138 \newcommand{\prefun}{pre}
1139 \cmdmthoargfun{pre}[\prefun]
1140 \newcommand{\sucfun}{suc}
1141 \cmdmthoargfun{suc}[\sucfun]

```

```

\entFun, \escFun ...
1142 \newcommand{\entfun}{ent}
1143 \cmdmthoargfun{ent}[\entfun]
1144 \newcommand{\escfun}{esc}
1145 \cmdmthoargfun{esc}[\escfun]

\intFun, \outFun ...
1146 \newcommand{\intfun}{int}
1147 \cmdmthoargfun{int}[\intfun]
1148 \newcommand{\outfun}{out}
1149 \cmdmthoargfun{out}[\outfun]

\atrFun, \rchFun ...
1150 \newcommand{\atrfun}{atr}
1151 \cmdmthoargfun{atr}[\atrfun]
1152 \newcommand{\rchfun}{rch}
1153 \cmdmthoargfun{rch}[\rchfun]

\liftFun ...
1154 \newcommand{\liftfun}{lift}
1155 \cmdmthoargfun{lift}[\liftfun]

\solFun ...
1156 \newcommand{\solfun}{sol}
1157 \cmdmthoargfun{sol}[\solfun]

1158 %** Qualitative Games on Graph *****%

\BG,
1159 %% Buchi Games
1160 \cmdtxttoparname{BG}
1161
1162 %% Co-Buchi Games
1163 \cmdtxttoparname{CG}
1164
1165 %% Parity Games
1166 \cmdtxttoparname{PG}
1167
1168 %% Rabin Games
1169 \cmdtxttoparname{RG}
1170
1171 %% Streett Games
1172 \cmdtxttoparname{SG}
1173
1174 %% Muller Games
1175 \cmdtxttoparname{MG}

1176 %** Syntax *****%

\EvnSym, \OddSym ...
1177 \newcommand{\evnsym}{0}
1178 \cmdmthsym{Evnsym}[\evnsym]
1179 \newcommand{\oddsym}{1}
1180 \cmdmthsym{Oddsym}[\oddsym]

\PrtSet, \prtFun ...
1181 \newcommand{\prtsym}{p}
1182 \newcommand{\prtset}{Pr}
1183 \cmdmthsetext{Prt}[\prtset][\prtsym]
1184 \cmdmthfun{prt}[pr]

1185 %** Semantics *****%

```

...  
1186 %\*\* Quantitative Games on Graph \*\*\*\*\*%

\EG, ... ..

1187 % Energy Games  
1188 \cmdtxtopname{EG}  
1189  
1190 % Mean-Payoff Games  
1191 \cmdtxtopname{MPG}  
1192  
1193 % Discounted-Payoff Games  
1194 \cmdtxtopname{DPG}

1195 %\*\* Syntax \*\*\*\*\*%

\MaxSym, \MinSym ...

1196 \newcommand{\maxsym}{\oplus}  
1197 \cmdmthsym{Max}[\maxsym]  
1198 \newcommand{\minsym}{\boxminus}  
1199 \cmdmthsym{Min}[\minsym]

\WghSet, \wghFun ...

1200 \newcommand{\wghsym}{w}  
1201 \newcommand{\wghset}{Wg}  
1202 \cmdmthsetext{Wgh}[\wghset][\wghsym]  
1203 \cmdmthfun{wgh}[wg]

1204 %\*\* Semantics \*\*\*\*\*%

...  
1205 \fi  
1206 %\*\*\*\*\*%  
1207 %\*\*\*\*\*%  
1208 %\*\* Macros for Logics \*\*\*\*\*%  
1209 %\*\*\*\*\*%  
1210 \iflog@  
1211 %\*\* Propositional Logics \*\*\*\*\*%

\BF, \QBF, ... ..

1212 % Boolean Formulae  
1213 \cmdtxtopname{BF}  
1214  
1215 % Quantified Boolean Formulae  
1216 \DeclareRobustCommand{\QBF}  
1217 {\textname{Q}\BF}  
1218 \DeclareRobustCommand{\EBF}  
1219 {\ensuremath{\exists}\BF}  
1220 \DeclareRobustCommand{\UBF}  
1221 {\ensuremath{\forall}\BF}

1222 %\*\* Syntax \*\*\*\*\*%

\LogSig, ... ..

1223 \newcommand{\logsig}{L}  
1224 \usrmthlatupp{Log}{Sig}{sig}[\logsig]

\Tt, \Ff ...

1225 \newcommand{\ttsym}{\top}  
1226 \usrmth{Tt}{\sym}[\ttsym]  
1227 \newcommand{\ffsym}{\bot}  
1228 \usrmth{Ff}{\sym}[\ffsym]

```

\LNeg, \LNot ...
1229 \newcommand{\lnegsym}{\neg}
1230 \usrmth{LNeg}{-}{\luop}[\lnegsym]
1231 \newcommand{\lnotsym}{\sim}
1232 \usrmth{LNot}{-}{\luop}[\lnotsym]

\LCon, \LDis ...
1233 \newcommand{\lconsym}{\land}
1234 \usrmth{LCon}{-}{\lbop}[\lconsym]
1235 \newcommand{\ldissym}{\lor}
1236 \usrmth{LDis}{-}{\lbop}[\ldissym]

\LImp, \LCoi ...
1237 \newcommand{\limpsym}{\rightarrow}
1238 \usrmth{LImp}{-}{\lbop}[\limpsym]
1239 \newcommand{\lcoisym}{\leftrightharpoonup}
1240 \usrmth{LCoi}{-}{\lbop}[\lcoisym]

\LExs, \LAll ...
1241 \newcommand{\lexssym}{\exists}
1242 \usrmth{LExs}{-}{\luop}[\lexssym]
1243 \newcommand{\lallsym}{\forall}
1244 \usrmth{LAll}{-}{\luop}[\lallsym]

\APSet,
1245 \newcommand{\apsym}{p}
1246 \newcommand{\apset}{AP}
1247 \cmdmthsetext{AP}[\apset] [\apsym]
1248 \cmdmthfun{ap}\usrmth{ap}{-}{\argfun}

\sub ...
1249 \usrmth{sub}{-}{\argfun}

\Cnt, \Qnt, \Sym ...
1250 \usrmth{Cnt}{-}{\sym}[C]
1251 \usrmth{Qnt}{-}{\sym}[Q]
1252 \usrmth{Sym}{-}{\sym}[\odot]

\QAE, \QEA ...
1253 \usrmth{QAE}{-}{\sym}[\forall\exists]
1254 \usrmth{QEA}{-}{\sym}[\exists\forall]

\QntSet,
1255 \newcommand{\qntsym}{\wp}
1256 \newcommand{\qntset}{Qn}
1257 \cmdmthsetext{Qnt}[\qntset] [\qntsym]

\free, \bound ...
1258 \usrmth{free}{-}{\argfun}
1259 \usrmth{bound}{-}{\argfun}

\dep, \alt ...
1260 \usrmth{dep}{-}{\argfun}
1261 \usrmth{alt}{-}{\argfun}

\cnf, \dnf,
1262 \cmdtxtabr{cnf}
1263 \cmdtxtabr{dnf}
1264 \cmdtxtabr{pnf}
1265 \cmdtxtabr{nnf}

1266 %** Semantics ****

```

```

\LogStr,
1267 \newcommand{\logstr}{L}
1268 \usrmthlatupp{Log}{Str}{str}[\logstr]

\ValSet,
1269 \newcommand{\valsym}{\xi}
1270 \newcommand{\valset}{Val}
1271 \cmdmthsetext{Val}[\valset][\valsym]

\AsgSet,
1272 \newcommand{\asgsym}{\chi}
1273 \newcommand{\asgset}{Asg}
1274 \cmdmthsetext{Asg}[\asgset][\asgsym]

1275 %** First-Order Logics I *****%

\FOL,
1276 % First-Order Logic
1277 \cmdtxtoparname{FOL}[Fol]
1278 \cmdtxtoparname{FO}[FO]
1279
1280 % Monadic First-Order Logic
1281 \DeclareRobustCommand{\MFOL}
1282 {\{\txtrname{M}\}\FOL}
1283 \DeclareRobustCommand{\MFO}
1284 {\{\txtrname{M}\}\FO}

1285 %** Syntax *****%

\VarSig,
1286 \newcommand{\varsig}{V}
1287 \usrmthlatupp{Var}{Sig}{sig}[\varsig]
1288 \newcommand{\varsym}{x}
1289 \newcommand{\varset}{Vr}
1290 \cmdmthsetext{Var}[\varset][\varsym]
1291 \usrmth{var}{\}{argfun}[vr]
1292 \cmdmthfun{dim}[dm]\usrmth{dim}{\}{argfun}[dm]

\ConSig,
1293 \newcommand{\consig}{C}
1294 \usrmthlatupp{Con}{Sig}{sig}[\consig]
1295 \newcommand{\consym}{c}
1296 \newcommand{\conset}{Cn}
1297 \cmdmthsetext{Con}[\conset][\consym]
1298 \usrmth{con}{\}{argfun}[cn]

\FunSig,
1299 \newcommand{\funsig}{F}
1300 \usrmthlatupp{Fun}{Sig}{sig}[\funsig]
1301 \newcommand{\funsym}{f}
1302 \newcommand{\funset}{Fn}
1303 \cmdmthsetext{Fun}[\funset][\funsym]
1304 \usrmth{fun}{\}{argfun}[fn]
1305 \cmdmthfun{art}[ar]\usrmth{art}{\}{argfun}[ar]

\TerSig,
1306 \newcommand{\tersig}{T}
1307 \usrmthlatupp{Ter}{Sig}{sig}[\tersig]
1308 \newcommand{\tersym}{t}
1309 \newcommand{\terset}{Tr}
1310 \cmdmthsetext{Ter}[\terset][\tersym]
1311 \usrmth{ter}{\}{argfun}

```

```

\RelSig,
1312 \newcommand{\relsig}{R}
1313 \usrmthlatupp{Rel}{Sig}{sig}[\relsig]
1314 \newcommand{\relsym}{r}
1315 \newcommand{\relset}{Rl}
1316 \cmdmthsetext{Rel}[\relset][\relsym]
1317 \usrmth{rel}{}{argfun}[rl]

\skm ...
1318 \usrmth{skm}{}{argfun}

1319 %** Semantics *****%%

\ConStr,
1320 \newcommand{\constr}{C}
1321 \usrmthlatupp{Con}{Str}{str}[\constr]

\FunStr,
1322 \newcommand{\funstr}{F}
1323 \usrmthlatupp{Fun}{Str}{str}[\funstr]

\TerStr,
1324 \newcommand{\terstr}{T}
1325 \usrmthlatupp{Ter}{Str}{str}[\terstr]

\RelStr,
1326 \newcommand{\relstr}{R}
1327 \usrmthlatupp{Rel}{Str}{str}[\relstr]

1328 %** First-Order Logics II *****%%

\DF, \IF,
1329 % Dependence-Friendly Logic
1330 \cmdtxtoparname{DF}
1331
1332 % Independence-Friendly Logic
1333 \cmdtxtoparname{IF}
1334
1335 % Dependence/Independence-Friendly Logic
1336 \cmdtxtoparname{DIF}
1337
1338 % Dependence Logic
1339 \cmdtxtoparname{DL}
1340
1341 % Team Logic
1342 \cmdtxtoparname{TL}
1343
1344 % Alternating Dependence-Friendly Logic
1345 \cmdtxtoparname{ADF}
1346
1347 % Alternating Independence-Friendly Logic
1348 \cmdtxtoparname{AIF}
1349
1350 % Alternating Dependence/Independence-Friendly Logic
1351 \cmdtxtoparname{ADIF}

...

1352 %** Syntax *****%%

\LEExs, \LAA11 ...
1353 \newcommand{\leexssym}{\Sigma}
1354 \usrmth{LEExs}{}{luop}[\leexssym]
1355 \newcommand{\laallsym}{\Pi}
1356 \usrmth{LAA11}{}{luop}[\laallsym]

```



```

1357 %** Semantics *****%
...
1358 %** Second-Order Logics I *****%

\SOL,
1359 % Second-Order Logic
1360 \cmdtxtopname{SOL}[Sol]
1361 \cmdtxtopname{SO}
1362
1363 % Weak Second-Order Logic
1364 \DeclareRobustCommand{\WSOL}
1365 {\txtname{W}\SOL}
1366 \DeclareRobustCommand{\WSO}
1367 {\txtname{W}\SO}
1368
1369 % coWeak Second-Order Logic
1370 \DeclareRobustCommand{\coWSOL}
1371 {\txtname{coW}\SOL}
1372 \DeclareRobustCommand{\coWSO}
1373 {\txtname{coW}\SO}
1374
1375 % Monadic Second-Order Logic
1376 \DeclareRobustCommand{\MSOL}
1377 {\txtname{M}\SOL}
1378 \DeclareRobustCommand{\MSO}
1379 {\txtname{M}\SO}
1380
1381 % Weak Monadic Second-Order Logic
1382 \DeclareRobustCommand{\WMSOL}
1383 {\txtname{W}\MSOL}
1384 \DeclareRobustCommand{\WMSO}
1385 {\txtname{W}\MSO}
1386
1387 % coWeak Monadic Second-Order Logic
1388 \DeclareRobustCommand{\coWMSOL}
1389 {\txtname{coW}\MSOL}
1390 \DeclareRobustCommand{\coWMSO}
1391 {\txtname{coW}\MSO}

1392 %** Syntax *****%

\FVarSet,
1393 \newcommand{\fvarsym}{x}
1394 \newcommand{\fvarset}{FVr}
1395 \cmdmthsetext{FVar}[\fvarset][\fvarsym]

\SVarSet,
1396 \newcommand{\svarsym}{X}
1397 \newcommand{\svarset}{SVr}
1398 \cmdmthsetext{SVar}[\svarset][\svarsym]

1399 %** Semantics *****%
...
1400 %** Second-Order Logics II *****%

\TL, \PL,
1401 % Tree Logic
1402 \cmdtxtopname{TL}
1403
1404 % Weak Tree Logic
1405 \DeclareRobustCommand{\WTL}
1406 {\txtname{W}\TL}

```

```

1407
1408 % coWeak Tree Logic
1409 \DeclareRobustCommand{\coWTL}
1410 {\txtname{coW}}\TL}
1411
1412 % Monadic Tree Logic
1413 \DeclareRobustCommand{\MTL}
1414 {\txtname{M}}\TL}
1415
1416 % Weak Monadic Tree Logic
1417 \DeclareRobustCommand{\WMTL}
1418 {\txtname{W}}\MTL}
1419
1420 % coWeak Monadic Tree Logic
1421 \DeclareRobustCommand{\coWMTL}
1422 {\txtname{coW}}\MTL}
1423
1424 % Path Logic
1425 \cmdtxttoparname{PL}
1426
1427 % Weak Path Logic
1428 \DeclareRobustCommand{\WPL}
1429 {\txtname{W}}\PL}
1430
1431 % coWeak Path Logic
1432 \DeclareRobustCommand{\coWPL}
1433 {\txtname{coW}}\PL}
1434
1435 % Monadic Path Logic
1436 \DeclareRobustCommand{\MPL}
1437 {\txtname{M}}\PL}
1438
1439 % Weak Monadic Path Logic
1440 \DeclareRobustCommand{\WMPL}
1441 {\txtname{W}}\MPL}
1442
1443 % coWeak Monadic Path Logic
1444 \DeclareRobustCommand{\coWMPL}
1445 {\txtname{coW}}\MPL}
1446 %** Syntax *****%
...
1447 %** Semantics *****%
...
1448 %** Modal Logics I *****%

\ML, \GML,
1449 % Modal Logic
1450 \cmdtxttoparname{ML}
1451
1452 % Graded Modal Logic
1453 \DeclareRobustCommand{\GML}
1454 {\txtname{G}}\ML}
1455
1456 % Quantified Modal Logic
1457 \DeclareRobustCommand{\QML}
1458 {\txtname{Q}}\ML}
1459 \DeclareRobustCommand{\EML}
1460 {\ensuremath{\exists}\ML}
1461 \DeclareRobustCommand{\UML}
1462 {\ensuremath{\forall}\ML}

```

1463 %\*\* Syntax \*\*\*\*\*%

\Opr ...

1464 \usrmth{Opr}{\sym}[Op]

\DMod, \BMod ...

1465 \usrmth{DMod}{\sym}[\Diamond]

1466 \usrmth{BMod}{\sym}[\Box]

\Exs, \All ...

1467 \DeclareRobustCommand{\Exs}[1]

1468 {\mth{\defval{\argmid{\langle}{#1}{\rangle}}{\DMod}}}

1469 \DeclareRobustCommand{\All}[1]

1470 {\mth{\defval{\argmid{\left[]}{#1}{\right}}}{\BMod}}}

1471 %\*\* Semantics \*\*\*\*\*%

\KrpStr, ...

1472 \newcommand{\krpstr}{K}

1473 \usrmthlatupp{Krp}{Str}{str}[\krpstr]

\WrlSet, ...

1474 \newcommand{\wrlsym}{w}

1475 \newcommand{\wrlset}{W}

1476 \cmdmthsetext{Wrl}[\wrlset][\wrlsym]

1477 \cmdmthsymelm{iwrl}[\wrlsym\_{I}]

\AccRel, \TrnRel ...

1478 \newcommand{\accsym}{R}

1479 \cmdmthrel{Acc}[\accsym]

1480 \cmdmthrel{Trn}[\accsym]

\labFun ...

1481 \newcommand{\labsym}{\lambda}

1482 \cmdmthfun{lab}[\labsym]

\PthSet, \pthFun ...

1483 \providecommand{\pthsym}{\pi}

1484 \providecommand{\pthset}{Pth}

1485 \cmdmthsetext{Pth}[\pthset][\pthsym]

1486 \cmdmthfun{pth}

1487 %\*\* Modal Logics II \*\*\*\*\*%

\MC, \GMC, ...

1488 % Mu Calculus

1489 \cmdtxtoparname{MC}[\ensuremath{\mu}-Calculus]

1490

1491 % Graded Mu Calculus

1492 \DeclareRobustCommand{\GMC}

{\{\txname{G}\}MC}

1494

1495 % Quantified Mu Calculus

1496 \DeclareRobustCommand{\QMC}

{\{\txname{Q}\}MC}

1498 \DeclareRobustCommand{\EMC}

{\ensuremath{\exists}MC}

1500 \DeclareRobustCommand{\UMC}

{\ensuremath{\forall}MC}

1502

1503 % Alternation-Free Mu Calculus

1504 \DeclareRobustCommand{\AFMC}

{\{\txname{AF}\}MC}

```

1506
1507 % Alternation-Free Graded Mu Calculus
1508 \DeclareRobustCommand{\AFGMC}
1509 {\textrmname{AF}}\GMC}
1510
1511 % Quantified Alternation-Free Mu Calculus
1512 \DeclareRobustCommand{\QAFMC}
1513 {\textrmname{Q}}\AFMC}
1514 \DeclareRobustCommand{\EAFMC}
1515 {\ensuremath{\exists}\AFMC}
1516 \DeclareRobustCommand{\UAFMC}
1517 {\ensuremath{\forall}\AFMC}
1518
1519 %** Syntax *****%
...
1520 %** Semantics *****%
...
1521 %** Temporal Logics I *****%

\PTL, \LTL,
1522 % Propositional Temporal Logic
1523 \cmdtxttoparname{PTL}
1524
1525 % Quantified Propositional Temporal Logic
1526 \DeclareRobustCommand{\QPTL}
1527 {\textrmname{Q}}\PTL}
1528 \DeclareRobustCommand{\EPTL}
1529 {\ensuremath{\exists}\PTL}
1530 \DeclareRobustCommand{\UPTL}
1531 {\ensuremath{\forall}\PTL}
1532
1533 % Linear Temporal Logic
1534 \cmdtxttoparname{LTL}
1535
1536 % Quantified Linear Temporal Logic
1537 \DeclareRobustCommand{\QLTL}
1538 {\textrmname{Q}}\LTL}
1539 \DeclareRobustCommand{\ELTL}
1540 {\ensuremath{\exists}\LTL}
1541 \DeclareRobustCommand{\ULTL}
1542 {\ensuremath{\forall}\LTL}
1543 %** Syntax *****%

\X,
1544 \usrmth{X}{-}{sym}[X\,,]
1545 \usrmth{F}{-}{sym}[F\,,]
1546 \usrmth{G}{-}{sym}[G\,,]
1547 \usrmth{U}{-}{sym}[\,,U\,,]
1548 \usrmth{R}{-}{sym}[\,,R\,,]

\Y,
1549 \usrmth{Y}{-}{sym}[G\,,]
1550 \usrmth{P}{-}{sym}[P\,,]\let\SavePildcrow\P
1551 \usrmth{H}{-}{sym}[H\,,]\let\SaveDoubleAcute\H
1552 \usrmth{S}{-}{sym}[\,,S\,,]\let\SaveSectionSymbol\S
1553 \usrmth{B}{-}{sym}[\,,B\,,]

1554 %** Semantics *****%
...
1555 %** Temporal Logics II *****%

```

```

\ PDL, \ CTL,
1556
1557 % Propositional Dynamic Logic
1558 \cmdtxttoparname{PDL}
1559
1560 % Computation Tree Logic
1561 \cmdtxttoparname{CTL}
1562
1563 % Weak Computation Tree Logic
1564 \DeclareRobustCommand{\WCTL}
1565 {\{\txtrname{W}\}\CTL}
1566
1567 % Quantified Computation Tree Logic
1568 \DeclareRobustCommand{\QCTL}
1569 {\{\txtrname{Q}\}\CTL}
1570 \DeclareRobustCommand{\ECTL}
1571 {\ensuremath{\exists}\CTL}
1572 \DeclareRobustCommand{\UCTL}
1573 {\ensuremath{\forall}\CTL}
1574
1575 % Improved Computation Tree Logic
1576 \cmdtxttoparname{CTLP}[CTL$^{+}$]
1577
1578 % Weak Improved Computation Tree Logic
1579 \DeclareRobustCommand{\WCTLP}
1580 {\{\txtrname{W}\}\CTLP}
1581
1582 % Quantified Improved Computation Tree Logic
1583 \DeclareRobustCommand{\QCTLP}
1584 {\{\txtrname{Q}\}\CTLP}
1585 \DeclareRobustCommand{\ECTLP}
1586 {\ensuremath{\exists}\CTLP}
1587 \DeclareRobustCommand{\UCTLP}
1588 {\ensuremath{\forall}\CTLP}
1589
1590 % Full Computation Tree Logic
1591 \cmdtxttoparname{CTLS}[CTL*]
1592
1593 % Weak Full Computation Tree Logic
1594 \DeclareRobustCommand{\WCTLS}
1595 {\{\txtrname{W}\}\CTLS}
1596
1597 % Quantified Full Computation Tree Logic
1598 \DeclareRobustCommand{\QCTLS}
1599 {\{\txtrname{Q}\}\CTLS}
1600 \DeclareRobustCommand{\ECTLS}
1601 {\ensuremath{\exists}\CTLS}
1602 \DeclareRobustCommand{\UCTLS}
1603 {\ensuremath{\forall}\CTLS}
1604 %** Syntax *****%

\ E, \ A ...
1605 \usrmth{E}{-}{sym}
1606 \usrmth{A}{-}{sym}

1607 %** Semantics *****%

...

1608 %** Strategic Logics I *****%

\ ATL,
1609 % Alternating Temporal Logic
1610 \cmdtxttoparname{ATL}

```

```

1611
1612 % Weak Alternating Tree Logic
1613 \DeclareRobustCommand{\WATL}
1614 {\txtname{W}}\ATL}
1615
1616 % Quantified Alternating Temporal Logic
1617 \DeclareRobustCommand{\QATL}
1618 {\txtname{Q}}\ATL}
1619 \DeclareRobustCommand{\EATL}
1620 {\ensuremath{\exists}\ATL}
1621 \DeclareRobustCommand{\UATL}
1622 {\ensuremath{\forall}\ATL}
1623
1624 % Improved Alternating Temporal Logic
1625 \cmdtxttoparname{ATLP}[ATL$^{+}$]
1626
1627 % Weak Improved Alternating Tree Logic
1628 \DeclareRobustCommand{\WATLP}
1629 {\txtname{W}}\ATLP}
1630
1631 % Quantified Improved Alternating Temporal Logic
1632 \DeclareRobustCommand{\QATLP}
1633 {\txtname{Q}}\ATLP}
1634 \DeclareRobustCommand{\EATLP}
1635 {\ensuremath{\exists}\ATLP}
1636 \DeclareRobustCommand{\UATLP}
1637 {\ensuremath{\forall}\ATLP}
1638
1639 % Full Alternating Temporal Logic
1640 \cmdtxttoparname{ATLS}[ATL*]
1641
1642 % Weak Full Alternating Tree Logic
1643 \DeclareRobustCommand{\WATLS}
1644 {\txtname{W}}\ATLS}
1645
1646 % Quantified Full Alternating Temporal Logic
1647 \DeclareRobustCommand{\QATLS}
1648 {\txtname{Q}}\ATLS}
1649 \DeclareRobustCommand{\EATLS}
1650 {\ensuremath{\exists}\ATLS}
1651 \DeclareRobustCommand{\UATLS}
1652 {\ensuremath{\forall}\ATLS}
1653 %** Syntax *****%

\EExs, \AA11 ...
1654 \DeclareRobustCommand{\EExs}[1]
1655 {\mth{\argmid{\langle!\rangle}{\defval{#1}{\emptyset}}{\rangle!\rangle}}
1656 \DeclareRobustCommand{\AA11}[1]
1657 {\mth{\argmid{\left[\left[\defval{#1}{\emptyset}\right]\right]}}}

1658 %** Semantics *****%

\CGS ...
1659 \cmdtxtname{CGS}

\CGSstr,
1660 \newcommand{\cgsstr}{G}
1661 \usrmthlatupp{CGS}{Str}{str}[\cgsstr]

\AgnSet,
1662 \newcommand{\agnsym}{a}
1663 \newcommand{\agnset}{Ag}
1664 \cmdmthsetext{Agn}[\agnset][agnsym]

```

```

\PosSet,
1665 \providecommand{\possym}{v}
1666 \providecommand{\posset}{Ps}
1667 \cmdmthsetext{Pos}[\posset][\possym]
1668 \cmdmthsymelm{ipos}[\possym_{I}]
1669 \cmdmthsymelm{fpos}[\possym_{F}]
1670 \cmdmthset{PPos}[\posset_{\PlrSym}]
1671 \cmdmthsymelm{ppos}[\possym_{\PlrSym}]
1672 \cmdmthset{OPos}[\posset_{\OppSym}]
1673 \cmdmthsymelm{opos}[\possym_{\OppSym}]

\SttSet,
1674 \newcommand{\sttsym}{s}
1675 \newcommand{\sttset}{St}
1676 \cmdmthsetext{Stt}[\sttset][\sttsym]
1677 \cmdmthset{IStt}[\sttset_{I}]
1678 \cmdmthsymelm{istt}[\sttsym_{I}]
1679 \cmdmthset{FStt}[\sttset_{F}]
1680 \cmdmthsymelm{fstt}[\sttsym_{F}]

\ActSet,
1681 \newcommand{\actsym}{c}
1682 \newcommand{\actset}{Ac}
1683 \cmdmthsetext{Act}[\actset][\actsym]

\DecSet,
1684 \newcommand{\decsym}{d}
1685 \newcommand{\decset}{Dc}
1686 \cmdmthsetext{Dec}[\decset][\decsym]

\movFun ...
1687 \newcommand{\movsym}{\tau}
1688 \cmdmthfun{mov}[\movsym]

\HstSet,
1689 \providecommand{\hstsym}{\rho}
1690 \providecommand{\hstset}{Hst}
1691 \cmdmthsetext{Hst}[\hstset][\hstsym]
1692 \cmdmthset{PHst}[\hstset_{\PlrSym}]
1693 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
1694 \cmdmthset{OHst}[\hstset_{\OppSym}]
1695 \cmdmthsymelm{ohst}[\hstsym_{\OppSym}]
1696 \cmdmthfun{hst}

\PlaySet, \playFun ...
1697 \providecommand{\playsym}{\pi}
1698 \providecommand{\playset}{Play}
1699 \cmdmthsetext{Play}[\playset][\playsym]
1700 \cmdmthfun{play}

\StrSet,
1701 \providecommand{\strsym}{\sigma}
1702 \providecommand{\strset}{Str}
1703 \cmdmthsetext{Str}[\strset][\strsym]
1704 \cmdmthset{PStr}[\strset_{\PlrSym}]
1705 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
1706 \cmdmthset{OStr}[\strset_{\OppSym}]
1707 \cmdmthsymelm{ostr}[\strsym_{\OppSym}]

\PrfSet, \prfFun ...
1708 \providecommand{\prfsym}{\xi}
1709 \providecommand{\prfset}{Prf}
1710 \cmdmthsetext{Prf}[\prfset][\prfsym]

```

```

1711 %** Strategic Logics II *****%%
\SL,
1712 % Strategy Logic
1713 \cmdtxtopname{SL}
1714
1715 \DeclareRobustCommand{\ESL}
1716 {\ensuremath{\exists}\SL}
1717 \DeclareRobustCommand{\USL}
1718 {\ensuremath{\forall}\SL}
1719
1720 \DeclareRobustCommand{\FSL}
1721 {\{\textname{F}\}\SL}
1722
1723 \DeclareRobustCommand{\EFSL}
1724 {\ensuremath{\exists}\FSL}
1725 \DeclareRobustCommand{\UFSL}
1726 {\ensuremath{\forall}\FSL}
1727
1728 % One-Goal Strategy Logic
1729 \DeclareRobustCommandx{\OGSL}[3][1=, 2=, 3=]
1730 {\SL[#1][#2][lg\arglef{,}{#3}]}
1731
1732 \DeclareRobustCommand{\EOGSL}
1733 {\ensuremath{\exists}\OGSL}
1734 \DeclareRobustCommand{\UOGSL}
1735 {\ensuremath{\forall}\OGSL}
1736
1737 \DeclareRobustCommand{\FOGSL}
1738 {\{\textname{F}\}\OGSL}
1739
1740 \DeclareRobustCommand{\EFOGSL}
1741 {\ensuremath{\exists}\FOGSL}
1742 \DeclareRobustCommand{\UFOGSL}
1743 {\ensuremath{\forall}\FOGSL}
1744
1745 % Conjunctive-Goal Strategy Logic
1746 \DeclareRobustCommandx{\CGSL}[3][1=, 2=, 3=]
1747 {\SL[#1][#2][cg\arglef{,}{#3}]}
1748
1749 \DeclareRobustCommand{\ECGSL}
1750 {\ensuremath{\exists}\CGSL}
1751 \DeclareRobustCommand{\UCGSL}
1752 {\ensuremath{\forall}\CGSL}
1753
1754 \DeclareRobustCommand{\FCGSL}
1755 {\{\textname{F}\}\CGSL}
1756
1757 \DeclareRobustCommand{\EFCGSL}
1758 {\ensuremath{\exists}\FCGSL}
1759 \DeclareRobustCommand{\UFCGSL}
1760 {\ensuremath{\forall}\FCGSL}
1761
1762 % Disjunctive-Goal Strategy Logic
1763 \DeclareRobustCommandx{\DGS}[3][1=, 2=, 3=]
1764 {\SL[#1][#2][dg\arglef{,}{#3}]}
1765
1766 \DeclareRobustCommand{\EDGS}
1767 {\ensuremath{\exists}\DGS}
1768 \DeclareRobustCommand{\UDGS}
1769 {\ensuremath{\forall}\DGS}
1770
1771 \DeclareRobustCommand{\FDGS}
1772 {\{\textname{F}\}\DGS}

```



```

1773
1774 \DeclareRobustCommand{\EFDGSL}
1775 {\ensuremath{\exists}\text{FDGSL}}
1776 \DeclareRobustCommand{\UFDGSL}
1777 {\ensuremath{\forall}\text{FDGSL}}
1778
1779 % Alternating-Goal Strategy Logic
1780 \DeclareRobustCommandx{\AGSL}[3][1=, 2=, 3=]
1781 {\SL[#1][#2][ag\arglef{,}{#3}]}
1782
1783 \DeclareRobustCommand{\EAGSL}
1784 {\ensuremath{\exists}\text{AGSL}}
1785 \DeclareRobustCommand{\UAGSL}
1786 {\ensuremath{\forall}\text{AGSL}}
1787
1788 \DeclareRobustCommand{\FAGSL}
1789 {\{\textname{F}\}\text{xGSL}}
1790
1791 \DeclareRobustCommand{\EFAGSL}
1792 {\ensuremath{\exists}\text{FAGSL}}
1793 \DeclareRobustCommand{\UFAGSL}
1794 {\ensuremath{\forall}\text{FAGSL}}
1795
1796 % Extended-Goal Strategy Logic
1797 \DeclareRobustCommandx{\EGSL}[3][1=, 2=, 3=]
1798 {\SL[#1][#2][eg\arglef{,}{#3}]}
1799
1800 \DeclareRobustCommand{\EEGSL}
1801 {\ensuremath{\exists}\text{EGSL}}
1802 \DeclareRobustCommand{\UEGSL}
1803 {\ensuremath{\forall}\text{EGSL}}
1804
1805 \DeclareRobustCommand{\FEGSL}
1806 {\{\textname{F}\}\text{xGSL}}
1807
1808 \DeclareRobustCommand{\EFEGSL}
1809 {\ensuremath{\exists}\text{FEGSL}}
1810 \DeclareRobustCommand{\UFEGSL}
1811 {\ensuremath{\forall}\text{FEGSL}}
1812
1813 % Boolean-Goal Strategy Logic
1814 \DeclareRobustCommandx{\BGSL}[3][1=, 2=, 3=]
1815 {\SL[#1][#2][bg\arglef{,}{#3}]}
1816
1817 \DeclareRobustCommand{\EBGSL}
1818 {\ensuremath{\exists}\text{BGSL}}
1819 \DeclareRobustCommand{\UBGSL}
1820 {\ensuremath{\forall}\text{BGSL}}
1821
1822 \DeclareRobustCommand{\FBGSL}
1823 {\{\textname{F}\}\text{xGSL}}
1824
1825 \DeclareRobustCommand{\EFBGSL}
1826 {\ensuremath{\exists}\text{FBGSL}}
1827 \DeclareRobustCommand{\UFBGSL}
1828 {\ensuremath{\forall}\text{FBGSL}}
1829
1830 % Nested-Goal Strategy Logic
1831 \DeclareRobustCommandx{\NGSL}[3][1=, 2=, 3=]
1832 {\SL[#1][#2][ng\arglef{,}{#3}]}
1833
1834 \DeclareRobustCommand{\ENGSL}
1835 {\ensuremath{\exists}\text{NGSL}}

```

```

1836 \DeclareRobustCommand{\UNGSL}
1837 {\ensuremath{\forall}\text{NGSL}}
1838
1839 \DeclareRobustCommand{\FNGSL}
1840 {\{\textname{F}\}\text{XGSL}}
1841
1842 \DeclareRobustCommand{\EFNGSL}
1843 {\ensuremath{\exists}\text{FNGSL}}
1844 \DeclareRobustCommand{\UFNGSL}
1845 {\ensuremath{\forall}\text{FNGSL}}
1846
1847 % Undefined-Goal Strategy Logic
1848 \DeclareRobustCommandx{\XGSL}[3][1=, 2=, 3=]
1849 {\SL[#1][#2][xg\arglef{,}{#3}]}
1850
1851 \DeclareRobustCommand{\EXGSL}
1852 {\ensuremath{\exists}\text{XGSL}}
1853 \DeclareRobustCommand{\UXGSL}
1854 {\ensuremath{\forall}\text{XGSL}}
1855
1856 \DeclareRobustCommand{\FXGSL}
1857 {\{\textname{F}\}\text{XGSL}}
1858
1859 \DeclareRobustCommand{\EFXGSL}
1860 {\ensuremath{\exists}\text{FXGSL}}
1861 \DeclareRobustCommand{\UFXGSL}
1862 {\ensuremath{\forall}\text{FXGSL}}
1863 %** Syntax *****%

\BndSet, ...
1864 \newcommand{\bndsym}{\flat}
1865 \newcommand{\bndset}{\Bn}
1866 \cmdmthsetext{\Bnd}{\bndset}{\bndsym}
1867 \usrmth{\bnd}{\}{argfun}

\psn ...
1868 \usrmth{\psn}{\}{argfun}

1869 %** Semantics *****%

\nxtFun ...
1870 \newcommand{\nxtfun}{\nxt}
1871 \cmdmthfun{\nxt}{\nxtfun}

1872 \fi
1873 %*****%
1874 %*****%
1875 %** Macros for Automata *****%
1876 %*****%
1877 \ifaut@
1878 %** Finite Word Automata *****%

\DFA, ...
1879 \cmdtxtoparname{DFA}\cmdtxtoparname{NFA}\cmdtxtoparname{UFA}\cmdtxtoparname{AFA}
1880
1881 \cmdtxtoparname{DWA}\cmdtxtoparname{NWA}\cmdtxtoparname{UWA}\cmdtxtoparname{AWA}
1882
1883 \cmdtxtoparname{DFW}\cmdtxtoparname{NFW}\cmdtxtoparname{UFW}\cmdtxtoparname{AFW}
1884 \cmdtxtoparname{DBW}\cmdtxtoparname{NBW}\cmdtxtoparname{UBW}\cmdtxtoparname{ABW}
1885 \cmdtxtoparname{DCW}\cmdtxtoparname{NCW}\cmdtxtoparname{UCW}\cmdtxtoparname{ACW}
1886 \cmdtxtoparname{DPW}\cmdtxtoparname{NPW}\cmdtxtoparname{UPW}\cmdtxtoparname{APW}
1887 \cmdtxtoparname{DRW}\cmdtxtoparname{NRW}\cmdtxtoparname{URW}\cmdtxtoparname{ARW}
1888 \cmdtxtoparname{DSW}\cmdtxtoparname{NSW}\cmdtxtoparname{USW}\cmdtxtoparname{ASW}
1889 \cmdtxtoparname{DMW}\cmdtxtoparname{NMW}\cmdtxtoparname{UMW}\cmdtxtoparname{AMW}

```

```

\GFG, \PD,
1890 \cmdttxtoparname{GFG}
1891
1892 \cmdttxtoparname{PD}
1893
1894 %% ...

1895 %** Syntax *****%

\AutName,
1896 \newcommand{\autname}{A}
1897 \usrmthlatupp{Aut}{Name}{name}[\autname]
1898 \newcommand{\autset}{Aut}
1899 \cmdmthset{Aut}[\autset]

\WAutSet ...
1900 \newcommand{\wautset}{WAut}
1901 \cmdmthset{WAut}[\wautset]

\SttSet,
1902 \def\sttsym{q}
1903 \def\sttset{Q}
1904 \cmdmthsetext{Stt}[\sttset][\sttsym]
1905 \cmdmthset{IStt}[\sttset_{I}]
1906 \cmdmthsymelm{istt}[\sttsym_{I}]
1907 \cmdmthset{FStt}[\sttset_{F}]
1908 \cmdmthsymelm{fstt}[\sttsym_{F}]

\SymSet,
1909 \newcommand{\symsym}{\sigma}
1910 \newcommand{\symset}{\Sigma}
1911 \cmdmthsetext{Sym}[\symset][\symsym]

\trnFun ...
1912 \newcommand{\trnsym}{\delta}
1913 \cmdmthfun{trn}[\trnsym]

1914 %** Semantics *****%

\LangFun ...
1915 \newcommand{\langfun}{L}
1916 \cmdmthfun{Lang}[\langfun]

\WrdSet,
1917 \newcommand{\wrdsym}{w}
1918 \newcommand{\wrdset}{Wr}
1919 \cmdmthsetext{Wrd}[\wrdset][\wrdsym]

1920 %** Finite Tree Automata *****%

\DTA,
1921 \cmdttxtoparname{DTA}\cmdttxtoparname{NTA}\cmdttxtoparname{UTA}\cmdttxtoparname{ATA}
1922
1923 \cmdttxtoparname{DFT}\cmdttxtoparname{NFT}\cmdttxtoparname{UFT}\cmdttxtoparname{AFT}
1924 \cmdttxtoparname{DBT}\cmdttxtoparname{NBT}\cmdttxtoparname{UBT}\cmdttxtoparname{ABT}
1925 \cmdttxtoparname{DCT}\cmdttxtoparname{NCT}\cmdttxtoparname{UCT}\cmdttxtoparname{ACT}
1926 \cmdttxtoparname{DPT}\cmdttxtoparname{NPT}\cmdttxtoparname{UPT}\cmdttxtoparname{APT}
1927 \cmdttxtoparname{DRT}\cmdttxtoparname{NRT}\cmdttxtoparname{URT}\cmdttxtoparname{ART}
1928 \cmdttxtoparname{DST}\cmdttxtoparname{NST}\cmdttxtoparname{UST}\cmdttxtoparname{AST}
1929 \cmdttxtoparname{DMT}\cmdttxtoparname{NMT}\cmdttxtoparname{UMT}\cmdttxtoparname{AMT}

1930 %** Syntax *****%

```

```

\TAutSet ...
1931 \newcommand{\tautset}{TAut}
1932 \cmdmthset{TAut}[\tautset]

\DirSet,
1933 \newcommand{\dirsym}{d}
1934 \newcommand{\dirset}{\Lambda}
1935 \cmdmthsettext{Dir}[\dirset][\dirsym]

1936 %%** Semantics *****%%

\TreeSet,
1937 \newcommand{\treesym}{T}
1938 \newcommand{\treeset}{Tr}
1939 \cmdmthsettext{Tree}[\treeset][\treesym]

\wotFun ...
1940 \newcommand{\wotfun}{wot}
1941 \cmdmthfun{wot}[\wotfun]

1942 \fi
1943 %%*****%%

1944 %%*****%%
1945 %%** Format Tricks *****%%
1946 %%*****%%
1947 \iffirm@

... ...
1948 %%...

1949 \fi
1950 %%*****%%

1951 %%*****%%
1952 %%** Figure Tricks *****%%
1953 %%*****%%
1954 \iffig@

1955 \RequirePackage{tikz}
1956 \usetikzlibrary{arrows,graphs,matrix,patterns,shapes}

1957 \tikzstyle{every node} =
1958 [draw = none, fill = none, black, thin]
1959 \tikzstyle{every edge} +=
1960 [black, thick]

1961 \tikzstyle{noall} =
1962 [draw = none, fill = none]
1963 \tikzstyle{nodraw} =
1964 [draw = none, fill = white]
1965 \tikzstyle{nofill} =
1966 [draw = black, fill = none]

1967 \ifwrpfig@
1968 % Wrapfig Package
1969 \RequirePackage{wrapfig}
1970 \fi

1971 \fi
1972 %%*****%%

1973 %%*****%%
1974 %%** Table Tricks *****%%
1975 %%*****%%
1976 \iftab@

... ...
1977 %%...

```

```

1978 \fi
1979 %%*****%
1980 %%*****%
1981 %%** Algorithm Tricks *****%
1982 %%*****%
1983 \ifalg@

1984 \RequirePackage[ruled,vlined]{algorithm2e}
1985 \DontPrintSemicolon
1986 \SetInd{0.25em}{0.5em}
1987 \setlength{\algomargin}{1.25em}

\Signature ...
1988 \SetKw{Signature}{signature}

\Macro,
1989 \SetKwFor{Macro}{macro}{}{}
1990 \SetKwFor{Function}{function}{}{}
1991 \SetKwFor{Procedure}{procedure}{}{}

\Let ...
1992 \SetKwFor{Let}{let}{in}{}

\True, \False ...
1993 \SetKw{True}{true}
1994 \SetKw{False}{false}

\From,
1995 \SetKw{From}{from}
1996 \SetKw{To}{to}
1997 \SetKw{DownTo}{downto}

\GoTo,
1998 \SetKw{GoTo}{goto}
1999 \SetKw{Break}{break}
2000 \SetKw{Continue}{continue}

\MIf,
2001 \SetKwIF{MIf}{MElseIf}{MElse}{\#if}{\#then}{\#else \#if}{\#else}{\#endif}

\nlr ...
2002 \DeclareRobustCommand{\nlr}[1]
2003 {\addtocounter{AlgoLine}{1}%
2004 \nlset{\arabic{AlgoLine}-\addtocounter{AlgoLine}{#1}\arabic{AlgoLine}}}

2005 \fi
2006 %%*****%
2007 \endinput
2008 \</package>

```

## 2 Change History

|       |                                                    |      |                                                               |
|-------|----------------------------------------------------|------|---------------------------------------------------------------|
| v0.0  | General: First public release . . . . . 1          | v0.3 | General: Few problems solved . . . . . 1                      |
| v0.1  | General: Algorithm tricks . . . . . 1              | v0.4 | General: Refactoring, corrections, and extensions . . . . . 1 |
| v0.10 | General: Small refinements . . . . . 1             | v0.5 | General: Figure tricks . . . . . 1                            |
| v0.11 | General: Few additions and corrections . . . . . 1 | v0.6 | General: Small refinements . . . . . 1                        |
| v0.12 | General: New starred variants . . . . . 1          | v0.7 | General: Refinements, corrections, and extensions . . . . . 1 |
| v0.13 | General: Further starred variants . . . . . 1      | v0.8 | General: Few refinements and corrections . . . 1              |
| v0.14 | General: Few additions and corrections . . . . . 1 | v0.9 | General: Small addition to ‘Algorithm tricks’ 1               |
| v0.15 | General: Refactoring of dtx sources . . . . . 1    |      |                                                               |
| v0.2  | General: Changes in ‘Auxiliary tricks’ . . . . . 1 |      |                                                               |

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| <code>\cmdtxtcom</code>       | <a href="#">502</a> , <a href="#">1034</a> , <a href="#">1035</a> , <a href="#">1036</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| <code>\cmdtxtdef</code>       | <a href="#">465</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| <code>\cmdtxtname</code>      | <a href="#">490</a> , <a href="#">1659</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| <code>\cmdtxttoarg</code>     | <a href="#">333</a> , <a href="#">340</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| <code>\cmdtxttoargabr</code>  | <a href="#">481</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| <code>\cmdtxttoargcom</code>  | <a href="#">506</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| <code>\cmdtxttoargdef</code>  | <a href="#">469</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| <code>\cmdtxttoargname</code> | <a href="#">494</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| <code>\cmdtxttopar</code>     | <a href="#">337</a> , <a href="#">340</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| <code>\cmdtxttoparabr</code>  | <a href="#">485</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| <code>\cmdtxttoparcom</code>  | <a href="#">510</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| <code>\cmdtxttopardef</code>  | <a href="#">473</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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,<br><a href="#">1046</a> , <a href="#">1047</a> , <a href="#">1048</a> , <a href="#">1049</a> |
| <code>\cmdtxttoparname</code> | <a href="#">498</a> , <a href="#">1068</a> ,<br><a href="#">1071</a> , <a href="#">1074</a> , <a href="#">1077</a> , <a href="#">1080</a> ,<br><a href="#">1083</a> , <a href="#">1160</a> , <a href="#">1163</a> , <a href="#">1166</a> ,<br><a href="#">1169</a> , <a href="#">1172</a> , <a href="#">1175</a> , <a href="#">1188</a> ,<br><a href="#">1191</a> , <a href="#">1194</a> , <a href="#">1213</a> , <a href="#">1277</a> ,<br><a href="#">1278</a> , <a href="#">1330</a> , <a href="#">1333</a> , <a href="#">1336</a> ,<br><a href="#">1339</a> , <a href="#">1342</a> , <a href="#">1345</a> , <a href="#">1348</a> ,<br><a href="#">1351</a> , <a href="#">1360</a> , <a href="#">1361</a> , <a href="#">1402</a> ,<br><a href="#">1425</a> , <a href="#">1450</a> , <a href="#">1489</a> , <a href="#">1523</a> ,<br><a href="#">1534</a> , <a href="#">1558</a> , <a href="#">1561</a> , <a href="#">1576</a> ,<br><a href="#">1591</a> , <a href="#">1610</a> , <a href="#">1625</a> , <a href="#">1640</a> ,<br><a href="#">1713</a> , <a href="#">1879</a> , <a href="#">1881</a> , <a href="#">1883</a> ,<br><a href="#">1884</a> , <a href="#">1885</a> , <a href="#">1886</a> , <a href="#">1887</a> ,<br><a href="#">1888</a> , <a href="#">1889</a> , <a href="#">1890</a> , <a href="#">1892</a> ,<br><a href="#">1921</a> , <a href="#">1923</a> , <a href="#">1924</a> , <a href="#">1925</a> ,<br><a href="#">1926</a> , <a href="#">1927</a> , <a href="#">1928</a> , <a href="#">1929</a> | <code>\DeclareMathAlphabet</code>   | <a href="#">285</a> , <a href="#">286</a> , <a href="#">287</a> , <a href="#">288</a>                                                                                                                                                                                                                                                                                                                                                                        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| <code>\cmdtxtpar</code>       | <a href="#">335</a> , <a href="#">340</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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                                                                                              |
| <code>\cmdtxtparabr</code>    | <a href="#">483</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                                                                  |
| <code>\cmdtxtparcom</code>    | <a href="#">508</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <code>\DeclareRobustCommand</code>  | <a href="#">807</a> ,<br><a href="#">811</a> , <a href="#">814</a> , <a href="#">816</a> , <a href="#">818</a> , <a href="#">820</a> ,<br><a href="#">822</a> , <a href="#">824</a> , <a href="#">827</a> , <a href="#">829</a> , <a href="#">831</a> ,<br><a href="#">833</a> , <a href="#">836</a> , <a href="#">841</a> , <a href="#">843</a> , <a href="#">845</a> ,<br><a href="#">847</a> , <a href="#">849</a> , <a href="#">851</a> , <a href="#">853</a> , <a href="#">871</a> ,<br><a href="#">875</a> , <a href="#">879</a> , <a href="#">883</a> , <a href="#">887</a> , <a href="#">890</a> ,<br><a href="#">898</a> , <a href="#">900</a> , <a href="#">902</a> , <a href="#">905</a> , <a href="#">926</a> ,<br><a href="#">928</a> , <a href="#">930</a> , <a href="#">932</a> , <a href="#">934</a> , <a href="#">936</a> ,<br><a href="#">938</a> , <a href="#">940</a> , <a href="#">942</a> , <a href="#">944</a> , <a href="#">946</a> ,<br><a href="#">948</a> , <a href="#">950</a> , <a href="#">952</a> , <a href="#">954</a> , <a href="#">956</a> ,<br><a href="#">958</a> , <a href="#">960</a> , <a href="#">963</a> , <a href="#">965</a> , <a href="#">967</a> ,<br><a href="#">969</a> , <a href="#">971</a> , <a href="#">974</a> , <a href="#">978</a> , <a href="#">982</a> ,<br><a href="#">999</a> , <a href="#">1001</a> , <a href="#">1216</a> , <a href="#">1218</a> ,<br><a href="#">1220</a> , <a href="#">1281</a> , <a href="#">1283</a> , <a href="#">1364</a> ,<br><a href="#">1366</a> , <a href="#">1370</a> , <a href="#">1372</a> , <a href="#">1376</a> ,<br><a href="#">1378</a> , <a href="#">1382</a> , <a href="#">1384</a> , <a href="#">1388</a> ,<br><a href="#">1390</a> , <a href="#">1405</a> , <a href="#">1409</a> , <a href="#">1413</a> ,<br><a href="#">1417</a> , <a href="#">1421</a> , <a href="#">1428</a> , <a href="#">1432</a> ,<br><a href="#">1436</a> , <a href="#">1440</a> , <a href="#">1444</a> , <a href="#">1453</a> ,<br><a href="#">1457</a> , <a href="#">1459</a> , <a href="#">1461</a> , <a href="#">1467</a> ,<br><a href="#">1469</a> , <a href="#">1492</a> , <a href="#">1496</a> , <a href="#">1498</a> ,<br><a href="#">1500</a> , <a href="#">1504</a> , <a href="#">1508</a> , <a href="#">1512</a> ,<br><a href="#">1514</a> , <a href="#">1516</a> , <a href="#">1526</a> , <a href="#">1528</a> ,<br><a href="#">1530</a> , <a href="#">1537</a> , <a href="#">1539</a> , <a href="#">1541</a> ,<br><a href="#">1564</a> , <a href="#">1568</a> , <a href="#">1570</a> , <a href="#">1572</a> ,<br><a href="#">1579</a> , <a href="#">1583</a> , <a href="#">1585</a> , <a href="#">1587</a> ,<br><a href="#">1594</a> , <a href="#">1598</a> , <a href="#">1600</a> , <a href="#">1602</a> ,<br><a href="#">1613</a> , <a href="#">1617</a> , <a href="#">1619</a> , <a href="#">1621</a> ,<br><a href="#">1628</a> , <a href="#">1632</a> , <a href="#">1634</a> , <a href="#">1636</a> ,<br><a href="#">1643</a> , <a href="#">1647</a> , <a href="#">1649</a> , <a href="#">1651</a> ,<br><a href="#">1654</a> , <a href="#">1656</a> , <a href="#">1715</a> , <a href="#">1717</a> ,<br><a href="#">1720</a> , <a href="#">1723</a> , <a href="#">1725</a> , <a href="#">1732</a> ,<br><a href="#">1734</a> , <a href="#">1737</a> , <a href="#">1740</a> , <a href="#">1742</a> ,<br><a href="#">1749</a> , <a href="#">1751</a> , <a href="#">1754</a> , <a href="#">1757</a> ,<br><a href="#">1759</a> , <a href="#">1766</a> , <a href="#">1768</a> , <a href="#">1771</a> ,<br><a href="#">1774</a> , <a href="#">1776</a> , <a href="#">1783</a> , <a href="#">1785</a> ,<br><a href="#">1788</a> , <a href="#">1791</a> , <a href="#">1793</a> , <a href="#">1800</a> ,<br><a href="#">1802</a> , <a href="#">1805</a> , <a href="#">1808</a> , <a href="#">1810</a> ,<br><a href="#">1817</a> , <a href="#">1819</a> , <a href="#">1822</a> , <a href="#">1825</a> ,<br><a href="#">1827</a> , <a href="#">1834</a> , <a href="#">1836</a> , <a href="#">1839</a> ,<br><a href="#">1842</a> , <a href="#">1844</a> , <a href="#">1851</a> , <a href="#">1853</a> ,<br><a href="#">1856</a> , <a href="#">1859</a> , <a href="#">1861</a> , <a href="#">2002</a> | <code>\Delta</code>                                                                                                                                                                      | <a href="#">1054</a> , <a href="#">1055</a>                                                                                                                                                                                                                      |
| <code>\cmdtxtpardef</code>    | <a href="#">471</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| <code>\cmdtxtparname</code>   | <a href="#">496</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| <code>\cmodels,□...</code>    | <a href="#">827</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| <code>\cmp</code>             | <a href="#">902</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| <code>\cnf,□\dnf,□...</code>  | <a href="#">1262</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| <code>\Cnt,□\Qnt,□\Sym</code> | <a href="#">1250</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| <code>\coimplies,□...</code>  | <a href="#">822</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| <code>\com@false</code>       | <a href="#">56</a> , <a href="#">77</a> , <a href="#">79</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| <code>\com@true</code>        | <a href="#">78</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| <code>\conset</code>          | <a href="#">1296</a> , <a href="#">1297</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| <code>\consig</code>          | <a href="#">1293</a> , <a href="#">1294</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| <code>\ConSig,□...</code>     | <a href="#">1293</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| <code>\constr</code>          | <a href="#">1320</a> , <a href="#">1321</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| <code>\ConStr,□...</code>     | <a href="#">1320</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| <code>\consym</code>          | <a href="#">1295</a> , <a href="#">1297</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| <code>\Contd</code>           | <a href="#">798</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| <code>\contd</code>           | <a href="#">790</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| <code>\coWMPL</code>          | <a href="#">1444</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| <code>\coWMSO</code>          | <a href="#">1390</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| <code>\coWMSOL</code>         | <a href="#">1388</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| <code>\coWMTL</code>          | <a href="#">1421</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <code>\DontPrintSemicolon</code>                                                                                                                                                         | <a href="#">1985</a>                                                                                                                                                                                                                                             |
| <code>\coWPL</code>           | <a href="#">1432</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                                                                                              |
| <code>\coWSO</code>           | <a href="#">1372</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                                                                                              |
| <code>\coWSOL</code>          | <a href="#">1370</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| <code>\coWTL</code>           | <a href="#">1409</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| <code>\crv@false</code>       | <a href="#">40</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| <code>\crv@true</code>        | <a href="#">41</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| <code>\csdef</code>           | <a href="#">138</a> , <a href="#">139</a> , <a href="#">140</a> , <a href="#">141</a> , <a href="#">142</a> ,<br><a href="#">330</a> , <a href="#">332</a> , <a href="#">334</a> , <a href="#">336</a> , <a href="#">338</a> ,<br><a href="#">343</a> , <a href="#">417</a> , <a href="#">419</a> , <a href="#">422</a> , <a href="#">425</a> ,<br><a href="#">428</a> , <a href="#">434</a> , <a href="#">1014</a> , <a href="#">1030</a> , <a href="#">1032</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <code>\DeclareRobustCommandx</code> | <a href="#">838</a> , <a href="#">873</a> , <a href="#">877</a> , <a href="#">881</a> ,<br><a href="#">885</a> , <a href="#">976</a> , <a href="#">980</a> , <a href="#">984</a> , <a href="#">1003</a>                                                                                                                                                                                                                                                                     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| <code>\csedef</code>          | <a href="#">172</a> , <a href="#">176</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| <code>\E,□\A</code>            | <a href="#">1605</a> |
| <code>\EAFMC</code>            | <a href="#">1514</a> |
| <code>\EAGSL</code>            | <a href="#">1783</a> |
| <code>\Easy,□\Hard,□...</code> | <a href="#">1034</a> |
| <code>\EATL</code>             | <a href="#">1619</a> |
| <code>\EATLP</code>            | <a href="#">1634</a> |





|                                                    |                              |                                          |                  |                                                |                  |
|----------------------------------------------------|------------------------------|------------------------------------------|------------------|------------------------------------------------|------------------|
| <code>\iflog@</code> . . . . .                     | 88, 1210                     | <code>\linnum@false</code> . . . . .     | 48               | 891, 906, 964, 966, 968,                       |                  |
| <code>\ifmath@</code> . . . . .                    | 71, 805                      | <code>\linnum@true</code> . . . . .      | 49               | 970, 972, 977, 981, 985,                       |                  |
| <code>\ifmthgen@</code> . . . . .                  | 59, 517                      | <code>\llbracket</code> . . . . .        | 839              | 1000, 1004, 1054, 1055,                        |                  |
| <code>\iftab@</code> . . . . .                     | 115, 1976                    | <code>\llcorner</code> . . . . .         | 911              | 1056, 1057, 1058, 1059,                        |                  |
| <code>\iftext@</code> . . . . .                    | 66, 741                      | <code>\LNeg, \LNot</code> . . . . .      | 1229             | 1468, 1470, 1655, 1657                         |                  |
| <code>\ifthmtls@</code> . . . . .                  | 24, 222                      | <code>\lnegsym</code> . . . . .          | 1229, 1230       | <code>\mtharg</code> . . . . .                 | 405              |
| <code>\iftxtgen@</code> . . . . .                  | 53, 462                      | <code>\lnotsym</code> . . . . .          | 1231, 1232       | <code>\mthargfun</code> . . . . .              | 899              |
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| \UML                     | 1461         | \usrmthlatlow                | \wghsym                | 1200, 1202        |
| \UNGSL                   | 1836         | \usrmthlatupp                | \WH                    | <u>1052</u>       |
| \UOGSL                   | 1734         | 1090, 1105, 1224, 1268,      | \widehat               | 846               |
| \upharpoonright          | 901          | 1287, 1294, 1300, 1307,      | \widetilde             | 848               |
| \upshape                 | 327          | 1313, 1321, 1323, 1325,      | \WinSet                | <u>1106</u>       |
| \UPTL                    | 1530         | 1327, 1473, 1661, 1897       | \winset                | 1106, 1107        |
| \usetikzlibrary          | 1956         | \usrmthlet                   | \Wlogx                 | <u>799</u>        |
| \USL                     | 1717         | \usrmthlow                   | \wlogx                 | 796               |
| \usrmth                  | <u>433</u> , | \usrmthupp                   | \WMPL                  | 1440              |
| 441, 443, 445, 447, 449, |              | \usrtxt                      | \WMSO                  | 1384              |
| 451, 453, 455, 457, 522, |              | 342, 466, 468, 470, 472,     | \WMSOL                 | 1382              |
| 524, 526, 528, 530, 535, |              | 474, 478, 480, 482, 484,     | \WMTL                  | 1417              |
| 537, 539, 541, 543, 548, |              | 486, 491, 493, 495, 497,     | \wotFun                | <u>1940</u>       |
| 550, 552, 554, 556, 561, |              | 499, 503, 505, 507, 509, 511 | \wotfun                | 1940, 1941        |
| 563, 565, 567, 569, 574, |              | \UXGSL                       | \wp                    | 1255              |
| 576, 578, 580, 582, 587, |              | 1853                         | \WPL                   | 1428              |
| 589, 591, 593, 595, 606, |              |                              | \wrdset                | 1918, 1919        |
| 608, 610, 612, 614, 619, |              | V                            | \WrdSet, \...          | <u>1917</u>       |
| 621, 623, 625, 627, 632, |              | \valset                      | \wrdsym                | 1917, 1919        |
| 634, 636, 638, 640, 645, |              | 1270, 1271                   | \wrlset                | 1475, 1476        |
| 647, 649, 651, 653, 675, |              | \ValSet, \...                | \WrlSet, \...          | <u>1474</u>       |
| 677, 681, 687, 689, 691, |              | <u>1269</u> , 1271           | \wrlsym                | 1474, 1476, 1477  |
| 693, 695, 700, 702, 704, |              | \varcmd                      | \wrpfig@false          | 111               |
| 706, 708, 714, 716, 718, |              | 161, 856, 857, 858,          | \wrpfig@true           | 110               |
| 720, 722, 727, 729, 731, |              | 859, 860, 861, 862, 863,     | \wrt                   | 795               |
| 733, 735, 893, 894, 895, |              | 864, 865, 866, 867, 868, 869 | \WSO                   | 1366              |
| 896, 914, 915, 916, 917, |              | \varepsilon                  | \WSOL                  | 1364              |
| 919, 920, 921, 922, 923, |              | 1000                         | \WTL                   | 1405              |
| 924, 987, 988, 989, 990, |              | \varnothing                  |                        |                   |
| 991, 992, 993, 994, 995, |              | 891, 906                     | X                      |                   |
| 996, 997, 1005, 1006,    |              | \varset                      | \X, \...               | <u>1544</u>       |
| 1226, 1228, 1230, 1232,  |              | 1289, 1290                   | \XGSL                  | 1848, 1852, 1854  |
| 1234, 1236, 1238, 1240,  |              | \varsig                      | \xGSL                  | 1755, 1772, 1789, |
| 1242, 1244, 1248, 1249,  |              | 1286, 1287                   | 1806, 1823, 1840, 1857 |                   |
| 1250, 1251, 1252, 1253,  |              | \VarSig, \...                | \xi                    | 1135, 1269, 1708  |
| 1254, 1258, 1259, 1260,  |              | <u>1286</u>                  | \xspace                | 294               |
| 1261, 1291, 1292, 1298,  |              | \varsym                      |                        |                   |
| 1304, 1305, 1311, 1317,  |              | 1288, 1290                   | Y                      |                   |
| 1318, 1354, 1356, 1464,  |              | \vec                         | \Y, \...               | <u>1549</u>       |
|                          |              | 849                          |                        |                   |
|                          |              | \vert                        |                        |                   |
|                          |              | 874, 878                     |                        |                   |
|                          |              | \Viceversa                   |                        |                   |
|                          |              | <u>779</u>                   |                        |                   |
|                          |              | \viceversa                   |                        |                   |
|                          |              | <u>762</u>                   |                        |                   |
|                          |              | \viz                         |                        |                   |
|                          |              | <u>764</u>                   |                        |                   |
|                          |              | \vs                          |                        |                   |
|                          |              | <u>763</u>                   |                        |                   |
|                          |              | W                            |                        |                   |
|                          |              | \WATL                        |                        |                   |
|                          |              | 1613                         |                        |                   |
|                          |              | \WATLP                       |                        |                   |
|                          |              | 1628                         |                        |                   |