gurps — A LaTeX package for GURPS typesetting*

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Released 1970/01/01

Abstract

GURPS is an excellent RPG system. MEX is an excellent typesetting system. Together, they make excellent game aids. At least, they can with this package!

Contents

1	Moti	ration
2	Quid	cstart
3	In-d	pth usage
	3.1	Character creation
	3.2	Typographical features
	3.3	Online policy macros
		3.3.1 \SJGamesOnlinePolicyDisclaimer text
		3.3.2 \SJGamesOnlinePolicyNotice text
		3.3.3 \SJGamesOnlinePolicyGameAid text
4	lmpl	ementation
	4.1	Character environment
	4.2	A few toggles
	4.3	Printing the character
		4.3.1 Basic attributes
		4.3.2 Secondary Characteristics
		4.3.3 Stat block formatting

1 Motivation

I often like to make *GURPS* game aids for my own games. Over time, I started to collect various macros that made it easier. Eventually, I had enough game aids that I decided to write the macros up in a package, then I realised I could release on CTAN and share the *GURPS* goodness!

2 Quickstart

A brief overview of the commands in this package can be found in Table 1.

3 In-depth usage

The macros in this package can be divided into roughly three sections:

- 1. character creation
- 2. common typographical features of GURPS
- 3. macros for abiding by SJGames online policy

^{*}This file describes version v0.3, last revised 1970/01/01.

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Table 1: Basic commands in gurps package.

Macro	Example
$\dice{\langle no. of dice \rangle}[\langle modifier \rangle]$	3d+2
$\gray \gray \gra$	GURPS Zombies p. 1
\gurps	GURPS
\SJGamesOnlinePolicyDisclaimer	The material presented here is my original creation, intended for use with the <i>GURPS</i> system from Steve Jackson Games. This material is not official and is not endorsed by Steve Jackson Games.
\SJGamesOnlinePolicyNotice	GURPS is a registered trademark of Steve Jackson Games, and is copyrighted by Steve Jackson Games. All rights are reserved by Steve Jackson Games. This material is used here in accordance with the SJ Games online policy.
\SJGamesOnlinePolicyGameAid{ $\langle \it author\ name \rangle$ }	GURPS is a trademark of Steve Jackson Games, and its rules and art are copyrighted by Steve Jackson Games. All rights are reserved by Steve Jackson Games. This game aid is the original creation of AUTHOR NAME and is released for free distribution, and not for resale, under the permissions granted in the Steve Jackson Games Online Policy.
character environment, \ST, \advantage, etc.	See subsection 3.1

3.1 Character creation

character

Character (i.e. NPCs) creation can be tricky and involve a *lot* of boilerplate code. This package provides most of the boilerplate code so you only specify what is *different* from assumed values (e.g. If your character has a ST 13 but DX 10, IQ 10, HT 10, you only need to specify ST)

It is not currently possible to (easily) change the look of the stats block for the character environment. This is planned for a future release.

Warning!

This feature is still in alpha. The external API (\skill, \advantage, etc.) should not change, but the internal TEX and layout is *very* likely to change.

On to an example¹:

```
% \begin{character}
    \ST{9}
%
%
    \HP{12}
%
    \advantage{Natural afro}[1]
%
    \disadvantage{Big teeth}[-1]
%
    \skill{Nunchuck}[DX/Easy]{16}
%
    \meleeattack{
%
      name=Punch,
%
      level=18,
%
      damage={5d cr},
%
      reach={C,1},
%
      notes={Believe it!}
%
% \end{character}
   creates ...
```

Basic Attributes ST 9[-10]; DX 10[0]; IQ 10[0]; HT 10[0]

Secondary Characteristics HP 12[6]; Per 10[0]; Will 10[0]; FP 10[0]; Basic Speed 5[0]; Basic Move 5[0]

Other DR 0; Dodge 8; SM 1; sw 1d-1; thr 1d-2

¹Any resemblance to Napolean Dynamite is completely ... intentional!

Advantages Natural afro[1]; TEX-nical afro[1]

Disadvantages Big teeth[-1]

Skills Nunchuck 16[20]

Attacks

- Punch 18 5d cr Believe it! Reach: C,1

3.2 Typographical features

\dice Using the \dice $\{\langle no.\ of\ dice\rangle\}$ [$\langle modifier\rangle$] provides dice notation consistent with *GURPS* materials. E.g.

\dice{3}
$$\rightarrow$$
 3d \dice{4}[-1] \rightarrow 4d-1 \dice{2}[1] \rightarrow 2d+1

\gurpsbook

The command \gurpsbook{ $\langle book\ name \rangle$ }[$\langle page\ number(s) \rangle$] formats **GURPS** books like Steve Jackson Games. E.g.

```
\label{eq:continuous} $$ \operatorname{SURPS High Tech} \to \operatorname{GURPS Zombies} p. 3 $$ \operatorname{Surpsbook}(\operatorname{Surbies}[3] \to \operatorname{GURPS Zombies} p. 3 $$ \operatorname{Surpsbook}(\operatorname{Surbies}[1, 3--5] \to \operatorname{GURPS Warehouse} 23 pp. 1, 3-5) $$
```

3.3 Online policy macros

\SJGamesOnlinePolicyDisclaimer \SJGamesOnlinePolicyNotice \SJGamesOnlinePolicyGameAid The macros \SJGamesOnlinePolicyDisclaimer, \SJGamesOnlinePolicyNotice and \SJGamesOnlinePolicyGameAid{ $\langle author\ name \rangle$ } provide common boilerplate statements taken directly from SJGames online policy with small modifications to make them more suitable to game aids created with LualFeX.

\gurps

The command \gurps is also included to provide bold and italicised *GURPS* as requested in the online policy

3.3.1 \SJGamesOnlinePolicyDisclaimer text

Using the code \SJGamesOnlinePolicyDisclaimer produces the text:

The material presented here is my original creation, intended for use with the **GURPS** system from Steve Jackson Games. This material is not official and is not endorsed by Steve Jackson Games.

3.3.2 \SJGamesOnlinePolicyNotice text

Using the code \SJGamesOnlinePolicyOnlineNotice produces the text:

GURPS is a registered trademark of Steve Jackson Games, and is copyrighted by Steve Jackson Games. All rights are reserved by Steve Jackson Games. This material is used here in accordance with the SJ Games online policy.

3.3.3 \SJGamesOnlinePolicyGameAid text

Using the code \SJGamesOnlinePolicyGameAid{NAME} produces the text:

GURPS is a trademark of Steve Jackson Games, and its rules and art are copyrighted by Steve Jackson Games. All rights are reserved by Steve Jackson Games. This game aid is the original creation of NAME and is released for free distribution, and not for resale, under the permissions granted in the Steve Jackson Games Online Policy.

Implementation

```
Loading required libraries and the lua logic for this class.
```

```
1 (*package)
                                   2 \RequirePackage{etoolbox}
                                   3 \RequirePackage{xparse}
                                   4 \RequirePackage{xspace}
                                   5 \RequirePackage{luacode}
                                   6 \RequirePackage{tikz}
                                   7 \RequirePackage{calc}
                                   8 \PassOptionsToPackage{inline}{enumitem}
                                   9 \RequirePackage[inline]{enumitem}
                                   Il \RequirePackage{hyperref}
                                   12 \RequirePackage{xstring}
                                   13 \RequirePackage{xkeyval}
                                   15 \luadirect{require("gurps.lua")}
                                   16 \luadirect{require("gurps_character.lua")}
                                  Steve Jackson Games asks that the name GURPS is always in bold and italicised. This macro provides
                                   17 \NewDocumentCommand{\gurps}{s}{%
                                   18
                                         \IfBooleanTF#1
                                   19
                                         % With star
                                         {\href{http://www.sjgames.com/gurps/}{\textbf{\textit{GURPS}}\xspace}}
                                         % Without star
                                   22
                                         {\textbf{\textit{GURPS}}\xspace}%
                                   23 }
                                 Notates dice in the GURPS way (e.g., drops the 6 from d6) and puts it in an \mbox. First argument number
                                  of dice. Second argument is a modifier and optional. E.g. \dice{3}[1] creates 3d+1.
                                   24 \NewDocumentCommand{\dice}{mO{0}}{%
                                       \luadirect{print_dice([[#1]], [[#2]])}%
                                  Helper macro to print pp. or p. when listing page numbers
                   \gurps@porpp
                                   27 \NewDocumentCommand{\gurps@porpp}{m}{\IfInteger{#1}{p.}{pp.}}
                                  Works like this: GURPS Horror p. 45 or GURPS Banestorm pp. 3, 45–48
                     \gurpsbook
                                   28 \NewDocumentCommand{\gurpsbook}{mo}{%
                                       \textbf{\text{\gurps@porpp}${$2}^{2}} \label{textit} $$ \operatorname{\gurps@porpp}${$2}^{2}% $$
                                  30 }
                                  Steve Jackson Games printed with link (starred) or without (unstarred).
                                   31 \NewDocumentCommand{\SJGames}{s}{%
                                         \IfBooleanTF#1%
                                   33
                                         % With star
                                   34
                                         {\href{http://www.sjgames.com/}{Steve~Jackson~Games}\xspace}%
                                   35
                                         % Without star
                                         {Steve~Jackson~Games\xspace}%
                                   36
                                   37 }
                                  Online policy disclaimer, basically straight from the Steve Jackson Games online policy.
\SJGamesOnlinePolicyDisclaimer
                                  38 \NewDocumentCommand{\SJGamesOnlinePolicyDisclaimer}{}{%
                                  39 The material presented here is my original creation, intended for use with the
                                   40 \gurps* system from \SJGames*. This material is not official and is
                                       not endorsed by \SJGames.
                                   41
                                   42 }
                                  The disclaimer almost as it appears on the online policy. The words 'the art' have been removed since
```

\SJGamesOnlinePolicyNotice

by default no art (including logos) are included in **MFX** documents.

```
43 \NewDocumentCommand{\SJGamesOnlinePolicyNotice}{}{%
44 \gurps* is a registered trademark of \SJGames*, and is copyrighted by
45 \SJGames. All rights are reserved by \SJGames. This material is used
46 here in accordance with the SJ Games
47 \href{http://www.sjgames.com/general/online_policy.html}{online policy}.
48 }
```

\SJGamesOnlinePolicyGameAid

This text is required for all game aid's produced for *GURPS* but without an official license. It takes one argument: author name.

```
49 \NewDocumentCommand{\SJGamesOnlinePolicyGameAid}{m}{%
50 \gurps* is a trademark of \SJGames*, and its rules and art are
51 copyrighted by \SJGames*. All rights are reserved by
52 \SJGames. This game aid is the original creation of #1 and
53 is released for free distribution, and not for resale, under the
54 permissions granted in the
55 \href{http://www.sjgames.com/general/online_policy.html}%
56 {\SJGames Online Policy}.
57}
```

4.1 Character environment

This section lists the character environment and all the macros that go into it.

Future plans!

At the moment, there's a real mix of commands with and without @ that should probably be switched to be internal/external so that the user can configure them (e.g. \gurps@char@print@attr). In the future, this will happen. For now ... feel free to edit them and see what happens! :)

Also in the future, there will eventually be 'theme' support such that the user can configure different ways of printing the character (e.g. disable points for a monster manual, use a tcolorbox for the statblock, etc.). Can't say when yet, but pull requests are welcome!

character, character*

This environment defines a 'character' i.e. anything with full stats. A character* will define a character but not print it.

It takes [$\langle character\ key \rangle$] which provides a means to access the character later in the file. It is set with \SetCharacterKey and reset with \ResetCharacterKey. In order to access the character later, just use \SetCharacterKey{ $\langle character\ key \rangle$ }, use the commands (e.g. \gurps@char@advantages) and then reset².

```
58 \NewDocumentEnvironment{character}{$0{_}}{%
59 \SetCharacterKey{#2}%
60 \luadirect{new_character(_GCHARACTERKEY)}%
61 }{%
62 \gurps@char@checkandfixattrsandpoints%
63 \IfBooleanTF{#1}{}{\printcharacter}%
64 \ResetCharacterKey%
65 }
```

\SetCharacterKey

Sets the key for the current character. This sets the lua string _GCHARACTER which acts as a key for the global Lua table _GCHARACTERS.

```
66 \NewDocumentCommand{\SetCharacterKey}{m}{%
67 \luadirect{_GCHARACTERKEY = \luastring{\unexpanded{#1}}}%
68 }
```

\ResetCharacterKey

Resets the character key to _.

```
69 \NewDocumentCommand{\ResetCharacterKey}{}{%
70 \SetCharacterKey{_}%
71 }
```

²Although resetting is not strictly necessary, global variables are a Bad Thing[™] so we reset in order to emulate some kind of scope. Resetting just changes the character key to _.

\gurps@char@insertattr

Macro for inserting an attribute to the character. Anything inserted with :nolatex: in the name is not added to the character. (This is to aid importing directly from a \star .gcs file.)

First, we define the xkeval keys for the function. These are set up to convert the values directly into the right Lua types.

Then we define $\gray \gray \$

Side note: anything with :nolatex: in the name is discarded and not put into the character.

```
87 \NewDocumentCommand{\gurps@char@insertattr}{m}{
    \def\@myenvname{character}
    \ifx\@currenvir\@myenvname
90 % pass
91 \else
92
    \PackageError{gurps}{Not in character environment! Currently in \@currenvir{} environment.}{}
93
94
    \setkeys{gurps@char@insertattr}{
95
      name=NotSet,
96
97
       type=NotSet,
98
       points=nil,
       level=nil,
       basedon=DX,
100
101
       difficulty=NotSet,
102
       diceexpr=NotSet,
103
104
    \setkeys{gurps@char@insertattr}{#1}
105
106
    % If the name has the tag :nolatex:, don't add it! Otherwise, add it.
107
    \luadirect{
108
       if not string.find(\luastring{\gurps@char@insertattr@name}, \luastring{:nolatex:}) then
         % If arg is blank (e.g. identity()), then this returns nil.
110
111
         function identity(x)
112
           return x
113
         end
114
         x = {
115
           name=\gurps@char@insertattr@name,
116
117
           type=\gurps@char@insertattr@type,
118
           points=\gurps@char@insertattr@points,
119
           level=identity(\gurps@char@insertattr@level),
           basedon=\gurps@char@insertattr@basedon,
120
           difficulty=\gurps@char@insertattr@difficulty,
121
122
           diceexpr=\gurps@char@insertattr@diceexpr
123
124
         if_else_packageerror(
125
         function() return is_valid_type(x.type) end,
126
```

```
"Type '" .. x.type .. "' is not a valid attribute type!"
127
128
         .. " Did you remember to set the type?"
129
130
131
         if_else_packageerror(
         function() return is_valid_points(x.points) end,
132
         "Points value '" .. tostring(x.points) .. "' is not valid!"
133
134
135
         if x.type == "skill" or x.type == "spell" then
136
           if_else_packageerror(
137
138
             function() return is_valid_difficulty(x.difficulty) end,
              "Difficulty value '" .. x.difficulty .. "' is not valid!"
139
140
           )
141
           end
142
         insert_attr(_GCHARACTERKEY, x)
143
    }%
144
145 }
```

4.2 A few toggles

These should be set by lua stuff.

```
146 \newtoggle{hasadvantages}
147 \newtoggle{hasdisadvantages}
148 \newtoggle{hastraits}
149 \newtoggle{hasskills}
150 \newtoggle{hasspells}
151 \newtoggle{hasattacks}
```

\gurps@char@checkandfixtoggles

This command fixes all the toggles used in printing the character.

```
152 \NewDocumentCommand{\gurps@char@checkandfixtoggles}{}{%
153 \luadirect{check_and_fix_toggles(_GCHARACTERKEY)}%
154 }
```

4.3 Printing the character

\gurps@char@spells%

178

\printcharacter

(This function is mostly for debug at the moment)

```
155 \NewDocumentCommand{\printcharacter}{o}{%
    \IfValueTF{#1}{\SetCharacterKey{#1}}{}%
    \gurps@char@checkandfixtoggles%
158
    \charactersection*{Basic Attributes}%
159
    \gurps@char@basicattributes%
160
    \charactersection*{Secondary Characteristics}%
    \gurps@char@secondarycharacteristics%
161
    \charactersection*{Other}%
162
    \gurps@char@properties%
163
164
    \iftoggle{hasadvantages}{%
      \charactersection*{Advantages}%
165
      \gurps@char@advantages%
166
    \iftoggle{hasdisadvantages}{%
169
      \charactersection*{Disadvantages}%
170
      \gurps@char@disadvantages%
171
172
    \iftoggle{hasskills}{%
173
      \charactersection*{Skills}%
      \gurps@char@skills%
174
175
    }{}%
     \iftoggle{hasspells}{%
176
177
      \charactersection*{Spells}%
```

```
179
                              }{}%
                          180
                              \iftoggle{hasattacks}{%
                                \charactersection*{\strut Attacks}\ \linebreak%
                          182
                                \gurps@char@attacks%
                          183 }{}%
                          184 \IfValueTF{#1}{\ResetCharacterKey}{}%
                          185 }
\gurps@char@getattrlevel
                          187 \luadirect{
                                x = filter({name=\label{eq:character} \cite{filter(gCHARACTERKEY)}})
                                if x then
                          189
                          190
                                 tex.sprint(x.level)
                          191
                                else
                          192
                                  tex.sprint([[\PackageError{gurps}{Stat '#1' not found!}]])
                          193
                          194 }%
                          195 }
                                Basic attributes
                    \ST Sets the strength of the current character
                          196 \NewDocumentCommand{\ST}{mO{nil}}{
                          197 \gurps@char@insertattr{
                          198
                                name=ST,
                          199
                                type=basic_attribute,
                                level=#1.
                         200
                                points=#2
                          201
                         202 }%
                         203 }
                    \DX Sets the dexterity of the current character
                          204 \NewDocumentCommand{\DX}{mO{nil}}{%
                         205 \gurps@char@insertattr{
                                name=DX,
                         206
                                type=basic_attribute,
                          207
                         208
                                level=#1,
                                points=#2
                         209
                          210 }%
                          211 }
                    \IO Sets the IQ of the current character
                          212 \MewDocumentCommand{\IQ}{mO{nil}}{%}
                          213 \gurps@char@insertattr{
                          214
                                name=IQ,
                                type=basic_attribute,
                          215
                                level=#1,
                          216
                          217
                                points=#2
                          218
                             }%
                          219 }
                    \HT Sets the health of the current character
                          220 \NewDocumentCommand{\HT}{mO{nil}}{%
                          221 \gurps@char@insertattr{
                                name=HT,
                          223
                                type=basic_attribute,
                          224
                              level=#1,
                          225
                                points=#2
                         226 }%
                         227 }
```

4.3.2 Secondary Characteristics

This section defines secondary characteristics (as *GURPS Basic Set*). Points are set in a later function \gurps@char@checkandfixattrsandpoints if they are not set here.

```
Sets the HP of the current character
       228 \NewDocumentCommand{\HP}{mO{nil}}{%
       229 \gurps@char@insertattr{
              name=HP,
       231
              type=secondary_characteristic,
       232
              level=#1,
              points=#2
       233
       234 }%
       235 }
\Per Sets the perception of the current character
       236 \NewDocumentCommand{\Per}{mO{nil}}{%}
       237 \gurps@char@insertattr{
       238
              name=Per,
       239
              type=secondary_characteristic,
       240
              level=#1,
              points=#2
       241
       242 }%
       243 }
\Will Sets the will of the current character
       244 \NewDocumentCommand{\Will}{mO{nil}}{%
       245 \gurps@char@insertattr{
              name=Will,
       246
       247
              type=secondary_characteristic,
              level=#1,
       248
       249
              points=#2
       250
            }%
       251 }
  \FP Sets the FP of the current character
       252 \NewDocumentCommand{\FP}{mO{nil}}{%
       253 \gurps@char@insertattr{
       254
              name=FP.
       255
              type=secondary_characteristic,
              level=#1,
       257
              points=#2
       258
       259 }
  \SM Sets the SM of the current character
       260 \NewDocumentCommand{\SM}{m}{%
       261 \gurps@char@insertattr{
       262
              name=SM,
              type=property,
       264
              level=#1
       265 }%
       266 }
  \DR Sets the DR of the current character. Takes \DR[\langle specialisation \rangle]{\langle level \rangle}.
       267 \NewDocumentCommand{\DR}{om}{
            \IfValueTF{#1}{%
       268
       269
              \gurps@char@insertattr{%
       270
                 name={DR (#1)},%
       271
                 type=property,%
       272
                level=#2%
              }%%
       273
       274 }{%
```

```
275
                                  \gurps@char@insertattr{%
                           276
                                     name=DR,%
                           277
                                     type=property,%
                           278
                                     level=#2%
                           279
                                  }%
                           280
                               }%
                           281 }
                     \thr Sets the thr of the current character
                           282 \NewDocumentCommand{\thr}{m}{
                           283 \gurps@char@insertattr{
                           284
                                  name=thr,
                           285
                                  type=property,
                           286
                                  diceexpr=#1
                           287 }%
                           288 }
                      \sw Sets the sw of the current character
                           289 \NewDocumentCommand{\sw}{m}{
                           290 \gurps@char@insertattr{
                                  name=sw,
                           291
                           292
                                  type=property,
                           293
                                  diceexpr=#1
                           294 }%
                           295 }
             \basicspeed Sets the Basic Speed of the current character
                           296 \NewDocumentCommand{\basicspeed}{mO{nil}}{
                           297 \gurps@char@insertattr{
                           298
                                  name={Basic Speed},
                           299
                                  type=secondary_characteristic,
                           300
                                  level=#1,
                                  points=#2
                           301
                           302
                               }%
                           303 }
                           Sets the Basic Move of the current character
                           304 \NewDocumentCommand{\basicmove}{mO{nil}}{
                           305 \gurps@char@insertattr{
                           306
                                  name={Basic Move},
                           307
                                  type=secondary_characteristic,
                           308
                                  level=#1,
                           309
                                  points=#2
                           310
                                }%
                            311 }
\gurps@char@insertattack
                            312 \define@key{gurps@char@insertattack}{name}{
                            313 \def\gurps@char@insertattack@name{\luastring{\unexpanded{#1}}}}
                            314 \define@key{gurps@char@insertattack}{type}{
                            315 \def\gurps@char@insertattack@type{\luastring{\unexpanded{#1}}}}
                           316 \define@key{gurps@char@insertattack}{damage}{
                            317 \def\gurps@char@insertattack@damage{\luastring{\unexpanded{#1}}}}
                           {\tt 318 \setminus define@key\{gurps@char@insertattack\}\{level\}\{\setminus def\setminus gurps@char@insertattack@level\{\#1\}\}\}}
                           319 \define@key{gurps@char@insertattack}{reach}{
                           320 \def\gurps@char@insertattack@reach{\luastring{\unexpanded{#1}}}}
                           321 \define@key{gurps@char@insertattack}{range}{
                           322 \def\gurps@char@insertattack@range{\luastring{\unexpanded{#1}}}}
                           323 \define@key{gurps@char@insertattack}{notes}{
                           324
                                \def\gurps@char@insertattack@notes{\luastring{\unexpanded{#1}}}}
                           325
                           326 % Set default values
                           327 \setkeys{gurps@char@insertattack}{
```

```
329
                   type=NotSet,
              330
                   damage=0d,
                   level=nil,
              331
              332
                   reach=NotSet,
                   range=NotSet,
              333
                   notes={},
              334
              335 }
              336 \NewDocumentCommand{\gurps@char@insertattack}{sm}{
                   \def\@myenvname{character}
              337
                   \ifx\@currenvir\@myenvname
              339
                   % pass
              340
                   \else
                   341
              342
              343
                   \IfBooleanTF{#1}{}{
              344
                     \setkeys{gurps@char@insertattack}{
              345
                       name=NotSet,
              346
                       type=NotSet,
              347
              348
                       damage=0d,
              349
                       level=nil,
              350
                       reach=NotSet,
               351
                       range=NotSet,
              352
                       notes={},
              353
              354
                     \setkeys{gurps@char@insertattack}{#2}
              355
              356
                   }
              357
                   % \show\gurps@char@insertattack@name
              358 % \show\gurps@char@insertattack@type
              359 % \show\gurps@char@insertattack@level
              360 % \show\gurps@char@insertattack@damage
              361 % \show\gurps@char@insertattack@reach
              362 % \show\gurps@char@insertattack@range
              363 % \show\gurps@char@insertattack@notes
                   \luadirect{x = {
              364
                       name=\gurps@char@insertattack@name,
              365
                       type=\gurps@char@insertattack@type,
              366
              367
                       level=\gurps@char@insertattack@level,
              368
                       damage=\gurps@char@insertattack@damage,
              369
                       reach=\gurps@char@insertattack@reach,
              370
                       range=\gurps@char@insertattack@range,
               371
                       notes=\gurps@char@insertattack@notes,
              372
              373
                     if_else_packageerror(
              374
                       function() return is_valid_type(x.type) end,
                        "Type '" .. x.type .. "' is not a valid attribute type!"
              375
                         .. " \operatorname{Did} you remember to set the type?"
              376
              377
                     insert_attr(\_GCHARACTERKEY, x)
              378
              379
                   }
              380 }
              381
\rangedattack
              382 \NewDocumentCommand{\rangedattack}{m}{%
                   \setkeys{gurps@char@insertattack}{#1}%
              384
                   \setkeys{gurps@char@insertattack}{type=ranged_attack}
              385
                   \gurps@char@insertattack*{}
              386
              387 }
```

328 name=NotSet,

```
388 \NewDocumentCommand{\gurps@char@print@attack}{mmmO{RangeOrReach}mm}{%
                          389 \textbf{\textit{#1 \fbox{#2} #3}} #6 \textit{#4: #5}%
                          390 }
            \meleeattack
                          391 \NewDocumentCommand{\meleeattack}{m}{%
                          392 \setkeys{gurps@char@insertattack}{#1}%
                               \setkeys{gurps@char@insertattack}{type=melee_attack}
                          395
                               \gurps@char@insertattack*{}
                          396 }
                          Adds an advantage to a character. NOTE: this only works in a character.
              \advantage
                          397 \MewDocumentCommand{\advantage}{mO{nil}}{%}
                          398 \gurps@char@insertattr{%
                          399
                                 name={#1},%
                          400
                                 type=advantage,%
                          401
                                 points=#2%
                          402 }%
                          403 }
                          Adds a disadvantage to a character. NOTE: this only works in a character or lens environment.
           \disadvantage
                          404 \NewDocumentCommand{\disadvantage}{mO{nil}}{%
                               \gurps@char@insertattr{%
                                 name={#1},%
                          406
                          407
                                 type=disadvantage,%
                          408
                                 points=#2%
                          409
                              }%
                          410 }
                          Adds an advantage to a character. NOTE: this only works in a character or lens environment.
      \levelledadvantage
                           411 % TODO finish this!
                           \gurps@char@insertattr{%
                                name={#1},%
                           414
                           415
                                 type=advantage,%
                           416
                                 level=#2,
                           417
                                 points=#3%
                           418 }%
                          Adds a disadvantage to a character. NOTE: this only works in a character or lens environment.
  \levelleddisadvantage
                          420 \NewDocumentCommand{\levelleddisadvantage}{mmO{nil}}{%
                           421 \gurps@char@insertattr{%
                          422
                                 name={#1},%
                          423
                                 type=disadvantage,%
                          424
                                 level=#2
                          425
                                 points=#3%
                               }%
                          426
                          Macro for skills or spells (since functionally they are the same in GURPS.). The [\langle points \rangle] can be a
\gurps@char@SpellOrSkill
                          specifier e.g. DX/Easy or points e.g. 48.
                          428 \NewDocumentCommand{\gurps@char@SpellOrSkill}{mm}{
                               \NewDocumentCommand{#1}{mom}{%
                          430
                                 \IfValueTF{##2}{%
                          431
                                   \makeatletter%
                          432
                                   \luadirect{
                          433
                                     tmpone = \luastring{\unexpanded{##1}}
                          434
                                     tmptwo = \luastring{\unexpanded{##2}}
                          435
                                     tmpthree = \luastring{\unexpanded{##3}}
                          436
```

437

\IfInteger{##2}{%

```
439
                                 tex.sprint(
                   440
                                 [[\gurps@char@insertattr{]]
                    441
                                   .. [[name={]] .. tmpone .. [[},]]
                   442
                                   .. [[type=#2,]]
                                   .. [[points=##2,]]
                   443
                                   .. [[level=]] .. tmpthree
                   444
                   445
                                      "}"
                                 )
                   446
                   447
                              }
                   448
                             }{%
                   449
                               \luadirect{
                                 basedon = tmptwo:gsub('/.*', '')
                   450
                                 difficulty = tmptwo:gsub('.*/', '')
                    451
                                 tex.sprint(
                   452
                                 [[\gurps@char@insertattr{]]
                   453
                                   .. [[name={]] .. tmpone .. [[},]]
                   454
                                   .. [[type=#2,]]
                   455
                                   .. [[basedon=]] .. basedon .. ','
                   456
                                   .. [[difficulty=]] .. difficulty .. ','
                   457
                   458
                                   .. [[level=]] .. tmpthree
                   459
                                   .. "}"
                   460
                    461
                               }%
                             }%
                   462
                             \makeatother%
                   463
                   464
                   465
                             \gurps@char@insertattr{%
                   466
                               name={##1},%
                               type=#2,%
                   467
                               level=##3
                   468
                   469
                             }%
                   470
                          }%
                    471
                        }
                   472 }
           \skill
                   473 \gurps@char@SpellOrSkill{\skill}{skill}
           \spell
                   474 \gurps@char@SpellOrSkill{\spell}{spell}
                   4.3.3 Stat block formatting
 \charactertitle   As a title for the character stats block, we define \charactertitle
                   475 \newcounter{charactertitle} % to keep LaTeX happy
                   476 \newcommand{\charactertitlemark}[1]{} % ditto
                    477 \newcommand\charactertitle{%
                   478
                        \@startsection{charactertitle}%
                                       level for secnumdepth and tocdepth
                   479
                        {100}%
                   480
                        {\z@}%
                                      indentation
                                      space before
                        {\topsep}%
                         {\topsep}%
                                      space below
                        {\racklimits}% format of the text
                   483
                   484 }
\charactersection For sections in the the character stats block, we define \charactersection
                   485 \newcounter{charactersection} % to keep LaTeX happy
                   486 \newcommand{\charactersectionmark}[1]{} % ditto
                   487 \newcommand\charactersection{%
                   488
                        \@startsection{charactersection}%
                                         level for secnumdepth and tocdepth
                   489
                          {101}%
                           {\z@}%
                                        indentation
                   490
```

438

\luadirect{

```
491
                                                                       {\topsep}% space before
                                                         492
                                                                        {-1em}%
                                                                                          space below
                                                         493
                                                                        {\raggedright\bfseries}% format of the text
                                                         494 }
                                                         495% \NewDocumentCommand{\charactersection}{m}{%
                                                                       \noindent\par\noindent\textbf{\large #1}\\noindent%
                                                         496 %
                                                         497 % }
                                                         who's code is taken almost without change from https://tex.stackexchange.com/questions/97565/flexible-vspac
                charactertraitlist
                                                         We define the charactertraitlist to list the traits. By default, this is an itemize* from the enumitem
                                                         package with some customisations
                                                         498 \NewDocumentEnvironment{charactertraitlist}{}
                                                         499 {\noindent\begin{itemize*}[itemjoin={{; }},label=,afterlabel={}]}
                                                         500 {\end{itemize*}}
                                attacklist We define the attacktraitlist to list the traits. By default, this is an itemize* from the enumitem
                                                         package with some customisations
                                                          501 \NewDocumentEnvironment{attacklist}{}
                                                         502 {%
                                                         503 \noindent%
                                                                  \begin{itemize}[%
                                                         504
                                                                       % itemjoin={\\},% TODO figure out why this causes a problem!
                                                         505
                                                         506
                                                                       label={--},%
                                                         507
                                                                       wide,
                                                         508
                                                                      nosep
                                                                       % afterlabel={},% Default of ~ is good
                                                          510
                                                           \gurps@char@print@attr
                                                         It's like this: \gray 
                                                         called by the lua function attr_to_tex (which returns a string)
                                                          512 \NewDocumentCommand{\gurps@char@print@attr}{omo}{%
                                                          513 \IfValueTF{#3}{%
                                                          514
                                                                       \def\tmp@points{[#3]}%
                                                          515 }{%
                                                          516
                                                                    \def\tmp@points{}%
                                                          517 }%
                                                          518 \IfValueTF{#1}{%
                                                                     #2~#1\tmp@points%
                                                          519
                                                         520 }{%
                                                          521
                                                                       #2\tmp@points%
                                                         522 }%
                                                         523 }
              \gurps@char@attacks
                                                         524 \NewDocumentCommand{\gurps@char@attacks}{}{%
                                                         525 \luadirect{attacklist(_GCHARACTERKEY)}
                                                         526 }
\gurps@char@TraitListMaker
                                                         527 \NewDocumentCommand{\gurps@char@TraitListMaker}{mmO{nil}}{
                                                         528 \NewDocumentCommand{#1}{}{%
                                                                       \makeatletter%
                                                         530
                                                                      \luadirect{traitlistmaker(#2, _GCHARACTERKEY, #3)}%
                                                          531
                                                                       \makeatother%
                                                         532 }%
                                                         533 }
      \gurps@char@totalpoints
                                                         534 \NewDocumentCommand{\gurps@char@totalpoints}{O{_}}}{%
                                                         535 \luadirect{tex.sprint(sum_points(\luastring{\unexpanded{#1}}))}~pt%
                                                         536 }
```

```
\gurps@char@traits
                               537 \gurps@char@TraitListMaker{\gurps@char@traits}{is_trait}
         \gurps@char@advantages
                               538 \gurps@char@TraitListMaker{\gurps@char@advantages}{is_advantage}
      \gurps@char@disadvantages
                               539 \gurps@char@TraitListMaker{\gurps@char@disadvantages}{is_disadvantage}
            \gurps@char@skills
                               540 \gurps@char@TraitListMaker{\gurps@char@skills}{is_skill}
            \gurps@char@spells
                               541 \gurps@char@TraitListMaker{\gurps@char@spells}{is_spell}
    \gurps@char@basicattributes
                               542 \gurps@char@TraitListMaker{\gurps@char@basicattributes}{is_basic_attribute}[basic_attributes_sorter]
os@char@secondarycharacteristics
                               tic}[secondary_characteristics_sorter]
         \gurps@char@properties
                               544 \gurps@char@TraitListMaker{\gurps@char@properties}{is_property}
s@char@checkandfixattrsandpoints
                               545 \NewDocumentCommand{\gurps@char@checkandfixattrsandpoints}{}{%
                                   \luadirect{check_and_fix_attrs_and_points(_GCHARACTERKEY)}%
                               547 }
                               548 \endinput
                               549 (/package)
```

Change History

```
v0.1 \quad \
```

Index

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

Symbols	A	C
\@currenvir 89, 92, 338, 341	\advantage <u>397</u>	character (environment) 2
\@myenvname 88, 89, 337, 338	attacklist (environment) . 501	character, character* (en-
\@startsection 478, 488		vironment) <u>58</u>
,	В	\charactersection
\\	\basicmove <u>304</u>	158, 160, 162,
	\basicspeed <u>296</u>	165, 169, 173, 177, 181, <u>485</u>
	\begin 499, 504	\charactersectionmark 486
\	\bfseries 483,493	\charactertitle <u>475</u>

\charactertitlemark 476	297, 305, 398, 405,	\makeatother 463, 531
charactertraitlist (envi-		\meleeattack <u>391</u>
ronment) <u>498</u>	\gurps@char@insertattr@basedon	
D	84, 120	N Annuacumtar 475 485
\def	\gurps@char@insertattr@diceexpl	\newtoggle 473, 403
78, 80, 82, 84, 86, 88,	\gurps@char@insertattr@difficu	
313, 315, 317, 318, 320,		\noindent 496, 499, 503
322, 324, 337, 514, 516	\gurps@char@insertattr@level	
\define@key 72,75, 77,79,81,83,85,312,	78, 119	P 02 102 241
314, 316, 318, 319, 321, 323	\gurps@char@insertattr@name	\PackageError 92, 192, 341 \par 496
\dice 3, <u>24</u>		\PassOptionsToPackage 8
\disadvantage 404	\gurps@char@insertattr@points 82, 118	\Per 236
\DR <u>267</u>	\gurps@char@insertattr@type	\printcharacter $63, \overline{155}$
\DX		
Е	\gurps@char@print@attack 388	R
\else 91, 340	\gurps@char@print@attr . <u>512</u>	\raggedright 483, 493 \rangedattack 382
\end 500, 511	\gurps@char@properties .	\RequirePackage 2,
\endinput 548	\gurps@char@secondarycharacter:	0 / 5 / 7 0 11 10 10
environments:		\ResetCharacterKey 64, 69, 184
attacklist <u>501</u> character <u>2</u>	\gurps@char@skills . 174, 540	•
character, character* 58	\gurps@char@SpellOrSkill	S \SetCharacterKey 59, <u>66</u> , 70, 156
charactertraitlist . 498		\setkeys . 95, 105, 327, 345,
F	\gurps@char@spells 178, <u>541</u>	355, 383, 384, 392, 393
\fbox 389	\gurps@char@totalpoints <u>534</u> \gurps@char@TraitListMaker	\show 357, 358,
\fi 93, 342	. <u>527</u> , 537, 538, 539,	359, 360, 361, 362, 363
\FP	540, 541, 542, 543, 544	\SJGames <u>31</u> , 40,
G	\gurps@char@traits <u>537</u>	41, 44, 45, 50, 51, 52, 56
\gurps 3, <u>17</u> , 29, 40, 44, 50	\gurps@porpp <u>27</u> , 29	\SJGamesOnlinePolicyDisclaimer
(gai po o, <u>11, 27, 10, 11, 00</u>	\ cumpabaak 2 20	
\gurps@char@advantages .	\gurpsbook 3, <u>28</u>	 -
\gurps@char@advantages 166, <u>538</u>	H	\SJGamesOnlinePolicyGameAid 3, 49
	H	\SJGamesOnlinePolicyGameAid
\gurps@char@attacks 182, 524 \gurps@char@basicattributes	HP	\SJGamesOnlinePolicyGameAid
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	HP	\SJGamesOnlinePolicyGameAid
\gurps@char@attacks 182, 524 \gurps@char@basicattributes \displays 159, 542 \gurps@char@checkandfixattrsand	HP	\SJGamesOnlinePolicyGameAid 3, 49 \SJGamesOnlinePolicyNotice 3, 43 \skill 473 \SM 260
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	H \HP	\SJGamesOnlinePolicyGameAid 3, 49 \SJGamesOnlinePolicyNotice 3, 43 \skill 473 \SM 260 \spell 474
\text{\gurps@char@attacks} \text{\figurps@char@attacks} \text{\figurps@char@basicattributes} \text{\figurps@char@chackandfixattrsand} \text{\figurps@chackandfixattrsand} \figurps@cha	H \hP	\SJGamesOnlinePolicyGameAid 3, 49 \SJGamesOnlinePolicyNotice 3, 43 \skill 473 \SM 260
\text{\gurps@char@attacks} \text{182, \frac{524}{24}} \text{\gurps@char@basicattributes} \text{\gurps@char@checkandfixattrsand} \text{\gurps@char@checkandfixtoggles} \q	H \hP	\SJGamesOnlinePolicyGameAid
\text{\gurps@char@attacks} \text{182, \frac{524}{524}} \gurps@char@basicattributes \text{\limits.} \frac{159, \frac{542}{542}} \gurps@char@checkandfixattrsand \text{\limits.} \frac{62, \frac{545}{545}} \gurps@char@checkandfixtoggles \text{\limits.} \frac{152}{157} \gurps@char@disadvantages \text{\limits.} \frac{170, \frac{539}{539}} \text{\limits.}	H \hP	\SJGamesOnlinePolicyGameAid
\text{\frac{166, \frac{538}{524}}} \gurps@char@attacks \text{\frac{182, \frac{524}}{524}} \gurps@char@basicattributes \text{\frac{159, \frac{542}}{542}} \gurps@char@checkandfixattrsand \text{\frac{62, \frac{545}{545}}} \gurps@char@checkandfixtoggles \text{\frac{152}{157}} \gurps@char@disadvantages \text{\frac{170, \frac{539}{39}}} \gurps@char@getattrlevel \text{\frac{186}{186}}	H \hP	\SJGamesOnlinePolicyGameAid
\text{\gamma} \t	H \hP	\SJGamesOnlinePolicyGameAid
\text{\gamma} \t	H \hP	\SJGamesOnlinePolicyGameAid
\text{\gamma} \t	H \hP	\SJGamesOnlinePolicyGameAid \(\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\text{\gamma} \t	H \hP	\SJGamesOnlinePolicyGameAid
\text{\gamma} \t	H \hP	\SJGamesOnlinePolicyGameAid \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\text{\gamma} \t	H \hP	\SJGamesOnlinePolicyGameAid \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\text{\gamma} \t	H \hP	\SJGamesOnlinePolicyGameAid \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\text{\gamma} \t	H \hP	\SJGamesOnlinePolicyGameAid \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\text{\gamma} \t	H \href \ 20, 34, 47, 55 \hr \ 220 dpoints I \lfBooleanTF \ 18, 32, 63, 344 \lfInteger \ 27, 437 \iftoggle \ 164, 168, 172, 176, 180 \lfValueT \ 29 \lfValueTF \ 156, \lfx \ 89, 338 \lfx \ 89, 338 \lfx \ 89, 338 \lfy \ 212 L \Large \ 483 \large \ 496 \levelleddisadvantage \ 496 \levelleddisadvantage \ 411 \levelleddisadvantage \ 420 \linebreak \ 181 \luadirect \ 15, 16,	\SJGamesOnlinePolicyGameAid \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
\text{\cong} \text	H \hP	\SJGamesOnlinePolicyGameAid \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
\text{\cong} \text	H \href \ 20, 34, 47, 55 \hr 20, 34, 47, 55 \hr 220 dpoints \text{IfBooleanTF} \ 18, 32, 63, 344 \filnteger \ 27, 437 \iftoggle \ 164, 168, 172, 176, 180 \ifvalueT \ 29 \ifvalueTF \ 156, \ 184, 268, 430, 513, 518 \ifx \ 89, 338 \ifx \ 89, 338 \ify \ 212 \text{Large} \ 483 \large \ 496 \levelleddisadvantage \ 496 \levelleddisadvantage \ 496 \levelleddisadvantage \ 420 \linebreak \ 181 \luadirect \ 15, 16, \ 25, 60, 67, 108, 153, \ 187, 364, 432, 438, \ 449, 525, 530, 535, 546	\SJGamesOnlinePolicyGameAid \(\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\text{\cong} \frac{538}{\text{\gurps@char@attacks}} \text{\frac{182}{524}} \text{\gurps@char@basicattributes} \text{\cong} \frac{542}{\text{\gurps@char@checkandfixattrsand}} \text{\cong} \text{\cong} \text{\cong} \text{\cong} \text{\gurps@char@checkandfixtoggles} \text{\cong} \text{\cong} \text{\subseteq} \text{\cong} \con	H \href \ 20, 34, 47, 55 \hr \ 20, 34, 47, 55 \hr \ 220 dpoints I \lfBooleanTF \ 18, 32, 63, 344 \lfInteger \ 27, 437 \iftoggle \ 164, 168, 172, 176, 180 \lfValueT \ 29 \lfValueTF \ 156, \ 184, 268, 430, 513, 518 \ifx \ 89, 338 \lfx \ 89, 338 \lfy \ 212 L \Large \ 483 \large \ 496 \levelleddisadvantage \ 496 \levelleddisadvantage \ 496 \levelleddisadvantage \ 411 \levelleddisadvantage \ 420 \linebreak \ 181 \luadirect \ 15, 16, \ 25, 60, 67, 108, 153, \ 187, 364, 432, 438, \ 449, 525, 530, 535, 546 \luastring \ 67, 76,	\SJGamesOnlinePolicyGameAid \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
\text{\cong} \frac{538}{\text{\gurps@char@attacks}} \text{\frac{182}{524}} \text{\gurps@char@atsicattributes} \text{\cong} \frac{542}{\text{\gurps@char@checkandfixattrsand}} \text{\cong} \text{\cong} \text{\cong} \text{\gurps@char@checkandfixtoggles} \text{\cong} \text{\cong} \text{\gurps@char@checkandfixtoggles} \text{\cong} \text{\cong} \text{\gurps@char@disadvantages} \text{\cong} \text{\cong} \text{\gurps@char@disadvantages} \text{\cong} \text{\gurps@char@getattrlevel} \text{\gurps@char@insertattack} \text{\cong} \text{\gurps@char@insertattack@damage} \text{\cong} \text{\gurps@char@insertattack@level} \text{\gurps@char@insertattack@name} \text{\gurps@char@insertattack@name} \text{\gurps@char@insertattack@name} \text{\gurps@char@insertattack@range} \text{\gurps@char@insertattack@range} \text{\gurps@char@insertattack@range} \text{\gurps@char@insertattack@range} \text{\gurps@char@insertattack@reach} \text{\gurps@char@insertattack@reach} \text{\gurps@char@insertattack@reach} \text{\gurps@char@insertattack@type} \gurps@char@in	H \href \ 20, 34, 47, 55 \hr \ 220 dpoints I \IfBooleanTF \ 18, 32, 63, 344 \IfInteger \ 27, 437 \iftoggle \ 164, 168, 172, 176, 180 \IfValueT \ 29 \IfValueTF \ 156, \ 184, 268, 430, 513, 518 \ifx \ 89, 338 \ifx \ 89, 338 \ifx \ 430, 513, 518 \ifx \ 89, 338 \ifx \ 89, 338 \ifx \ 10 \ 212 L \Large \ 483 \large \ 496 \levelleddisadvantage \ 496 \levelleddisadvantage \ 411 \levelleddisadvantage \ 420 \linebreak \ 181 \luadirect \ 15, 16, \ 25, 60, 67, 108, 153, \ 187, 364, 432, 438, \ 449, 525, 530, 535, 546 \luastring \ 67, 76, \ 80, 84, 86, 109, 188,	\SJGamesOnlinePolicyGameAid \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
\text{\cong} \frac{538}{\text{\gurps@char@attacks}} \text{\frac{182}{524}} \text{\gurps@char@basicattributes} \text{\cong} \frac{542}{\text{\gurps@char@checkandfixattrsand}} \text{\cong} \text{\cong} \text{\cong} \text{\cong} \text{\gurps@char@checkandfixtoggles} \text{\cong} \text{\cong} \text{\subseteq} \text{\cong} \con	H \hP	\SJGamesOnlinePolicyGameAid \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
\text{\cong} \frac{538}{\text{\cong}} \gurps@char@attacks \qurps@char@attacks \frac{524}{\text{\cong}} \gurps@char@basicattributes \frac{545}{\text{\cong}} \gurps@char@checkandfixattrsand \frac{545}{\text{\cong}} \gurps@char@checkandfixtoggles \frac{152}{\text{\cong}}, \frac{152}{\text{\cong}}, \frac{539}{\text{\cong}} \gurps@char@disadvantages \frac{186}{\text{\cong}} \gurps@char@getattrlevel \frac{186}{\text{\cong}} \gurps@char@insertattack@damage \q	H \href \ 20, 34, 47, 55 \hr \ 220 dpoints I \IfBooleanTF \ 18, 32, 63, 344 \IfInteger \ 27, 437 \iftoggle \ 164, 168, 172, 176, 180 \IfValueT \ 29 \IfValueTF \ 156, \ 184, 268, 430, 513, 518 \ifx \ 89, 338 \ifx \ 89, 338 \ifx \ 430, 513, 518 \ifx \ 89, 338 \ifx \ 89, 338 \ifx \ 10 \ 212 L \Large \ 483 \large \ 496 \levelleddisadvantage \ 496 \levelleddisadvantage \ 411 \levelleddisadvantage \ 420 \linebreak \ 181 \luadirect \ 15, 16, \ 25, 60, 67, 108, 153, \ 187, 364, 432, 438, \ 449, 525, 530, 535, 546 \luastring \ 67, 76, \ 80, 84, 86, 109, 188,	\SJGamesOnlinePolicyGameAid \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
\text{\cong} \frac{538}{\text{\cong}} \gurps@char@attacks \qurps@char@attacks \frac{524}{\text{\cong}} \gurps@char@basicattributes \frac{545}{\text{\cong}} \gurps@char@checkandfixattrsand \frac{545}{\text{\cong}} \gurps@char@checkandfixtotggles \frac{152}{\text{\cong}}, \frac{152}{\text{\cong}}, \frac{539}{\text{\cong}} \q	H \hP	\SJGamesOnlinePolicyGameAid \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\