neural-sketch-loader.sty

Loader logic for optional neural-sketch modules

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This dtx file extracts to "neural-sketch-loader.sty". It defines a user command to load the optional modules (bridge, coords, etc.). We rely on the naming scheme "neural-sketch-¡module¿.sty" in the same folder or on the TEX search path.

    implementation ¡¡¡ ¡*package¿

```
1 \ExplSyntaxOn
2
3 % ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
4 % G-Modules
5 % 1) A clist of recognized modules:
6 % ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ <<<
7 \clist_new:N \g__nsk_known_modules_clist
8 % optionals ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ <<<
9 \clist_set:Nn \g__nsk_known_modules_clist
10 {
11 bridges,
12 coords,
13 groups,
14 containers,
15 annotations,
16 decorations,
17 render,
18   measure,
19 }
20
21 % helpers ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ <<<
22 % - to load the given module if present
23 \cs_new_protected_nopar:Npn \__nsk_load_module_if_exists:nn #1#2
24 {
25 % #1 = short name (e.g. "bridge"), #2 = actual .sty (e.g. "neural-sketch-bridge.sty")
26 % Only load if not already loaded:
27 \IfFileExists{#2.sty}
28 {
29  \RequirePackage{#2}
30 }
31 {
32  % halts exec ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ <<<
33  \msg_new:nnn {neural-sketch}{moduleNotFound}{
34   The~requested~module~'#1'~could~not~be~found~while~loading~via~\nskUseModule.
35  }
```

```
36    \msg_fatal:nn {neural-sketch}{moduleNotFound}
37  }
38 }
39
40 % known modules ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ <<<
41 \cs_new_protected_nopar:Npn \__nsk_load_all_modules:
42 {
43  \clist_map_inline:Nn \g__nsk_known_modules_clist
44  {
45   \tl_set:Nx \l_tmpa_tl { neural-sketch-##1 }
46   \__nsk_load_module_if_exists:nn {##1} { \tl_use:N \l_tmpa_tl }
47  }
48 }
49
50 % ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
51 % Public Interface
52 % - (user-facing)
53 % ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ <<<
54 \NewDocumentCommand \nskUseModule { m }
55 {
56  \__nsk_usemodule_main:n { #1 }
57 }
58
59 \cs_new_protected_nopar:Npn \__nsk_usemodule_main:n #1
60 {
61  % Check if user wrote "*" => load all modules:
62  \tl_if_eq:nnTF {#1}{*}
63  {
64   \__nsk_load_all_modules:
65  }
66  {
67   % Otherwise parse comma list of module names
68   \clist_set:Nn \l_tmpa_clist {#1}
69   \clist_map_inline:Nn \l_tmpa_clist
70   {
71    \tl_set:Nx \l_tmpb_tl { neural-sketch-##1 }
72    \__nsk_load_module_if_exists:nn {##1} { \l_tmpb_tl }
73   }
74  }
75 }
76
77 \ExplSyntaxOff
```

¡/package¿

3