

neural-sketch-render.sty

Conditional multi-type code render for neural-sketch

Vincenzo Buono

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1 Introduction

This file provides conditional code rendering in a switch-like interface
implementation

!!! i*package;

```
1 \ExplSyntaxOn
2
3
4 % ~~~~~
5 % Internal variables -
6 % ~~~~~ <<<
7 \tl_clear_new:N \l__nsk_switch_type_tl
8 \tl_clear_new:N \l__nsk_switch_operand_tl
9 \bool_new:N \l__nsk_switch_matched_bool
10
11 % ~~~~~
12 % Main nsk / render Primitive
13 % ~~~~~ <<<
14 \keys_define:nn { nsk / render }
15 {
16   type .choice:,
17   type / string .code:n = { \tl_set:Nn \l__nsk_switch_type_tl { string } },
18   type / int .code:n = { \tl_set:Nn \l__nsk_switch_type_tl { int } },
19   type / float .code:n = { \tl_set:Nn \l__nsk_switch_type_tl { float } },
20   type / bool .code:n = { \tl_set:Nn \l__nsk_switch_type_tl { bool } },
21   type .initial:n = { string },
22 }
23
24
25 % ~~~~~
26 % Public Interface
27 % - (user-facing)
28 % ~~~~~ <<<
29 \NewDocumentEnvironment{nskSwitch}{0}{m}{}
30 {
31   \group_begin:
32   \keys_set:nn { nsk / render } {#1}
33   \tl_set:Nx \l__nsk_switch_operand_tl {#2}
```

```

34 \bool_set_false:N \l__nsk_switch_matched_bool
35 }
36 { \group_end: }
37
38 % ~~~~~ <<<
39 % If no previous case has matched, compares the switch operand with the
40 % provided case value (according to the chosen type) and, if they match,
41 % sets the flag and executes the code in a group.
42 \NewDocumentCommand{\nskCase}{ d[] +m }
43 {
44   \bool_if:NTF \l__nsk_switch_matched_bool
45   { } % already matched: do nothing
46   {
47     \tl_show:N \l__nsk_switch_operand_tl
48     \str_if_eq:VnTF \l__nsk_switch_type_tl { string }
49     {
50       \str_if_eq:VnTF \l__nsk_switch_operand_tl {#1}
51       { \bool_set_true:N \l__nsk_switch_matched_bool \group_begin: #2 \group_end: }
52       { }
53     }
54     {
55       \str_if_eq:VnTF \l__nsk_switch_type_tl { int }
56       { \int_compare:nTF
57         { \int_eval:n { \l__nsk_switch_operand_tl } = \int_eval:n {#1} }
58         { \bool_set_true:N \l__nsk_switch_matched_bool \group_begin: #2 \group_end: }
59         { } }
60       {
61         \str_if_eq:VnTF \l__nsk_switch_type_tl { float }
62         { \fp_compare:nTF
63           { \fp_eval:n { \l__nsk_switch_operand_tl } == \fp_eval:n {#1} }
64           { \bool_set_true:N \l__nsk_switch_matched_bool \group_begin: #2 \group_end: }
65           { } }
66         {
67           \str_if_eq:VnTF \l__nsk_switch_type_tl { bool }
68           { \str_if_eq:nnTF { \l__nsk_switch_operand_tl } {#1}
69             { \bool_set_true:N \l__nsk_switch_matched_bool \group_begin: #2 \group_end: }
70             { } }
71           { % fallback: treat as string
72             \str_if_eq:nnTF { \l__nsk_switch_operand_tl } {#1}
73             {
74               \bool_set_true:N \l__nsk_switch_matched_bool \group_begin: #2 \group_end:
75             }
76             { } } } }
77   }
78 }
79 }
80
81 % ~~~~~ <<<
82 % If no case has matched, execute the default code.
83 \NewDocumentCommand{\nskDefault}{ +m }
84 {
85   \bool_if:NF \l__nsk_switch_matched_bool
86   {
87     \group_begin: #1 \group_end:

```

```
88 }  
89 }  
90  
91 \ExplSyntaxOff  
92  
;/package;
```