



SEDNOVE

Sncode/Extenso

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Course #12

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- Loop
- Widget configuration
- Widget styling

Sncode : Loop do ... until expr;

do

...

until found;

Exercice:

Do the last loop using do ... until found;

Sncode : Loop do ... until expr;

```
a = [ 2, 5, 7, 10];  
found = false;  
n=0;  
do  
    if a[n] == 7 then  
        found = true;  
    else  
        n++;  
    endif  
until found;  
if found then "Found at position "; n; endif
```

Exercise

- Write a program to output

1 2 3 4 5

6 7 8 9 10

...

996 997 998 999 1000

Hint! : Use modulo operator if $i \% 5 == 0$ then "`
`"; endif

Answer

```
{ {  
for (i=1; i<=1000; ++i) do  
    i; " "  
    if i % 5 == 0 then "\n"; endif  
endfor  
} }
```

Extenso widget configuration

- Create a table for widget configuration
- Table can have only one row or multiple rows
- Table must have the following field to identify the widget:
 - uid_widget type int display text
- In the widget configuration, select the new table:

Table with the content of the widget

Please select an option

- In the widget configuration, select if this table is 1 or more rows:

Widget with only one element ? [?](#)

Extenso widget configuration

- Re-publish the page where you widget is used.
- In the edit menu of the widget, you will now have a link to edit the data in your new table
- How do you access this data from your widget ?

Sncode : files functions : generate

- Generate take a template name, execute it and save the result in a file
- Generate is calling a new version of the parser to execute the file.
- Example:

```
generate(template:"/site/template/my_first_template.sn",  
         file:"/staging/from_template.sn");
```

```
<h1>My first template</h1>
```

```
<p>Time is now {{ datetime() }}</p>
```

```
return
```

```
<h1>My first template</h1>
```

```
<p>Time is now 2020-07-10 08:53:17</p>
```

Extenso : generate a file

- When we generate a file in Extenso, the function generate is used.
- This is how the widget is put in the page
- Why the trouble ?
- This is one of the key feature for the performance of pages in Extenso
- Render what can be static in the page
- Keep what needs to be dynamic in the page

Extenso : Widget configuration

- Data for the widget configuration is available from the variable widget
- This variable is defined in the generation of the page
- When we generate the widget we don't have access to this variable because generate instantiate a new version of the compiler.
- To get access to this variable we use a specific Sncode syntax :
- USE

Sncode : use

- Syntax : use `variable_name`;
- In the case of widget configuration: use `widget`;
- Make a copy of the initial variable
- Any modification on the variable will no affect the initial variable

Widget template code

- `/extenso/module/sed/module_manager/template-widget-starter-code.sn`:

```
use widget; // get information about this widget
use lg;     // get current publication language
use ct;     // current pencil definition
if widget.table_name ne '' then
    wconfig = sql(single:true,
        "SELECT * FROM ? WHERE uid_widget = '?'", widget.table_name,
        widget.uid_instance);
endif
```

Exercice : create a widget with config

- Add configuration table with firstname and lastname
- Create a widget to use your configuration table to display firstname and lastname

Widget styling

- right panel for the widget specific style:

