Sncode: %include ...

- This compiler directive is used to include a file at compile time.
- Example:

```
%include "/extenso/module/sed/core/package/sed_core_util.sn";
```

- After that you can use all the fonctions and packages in this file.
- This is a compiler directive.
- It's not dynamic. What does it means?

Sncode: %include

Consider this:

Sncode: %include

- In the first version:
 - Widget is compile, the include is run and the function is called
 - The resulting file contain the result of the function call
 - In the final file, we don't have any include or any function call
- In the second version
 - Widget is compile
 - Resulting file contain the include
 - the function is call dynamic. If sed_login_user change we see the change
 - If the include change we have to republish the widget

Sncode: include()

- This function is use to include
 - text file
 - sncode file
 - binary sncode file
- Function in the include are not install unless you use:

```
include(load_functions:true, "/site/cours/widget/include2.sn");
```

Sncode: GD

 gd is a graphics library. It allows your code to quickly draw images complete with lines, arcs, text, multiple colors, cut and paste from other images, and flood fills, and write out the result as a PNG or JPEG file. This is particularly useful in World Wide Web applications, where PNG and JPEG are two of the formats accepted for inline images by most browsers.

Sncode: gd

• Example:

```
im=gd_new(width:1000, height:1000, bgcolor:White, truecolor:true);
....
gd_free(im);

gd_write is used to generate image:
img = gd_write(gd:im, base64: true, format:"jpg", quality:100);

<img src="{{ img }}">
```

Sncode: class

- A Class is like an object constructor, or a "blueprint" for creating objects.
- Example of a class definition:

```
class Complex
    method Complex(real, imag)
    this.real = real;
    this.imag = imag;
    endm
```

Method add

Method sub

```
method sub(c)
  if (classtype(c) eq "Complex") then
       x = new Complex(this.real - c.real, this.imag - c.imag);
  else
       x = new Complex(this.real - c, this.imag );
  endif
endm
```

Method mul

Method print

```
method print()
     this.real; "+"; this.imag; "i";
endm
endc
```

Class usage

```
c = new Complex(1,2);
    y = c.add(c); y.print(); " ";
    y = c.add(5); y.print(); " ";
    y = c.mul(c); y.print(); " ";
    y = c.mul(5); y.print(); " ";
    c.print();

return
2+4i 6+2i -3+4i 5+10i 1+2i
```

• In <u>computer programming</u>, **?:** is a <u>ternary operator</u> that is part of the syntax for basic <u>conditional expressions</u> in several <u>programming languages</u>. It is commonly referred to as the **conditional operator**, **inline if (iif)**, or **ternary if**. An expression a ? b : c evaluates to b if the value of a is true, and otherwise to c. One can read it aloud as "if a then b otherwise c".

- (expression1) ? expression2 : expression3;
- Same as:
 - if expression1 then
 - expression2;
 - else
 - expression3;
 - endif
 - a = (x == 5) ? x + 2 : x 2;

• Try:

```
a = "Courtesy";
                                                 b = true;
                                                 "b true: ";
                                                 (b) ? b : a; "\n";
(b) ? b : a; "\n";
                                                 b = false;
                                                 "b false: ";
                                                 (b) ? b : a; "\n";
b = undefined;
"b undefined: ";
                                                 b = 1;
(b) ? b : a; "\n";
                                                 "b 1: ";
                                                 (b) ? b : a; "\n";
b = null;
"b null: ";
                                                 b = 0;
                                                 "b 0: ";
(b) ? b : a; "\n";
                                                 (b) ? b : a; "\n";
```

Courtesy

• b undefined: Courtesy

• b null: Courtesy

• b true: true

• b false: Courtesy

• b 1: 1

• b 0: Courtesy

Sncode: break

break is use to exist the a loop:

```
for i in [1,2,3] do
        if i == 2 then
            break;
        endif
        i;
endfor
This loop will display 1;
```

Sncode: break: exercise

Sncode: continue

• continue skip to the next iteration of the inner loop

Sncode: continue (exercice)

Sncode: use

- In a generate, import a variable from the upper call
- x=5;
- generate(template:"/template.sn", file:"/staging/file.sn");
 - In the generate, use x; will get the variable x.
 - If you modified x, it will not modified the top variable

Sncode: cast

- Use to transform a variable:
- a = (int) 2.5; "\n"; // return 2
- a = (float) 2; "\n"; // return 2 as a float
- a = (string) 2.5; "\n"; // return 2.5 as a string
- a = (bool) 1; "\n"; // return true
- a = (bool) 0; "\n"; // return false
- a = 1/2; "\n"; // return 0
- a = 1/(float) 2; // return 0.5

Documentation....

- In git click README.md (https://daringfireball.net/projects/markdown/syntax)
- package p_extract.sn /extenso/module/sed/module_manager/package/p_extract.sn
- //!code. /*!code */
- function
- package
- version //!version 2022-02-14 laplante@sednove.com an
- //!anything here is the comment
- //!business-rule describe business rule in the code

PRELOAD / Extranet / Rewrite

- In the conf file:
 - Preload:
 - "/usr/local/website/psv1/extenso/html/secure/module/sed/login/en/preload .snc"
 - Rewrite:
 - "/usr/local/website/psv1/extenso/html/secure/module/sed/rewrite/en/rewrite.snc"
 - Error:
 - "/usr/local/website/psv1/extenso/html/module/sed/error/en/error.snc"