
Subject: Re: bug in Esc manual page?

Posted by [mirek](#) on Wed, 05 Apr 2006 08:45:26 GMT

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OK, reference/EscDev is the "introductory" Esc example. It does not cover "objects" and uses just trivial script interpretation (without extensions, as with usc)

I will yet have to find some nice simple examples to demonstrate those....

```
#include <Esc/Esc.h>
```

```
void SIC_Print(EscEscape& e)
{
    if(e[0].IsArray())
        Cout() << (String) e[0];
    else
        if(e[0].IsNumber())
            Cout() << e[0].GetNumber();
        else
            if(!e[0].IsVoid())
                e.ThrowError("invalid argument to 'Print'");
}
```

```
void SIC_Input(EscEscape& e)
{
    e = ReadStdIn();
}
```

```
void SIC_InputNumber(EscEscape& e)
{
    e = atof(ReadStdIn());
}
```

```
CONSOLE_APP_MAIN
{
    ArrayMap<String, EscValue> global;
    Escape(global, "Print(x)", SIC_Print);
    Escape(global, "Input()", SIC_Input);
    Escape(global, "InputNumber()", SIC_InputNumber);
    StdLib(global);
    try {
        Scan(global, LoadFile(GetDataFile("script.esc")));
        Execute(global, "main", INT_MAX);
    }
    catch(CParser::Error e) {
        Cout() << "ERROR: " << e << "\n";
    }
}
```

```
}
```

demonstration Esc script (script.esc):

```
getnumber()
{
    for(;;) {
        h = InputNumber();
        if(h > 0)
            return h;
        Print("Please enter a positive number!\n");
    }
}

main() {
    Print("What is your name?\n");
    name = Input();
    Print("Hi " + name + "!\n");
    Print("How tall are you? (in cm please!)\n");
    h = getnumber();
    Print("What is your weight? (in kg please!)\n");
    w = getnumber();
    bmi = w / (h * h / 10000);
    Print("Your body mass index is " + to_string(bmi) + "\n");
    Print(name + ", ");
    if(bmi >= 35)
        Print("you are morbidly fat!!!");
    else
        if(bmi >= 30)
            Print("you are fat!!!");
        else
            if(bmi >= 25)
                Print("you are overweight!");
            else
                if(bmi >= 18.5)
                    Print("your weight is OK.");
                else
                    Print("your are too slim!");
    Print("\nThanks for a nice chat!\n");
}
```

Mirek
