Subject: MakeOne Posted by mirek on Tue, 21 Feb 2017 10:39:32 GMT View Forum Message <> Reply to Message

Little useful helper class...

```
void DumpFile(One<Stream>& s)
{
LOG("======");
int ii = 0;
while(!s->IsEof())
LOG(++ii << ": " << s->GetLine());
}
CONSOLE_APP_MAIN
String fn = GetDataFile("One.cpp");
{
 One<Stream> s;
 s.Create<FileIn>(fn);
 DumpFile(s);
}
{
 MakeOne<FileIn> in(fn);
 One<Stream> s = pick(in);
 DumpFile(s);
}
 One<Stream> s = MakeOne<FileIn>(fn);
 DumpFile(s);
}
}
```

Subject: Re: MakeOne Posted by Klugier on Tue, 21 Feb 2017 11:14:25 GMT View Forum Message <> Reply to Message

Hello,

I have got one question. Will it work with auto?

auto stream = MakeOne<FileIn>(fn); // Is auot MakeOne or One?

Why not make MakeOne function rather than class?

Sincerely, Klugier

Subject: Re: MakeOne Posted by mirek on Tue, 21 Feb 2017 15:05:30 GMT View Forum Message <> Reply to Message

Klugier wrote on Tue, 21 February 2017 12:14Hello,

```
I have got one question. Will it work with auto?
```

auto stream = MakeOne<FileIn>(fn); // Is auot MakeOne or One?

Sure. It will be MakeOne, but that hardly matters.

```
{
  auto in = MakeOne<FileIn>(GetDataFile("Console.cpp"));
  One<Stream> s = pick(in);
  while(!s->IsEof())
  DDUMP(s->GetLine());
}
```

Quote: Why not make MakeOne function rather than class?

Class seems to be more versatile here - you can use it just like function, but you can declare the variable too.

```
E.g. you can do this:
```

```
One<Stream> OpenFile()
{
    MakeOne<FileIn> in;
    in->Open("asd");
    return in;
}
```

With "function only" you would have to type a bit more ...

Mirek

Subject: Re: MakeOne Posted by Didier on Wed, 22 Feb 2017 18:24:39 GMT View Forum Message <> Reply to Message

It may be obvious, but I don't see the point to the 'MakeOne' helper ==> you only gain one line of writing. I suppose there is more to it ??

Subject: Re: MakeOne Posted by mirek on Wed, 22 Feb 2017 19:43:19 GMT View Forum Message <> Reply to Message

Didier wrote on Wed, 22 February 2017 19:24It may be obvious, but I don't see the point to the 'MakeOne' helper ==> you only gain one line of writing. I suppose there is more to it ??

Yes, you are right. Still, it was requested by users. And personally I longed for it in certain situations too (perhaps being lazy to write that one line... :)

Mirek

Subject: Re: MakeOne Posted by Klugier on Sat, 30 Jun 2018 12:45:41 GMT View Forum Message <> Reply to Message

Hello,

I have a problem with current MakeOne implementation. It doesn't work greate with auto:

```
One<Foo> CreateFoo() {
auto pFoo = MakeOne<Foo>();
int i = 0;
if (i == 0) {
return nullptr;
}
```

return pFoo; // Compilation error - /home/klugier/MyApps/MakeOneTest/MakeOneTest.cpp (19): error: use of deleted function 'Upp::One<T>::One(const Upp::One<T>&) [with T = Foo]' }

The below example works as expected:

```
One<Foo> CreateFoo() {
One<Foo> pFoo = MakeOne<Foo>();
int i = 0;
if (i == 0) {
return nullptr;
}
return pFoo;
}
```

I am not sure it is the good design to limit it to only explicit types. std::make_shared and std::make_unique works in above case.

Sincerely, Klugier

Subject: Re: MakeOne Posted by mirek on Sat, 30 Jun 2018 18:30:45 GMT View Forum Message <> Reply to Message

Hopefully fixed.

Subject: Re: MakeOne Posted by Klugier on Sat, 30 Jun 2018 19:55:28 GMT View Forum Message <> Reply to Message

Hello,

You are absolutely amazing - thanks for immediate fix :)

Sincerely, Klugier