
Subject: Access to parent class

Posted by [koldo](#) on Wed, 11 Dec 2019 09:31:27 GMT

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Sometimes it is necessary for a child to get access to some data from a parent class. Specially in a multiple TopWindow project, parent pointer cannot be saved in a static location, as there are some instances of it.

A solution could be to give as argument a pointer to the parent, and spread it through all children until the one that needs it.

However I wonder if this could be a finer solution:

```
template <class T>
T *GetDefinedParent(Ctrl *ths) {
    T *main;
    while (ths->GetParent() != nullptr) {
        ths = ths->GetParent();
        if ((main = dynamic_cast<T*>(ths)) != nullptr)
            return main;
    }
    return nullptr;
}
```

And used like this from a children:

```
MyParentClass *parent = GetDefinedParent<MyParentClass>(this);
ASSERT(class);
```

```
int neededParameter = ~parent->importantParameter;
```

What do you think?
