CAP

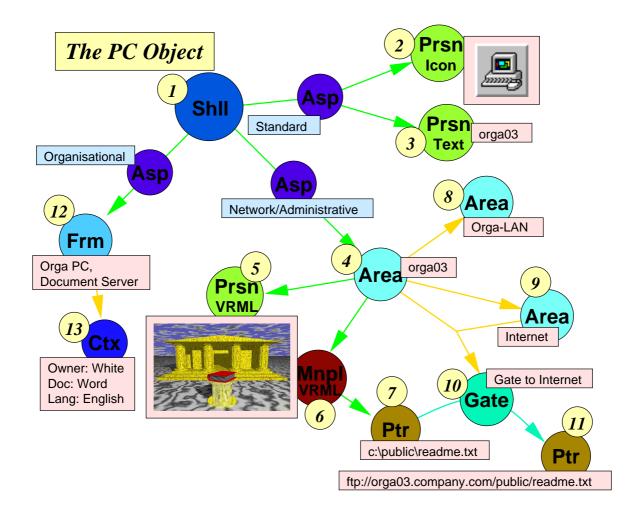
The CyberSpace Architecture Project

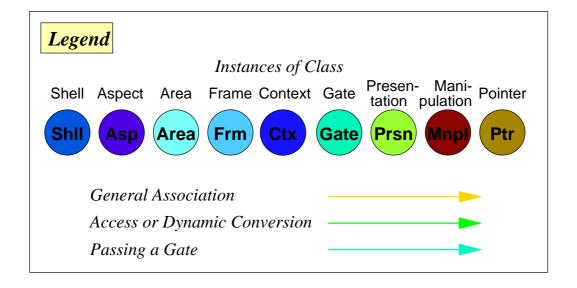
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EXAMPLE

A SIMPLE CASE STUDY

Example: Working with a COA Object





Commentary and C++Code Examples

At the beginning, you get an object representing a personal computer. Since you work with CAP, your first access to that object is through the Shell interface.

```
Shll * PC = GetPC(); // get PC Shll from somewhere
```

Your favourite CyberSpace Visualizer requests a representation from the Shell. To do that, it uses *Dynamic Conversion*. As the target the class Presentation/Icon was specified. You haven't stated any special Aspect yet, so the standard one is used. As a result, an icon is returned.

Additionally, the visualizer requests an object of class Presentation/Text to put a text under the icon.

Now you want to have a look into the PC. You wonder, whether there are any network services available. Hence you request an Area corresponding to the PC by using again Dynamic Conversion. As an Aspect you specify "Network/Administrative". You get an Area object.

Again, the CyberSpace Visualizer requests a presentation from the Area. There is some VRML (Virtual Reality Markup Language) information available. The visualizer shows a 3D scene.

The scene is interactive, so a Manipulator object is also created. In the graphic you see a nice greek building (surely there are documents stored inside: a file server). In front of it, there is a small pillar with a book on it's top. It looks like that you should read this book. So you select it by clicking on it with your mouse.

The Manipulator object translates the mouse selection to a Pointer object representing that selection. It points to a file on the PC, named "readme.txt".

Since you do not want to read the file now, you consider sending the Pointer to your PC at home. To perform this, you examine the environment of the PC whether there is an exit. First, you find that the PC's Area is contained in another Area called "Orga-LAN".

Then you discover that there is another super Area, the Internet. It seems more appropriate for your purpose.

To pass the Pointer to the Internet, you request a Gate between the PC's Area and the Internet Area. You succeed and get a Gate object.

Passing the Pointer through the Gate automatically converts the Pointer to a format usable outside the PC in the Internet. Now you can send it to your PC at home.

Before you release the object, you want to know for what purposes the PC is used in the company. Since you are interested in contextual informations, you request a Frame from the Shell and specify an "organisational" Aspect. You get a Frame called "Orga PC, Document Server".

Associated with each Frame is a Context (That's the reason why you requested a Frame). The context states that there's a person named "White" who is responsible for the PC. You also get informed that documents stored on the PC are in "Word" format and that the language to be used is "English".