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| Circle Language Spec: Commands |

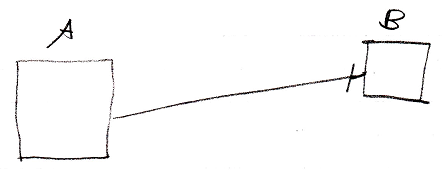
## Command Redirection

### Inactive Command Object Redirection

An inactive command object redirection makes an inactive command symbol a command reference.

An inactive command reference can point to another inactive command as well as to an active command object.

The picture below displays an inactive command, that redirects its definition to another inactive command.



Inactive command symbol A is a square because it is an *inactive* command. Inactive command symbol A redirects to the inactive command symbol B. Symbol B is also a square because it is also an *inactive* command. The redirection from command A to command B is displayed as a solid line, which is an object line. The direction of the line is indicated by a line dissector, close to symbol B.

Symbol B could also be replaced by a diamond, because inactive pointers to active commands are allowed.



### Inactive Command Class Redirection

Inactive command class redirection is less common than inactive command object redirection. Inactive command *object* redirection is a reference to a command definition. Inactive command *class* redirection creates a new command definition for which another command is the prototype.

Inactive command *class* redirection makes a command definition take over all aspects of another command definition, but creates a *new* command definition object, for which the other command definition is the prototype. The new command definition can only redefine the other definition’s *default values*. That’s all that is additionally possible, compared to inactive command *object* redirection.

Inactive command class redirection is analogus to having a class redirect its class, making one object the prototype for another prototype.

An inactive command class redirection can also point to an active command, making an *executable* command object the prototype for the new command definition. That is even less common, but possible all the same.

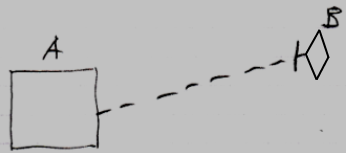
Do remember, that the new prototype can *not* be executed by pointing to it with an active command reference, because the new prototype is a new *inactive* command object, and an inactive command object can not be executed.

#### In a Diagram



Inactive command symbol A is a square because it is an *inactive* command. Inactive command symbol A redirects its class to the inactive command symbol B. Symbol B is also a square because it is also an *inactive* command. The redirection from command A to command B is displayed as a dashed line, which is a class line. The direction of the line is indicated by a line dissector, close to symbol B.

Symbol B could also be replaced by a diamond, making an *executable* command the prototype for a new command object. That is less common, but possible all the same.



### Executable Command Class Redirection in a Diagram

#### Concept

If an executable command redirects its class, then it is a command call. The class redirection points to the command definition of the command call.

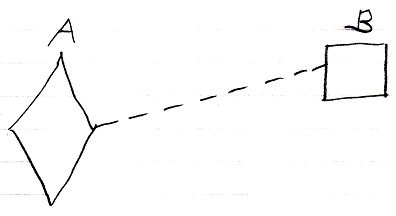
If an executable command *does not have* a class redirection, then it defines its own contents. An object redirection automatically also redirects the class aspect of a symbol. So then it also does not define its own contents. If an executable command, that does not redirect its class or object resides inside another command, then it is called an *active clause*. If the executable command without redirections resides inside an object, then it is simply an executable command with no definition, that can be manually run by a user.

You could let an executable command redirect its definition to another executable command, but this is far less common. But an active command *can* function as the prototype for another executable command.

#### In a Diagram

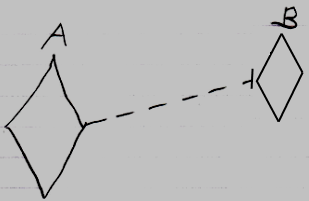
Executable command class redirection is explained in the article *Executable Command Class Redirection*. The current article demonstrates the concept in a diagram.

The picture below displays a command call, redirecting its definition to an inactive command.



Active command symbol A is a diamond shape, because it is an *active* command. Active command symbol A redirects its definition to the inactive command symbol B. Symbol B is a square because it is an *inactive* command. The redirection from command A to command B is displayed as a dashed line, which is a class line. This makes symbol A a command call, for which command B functions as a definition.

You could let an executable command redirect its definition to another executable command, but this is far less common:



### Executable Command Object Redirection

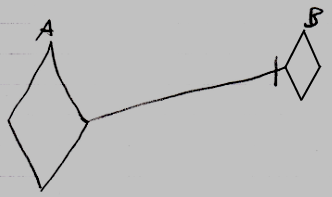
An executable command, that redirects to another executable command, is a reference to a command that could run, or could be running. Say you run the command on a site and you want to navigate away from the site, but keep a reference to it in your user object, that points to a process running on a site somewhere, and take along the reference anywhere you go on the internet.

Executable command object redirection is less common than inactive command object redirection.

You can also object redirect an executable command to an inactive command. If the final target of the object redirections is an inactive command, then you can not run that unexecutable command object through an active reference to it. It is kind of pointless to point to an inactive command object through an executable command reference, so it is very uncommon.

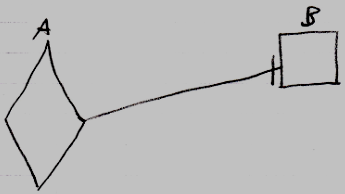
#### In a Diagram

The concept of execution object redirection is explained in the article *Execution Object Redirection*. The current article explains its expression in a diagram.



Active command symbol A is a diamond shape, because it is an *active* command. Active command symbol A redirects its object to the active command symbol B. The redirection from command A to command B is displayed as a solid line, which is an object line. This makes symbol A a reference to an execution running elsewhere.

You can also have an active reference to an inactive command:



But this situation is very uncommon. You can not run command B through symbol A, because an inactive command object can never be run.