

object/1-5

Description

Stand-alone objects

```
object(Object)

object(Object,
  implements(Protocols))

object(Object,
  imports(Categories))

object(Object,
  implements(Protocols),
  imports(Categories))
```

Prototypes

```
object(Object,
  extends(Objects))

object(Object,
  implements(Protocols),
  extends(Objects))

object(Object,
  imports(Categories),
  extends(Objects))

object(Object,
  implements(Protocols),
  imports(Categories),
  extends(Objects))
```

Instances

```
object(Object,  
    instantiates(Classes))  
  
object(Object,  
    implements(Protocols),  
    instantiates(Classes))  
  
object(Object,  
    imports(Categories),  
    instantiates(Classes))  
  
object(Object,  
    implements(Protocols),  
    imports(Categories),  
    instantiates(Classes))
```

Classes

```
object(Object,  
    specializes(Classes))  
  
object(Object,  
    implements(Protocols),  
    specializes(Classes))  
  
object(Object,  
    imports(Categories),  
    specializes(Classes))  
  
object(Object,  
    implements(Protocols),  
    imports(Categories),  
    specializes(Classes))
```

Metaclasses

```
object(Object,
    instantiates(Classes),
    specializes(Classes))

object(Object,
    implements(Protocols),
    instantiates(Classes),
    specializes(Classes))

object(Object,
    imports(Categories),
    instantiates(Classes),
    specializes(Classes))

object(Object,
    implements(Protocols),
    imports(Categories),
    instantiates(Classes),
    specializes(Classes))
```

Starting object directive.

Template and modes*Stand-alone objects*

```
object(+object_identifier)

object(+object_identifier,
    implements(+implemented_protocols))

object(+object_identifier,
    imports(+imported_categories))

object(+object_identifier,
    implements(+implemented_protocols),
    imports(+imported_categories))
```

Prototypes

```
object(+object_identifier,  
      extends(+extended_objects))  
  
object(+object_identifier,  
      implements(+implemented_protocols),  
      extends(+extended_objects))  
  
object(+object_identifier,  
      imports(+imported_categories),  
      extends(+extended_objects))  
  
object(+object_identifier,  
      implements(+implemented_protocols),  
      imports(+imported_categories),  
      extends(+extended_objects))
```

Instances

```
object(+object_identifier,  
      instantiates(+instantiated_objects))  
  
object(+object_identifier,  
      implements(+implemented_protocols),  
      instantiates(+instantiated_objects))  
  
object(+object_identifier,  
      imports(+imported_categories),  
      instantiates(+instantiated_objects))  
  
object(+object_identifier,  
      implements(+implemented_protocols),  
      imports(+imported_categories),  
      instantiates(+instantiated_objects))
```

Classes

```
object(+object_identifier,  
      specializes(+specialized_objects))  
  
object(+object_identifier,  
      implements(+implemented_protocols),  
      specializes(+specialized_objects))  
  
object(+object_identifier,  
      imports(+imported_categories),  
      specializes(+specialized_objects))  
  
object(+object_identifier,  
      implements(+implemented_protocols),  
      imports(+imported_categories),  
      specializes(+specialized_objects))
```

Metaclasses

```
object(+object_identifier,  
      instantiates(+instantiated_objects),  
      specializes(+specialized_objects))  
  
object(+object_identifier,  
      implements(+implemented_protocols),  
      instantiates(+instantiated_objects),  
      specializes(+specialized_objects))  
  
object(+object_identifier,  
      imports(+imported_categories),  
      instantiates(+instantiated_objects),  
      specializes(+specialized_objects))  
  
object(+object_identifier,  
      implements(+implemented_protocols),  
      imports(+imported_categories),  
      instantiates(+instantiated_objects),  
      specializes(+specialized_objects))
```

Examples

```
:- object(list).

:- object(list,
    implements(listp)).

:- object(list,
    extends(compound)).

:- object(list,
    implements(listp),
    extends(compound)).

:- object(object,
    imports(initialization),
    instantiates(class)).

:- object(abstract_class,
    instantiates(class),
    specializes(object)).

:- object(agent,
    imports(private::attributes)).
```

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