Mouse::Meta::Attribute(3pm) User Contributed Perl Documentation Mouse::Meta::Attribute(3pm)

NAME

Mouse::Meta::Attribute - The Mouse attribute metaclass

VERSION

This document describes Mouse version 0.97

DESCRIPTION

This is a meta object protocol for Mouse attributes, which is a subset of Moose::Meta::Attribute.

METHODS

```
new(%options) -> Mouse::Meta::Attribute
```

Instantiates a new Mouse::Meta::Attribute. Does nothing else.

It adds the following options to the constructor:

```
is => 'ro', 'rw', 'bare'
```

This provides a shorthand for specifying the reader, writer, or accessor names. If the attribute is read-only ('ro') then it will have a reader method with the same attribute as the name.

If it is read-write ('rw') then it will have an accessor method with the same name. If you provide an explicit writer for a read-write attribute, then you will have a reader with the same name as the attribute, and a writer with the name you provided.

Use 'bare' when you are deliberately not installing any methods (accessor, reader, etc.) associated with this attribute; otherwise, Moose will issue a deprecation warning when this attribute is added to a metaclass.

```
isa => Type
```

This option accepts a type. The type can be a string, which should be a type name. If the type name is unknown, it is assumed to be a class name.

This option can also accept a Moose::Meta::TypeConstraint object.

If you *also* provide a does option, then your isa option must be a class name, and that class must do the role specified with does.

```
does => Role
```

This is short-hand for saying that the attribute's type must be an object which does the named role.

This option is not yet supported.

```
coerce => Bool
```

This option is only valid for objects with a type constraint (isa). If this is true, then coercions will be applied whenever this attribute is set.

You can make both this and the weak_ref option true.

```
trigger => CodeRef
```

This option accepts a subroutine reference, which will be called after the attribute is set.

```
required => Bool
```

An attribute which is required must be provided to the constructor. An attribute which is required can also have a default or builder, which will satisfy its required-ness.

A required attribute must have a default, builder or a non-undef init_arg

```
lazy => Bool
```

A lazy attribute must have a default or builder. When an attribute is lazy, the default value will not be calculated until the attribute is read.

```
weak ref => Bool
```

If this is true, the attribute's value will be stored as a weak reference.

```
auto_deref => Bool
```

If this is true, then the reader will dereference the value when it is called. The attribute must have a type constraint which defines the attribute as an array or hash reference.

```
lazy build => Bool
```

Setting this to true makes the attribute lazy and provides a number of default methods.



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associate_method(MethodName)

);

Associates a method with the attribute. Typically, this is called internally when an attribute generates its accessors.

Currently the argument *MethodName* is ignored in Mouse.

```
verify_against_type_constraint(Item) -> TRUE | ERROR
```

Checks that the given value passes this attribute's type constraint. Returns true on success, otherwise confesses.

```
clone_and_inherit_options(options) -> Mouse::Meta::Attribute
```

Creates a new attribute in the owner class, inheriting options from parent classes. Accessors and helper methods are installed. Some error checking is done.

```
get_read_method_ref
get_write_method_ref
```

Returns the subroutine reference of a method suitable for reading or writing the attribute's value in the associated class. These methods always return a subroutine reference, regardless of whether or not the attribute is read—or write-only.

SEE ALSO

Moose::Meta::Attribute Class::MOP::Attribute



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