

NAME

Type::Tiny::Class – type constraints based on the "isa" method

STATUS

This module is covered by the Type-Tiny stability policy.

DESCRIPTION

Type constraints of the general form `{ $_[0]->isa("Some::Class") }`.

This package inherits from Type::Tiny; see that for most documentation. Major differences are listed below:

Constructor**new**

When the constructor is called on an *instance* of Type::Tiny::Class, it passes the call through to the constructor of the class for the constraint. So for example:

```
my $type = Type::Tiny::Class->new(class => "Foo::Bar");
my $obj   = $type->new(hello => "World");
say ref($obj);    # prints "Foo::Bar"
```

This little bit of DWIM was borrowed from MooseX::Types::TypeDecorator, but Type::Tiny doesn't take the idea quite as far.

Attributes**class**

The class for the constraint.

constraint

Unlike Type::Tiny, you *cannot* pass a constraint coderef to the constructor. Instead rely on the default.

inlined

Unlike Type::Tiny, you *cannot* pass an inlining coderef to the constructor. Instead rely on the default.

parent

Parent is automatically calculated, and cannot be passed to the constructor.

Methods**plus_constructors(\$source, \$method_name)**

Much like plus_coercions but adds coercions that go via a constructor. (In fact, this is implemented as a wrapper for plus_coercions.)

Example:

```
package MyApp::Minion;

use Moose; extends "MyApp::Person";

use Types::Standard qw( HashRef Str );
use Type::Utils qw( class_type );

my $Person = class_type({ class => "MyApp::Person" });

has boss => (
    is      => "ro",
    isa     => $Person->plus_constructors(
        HashRef,    "new",
        Str,         "_new_from_name",
    ),
    coerce  => 1,
);
```

```
package main;

 MyApp::Minion->new(
    ...,
    boss => "Bob",    ## via MyApp::Person->_new_from_name
 );

 MyApp::Minion->new(
    ...,
    boss => { name => "Bob" },    ## via MyApp::Person->new
 );
```

Because coercing HashRef via constructor is a common desire, if you call `plus_constructors` with no arguments at all, this is the default.

```
$classtype->plus_constructors(Types::Standard::HashRef, "new")
$classtype->plus_constructors()    ## identical to above
```

This is handy for Moose/Mouse/Moo-based classes.

BUGS

Please report any bugs to <<http://rt.cpan.org/Dist/Display.html?Queue=Type-Tiny>>.

SEE ALSO

Type::Tiny::Manual.

Type::Tiny.

Moose::Meta::TypeConstraint::Class.

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