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Rocky Enterprise Linux 9.2 Manual Pages on command 'Type::Tiny::Class.3pm'

\$ man Type::Tiny::Class.3pm

Type::Tiny::Class(3pm) User Contributed Perl Documentation Type::Tiny::Class(3pm)

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 "{ \$_->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(HashRef, "new")
$classtype->plus_constructors() ## identical to above

```

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

"stringifies_to(\$constraint)"

See Type::Tiny::ConstrainedObject.

"numifies_to(\$constraint)"

See `Type::Tiny::ConstrainedObject`.

"with_attribute_values(\$attr1 => \$constraint1, ...)"

See `Type::Tiny::ConstrainedObject`.

BUGS

Please report any bugs to <https://github.com/tobyink/p5-type-tiny/issues>.

SEE ALSO

`Type::Tiny::Manual`.

`Type::Tiny`.

`Moose::Meta::TypeConstraint::Class`.

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