



Trait `std::fmt::Display`

```
pub trait Display {  
    fn fmt(&self, f: &mut Formatter<'_>) -> Result<(), Error>;  
}
```

 Format trait for an empty format, `{}`.

`Display` is similar to `Debug`, but `Display` is for user-facing output, and so cannot be derived.

For more information on formatters, see [the module-level documentation](#).

Examples

Implementing `Display` on a type:

```
use std::fmt;  
  
struct Point {  
    x: i32,  
    y: i32,  
}  
  
impl fmt::Display for Point {  
    fn fmt(&self, f: &mut fmt::Formatter<'_>) -> fmt::Result {  
        write!(f, "({}, {})", self.x, self.y)  
    }  
}  
  
let origin = Point { x: 0, y: 0 };  
  
assert_eq!(format!("The origin is: {}", origin), "The origin is: (0, 0)");
```

[Run](#)

Required methods

 `fn fmt(&self, f: &mut Formatter<'_>) -> Result<(), Error>`

[\[src\]](#)



formats the value using the given formatter.

Examples

```
use std::fmt;

struct Position {
    longitude: f32,
    latitude: f32,
}

impl fmt::Display for Position {
    fn fmt(&self, f: &mut fmt::Formatter<'_>) -> fmt::Result {
        write!(f, "({}, {})", self.longitude, self.latitude)
    }
}

assert_eq!("(1.987, 2.983)",
    format!("{}", Position { longitude: 1.987, latitude: 2.983,
```

[Run](#)

Implementations on Foreign Types

[\[+\]](#) `impl Display for Utf8Lossy` [\[src\]](#)

[\[+\]](#) `impl<'a> Display for EscapeAscii<'a>` [\[src\]](#)

Implementors

`impl Display for Infallible` 1.34.0 [\[src\]](#)

`impl Display for VarError` [\[src\]](#)

`impl Display for IpAddr` 1.7.0 [\[src\]](#)


`impl Display for SocketAddr` [\[src\]](#)

`impl Display for RecvTimeoutError` 1.15.0 [\[src\]](#)

`impl Display for TryRecvError` [\[src\]](#)

`impl Display for bool` [\[src\]](#)

`impl Display for char` [\[src\]](#)

	<code>impl Display for f32</code>		[src]
	<code>impl Display for f64</code>		[src]
	<code>impl Display for i8</code>		[src]
	<code>impl Display for i16</code>		[src]
	<code>impl Display for i32</code>		[src]
	<code>impl Display for i64</code>		[src]
	<code>impl Display for i128</code>		[src]
	<code>impl Display for isize</code>		[src]
	<code>impl Display for !</code>		[src]
	<code>impl Display for str</code>		[src]
	<code>impl Display for u8</code>		[src]
	<code>impl Display for u16</code>		[src]
	<code>impl Display for u32</code>		[src]
	<code>impl Display for u64</code>		[src]
	<code>impl Display for u128</code>		[src]
	<code>impl Display for usize</code>		[src]
	<code>impl Display for AllocError</code>		[src]
	<code>impl Display for LayoutError</code>	1.28.0	[src]
	<code>impl Display for TryFromSliceError</code>	1.36.0	[src]
	<code>impl Display for std::ascii::EscapeDefault</code>	1.39.0	[src]
	<code>impl Display for Backtrace</code>		[src]
	<code>impl Display for BorrowError</code>	1.13.0	[src]
	<code>impl Display for BorrowMutError</code>	1.13.0	[src]
	<code>impl Display for CharTryFromError</code>	1.34.0	[src]
	<code>impl Display for DecodeUtf16Error</code>	1.9.0	[src]



impl Display for std::char::EscapeDebug	1.20.0	[src]
impl Display for std::char::EscapeDefault	1.16.0	[src]
impl Display for std::char::EscapeUnicode	1.16.0	[src]
impl Display for ParseCharError	1.20.0	[src]
impl Display for ToLowercase	1.16.0	[src]
impl Display for ToUppercase	1.16.0	[src]
impl Display for TryReserveError	1.57.0	[src]
impl Display for JoinPathsError		[src]
impl Display for FromBytesWithNulError	1.17.0	[src]
impl Display for FromVecWithNulError		[src]
impl Display for IntoStringError	1.7.0	[src]
impl Display for NulError		[src]
impl Display for std::io::Error		[src]
impl Display for WriterPanicked	1.56.0	[src]
impl Display for AddrParseError	1.4.0	[src]
impl Display for Ipv4Addr		[src]
impl Display for Ipv6Addr		[src]
Write an Ipv6Addr, conforming to the canonical style described by RFC 5952.		
impl Display for SocketAddrV4		[src]
impl Display for SocketAddrV6		[src]
impl Display for NonZeroI8	1.34.0	[src]
impl Display for NonZeroI16	1.34.0	[src]
impl Display for NonZeroI32	1.34.0	[src]
impl Display for NonZeroI64	1.34.0	[src]
impl Display for NonZeroI128	1.34.0	[src]
impl Display for NonZeroIsize	1.34.0	[src]



impl Display for NonZeroU8	1.28.0	[src]
impl Display for NonZeroU16	1.28.0	[src]
impl Display for NonZeroU32	1.28.0	[src]
impl Display for NonZeroU64	1.28.0	[src]
impl Display for NonZeroU128	1.28.0	[src]
impl Display for NonZeroUsize	1.28.0	[src]
impl Display for ParseFloatError		[src]
impl Display for ParseIntError		[src]
impl Display for TryFromIntError	1.34.0	[src]
impl Display for Display<'_>		[src]
impl Display for StripPrefixError	1.7.0	[src]
impl Display for ExitStatus		[src]
impl Display for ExitStatusError		[src]
impl Display for ParseBoolError		[src]
impl Display for Utf8Error		[src]
impl Display for FromUtf8Error		[src]
impl Display for FromUtf16Error		[src]
impl Display for String		[src]
impl Display for RecvError		[src]
impl Display for AccessError	1.26.0	[src]
impl Display for FromSecsError		[src]
impl Display for SystemTimeError	1.8.0	[src]
impl Display for std::fmt::Error		[src]
impl<'_> Display for Location<'_>	1.26.0	[src]
impl<'_> Display for PanicInfo<'_>	1.26.0	[src]



<code>impl<'_,> Display for Arguments<'_,></code>	[src]
<code>impl<'_, B> Display for Cow<'_, B></code>	[src]
<code>where</code> <code> B: Display + ToOwned + ?Sized,</code> <code> <B as ToOwned>::Owned: Display,</code>	
<code>impl<'_, T> Display for &'_ T</code>	[src]
<code>where</code> <code> T: Display + ?Sized,</code>	
<code>impl<'_, T> Display for &'_ mut T</code>	[src]
<code>where</code> <code> T: Display + ?Sized,</code>	
<code>impl<'_, T> Display for Ref<'_, T></code>	1.20.0 [src]
<code>where</code> <code> T: Display + ?Sized,</code>	
<code>impl<'_, T> Display for RefMut<'_, T></code>	1.20.0 [src]
<code>where</code> <code> T: Display + ?Sized,</code>	
<code>impl<'a> Display for std::str::EscapeDebug<'a></code>	1.34.0 [src]
<code>impl<'a> Display for std::str::EscapeDefault<'a></code>	1.34.0 [src]
<code>impl<'a> Display for std::str::EscapeUnicode<'a></code>	1.34.0 [src]
<code>impl<'a, K, V> Display for</code>	[src]
<code>std::collections::btree_map::OccupiedError<'a, K, V></code> <code>where</code> <code> K: Debug + Ord,</code> <code> V: Debug,</code>	
<code>impl<'a, K: Debug, V: Debug> Display for</code>	[src]
<code>std::collections::hash_map::OccupiedError<'a, K, V></code>	
<code>impl<P> Display for Pin<P></code>	1.33.0 [src]
<code>where</code> <code> P: Display,</code>	
<code>impl<T> Display for TryLockError<T></code>	[src]
<code>impl<T> Display for TrySendError<T></code>	[src]
<code>impl<T> Display for Saturating<T></code>	[src]
<code>where</code> <code> T: Display,</code>	
<code>impl<T> Display for Wrapping<T></code>	1.10.0 [src]



ere

T: Display,

impl<T> Display for Rc<T> [src]

where

T: Display + ?Sized,

impl<T> Display for SendError<T> [src]

impl<T> Display for Arc<T> [src]

where

T: Display + ?Sized,

impl<T> Display for PoisonError<T> [src]

impl<T, A> Display for Box<T, A> [src]

where

T: Display + ?Sized,

A: Allocator,

impl<T: ?Sized + Display> Display for MutexGuard<'_, T> 1.20.0 [src]

impl<T: ?Sized + Display> Display for RwLockReadGuard<'_, T> 1.20.0 [src]

impl<T: ?Sized + Display> Display for RwLockWriteGuard<'_, T> 1.20.0 [src]

impl<W> Display for IntoInnerError<W> [src]

impl Display for LexError

impl Display for TokenStream

impl Display for TokenTree

impl Display for Group

impl Display for Punct

impl Display for Ident

impl Display for Literal

impl Display for TestExecTime

impl Display for TestName