

A type mismatched an associated type of a trait.

Erroneous code example:

```
trait Trait { type AssociatedType; }

fn foo<T>(t: T) where T: Trait<AssociatedType=u32> {
//      ~~~~~
//      |
//      This says `foo` can
//      only be used with
//      some type that
//      implements `Trait`.
//      |
//      This says not only must
//      `T` be an impl of `Trait`
//      but also that the impl
//      must assign the type `u32`
//      to the associated type.
    println!("in foo");
}

impl Trait for i8 { type AssociatedType = &'static str; }
//~~~~~
//      |
//      `i8` does have
//      implementation
//      of `Trait`...
//      |
//      ... but it is an implementation
//      that assigns `&'static str` to
//      the associated type.

foo(3_i8);
// Here, we invoke `foo` with an `i8`, which does not satisfy
// the constraint `::AssociatedType=u32`, and
// therefore the type-checker complains with this error code.

The issue can be resolved by changing the associated type: 1) in the foo
implementation:

trait Trait { type AssociatedType; }

fn foo<T>(t: T) where T: Trait<AssociatedType = &'static str> {
    println!("in foo");
}

impl Trait for i8 { type AssociatedType = &'static str; }
```

```
foo(3_i8);  
    2) in the Trait implementation for i8:  
trait Trait { type AssociatedType; }  
  
fn foo<T>(t: T) where T: Trait<AssociatedType = u32> {  
    println!("in foo");  
}  
  
impl Trait for i8 { type AssociatedType = u32; }  
  
foo(3_i8);
```