Test cases intended to document behavior and try to exhaustively explore the combinations.

Confidence

These tests are not yet considered 100% normative, in that some aspects of the current behavior are not desirable.
This is expressed in the "confidence" field in the following table. Values:

Confidence	Interpretation
100%	this will remain recommended behavior
75%	unclear whether we will continue to accept this
50%	this will likely be deprecated but remain valid
25%	this could change in the future
0%	this is definitely bogus and will likely change in the future in *some* way

Tests

Test file	`Self` type	Pattern	Current elision behavior	Confidence
`self.rs`	`Struct`	`Self`	ignore `self` parameter	100%
`struct.rs`	`Struct`	`Struct`	ignore `self` parameter	100%
`alias.rs`	`Struct`	`Alias`	ignore `self` parameter	100%
`ref-self.rs`	`Struct`	`&Self`	take lifetime from `&Self`	100%
`ref-mut-self.rs`	`Struct`	`&mut Self`	take lifetime from `&mut Self`	100%
`ref-struct.rs`	`Struct`	`&Struct`	take lifetime from `&Self`	50%
`ref-mut-struct.rs`	`Struct`	`&mut Struct`	take lifetime from `&mut Self`	50%
`ref-alias.rs`	`Struct`	`&Alias`	ignore `Alias`	0%
`ref-mut-alias.rs`	`Struct`	`&mut Alias`	ignore `Alias`	0%
`lt-self.rs`	`Struct<'a>`	`Self`	ignore `Self` (and hence `'a`)	25%
`lt-struct.rs`	`Struct<'a>`	`Self`	ignore `Self` (and hence `'a`)	0%
`lt-alias.rs`	`Alias<'a>`	`Self`	ignore `Self` (and hence `'a`)	0%
`lt-ref-self.rs`	`Struct<'a>`	`&Self`	take lifetime from `&Self`	75%

In each case, we test the following patterns:

- `self: XXX`
- `self: Box<XXX>`
- `self: Pin<XXX>`
- `self: Box<Box<XXX>>`
- `self: Box<Pin<XXX>>`

In the non-reference cases, `Pin` causes errors so we substitute `Rc`.

`async fn`

For each of the tests above we also check that `async fn` behaves as an `fn` would. These tests are in files named `*-async.rs`.

Legends:

- ✓ ⟹ Yes / Pass
- X ⟹ No
- α ⟹ lifetime mismatch
- β ⟹ cannot infer an appropriate lifetime
- γ ⟹ missing lifetime specifier

`async` file	Pass?	Conforms to `fn`?	How does it diverge? `fn` ⟶ `async fn`
`self-async.rs`	✓	✓	N/A
`struct-async.rs`	✓	✓	N/A
`alias-async.rs`	✓	✓	N/A
`assoc-async.rs`	✓	✓	N/A
`ref-self-async.rs`	X	✓	N/A
`ref-mut-self-async.rs`	X	✓	N/A
`ref-struct-async.rs`	X	✓	N/A
`ref-mut-struct-async.rs`	X	✓	N/A
`ref-alias-async.rs`	✓	✓	N/A
`ref-assoc-async.rs`	✓	✓	N/A
`ref-mut-alias-async.rs`	✓	✓	N/A
`lt-self-async.rs`	✓	✓	N/A
`lt-struct-async.rs`	✓	✓	N/A
`lt-alias-async.rs`	✓	✓	N/A
`lt-assoc-async.rs`	✓	✓	N/A
`lt-ref-self-async.rs`	X	✓	N/A