```
co_yield expr;
co_avait prom.yield_value(expr);
```

- +00_await: . amore coroutine: suspend while
 - · Delleyso auoster townown Mesne, elde etnek zernoby

awaiter await ready await_suspend await_resume

-> Bir sind bu fonkanlaa

- 2 adet deslect awaiter val

std::suspend_always std::suspend_never

· Susp-olways: programa akisi, corahan'i aginara gocor / superal bout colori. , coroutine gorcer / surpord both editment

```
struct suspend_always {
    constexpr bool await_ready() const noexcept { return false; }
    constexpr void await_suspend(std::coroutine_handle<>) const noexcept {}
    constexpr void await_resume() const noexcept {}
 constexpr bool await_ready() const noexcept { return true; }
 constexpr void await_suspend(std::coroutine_handle<>) const noexcept {}
 constexpr void await_resume() const noexcept {}
```

```
template<typename P, typename 🎨
decltype(auto) get_awaitable(P& promise, T&& expr)
  if constexpr (has_any_await_transform_member_v<P>)
     return promise.await_transform(static_cast<T&&>(expr));
   else
     return static_cast<T&&>(expr);
            5 888 ear in awast transfrom functions, on again yourse entranchable
                                                                   ocace duri
  template<typename Awaitable>
  decltype(auto) get_awaiter(Awaitable&& awaitable)
    if constexpr (has_member_operator_co_await_v<Awaitable>)
       return static_cast<Awaitable&&>(awaitable).operator co_await();
     else if constexpr (has_non_member_operator_co_await_v<Awaitable&&>)
       return operator co_await(static_cast<Awaitable&&>(awaitable));
     else
       return static_cast<Awaitable&&>(awaitable);
```

```
co_await expr;
```

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- Egerverso: expr. o fanking a gandenir leter.

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- eger solso: expr. o tendrims awastable ourse tulunting

awastable alde editatilan sorra,

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Leger yourse; global co-awast

Eger by ala yourse; exprim landis

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```
· Derleya snosyle.
                  -> calls await-ready:
                   bool awaiter::await ready()
                         return false;
                                                                   -> fase older toon, superation lotal edition.
                                               true the covaring his
                                                  suspend edilmez!
                    Suspension Kobil editorisse: auroit-suspend Coginic:
                                void Awaiter::await suspend(std::coroutine_handle<>)
                               bool Awaiter::await_suspend(std::coroutine_handle<>)
                                           g eget book return educate suspend edition into editionary mi?
          -> Suspend edilmis coroutine de: awoit-resme
                             · Durdunum coratne Colismedor Since Cognilir.
struct Awaiter {
```

```
bool await_ready()const
{
    std::cout << "Awaiter::await_ready()\n";
    return false;
}

void await_suspend(std::coroutine_handle<>>)const
{
    std::cout << "Awaiter::await_suspend()\n";
}

void await_resume()const
{
    std::cout << "Awaiter::await_resume()\n";
}

std::cout << "Awaiter::await_resume()\n";
};
</pre>
```

```
coroFace foo()
{
    std::cout << "coroutine started! [1]\n";
    co_await Awaiter{};
    std::cout << "coroutine resumed! [2]\n";
}</pre>
```

```
sint main()
{
    std::cout << "main [1]\n";
    auto crface = foo();
    std::cout << "main [2]\n";
    crface.resume();
    std::cout << "main [3]\n";</pre>
```

```
main [1]
coroutine started! [1]
Awaiter::await_ready() — main [2] — main [3]

C:\Users\necat\source\repos\COROUTINE_01\x64\Debug\COROUTINE_01.exe (Press any key to close this window . . .
```