```
- Structural Brighty ;
```

```
int a, b, c; C distribut divi, public, appresente lest skeet.

int main()
{
Data mydata = { 1, 4, 5 }; herrors lest et kod olmadan auto [x, y, z] = mydata; skeeted brooking
}
```

```
#include <iostream>
estruct Data {
    int a, b, c;
};

Data get_data()
{
    return { 4, 8, 7 };
}
int main()
{
    auto [x, y, z] = get_data();

    std::cout << "x = " << x << "\n";
    std::cout << "y = " << y << "\n";
    std::cout << "z = " << z << "\n";
}</pre>
```

## -> Structured binding, origies win de geerli.

```
#include <iostream>

int main()
{
   int a[] = { 2, 7, 9, 13 };
   auto [x1, x2, x3, ] = a;
   3 elemen
   but box gares.
}
```

```
#include <iostream>

struct Nec {
    int x, y, z;
};

=Nec foo()
{
    return { 1, 2, 3 };
}

eint main()
{
    auto [x, y, z] = foo();
    auto f = [x](int a) {return a * x; };
}

#*Cop 80 den Hisaren, shrufired

broden fisheren, shrufired

broden fisheren

capture description

c
```

Benzeri schilde

Amerik Oyni sesperta liktorilak underseare olerek yesimel Syntas hoteri ||

```
public:
    Myclass() = default;
    int a{}, b{};
    friend void foo();

private:
    int c{};
};

friend biditime oldin ich, z

total edilebite. So do Cop Dod

avoid foo() and vorsa prime c'ye erkiemdi

{
    Myclass m;
    //..
    auto [x, y, z] = m;
}
```

```
#include <iostream>
#include <functional>
#include <vector>

using iref = std::reference_wrapper<int>;

eint main()

{
    using namespace std;
    int x{}, y{ 10 }, z{ 20 }, t{ 30 };

    vector<iref> vec{ x, y, z, t };

    reference_urapper

    int x{}, y{ 10 }, z{ 20 }, t{ 30 };

    vector<iref> vec{ x, y, z, t };

    reference_urapper

    int x{}, y{ 10 }, z{ 20 }, t{ 30 };

    vector<iref> vec{ x, y, z, t };

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    int x{}, y{ 10 }, z{ 20 }, t{ 30 };

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    int x{}, y{ 10 }, z{ 20 }, t{ 30 };

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    int x{}, y{ 10 }, z{ 20 }, z{ 30 };

    int x{}, y{ 10 }, z{ 30 };

    int x{}
```

```
- lebrance wropperbolia flooristypowa do bajlanabilit.
```

```
int foo(int x)
{
    return x * x + 5;
}

int main()
{
    using namespace std;
    reference_wrapper rf = foo;
    rf(10)
```

## \* Function Adoptors:

```
std::bind

mem_fn
not_fn

std::function //general function wrapper

std::invoke
```

## -> Fontesson adoptori nedis?

- . Briden Mr collecte dip, ble cellecte dentires by wrogen,
- .º Jungan, 3 promenti lar collecti i , 2 etemple agreeat hale godineatific, statisfan Orabban

\* Std:: Bind;

```
#include <iostream>
#include <functional>

=void func(int x, int y, int z)
{
    std::cout << "x = " << x << " y = " << y << " z = " << z << '\n';
}

=int main()
{
    auto f = std::bind(func);

    f(1, 2, 3)
}
```