```
Forest range in find forthisperine & value gooderms of the street bodies in the street reference of th
```

. Mye: byeling

borrowed renge adin de bir concept var |

borrowed lange: - Book bir range in throtord, a standard string odge raye negresoris togget. Litteresine borsin, hola bullentablishese - a bir borrowed rayedic.

> Luolue respogles borrowed ronge dir.

-> large in literaturier, range in kandising outline edubiliment (Span / String view)

. Contigius Kontementer

```
// default construction
// move cttor ==> constant time
// desruction
```

```
Defined in header concept view = ranges::range<T> && std::movable<T> && ranges::enable view<T>;
(1) (since the state of the
```

view the owns gener!

```
# Tristen Brindle -> borraned rage anothen mobiles val
```

+ronges::counted:

```
namespace rng = std::ranges;
std::vector<int> ivec{ 3, 5, 7, 9, 7, 2 };
std::views::counted(ivec.begin(), 3)

namespace rng = std::ranges;
std::vector<int> ivec{ 3, 5, 7, 9, 7, 2 };
std::list<int> ilist{ 3, 5, 7, 9, 7, 2 };
auto v1 = std::views::counted(ivec.begin(), 3);
auto v2 = std::views::counted(ilist.begin(), 3);
```

std::cout << typeid(v1).name() << "\n\n";
std::cout << typeid(v2).name() << "\n";</pre>

* Hackingapp.com

bu greedon ronge viewbrina bootik

-> range i counted the view a donostorebilitiz!

```
vector<string> svec{ "eray" ,"ali", "rukiye",
   "emrah", "handan" };

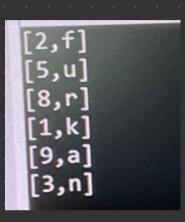
for (auto c : svec | views::reverse | views::join)
   std::cout << c << ' ';
   hepani >rcleshooile!
```

```
#Zip: Brown for lo ronge dup, onloss tuple like objectione abandorors.
```

```
using namespace std;
namespace vw = views;
namespace rng = ranges;

vector<int> ivec{ 2, 5, 8, 1, 9, 3 };
string name{ "furkan" };

for (auto t : vw::zip(ivec, name)) {
   auto [i, c] = t;
   cout << '[' << i << ',' << c << "]\n";
}</pre>
```



*Adopticles ve Febrilais:

· Filte: uney predicate's arguen ogeration olumn range

· Take:

```
Paper: → by bit febrike factory for the copy of int main()

{
    using namespace std;

    views::repeat("ali"s, 20)
}
```

Slide:

```
using namespace std;

vector<string> svec{ "murat", "mert", "gul",
        "nihat", "cevahir", "jale", "seyhan" };

ranges::copy(svec, ostream_iterator<string>(cout, " "));
    std::cout << '\n';

for (auto rn : std::views::slide(svec, 3)) {
        for (const auto& s : rn) {
            cout << s << " ";
        }
        cout << '\n';
    }
}</pre>
```

murat mert gul
mert gul nihat
gul nihat cevahir
nihat cevahir jale
cevahir jale seyhan

```
int main()
{
    namespace vw = std::views;
    std::vector<std::tuple<int, std::string, std::bitset<16>>>> vec{
        {12, "ali", 567u},
        {33, "ceyhun", 87234u},
        {45, "zeynep", 192345u},
    };
    auto ivec = vec | vw::elements<0> | std::ranges::to<std::vector>();
    auto svec = vec | vw::elements<0> | std::ranges::to<std::vector>();
    auto bvec = vec | vw::elements<2> | std::ranges::to<std::vector>();
    }
}
```

Style like Objectivin demontandon raye obstari

```
· Keys / Volues:
```

```
Drop_white / Drop:
```