

# complex.from\_polar

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```
Copy fnfrom_polar(mag:F, arg:F)->T;
```

...

Returns a complex number (in the Cartesian form) from the polar coordinates of the complex number.

## Args

- mag
- (F
- ) - The input fixed point number representing the magnitude.
- arg
- (F
- ) - The input fixed point number representing the argument.
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## Returns

The complex number representing the Cartesian form calculated from the input polar coordinates.

## Examples

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```
Copy useorion::numbers::complex_number::{complex_trait::ComplexTrait, complex64::complex64}; useorion::numbers::{FP64x64,FP64x64Impl,FixedTrait};
```

```
fnfrom_polar_complex64_example()->complex64 { letmag:FP64x64=FixedTrait::new(778268985067028086784,false);//42.190046219457976 letarg:FP64x64=FixedTrait::new(27224496882576083824,false);//1.4758446204521403 ComplexTrait::from_polar(mag,arg) }
```

```
    {real:{mag:73787936714814843012, sign:false}, im:{mag:774759489569697723777, sign:false}}// 4 + 42 i
```

...

[Previous complex.exp2](#) [Next complex.img](#)

Last updated1 month ago