

[simd / simd\\_distance](#)

Function

# simd\_distance

Returns the distance between two vectors.

```
static _Float16 simd_distance(simd_half16 __x, simd_half16 __y);
```

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## See Also

### Length and distance functions

[simd\\_length](#)

Returns the length of a vector.

[simd\\_fast\\_length](#)

Returns the fast length of a vector.

[simd\\_precise\\_length](#)

Returns the precise length of a vector.

[simd\\_length\\_squared](#)

Returns the square of the length of a vector.

[simd\\_fast\\_distance](#)

Returns the fast distance between two vectors.

[simd\\_precise\\_distance](#)

Returns the precise distance between two vectors.

[simd\\_distance\\_squared](#)

Returns the square of the distance between two vectors.