#### Name

reflect — calculate the reflection direction for an incident vector

### **Declaration**

```
genType \mathbf{reflect}( genType I, genType N);
genDType \mathbf{reflect}( genDType I, genDType N);
```

### **Parameters**

Ι

Specifies the incident vector.

N

Specifies the normal vector.

## **Description**

For a given incident vector I and surface normal N **reflect** returns the reflection direction calculated as I - 2.0 \* dot(N, I) \* N.

N should be normalized in order to achieve the desired result.

# **Version Support**

	OpenGL Shading Language Version											
Function Name	1.10	1.20	1.30	1.40	1.50	3.30	4.00	4.10	4.20	4.30	4.40	4.50
reflect (genType)	✓	<b>√</b>	✓	✓	<b>√</b>	<b>√</b>	<b>&gt;</b>	<b>&gt;</b>	<b>&gt;</b>	✓	<b>√</b>	<b>√</b>
reflect (genDType)	-	-	-	-	-	-	✓	<b>√</b>	✓	✓	✓	✓

### See Also

dot, refract

## Copyright

Copyright © 2011-2014 Khronos Group. This material may be distributed subject to the terms and conditions set forth in the Open Publication License, v 1.0, 8

1 of 2 1/1/2021, 7:43 PM

June 1999. http://opencontent.org/openpub/.

2 of 2