

## 12.1.64 Editors - Geometry Nodes Editor - Header - Add Menu - Geometry Nodegroups - Hair - Read

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### Detailed table of content

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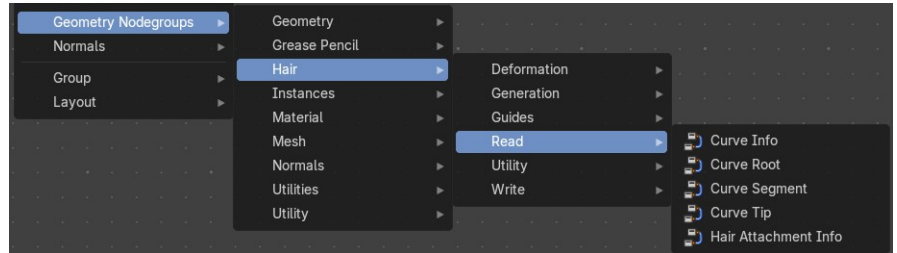
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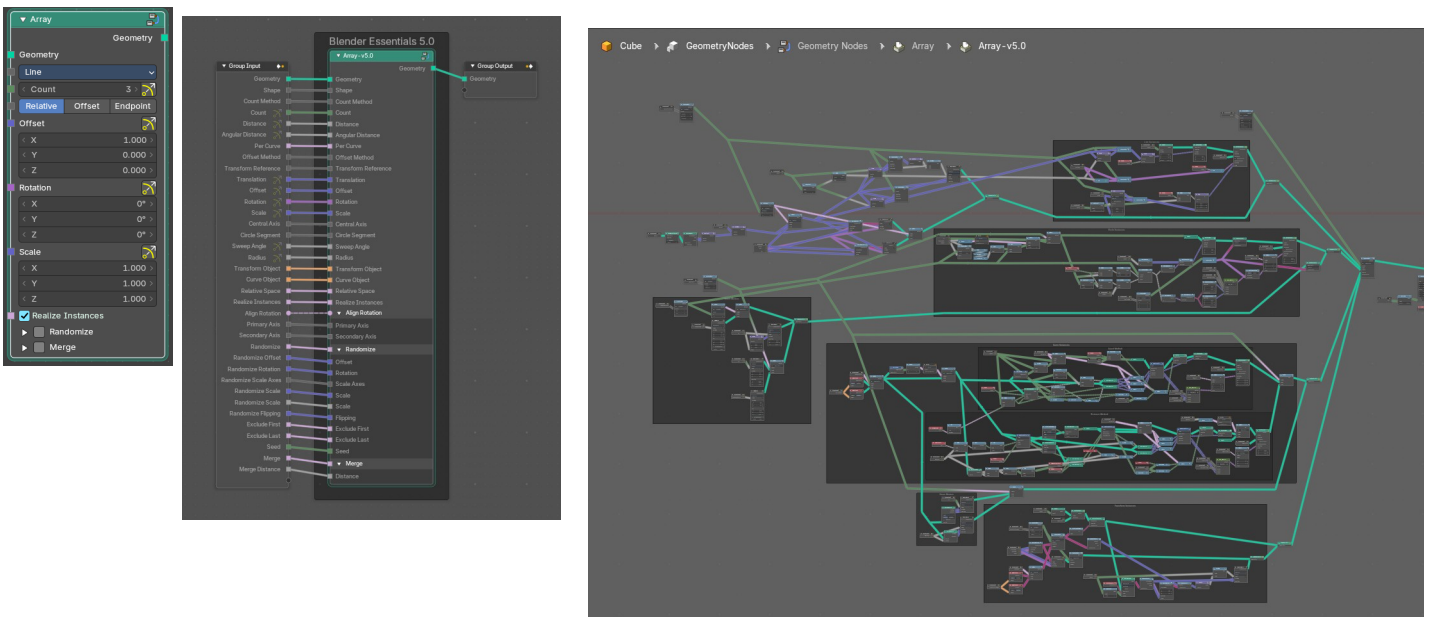
## Add menu - Hair - Read

The nodes in this submenu are node groups. They use the regular single nodes under the hood.

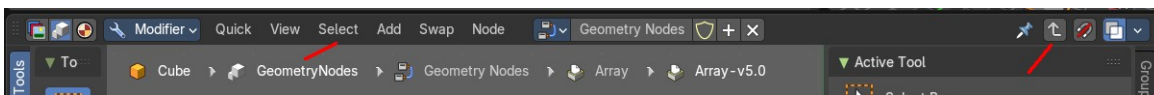
It is virtually impossible to document these nodes in detail. So we will just list them.



When you double click the header, then you will enter the first level of the group. When you then press tab, or click again at the header, then you will reach the single nodes.



To leave the group you can use the breadcrumb up left in the header. These breadcrumbs are clickable. Or the Parent Node Tree button up right in the header.



## Curve Info

Reads information about each curve.

### Output

#### ***Curve Index***

Index of each curve.

#### ***Curve ID***

ID of each curve.

#### ***Length***

Length of each curve.

#### ***Direction***

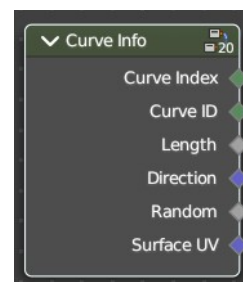
Direction of each curve.

#### ***Random***

Random Vector of each curve.

#### ***Surface UV***

Attachment surface UV coordinate of each curve.



## Curve Root

Reads information about the root point of each curve.

### Output

#### ***Root Selection***

Boolean selection of curve root points.

#### ***Root Position***

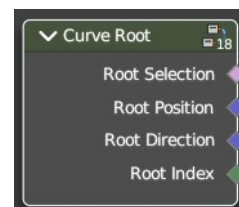
The position of a root point of a curve.

#### ***Root Direction***

Direction of the root segment of a curve.

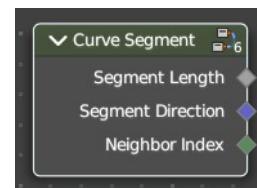
#### ***Root Index***

Index of the root point of a curve.



## Curve Segment

Reads the information of the curve segment before the current point.



### Output

#### Segment Length

Length of the segment

#### Segment Direction

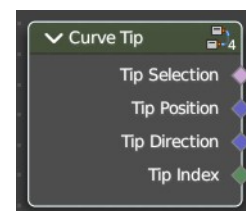
Direction of the segment

#### Neighbor Index

Index of the neighbouring point on segment.

## Curve Tip

Reads information about the tip point of each curve.



### Output

#### Tip Selection

Boolean selection of the tip points.

#### Tip Position

Position of the tip point of a curve.

#### Tip Direction

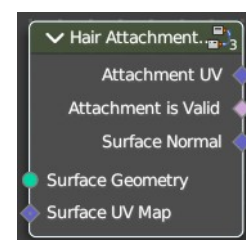
Direction of the segment of the tip point of a curve.

#### Tip Index

Index of the tip point of a curve.

## Hair Attachment Info

Reads attachment information regarding a surface mesh.



### Input

#### Surface Geometry

Surface geometry of the curve attachment.

#### Surface UV Map

Surface UV map used for attachment.

## **Output**

### ***Attachment UV***

Surface attachment UV coordinate stored on each curve.

### ***Attachment is Valid***

Is the attached UV coordinate valid?

### ***Surface Normal***

The normal direction of the surface mesh at the attachment point.