

## Hachuring

In Illustrator, open the Brushes pallet and Import the brushes from the .ai file. It's CS6 so should work for most people.



There are three different types of hachure brushes:

- Scatter Brushes
- Art Brushes
- Pattern Brushes



Hachure 1 is the thinnest; Hachure 7 the widest.

Hachure 1



Hachure 7



## Art Brush Hachures

These are the simplest to use.



Use the line tool to draw several individual hachures from head to tail. The smart guides will help you snap each end to red/top and green/bottom lines.

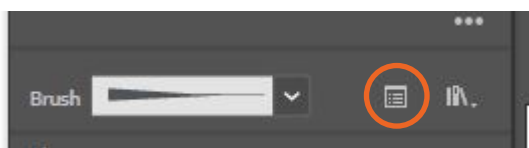
Select the lines [black arrow selection tool] and choose an Art Brush Hachure to apply from the HACHURES\_brushes palette.

Modify each hachure by:

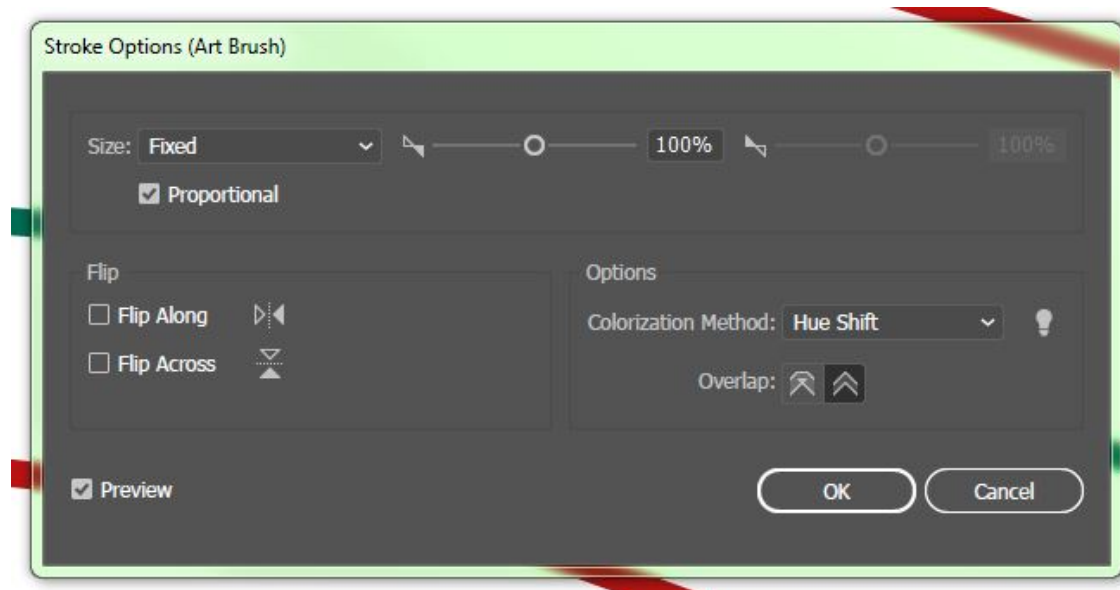
Changing the Stroke width

OR

Altering the Brush Options



Which allows you to alter the Size and rotation, whether it's drawn proportional to the line, or if you drew the line tail first you can Flip Along the Hachure.

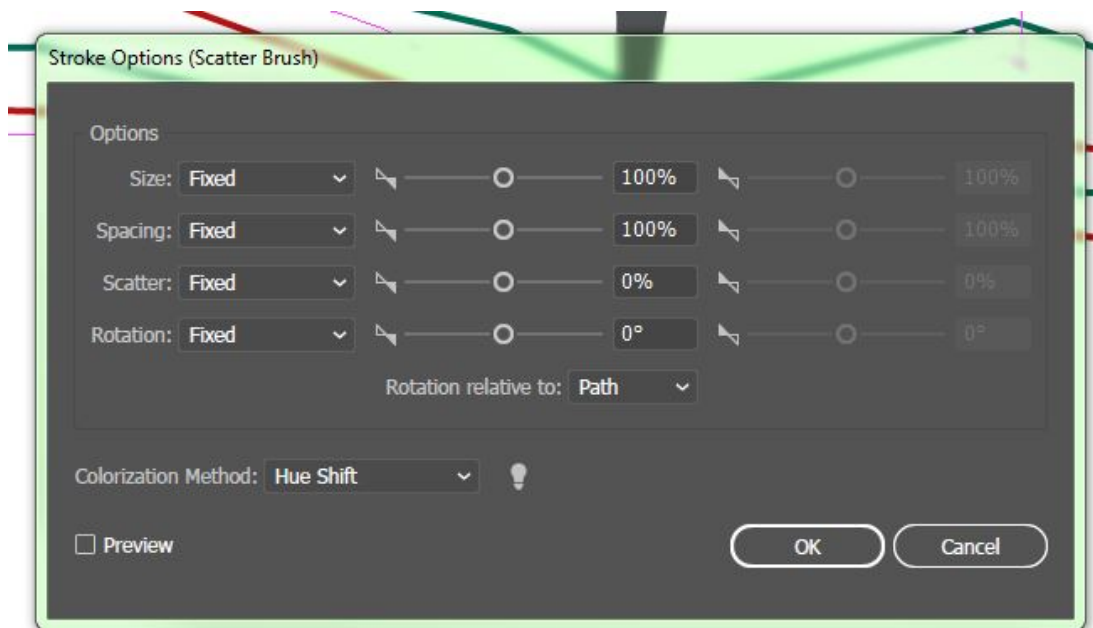


For natural slopes use a combination of the Heads and Tails brushes.

## Scatter Brush Hachures

Select a red/top line to hachure and apply one of the Scatter brushes [SCAT H1 – SCAT H7].

Modify using the Stroke Options for Scatter Brushes.



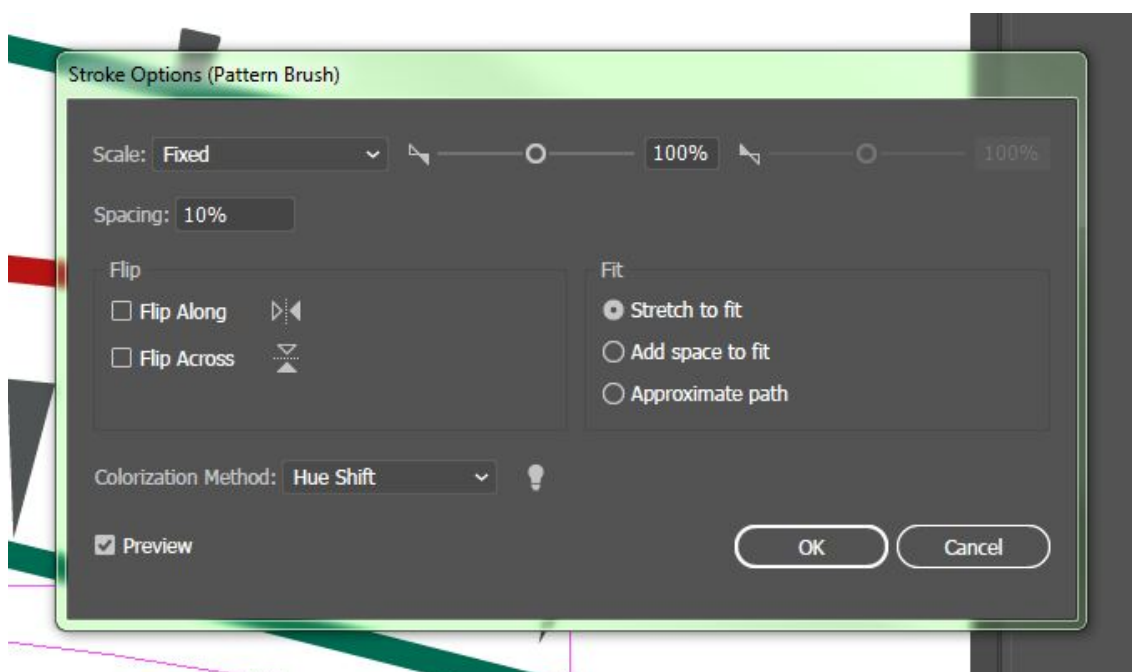
When the hachures are almost right, **File > Expand Appearance** AND **Object > Ungroup** to separate them into individual hachures. Rotate, stretch and move them as required.

## Pattern Brush Hachures

These are only for hachuring simple uniform ditches.

Use the Pen tool to create a path along the middle of the ditch and apply either of the Hachure Pattern brushes.

Modify the Size and Spacing using the Stroke Options for Pattern Brushes.



## Tips

It can be useful to have various guides to help with the distribution of hachures.

### Create a 1cm/10mm background grid

Edit > Preferences > Guides & Grid

Gridline every 10mm

Subdivisions 10

OK

View > Show Grid

### Measure along the digitised top

Duplicate the Top layer [select layer > 'burger' menu > Duplicate Layer]

Stroke 0.25 pt no Fill

Tick Dashed Line

Dash 2.268pt / 0.8mm

Gap 2.268pt / 0.8mm

For clarity, turn off the original Top layer [but keep it as a check]