

```
materialIndex = swarm.add_variable( dataType="int", count=1 )
```

```
materialViscous = 0
```

```
materialViscoelastic = 1
```

```
materialViscoelastic2 = 2
```

shape的建立

```
xCoordFn = fn.input()[0]
```

```
conditions = [ ( xCoordFn > 0.6 , materialViscoelastic2),  
               ( xCoordFn > 0.4 , materialViscoelastic ),  
               ( xCoordFn < 0.4 , materialViscoelastic2)]
```

```
materialIndex.data[:] = fn.branching.conditional( conditions ).evaluate(swarm)
```

```
# initialise swarm variables for viscoelastic rheology & analysis
```

```
previousStress = swarm.add_variable( dataType="double", count=3 )
```

```
previousStress.data[:] = [0., 0., 0.]
```