主要的两个控制变量：温度和压力；

设置初始温压；从下到上温度递减；压力递减

设置温压边界条件（上和下边界）

物质从x轴中间分开，左右各一种物质；

主要的不同是hydraulic diffusivity，左边大为1（适合移动？），右边小0.02

但是温度传导率一致，、

不知道Hydraulic storage capacity干嘛用的？？？

#两次解算？？？ *Setup groundwater equations*

```
gwadvDiff = uw.systems.SteadyStateHeat( temperatureField =
gwPressureField, fn_diffusivity =
hydraulicDiffusivityMapFn,conditions=[gwPressureBC])
gwadvDiff = uw.systems.SteadyStateDarcyFlow(
velocityField=velocityField, pressureField = gwPressureField,

fn_diffusivity=hydraulicDiffusivityMapFn, fn_bodyforce=(0.,0.),
                                          voronoi_swarm=swarm,
conditions=gwPressureBC)

gwsolver = uw.systems.Solver(gwadvDiff)
gwsolver.solve()
```

```
#Setup temperature advection-diffusion solver
tempDiff = uw.systems.SteadyStateHeat( temperatureField,
fn_diffusivity=thermalDiffusivityMapFn,
        conditions=temperatureBC,
       fn_heating = uw.function.math.dot(-1.*coeff * velocityField, tempGrad))

tempSolver = uw.systems.Solver(tempDiff)
tempSolver.solve(nonLinearIterate=True)
```