

zonal

```
library(sp)
#demo(meuse,ask=FALSE,echo=FALSE)
library(gstat)
data(meuse)
coordinates(meuse) <- ~ x+y
v = variogram(log(zinc)~1, data=meuse, alpha = c(0,45,90,135))
plot(v)
vm = vgm(.25, "Sph", 1000, anis = c(45, 0.5))
plot(v, vm, main = "geometric")
zonal = vgm(.5, "Sph", 1e9, anis = c(45, 1/1e6))
# range is 1e9, effectively infinity, in 45 direction;
# it is 1e9/1e6 = 1000 in 135 direction.
#vm = vgm(.25, "Sph", 1000, add.to = zonal)
#plot(v, vm, main = "zonal")
#zonal = vgm(.5, "Sph", 1e9, anis = c(45, 1/1e6))

vm = vgm(.4, "Sph", 1000, add.to = zonal)
plot(v, vm)

fit1 <- fit.variogram(v, vm, fit.sill=F)
plot(v, fit1)
```