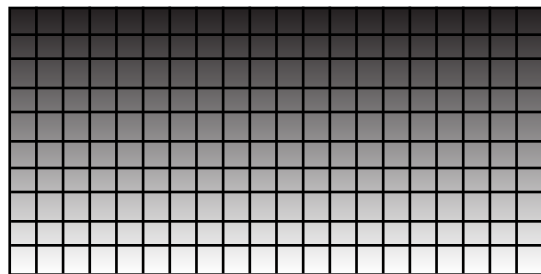
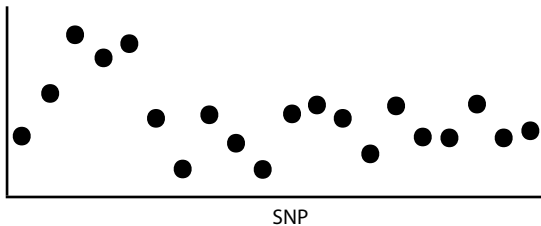


Phenotype



$-\log p$

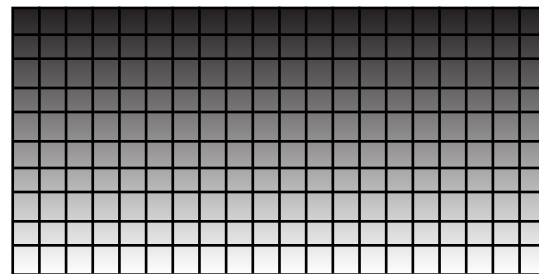


SNP

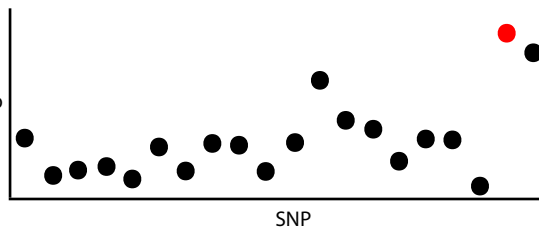
Permute the phenotype

Record the most significant result

Phenotype



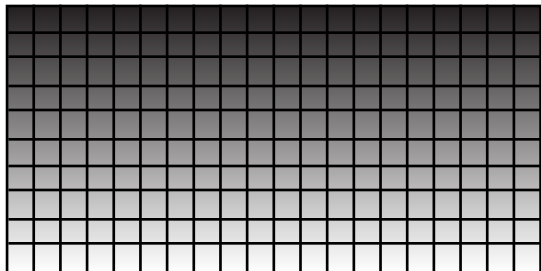
$-\log p$



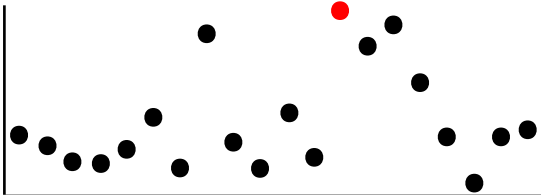
SNP

Repeat

Phenotype



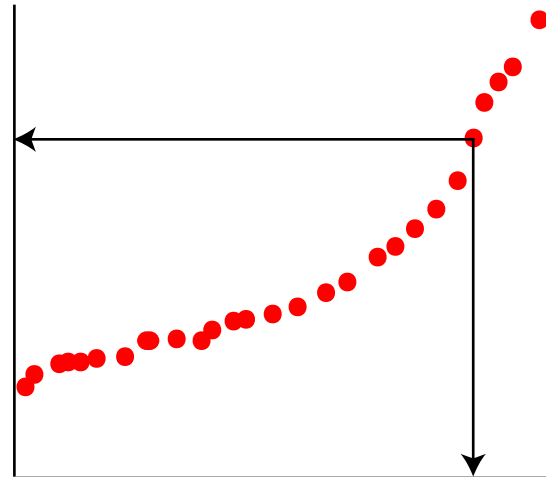
$-\log p$



SNP

Family-wise false discovery threshold

Do this thousands of times



5 percent most significant result