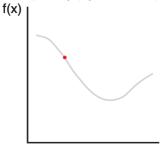
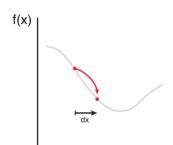
(view pdf as single page to see animation)



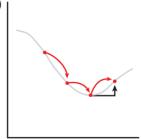
start with an initial guess



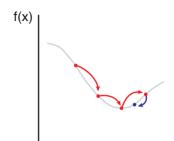
move x by an increment dx

X



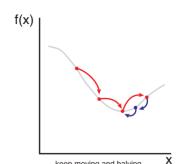


until reaching a point with higher value of f(x) than previous

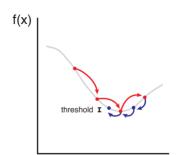


then halve the increment and move x backwards by dx/2

x

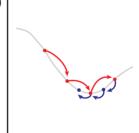


keep moving and halving



until difference between f(x) at two consecutive steps smaller than threshold





... or you've taken enough steps