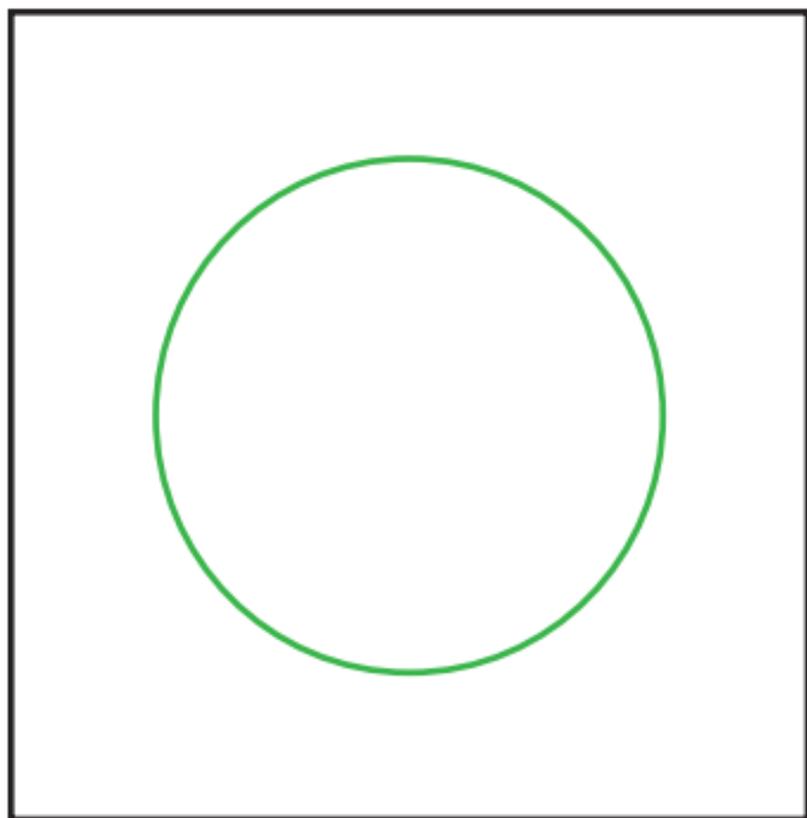
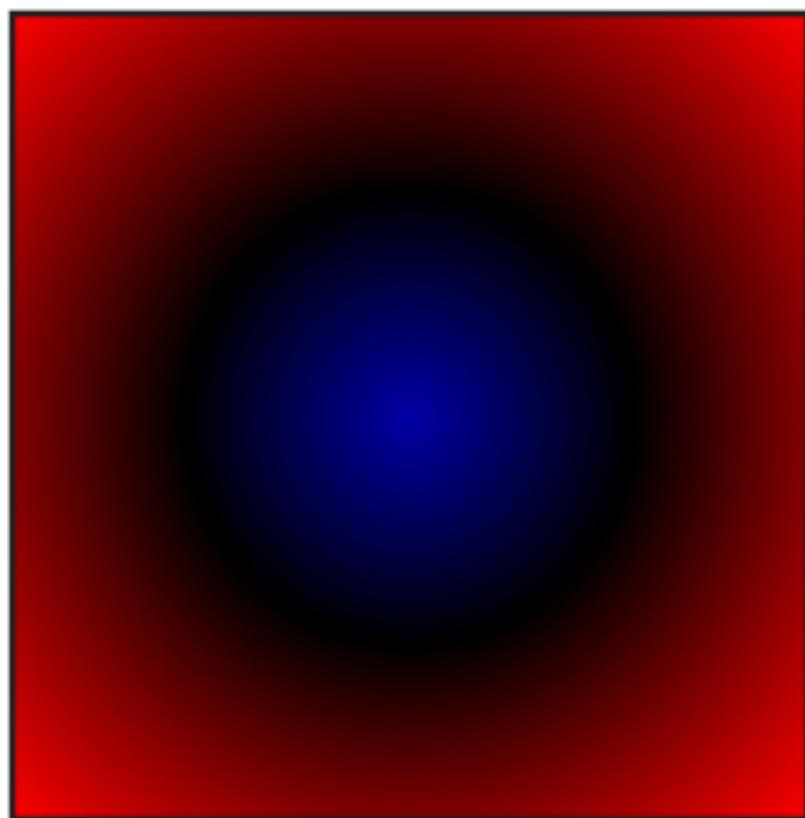


Input

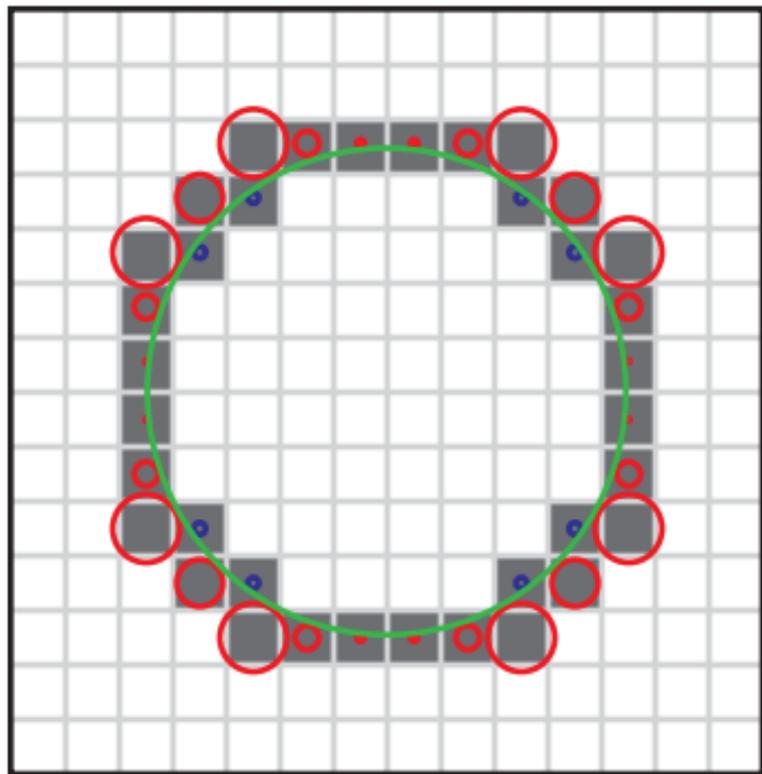


ArrivalTime



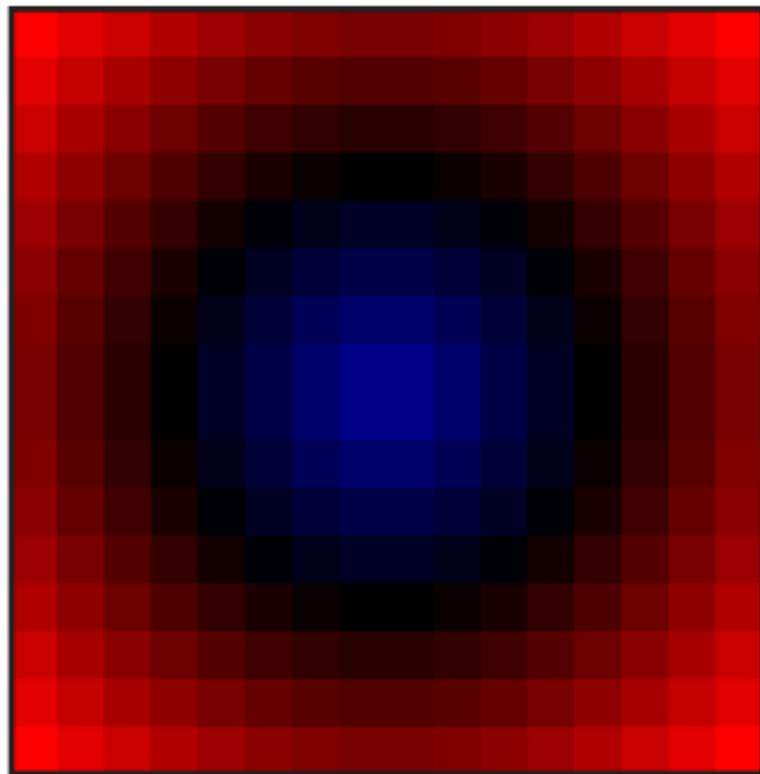
Input

(1,1)



(0,0)

ArrivalTime



UniformSpeedEikonalSolver

Input



Uniform speed = 1

Result



HighAccuracyUniformSpeedEikonalSolver

Input



Uniform speed = 1

Result



DistanceEikonalSolver

Input



Uniform speed = 1

Result



VaryingSpeedEikonalSolver

Input



Speed



Result



HighAccuracyVaryingSpeedEikonalSolver

Input



Speed



Result

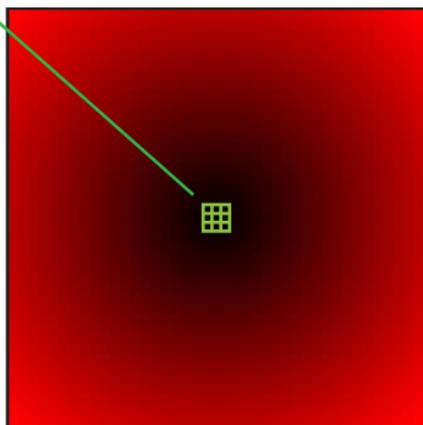
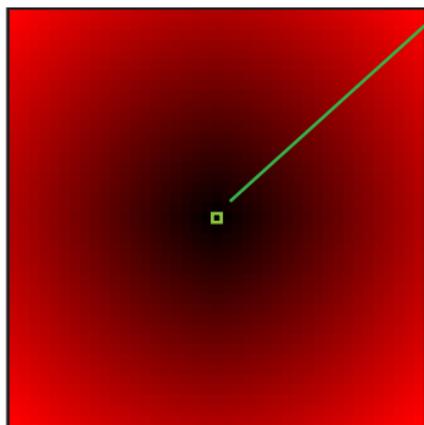


Regular FMM

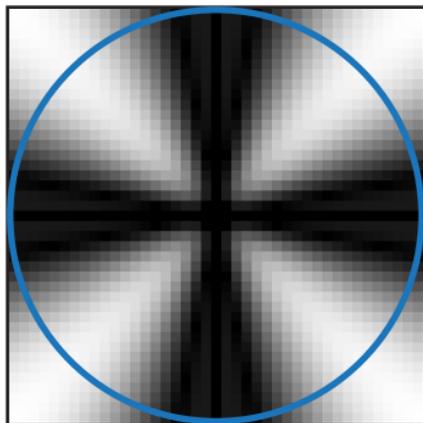
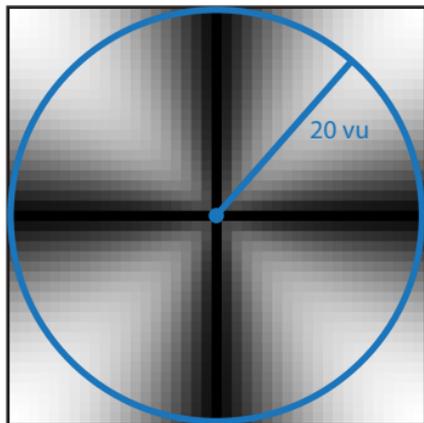
High Accuracy FMM

Arrival Time

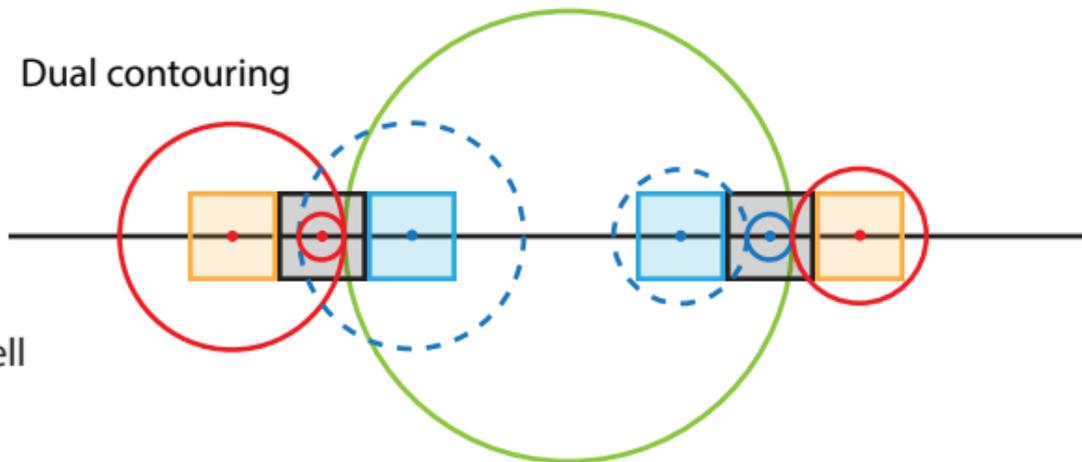
Boundary cells



Error



Dual contouring



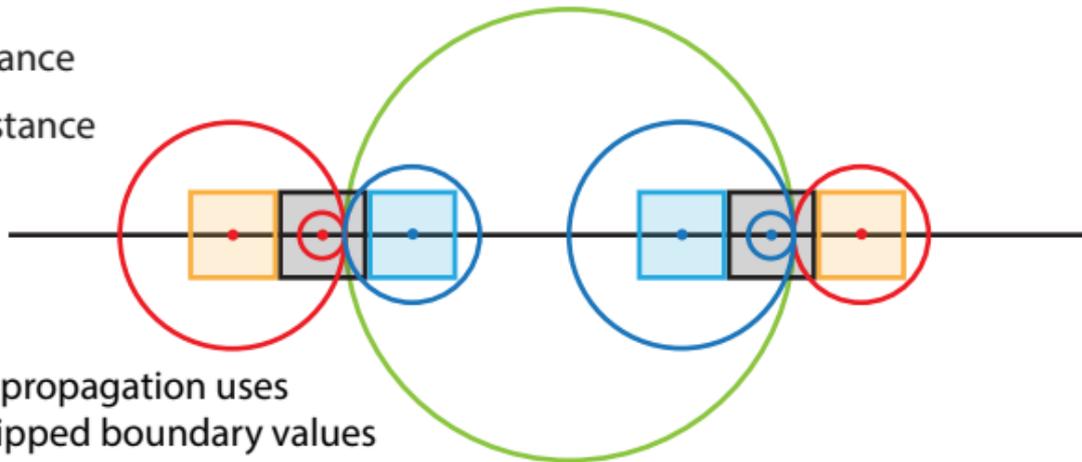
■ Boundary cell

■ Inside cell

■ Outside cell

⊙ Positive distance

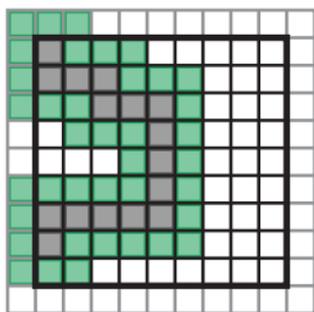
⊙ Negative distance



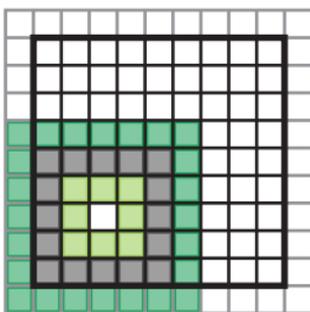
Inside propagation uses
sign-flipped boundary values

One Connected Component

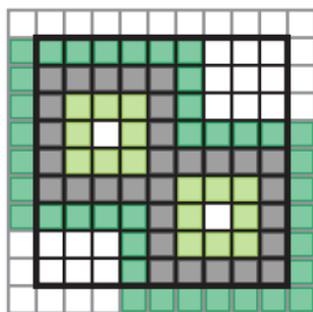
1 dilation band



2 dilation bands



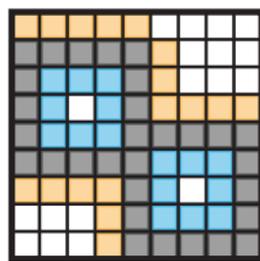
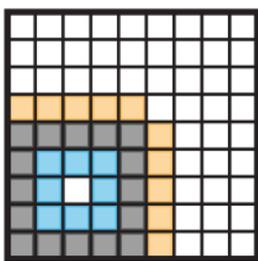
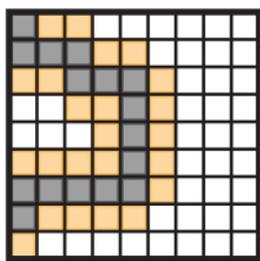
>2 dilation bands



- Boundary Cell
- Outer dilation band cell
- Inner dilation band cell
- Inside cell
- Outside cell

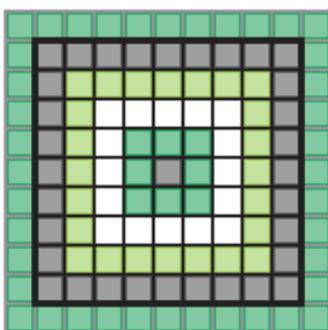
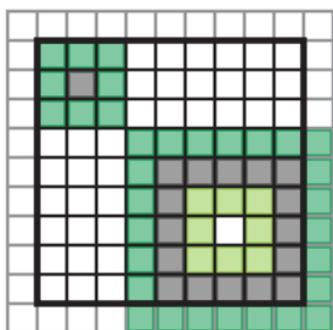


Initialize narrow bands

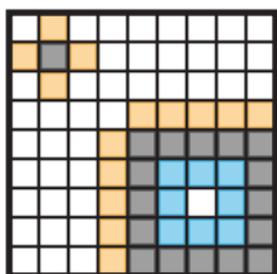


Two or More Connected Components

Contained Component



Initialize narrow bands



Inside/outside conflict

