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dx:

ray going from x1 to x2, the length of ray to travel

a cell’s size in the x direction

dy:

ray going from y1 to y2, the length of ray to travel

a cell’s size in the y direction

x1

x2

y2

y1

dx = cellSize / dir.x

dy = cellSize / dir.y

here we are assuming cell size is one so we have

dx = 1 / dir.x

dy = 1 / dir.y