

# Bresenham Line Drawing Algorithm

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**Bresenham - Montana State University** Bresenham Algorithm for Circles Centered at the Origin While it is surprising that it is possible to draw lines with only integer additions using a decision variable, it is even more surprising that it is possible to do the same for circles. [Bresenham's Line Generation Algorithm - GeeksforGeeks](#) Jul 23, 2025 · The idea of Bresenham's algorithm is to avoid floating point multiplication and addition to compute  $mx + c$ , and then compute the round value of  $(mx + c)$  in every step. *Bresenham's Line Algorithm - StuyCS* The basic concept of Bresenham's Line Algorithm is to find potential pixels that we think would be good candidates for the line, test them, and then select the best one. **Bresenham's Line Algorithm - UC Davis** Bresenham's Line Algorithm Given end points  $(x_0, y_0)$   $(x_1, y_1)$   $dx = x_1 - x_0$ ,  $dy = y_1 - y_0$  Starting with an end point  $(x_0, y_0)$ : 1. Compute  $P_0 = 2dy - dx$  2. For each  $k$ , starting with  $k=0$  if  $(P_k < 0)$  the ... *Bresenham's line algorithm: An exploration - Middle Engine* Jul 28, 2020 · Bresenham's line algorithm is often used for line-drawing in pixel art. This post explains why this is, how the algorithm works, and a variation that you might prefer to use. *Bresenham - GitHub Pages* Bresenham Features of the rasterising algorithm: **Bresenham's Line Generation Algorithm - Online Tutorials Library** Learn about Bresenham's Line Generation Algorithm, a crucial algorithm in computer graphics for drawing lines on pixel-based displays. *The Bresenham Line Algorithm* An optimized algorithm for drawing such a line is the Bresenham Line Drawing Algorithm. We want the algorithm to be as fast as possible, because in practice such an algorithm will be used a lot. We'll walk our way through a derivation of the algorithm. The algorithm was originally published as: Jack E. Bresenham, **The Bresenham's Line Algorithm | Baeldung on Computer Science** Jul 6, 2023 · Bresenham's line algorithm works by incrementally plotting the pixels that are closest to the line, one at a time. The algorithm computes the coordinates of the successive points by incrementing the  $x$  and  $y$  coordinates. **Bresenham's line algorithm - Wikipedia** Bresenham's line algorithm is a line drawing algorithm that determines the points of an  $n$ -dimensional raster that should be selected in order to form a close approximation to a straight line between two points.

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