Subject: Polygon hull

Posted by bcohen on Sun, 17 Dec 2000 21:51:56 GMT

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Hi, I have an array of data and I want to plot a polygon that encompasses all the points within it. I have tried JHU's convexhull but it fails to encompass all the data (example below). Does anyone else have a program to do this? I thought I'd ask before trying it myself:) Thanks! Barbara

Example of how convexhull fails in this case:

 $\begin{aligned} x &= [0.36, 0.35, 0.39, 0.42, 0.60, 0.41, 0.48, 0.73, 0.46, 0.42, 0.42, 0.42, 0.47, 0.44, 0.47, 0.49, 0.54, 0.64, 0.65] \\ y &= [0.19, 0.26, 0.26, 0.26, 0.14, 0.22, 0.15, 0.10, 0.16, 0.30, 0.27, 0.27, 0.23, 0.23, 0.22, 0.16, 0.16, 0.08, 0.08] \end{aligned}$

plot, x, y, color=0, /nodata

convexhull, x, y, xh, yh

polyfill, xh, yh, color=150, fill_pattern=50

plot, x, y, psym=7, color=0

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