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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:

```
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]
```

```
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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