Subject: Uneven plot symbol sizes
Posted by on Thu, 16 Apr 2015 11:24:46 GMT
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The most common plot symbol sizes seem to be normalized to a common width, which makes e.g. x symbols come out looking sqrt(2) times larger than + symbols. Same thing with squares vs. diamonds - with circles somewhere in between.

I was sufficiently annoyed by this that I wrote a function that measures "areas" of the different symbols defined by cgsymcat. The function returns the real area of the filled symbols normalized to circles (measured by plotting a single, large, white symbol on a black background with no axes, and measuring the total of the resulting array). For the non-filled symbols the area of the corresponding filled symbols, like filled square for open square and x, filled diamond for open diamond and +, etc.

If I then plot with the nominal symsize I want divided by the square root of the area for the particular symbols I'm using, the plots look alright to me.

Now that I got it working, I'm wondering if I've just reinvented an existing wheel. Is this something people worry about enough to have fixed it, preferably in a more elegant way than I did it...