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Subject: forcing equal aspect ratio for PLOT

Posted by [Michael Hearne](#) on Thu, 07 Aug 1997 07:00:00 GMT

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I am having some trouble forcing plot to maintain an equal aspect ratio.

For example, if you create a series of points that define a square:

```
square(0,*) = [0,0,1,1,0]
```

```
square(1,*) = [0,1,1,0,0]
```

```
plot, square(0,*),square(1,*)
```

you will get a square, with 90 degree vertices.

Now rotate this matrix (I believe this is the correct method):

```
theta = -!pi/4 ; 45 degrees
```

```
rot(0,*) = [cos(theta), -sin(theta)]
```

```
rot(1,*) = [sin(theta),cos(theta)]
```

```
newsquare = square##rot ; matrix multiplication
```

```
plot, newsquare(0,*),newsquare(1,*)
```

I get a rotated non\_square that does not have 90 degree vertices

because, I think, the x axis and y axis are not equal in length. I

measured them on my screen with a ruler. Is there some way to force the

aspect ratio for PLOT to be 1? Setting xstyle and ystyle equal to 1

does not seem to work.

Help!

-Mike Hearne

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