Creating graphics for use in AMS books and journals

AMS
AMERICAN MATHEMATICAL SOCIETY

GENERAL GUIDELINES

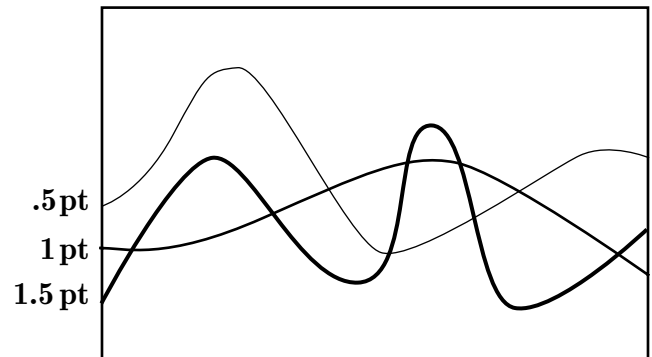- **Create graphics at 100%**

Lines and rules

- **Do not use a line/rule weight less than .5 point at 100%**

  If you must scale your figure, be sure that you compensate by making line weights thicker. A .5 point line scaled at 50% becomes a .25 point line. Line weights below .5 point disappear during the printing process.

- **Graded lines should increase in increments of .5 point (i.e.: .5 point, 1 point, 1.5 point)**

  Increments less than .5 point do not read as distinctly different lines.

- **Lines that are a shade of gray (screened) need a line weight of at least 1 point at 100%.**

  Gray lines smaller than 1 point look broken and jagged because of the small dot pattern used to simulate shades of gray.
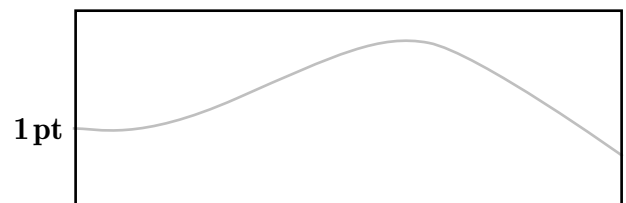
Shades of gray (screens)

- **Screens defined**

  A screen is a pattern of small black or white dots used to simulate shades of gray.

- **Shades of gray (screens) should not be lower than 15% or higher than 85%**

  Screens outside of this range are either too light or too dark to print correctly.

- **Screens should increase in increments of no less than 10%**

  Screen variations of less than 10% are not distinguishable.

- **Do not put type on top of a screen darker than 35%**

  Type on a screen that is above 35% is not legible.

- **White type can be used only on 100% black**

  White type on a gray background looks broken and jagged because a small dot pattern is used to simulate shades of gray.
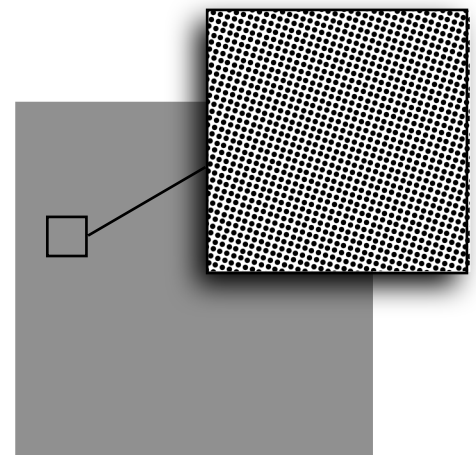
Graded lines

.5 pt
1 pt
1.5 pt

Screened line

1 pt

Dot pattern used to simulate shades of gray

Shades of gray (screens)

A	B	C	D						E
0%	15%	25%	35%	45%	55%	65%	75%	85%	100%