LINEAR CORRELATION COEFFICIENTS: $r$ and $\rho$

In these plots, $X$ and $Y$ are normally distributed random variables with mean 50 and standard deviation 10. $r$ is the sample linear correlation coefficient. (If you are considering population data, use $\rho$, the population linear correlation coefficient.)

-$r = 0.00$

-$r = 0.40$

-$r = 0.60$

-$r = 0.80$

-$r = 0.90$

-$r = 0.95$

-$r = 0.99$

-$r = 1.00$
Graphs produced using Mathematica and Microsoft Word.