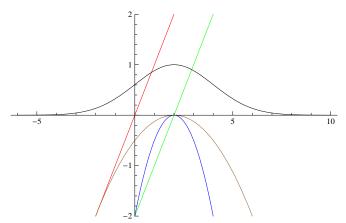
COMPONENTS OF A 1D GAUSSIAN

$$\mu = 2$$
, $\sigma = 2$



$$ightharpoonup$$
 Red: $x \mapsto x$

▶ Green:
$$x \mapsto x - \mu$$

▶ Blue:
$$x \mapsto -\frac{1}{2}(x-\mu)^2$$

▶ Brown:
$$x \mapsto -\frac{1}{2} \left(\frac{x-\mu}{\sigma} \right)^2$$

▶ Black:
$$x \mapsto \exp\left(-\frac{1}{2}\left(\frac{x-\mu}{\sigma}\right)^2\right)$$

Peter Orbanz · Statistical Machine Learning