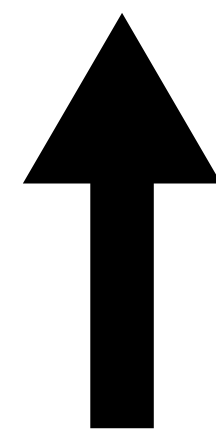


# Fenchel dual problem

$$\mathbf{u}^\star = \arg \max \left\{ \frac{1}{2} \|\mathbf{y}\|_2^2 - \frac{1}{2} \|\mathbf{y} - \mathbf{u}\|_2^2 - \frac{1}{2\gamma} \left\| \left[ \|\mathbf{A}^\top \mathbf{u}\| - \lambda \right]_+ \right\|_2^2 \right\}$$



A « different parametrization » of the Elastic-Net