

## REGULARIZERS

## Why

Often there are several good parameters for a predictor.<sup>1</sup>

## Definition

A regularizer is a nonegative function. Regularizes are sometimes called penalties.

For example, least squares predictor with a  $l_2$  regularization is called  $ridge\ regression.$ 

<sup>&</sup>lt;sup>1</sup>Future editions will include a more complete form of this sheet.

