## Boosting as a Game

- Max (column player)  $\leftrightarrow$  weak learner
- matrix M:
  - row ← training example

  - M(i,j) =  $\begin{cases} 1 & \text{if } j\text{-th weak classifier correct on } i\text{-th training example} \\ 0 & \text{else} \end{cases}$
  - encodes which weak classifiers correct on which examples
  - huge # of columns one for every possible weak classifier