## Shannon's lower bound

- ▶ Assume p<sub>T</sub> is "well behaved". For example, IID.
- ▶ Let  $T \rightarrow \infty$
- ►  $H(p) \doteq \lim_{T \to \infty} \frac{H(p_T)}{T}$  exists and is called the per character entropy of the source p