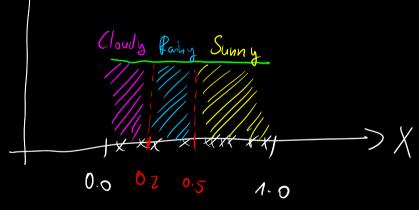
$$W \circ (at \mid Q) = \frac{D-1}{11} \Theta_{d}^{I(d=w)}$$

$$d=0$$

Sampling

Source of Randomness: Uniform Distribution



equally likely

$$4 = \begin{bmatrix} 0.2 \\ 0.5 \\ 1.0 \end{bmatrix}$$
 $4 = \begin{bmatrix} 2 \\ 0.5 \\ 0.5 \end{bmatrix}$

$$\psi_{i} = \sum_{j=0}^{i} \theta_{j}$$

Example:

$$\mathcal{D}_{x} = \{0.4, 0.9, 0.3, 0.1, 0.7, 0.5, 0.2, \dots\}$$

$$D_{w} = \{ 1, 2, 1, 0, 2, 1, 0, \dots \}$$