

Classification	Actual category			
	$Y = 1$	$Y = 2$...	$Y = g$
$Y = 1$	\checkmark	$P(\delta(\mathbf{x}) = 1 \mid Y = 2)$...	$P(\delta(\mathbf{x}) = 1 \mid Y = g)$
$Y = 2$	$P(\delta(\mathbf{x}) = 2 \mid Y = 1)$	\checkmark	...	$P(\delta(\mathbf{x}) = 2 \mid Y = g)$
\vdots	\vdots	\vdots	\ddots	\vdots
$Y = g$	$P(\delta(\mathbf{x}) = g \mid Y = 1)$	$P(\delta(\mathbf{x}) = g \mid Y = 2)$...	\checkmark