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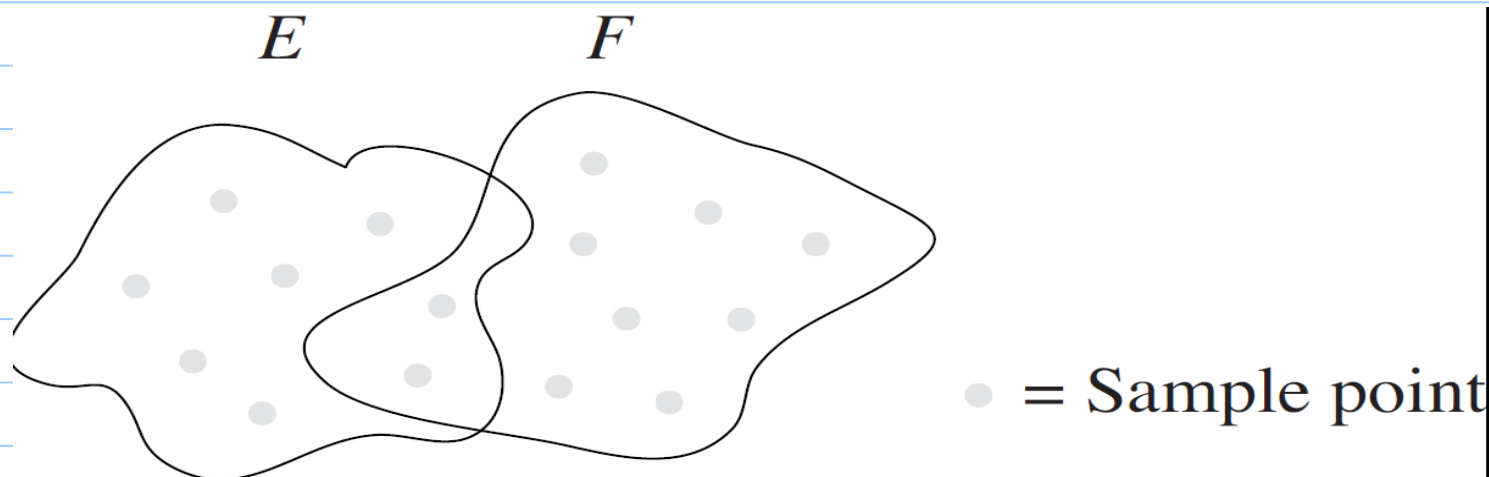
Note Title

2015-01-22

	$E_1$	$E_2$
$\Omega =$ {	(1,2)	(1,4)
	(2,2)	(2,4)
	(3,2)	(3,4)
	(4,2)	(4,4)
	(5,2)	(5,4)
	(6,2)	(6,4)

$E_1$  and  $E_2$  are mutually exclusive  
( $E_1 \cap E_2$  is empty)  
 $E_1 \cap E_2$  is false

$$P(E_1 \cup E_2) (= P(E_1 \cup E_2)) = P(E_1) + P(E_2) - P(E_1 \cap E_2)$$



Venn diagram

$P(E \cup F) \leq P(E) + P(F)$  with equality  
iff  $E$  and  $F$  are mutually exclusive.