

Small Sample. Xp~Np(Mp, Ep), XB~Np(MB, EB) EAZEBZ UNKNOWN 2 (Xn - XR) - (UD-UB) (nn + nB) spooled (XA-XB)-(MA-MB) (nath = 2) p. Fp, nath B-p-1 Sampling Dist CR: T2 S XAND(MA/EA)/XBND(MB, EB), EA + EB Statistic T2= [Xp-XB)-(MA-MB)] [SA +SB] [(Xp-XB) -(Up-Up) CR: T'SX(W)

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-		Regression Analysis
		Regression analysis is a statistical tool for investigating the relationship between a dependent variable
		and one or more independent variables.
		Example you are marketing analyst at amazon
	011	Sales. > dependent variable response
	Indeper Varial	1. / VV/CC 25 INC NEXAMONAL
-		perwen sales and
	_	000 000131119
	1	or vay 3 2 (Response Variable)
	X	5 4
1		Xi Yi
		1 4
1		2 1 3
1		3 2 2+
1		4 2 +
1		5 4
1		2345
1		
1	l-L	Simple linear account
1		<u>Simple linear</u> regression model is a model with E
	M	odel Y= Bo+B,X+E X BL Y Bo
-		43 Risponer Variable change in 1 unit of cour
		Regressor Variable change of B. unit in y
		There are often regressors influencing - B1 > Slope
		There are often regressors influencing B1 > Slope Y which we don't know. Bo > Intercept

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for given X, the corresponding observation
Y comists of Bo+BIX plus random amount E

(Xi, 4i) 4:= Bo+B, Xi+E, 121,--, n

1> Ei is a siv with zero mean and variance of (unknown)

E(Ei) = 0, var(Ei) = 0

Eil Ej are uncorrelated Cov(Ei, Ej)=0

Yi ~ N(Bo+B,Xi, 02)

Homo Adash'city

