Module 1 Mean valuebatas often compactly described by some off its Nationical properties, such as mean and In this sesson, we will explain how to compute (expense) wears of data sets he mean of a data sit, describe the average data point The man does not have to be a typoical data paint and it does not weld to be point of the data set itself. Eg qualont at a sol of unages of objects:
(See pc below): 8 8 8 8 8 he average mage looks (do the is (seepe)

Sthe properties of all amongs in data set, but it is not part of the dataset itself. we obtain he average 8 as follows: Rember, that an unage Can be represented Bon las space by stacking all pistels together (see pr); A transmitted to the control of the after handsaming all anoige, into the vectors we take all unage vectos in a date set (suppo). 8 8 8 add ham together, and deinde by wantser of chages in data set.

The green the average among rector.

The great the average hat vector into an image again we get the overage again data set.

We get the overage digit in data set.

Here is an example with 4 815. (See pe)



he mean of flat one, is just he image itself. But when we add he second image, he see that he average image now Contains properties of both image. When we add the third image, the mean image, who we are image, and there image on top of each other, durded by three.
Offer he 4th cmage, we can still see Chooderthe Offer he 4th cmage, we can still see Chooderthe Mayer (Super)

won we add more unages to (and) our dataset, he overage about be comes more blurry, see pre)	* <b>E</b>
adque tale al' 8" mage in or dataset, we get this 8 os he away amag (su pc).	
generally, if we have a data set $x_1 x_n$ :	
we get to mean value, or apected vo of his data set as follows:	
"ED= 1 to Repland of Xn  ED= N Xn	point vacant

ue from apol' data points in an clara set and dunde by number of adalaporits (N) we have

Lets lakaton Example:

A Create a dataset construg of 5 numbers Igd

when I old 5 diee: (Sept)

B={1,2,4,6,6}

hets call it I prime. The aspected value of he awage of his data set, sum of all of elements in data set, danded by number of elements in data set

E[N] = 1+2+4+6+6 = 19 6 = 5 = 3.8

we con clearly see that 3.8 is not part of detaset, and comot everise achieved by rolly a drea.

: Is not a spical in sance.

The we Calculated the mean value of datasetts,