le graystale bais To The view model used



## POORNIMA COLLEGE OF ENGINEERING

## DETAILED LECTURE NOTES

unit 2

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Color models in Digital Image processing

most common color models

FOR CREd, Green & Dlues

HSICHUE-SATURATION-Intenity)

+ concept of Additive Color model

Additive color model

- Make type of model use light which is emitted directly from a source to display colours.
- There models mixes
  different amount of
  RED, WREEN and BLUG
  to knodyce shert of wlovis
  Adding these Three
  ferimory colors shereit
  in white image

Substactive los model

Sulotractive color model
Start with an object that
Dighteeth light and unes
colorants to subbact postions
of the whate light illumination
an object to sproduce
Other colors.

Rub (olor model.

\*\* name comes from the mitials of three primary colores

Red, when a Blue. The Rub (olor models in an additive

(olor model in which sted, owner and Blue care

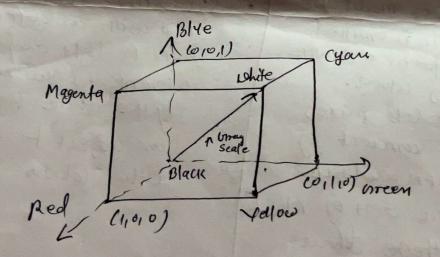
added together in various ways to suppoduce wide

Transe of (obors)

I usually, in RIB a fixel is supresented using 8 bits for each ored, Green and Blue. Equal value of these frimary 60 los defreies shade of gray colone storying from 61ack to whote.

form of a rule. The origion will be black, and the cliegonal opposite to the origion will be black.

Variety of colors can produce be kur Vector.



CMY and CMYK model -

Clour,

\* My color model in Sultractive color model in which your, magenta and yellow are mined in different ways to produce wide range of colors.

Removing destaration is a brocen of

YOMYK\_ (myk Colour model es widely used in printers. H stands for Gan, magenta & Yellow and belock. 7 H & Substractive Colour model. It is substractive model that the value is substructed from 1 to Vary from least inferre to a most iteme Colours Value,

1-RUB = CMY

cyan in negetive of Red

magenty is negetive of Green.

Yellow is negetive of Blue

4) 120 model -, 120 the most widely colour model used for television proadcasing, In black as write television, only the duritrance part was broadcast, the y value 11 Similar to the graystale part. The Colour Information is superchal by the 20 ports