NAME

XcmsTekHVCQueryMaxC, XcmsTekHVCQueryMaxV, XcmsTekHVCQueryMaxVC,
XcmsTekHVCQueryMaxVSamples, XcmsTekHVCQueryMinV - obtain the TekHVC coordinates

SYNTAX

Status XcmsTekHVCQueryMaxC(XcmsCCC *ccc*, XcmsFloat *hue*, XcmsFloat *value*, XcmsColor
  *color_return);

Status XcmsTekHVCQueryMaxV(XcmsCCC *ccc*, XcmsFloat *hue*, XcmsFloat *chroma*, XcmsColor
  *color_return);

Status XcmsTekHVCQueryMaxVC(XcmsCCC *ccc*, XcmsFloat *hue*, XcmsColor **color_return*);

Status XcmsTekHVCQueryMaxVSamples(XcmsCCC *ccc*, XcmsFloat *hue*, XcmsColor
  colors_return[], unsigned int *nsamples*);

Status XcmsTekHVCQueryMinV(XcmsCCC *ccc*, XcmsFloat *hue*, XcmsFloat *chroma*, XcmsColor
  *color_return);

ARGUMENTS

ccc   Specifies the CCC. Note that the CCC's Client White Point and White Point
                Adjustment procedures are ignored.

chroma   Specifies the chroma at which to find maximum Value (MaxV).

colors_return   Returns nsamples of color specifications in XcmsTekHVC such that the Chroma is the
                maximum attainable for the Value and Hue. The white point associated with the
                returned color specification is the Screen White Point. The value returned in the pixel
                member is undefined.

color_return   Returns the maximum Chroma along with the actual Hue and Value (MaxC),
                maximum Value along with the Hue and Chroma (MaxV), color specification in
                XcmsTekHVC for the maximum Chroma, the Value at which that maximum Chroma
                is reached and actual Hue (MaxVC) or minimum Value and the actual Hue and
                Chroma (MinL) at which the maximum Chroma (MaxC and MaxVC), maximum
                Value (MaxV), or minimum Value (MinL) was found. The white point associated
                with the returned color specification is the Screen White Point. The value returned in
                the pixel member is undefined.

hue   Specifies the Hue in which to find the maximum Chroma (MaxC and MaxVC),

maximum Value (MaxV), the maximum Chroma/Value samples (MaxVSamples), or the minimum Value (MinL).

nsamples   Specifies the number of samples.

value   Specifies the Value in which to find the maximum Chroma (MaxC) or minimum Value (MinL).

DESCRIPTION

The **XcmsTekHVCQueryMaxC** function, given a Hue and Value, determines the maximum Chroma in TekHVC color space displayable by the screen. It returns the maximum Chroma along with the actual Hue and Value at which the maximum Chroma was found.

The **XcmsTekHVCQueryMaxV** function, given a Hue and Chroma, determines the maximum Value in TekHVC color space displayable by the screen. It returns the maximum Value and the actual Hue and Chroma at which the maximum Value was found.

The **XcmsTekHVCQueryMaxVC** function, given a Hue, determines the maximum Chroma in TekHVC color space displayable by the screen and the Value at which that maximum Chroma is reached. It returns the maximum Chroma, the Value at which that maximum Chroma is reached, and the actual Hue for which the maximum Chroma was found.

The **XcmsTekHVCQueryMaxVSamples** returns nsamples of maximum Value, the Chroma at which that maximum Value is reached, and the actual Hue for which the maximum Chroma was found. These sample points may then be used to plot the maximum Value/Chroma boundary of the screen's color gamut for the specified Hue in TekHVC color space.

The **XcmsTekHVCQueryMinV** function, given a Hue and Chroma, determines the minimum Value in TekHVC color space displayable by the screen. It returns the minimum Value and the actual Hue and Chroma at which the minimum Value was found.

SEE ALSO

XcmsCIELabQueryMaxC(3), XcmsCIELuvQueryMaxC(3), XcmsQueryBlack(3)
Xlib - C Language X Interface