

Converting Colors

XYZ(33.9720, 43.2437, 80.9912)

Have a look what the booklet for
XYZ(33.9720, 43.2437, 80.9912)
contains.

XYZ(33.8717, 43.1622, 80.6746)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(33.8717, 43.1622,
80.6746)**

Conversions

Conversions Part 1

Format	Color
Hex	32BEE5
RGB	50, 190, 229
RGB Percent	20%, 75%, 90%
CMY	0.8039, 0.2549, 0.1020
CMYK	0.78, 0.17, 0.00, 0.10
HSL	193°, 77%, 55%
HSV	193°, 78%, 90%
XYZ	33.8717, 43.1622, 80.6746
YIQ	152.5860, -95.9590, -17.5510

Conversions

Conversions Part 2

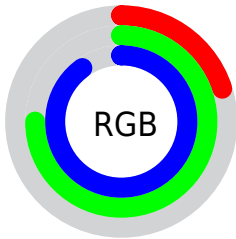
Format	Color
R _{YB}	50, 129, 229
Decimal	3325669
CIE _{Lab}	71.66, -23.38, -29.83
CIE _{LCh}	72, 37.899, 231.915
Y _{xy}	43.1622, 0.2148, 0.2737
Android (android.graphics.Color)	4281515749 (0xFF32BEE5)
YUV	152.5860, 37.6721, -89.9679
Hunter-Lab	65.6979, -22.9427, -26.8173

Details

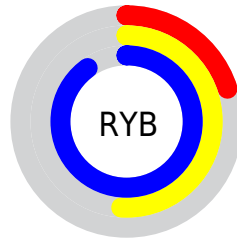
The XYZ color **33.8717, 43.1622, 80.6746** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light washed azure. A complement of this color would be **36.4629, 24.0355, 5.7368**, and the grayscale version is **29.9725, 31.5334, 34.3399**.

A 20% lighter version of the original color is **59.3179, 77.4166, 106.4243**, and **16.3470, 20.6254, 42.6547** is the 20% darker color. If you saturate the color by 10%, you get **31.9497, 40.5952, 80.2813**, and if you desaturate by 10%, it is **36.3976, 46.0971, 81.1088**.

Distribution



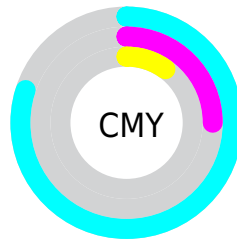
- Red (20%)
- Green (75%)
- Blue (90%)



- Red (20%)
- Yellow (51%)
- Blue (90%)



- Cyan (78%)
- Magenta (17%)
- Yellow (0%)
- Black (10%)



- Cyan (80%)
- Magenta (25%)
- Yellow (10%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 33.8717, 43.1622, 80.6746 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 33.8717, 43.1622, 80.6746 by changing the saturation by 10% instead.

■ 33.8717, 43.1622,
80.6746

■ 33.8717, 43.1622,
80.6746

311.1556,
359.2784, 516.9700

■ 22.9575, 30.0124,
59.7442

■ 65.0797, 79.9556,
136.1337

■ 14.6826, 19.8480,
42.7885

■ 86.1042, 104.3679,
171.4995

■ 8.6818, 12.2846,
29.3891

■ 111.2295,
133.3033, 212.5142

■ 4.5897, 6.9378,
19.1272

■ 140.8210,
167.1460, 259.5964

■ 2.0408, 3.4232,
11.5845

■ 175.2440,
206.2804, 313.1645

■ 0.6567, 1.3565,
6.3423

214.8638,

■ 0.0000, 0.1843,

251.0911, 373.6371

2.9822

260.0459,
301.9623, 441.4327

■ 0.0000, 0.0000,
1.0856

■ 0.0000, 0.0000,
0.0000

■ 33.8717, 43.1622,
80.6746

■ 33.8717, 43.1622,
80.6746

■ 31.9497, 40.5952,
80.2813

■ 36.3976, 46.0971,
81.1088

■ 30.5218, 38.3364,
79.9205

■ 39.5975, 49.4341,
81.5843

■ 30.2842, 37.9396,
79.8565

■ 43.5362, 53.2080,
82.1051

■ 48.2693, 57.4479,
82.6740

■ 53.8472, 62.1803,
83.2935

■ 60.3157, 67.4294,
83.9657

■ 67.7174, 73.2176,
84.6929

■ 76.0920, 79.5659,
85.4768

■ 85.0653, 86.2817,
86.3001

Harmonies

Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



30.6051, 43.1622, 61.4642



33.8717, 43.1622, 80.6746



39.3127, 43.1622, 91.4047

Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



33.8717, 43.1622, 80.6746



54.4993, 43.1622, 52.1455



36.5875, 43.1622, 21.2369

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



33.8717, 43.1622, 80.6746



36.4629, 24.0355, 5.7368

Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



42.7850, 43.1622, 19.9657



33.8717, 43.1622, 80.6746



53.5749, 43.1622, 34.9980

Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



33.8717, 43.1622, 80.6746



51.5274, 43.1622, 72.3487



49.1191, 43.1622, 24.3012



32.0554, 43.1622, 28.3891

Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



33.8717, 43.1622, 80.6746



43.6261, 43.1622, 90.7668



49.1191, 43.1622, 24.3012



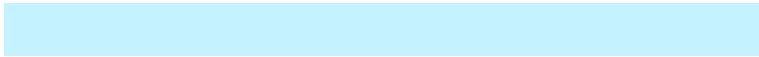
38.5282, 43.1622, 20.1985

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



33.8731, 43.1637, 80.6757



72.7241, 82.6387, 106.7256



31.1303, 57.4355, 18.8515



14.9401, 17.1765, 22.7779



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



33.8731, 43.1637, 80.6757



39.5543, 49.9288, 102.1602



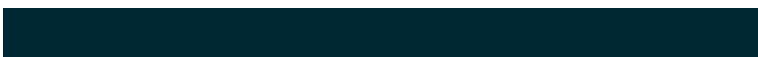
20.0864, 15.5902, 76.0801



14.5270, 15.7754, 18.4236



17.4070, 21.8762, 45.6882



1.3526, 1.7491, 3.3983

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



42.7492, 22.6585, 50.8371



52.1675, 25.9112, 58.6100



48.8673, 48.8442, 9.8715



14.8536, 14.5586, 17.4295



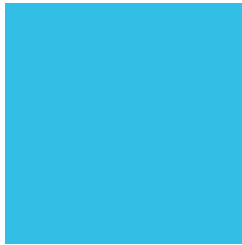
23.1798, 11.4061, 25.6394



1.7463, 0.8562, 2.0707

Previews

White Background



This preview shows how the XYZ color 33.8717, 43.1622, 80.6746 looks on a white background.

Color Contrast Check

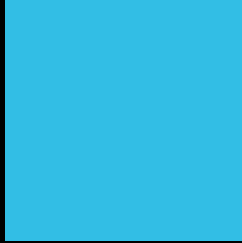
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 33.8717, 43.1622, 80.6746 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

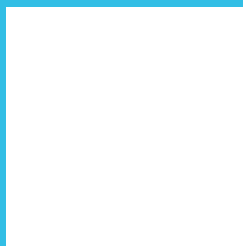
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 33.8717, 43.1622, 80.6746

Background



This preview shows how black text looks on a background with the XYZ color 33.8717, 43.1622, 80.6746.



This preview shows how white text looks on a background with the XYZ color 33.8717, 43.1622,

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

33.8717, 43.1622, 80.6746

Protanopia

42.4570, 42.3554, 70.9034

Deuteranopia

43.5611, 42.6573, 83.0286



Tritanopia

31.0306, 42.9764, 66.9814

Trichromacy



Original Color

33.8717, 43.1622, 80.6746

Protanomaly

37.3396, 41.6716, 74.4820

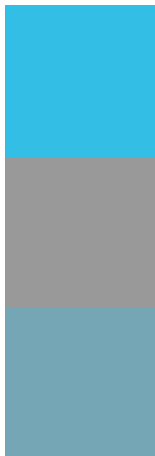
Deuteranomaly

38.2933, 41.9883, 82.4302

Tritanomaly

31.9374, 43.0145, 71.5851

Monochromacy



Original Color

33.8717, 43.1622, 80.6746

Achromatopsia

30.2779, 31.8547, 34.6897

Achromatomaly

29.1792, 34.3216, 48.8029

CSS Examples

Text

The CSS property to change the color of the text to XYZ 33.8717, 43.1622, 80.6746 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(50, 190, 229)` looks like.

```
.text, #text, p{  
    color:rgb(50, 190, 229)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(50, 190, 229) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(50, 190, 229) }
```

Border

The CSS property to change the border of an element to XYZ 33.8717, 43.1622, 80.6746 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(50, 190, 229) }
```


If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(50, 190, 229) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(50, 190, 229)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(50, 190, 229); -webkit-box-  
shadow:4px 4px 4px 4px rgb(50, 190, 229);  
box-shadow:4px 4px 4px 4px rgb(50, 190,  
229) }
```

Background

The CSS property to change the background color of an element to XYZ 33.8717, 43.1622, 80.6746 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(50, 190, 229) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(50, 190,  
229) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor