

Converting Colors

XYZ(37.8316, 46.6401, 89.7774)

Have a look what the booklet for
XYZ(37.8316, 46.6401, 89.7774)
contains.

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Color

**XYZ(37.7691, 46.6236,
89.4467)**

Conversions

Conversions Part 1

Format	Color
Hex	46C3F0
RGB	70, 195, 240
RGB Percent	27%, 76%, 94%
CMY	0.7254, 0.2353, 0.0588
CMYK	0.71, 0.19, 0.00, 0.06
HSL	196°, 85%, 61%
HSV	196°, 71%, 94%
XYZ	37.7691, 46.6236, 89.4467
YIQ	162.7550, -88.9450, -12.5050

Conversions

Conversions Part 2

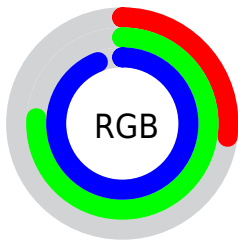
Format	Color
R _{YB}	70, 142, 240
Decimal	4637680
CIE Lab	73.95, -20.11, -32.23
CIE LCh	74, 37.990, 238.032
Yxy	46.6236, 0.2173, 0.2682
Android (android.graphics.Color)	4282827760 (0xFF46C3F0)
YUV	162.7550, 38.0818, -81.3461
Hunter-Lab	68.2815, -20.7574, -29.8711

Details

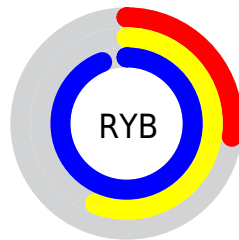
The XYZ color **37.7691, 46.6236, 89.4467** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light washed cyan. A complement of this color would be **43.1733, 31.2316, 9.5491**, and the grayscale version is **34.5557, 36.3553, 39.5909**.

A 20% lighter version of the original color is **63.3416, 82.2441, 107.1440**, and **18.1766, 22.5104, 48.7343** is the 20% darker color. If you saturate the color by 10%, you get **34.9779, 43.1170, 88.9179**, and if you desaturate by 10%, it is **41.3153, 50.6110, 90.0304**.

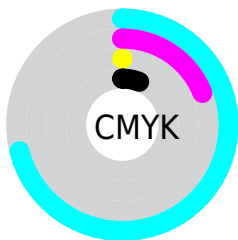
Distribution



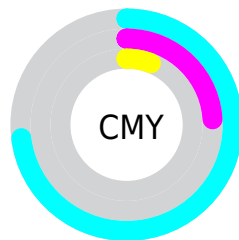
- Red (27%)
- Green (76%)
- Blue (94%)



- Red (27%)
- Yellow (56%)
- Blue (94%)



- Cyan (71%)
- Magenta (19%)
- Yellow (0%)
- Black (6%)



- Cyan (73%)
- Magenta (24%)
- Yellow (6%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 37.7691, 46.6236, 89.4467 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 37.7691, 46.6236, 89.4467 by changing the saturation by 10% instead.

37.7691, 46.6236,
89.4467

37.7691, 46.6236,
89.4467

327.9264,
373.3101, 546.7529

25.9799, 32.7382,
66.9507

71.0603, 85.1515,
148.4984

16.9412, 21.9260,
48.5832

93.2930, 110.5628,
185.8912

10.2876, 13.8025,
33.9257

119.7376,
140.5848, 229.0866

5.6538, 7.9834,
22.5596

150.7594,
175.6020, 278.5033

2.6744, 4.0843,
14.0665

186.7239,
215.9987, 334.5597

0.9840, 1.7209,
8.0276

227.9963,

0.0000, 0.4371,

262.1594, 397.6744

4.0246

274.9420,
314.4684, 468.2660

■ 0.0000, 0.0000,
1.6388

■ 0.0000, 0.0000,
0.3183

■ 37.7691, 46.6236,
89.4467

■ 37.7691, 46.6236,
89.4467

■ 34.9779, 43.1170,
88.9179

■ 41.3153, 50.6110,
90.0304

■ 32.8482, 40.0395,
88.4361

■ 45.6861, 55.1137,
90.6691

■ 31.3459, 37.5265,
88.0302

■ 50.9480, 60.1678,
91.3673

■ 57.1591, 65.8043,
92.1279

64.3724, 72.0516,
92.9536

72.6368, 78.9360,
93.8468

81.9981, 86.4820,
94.8099

89.8718, 93.3582,
95.7222

91.8356, 97.2859,
96.3768

Harmonies

Analogous

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



33.7819, 46.6236, 70.3938



37.7691, 46.6236, 89.4467



43.8684, 46.6236, 97.9228

Triad

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



37.7691, 46.6236, 89.4467



58.6496, 46.6236, 52.0573



38.4700, 46.6236, 24.4421

Complementary

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



37.7691, 46.6236, 89.4467



43.1733, 31.2316, 9.5491

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.



44.7632, 46.6236, 21.8635



37.7691, 46.6236, 89.4467



56.8358, 46.6236, 35.1734

Square

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



37.7691, 46.6236, 89.4467



56.3093, 46.6236, 73.1897



51.5752, 46.6236, 25.2377



34.1566, 46.6236, 33.4641

Rectangle

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



37.7691, 46.6236, 89.4467



48.4701, 46.6236, 95.1443



51.5752, 46.6236, 25.2377



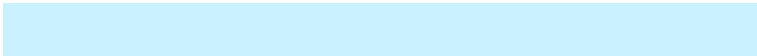
40.4031, 46.6236, 22.9123

Sweetspot

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



37.7707, 46.6253, 89.4478



73.6620, 82.5068, 106.6507



36.6401, 64.8046, 26.0556



15.2522, 17.2204, 22.7699



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.



37.7707, 46.6253, 89.4478



38.9667, 47.8530, 101.7905



24.1055, 19.2948, 84.8928



15.8728, 17.1796, 20.2010



17.2736, 20.7715, 48.2268



1.5179, 1.8897, 4.0390

Inverse Universe

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



47.9771, 26.8475, 54.2847



52.0908, 26.7221, 55.6110



57.1223, 59.1295, 14.1987



16.2652, 15.9558, 18.9529



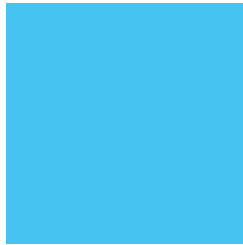
24.0445, 11.8902, 23.9489



2.0411, 1.0055, 2.2072

Previews

White Background



This preview shows how the XYZ color 37.7691, 46.6236, 89.4467 looks on a white background.

Color Contrast Check

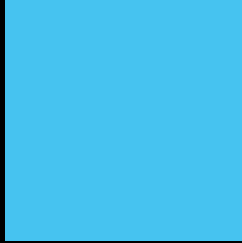
Large Text (above 18pt) WCAG AA × Fail

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 37.7691, 46.6236, 89.4467 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 37.7691, 46.6236, 89.4467

Background



This preview shows how black text looks on a background with the XYZ color 37.7691, 46.6236, 89.4467.



This preview shows how white text looks on a background with the XYZ color 37.7691, 46.6236,

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

37.7691, 46.6236, 89.4467

Protanopia

46.2721, 46.1665, 79.8710

Deuteranopia

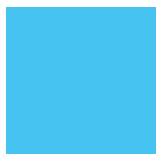
47.1498, 46.0538, 91.9922



Tritanopia

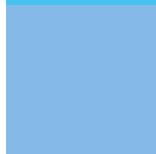
34.1574, 46.5100, 71.4670

Trichromacy



Original Color

37.7691, 46.6236, 89.4467



Protanomaly

41.4302, 45.4297, 82.9291



Deuteranomaly

42.3714, 45.4192, 91.3276



Tritanomaly

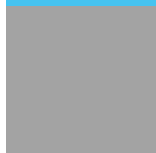
35.4523, 46.6998, 77.6664

Monochromacy



Original Color

37.7691, 46.6236, 89.4467



Achromatopsia

34.8123, 36.6253, 39.8849



Achromatomaly

33.7872, 39.0887, 55.0543

CSS Examples

Text

The CSS property to change the color of the text to XYZ 37.7691, 46.6236, 89.4467 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(70, 195, 240)` looks like.

```
.text, #text, p{  
    color:rgb(70, 195, 240)  
}
```

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(70, 195, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 195, 240) }
```

Border

The CSS property to change the border of an element to XYZ 37.7691, 46.6236, 89.4467 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(70, 195, 240) }
```


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

```
.border{ border-color:rgb(70, 195, 240) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 195, 240)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 195, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 195, 240);  
box-shadow:4px 4px 4px 4px rgb(70, 195,  
240) }
```

Background

The CSS property to change the background color of an element to XYZ 37.7691, 46.6236, 89.4467 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 195, 240) }
```

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

```
.background{ background-color: rgb(70, 195,  
240) }
```

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](#).

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