

Converting Colors

XYZ(37.8292, 42.8773,
100.8901)

Have a look what the booklet for
XYZ(37.8292, 42.8773, 100.8901)
contains.

XYZ(37.7890, 42.8406, 100.8851)	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(37.7890, 42.8406,
100.8851)**

Conversions

Conversions Part 1

Format	Color
Hex	47B8FF
RGB	71, 184, 255
RGB Percent	28%, 72%, 100%
CMY	0.7215, 0.2784, 0.0000
CMYK	0.72, 0.28, 0.00, 0.00
HSL	203°, 100%, 64%
HSV	203°, 72%, 100%
XYZ	37.7890, 42.8406, 100.8851
YIQ	158.3070, -90.1390, -1.8750

Conversions

Conversions Part 2

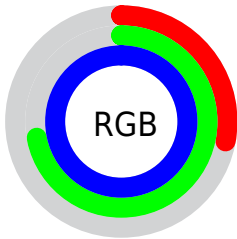
Format	Color
R _Y B	71, 141, 255
Decimal	4700415
CIE Lab	71.45, -9.27, -44.21
CIE LCh	71, 45.169, 258.162
Yxy	42.8406, 0.2082, 0.2360
Android (android.graphics.Color)	4282890495 (0xFF47B8FF)
YUV	158.3070, 47.6696, -76.5682
Hunter-Lab	65.4527, -11.4857, -45.5693

Details

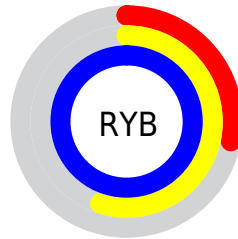
The XYZ color **37.7890, 42.8406, 100.8851** is a light color, and the websafe version is hex **66CCFF**. The color can be described as light washed azure. A complement of this color would be **52.0522, 41.0640, 11.1460**, and the grayscale version is **32.4604, 34.1509, 37.1903**.

A 20% lighter version of the original color is **60.0253, 75.1156, 105.9428**, and **18.3093, 20.3098, 56.3813** is the 20% darker color. If you saturate the color by 10%, you get **34.3223, 38.1244, 100.1575**, and if you desaturate by 10%, it is **42.1846, 48.2481, 101.6972**.

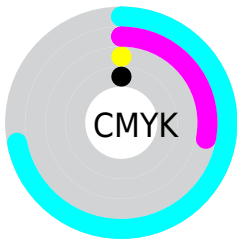
Distribution



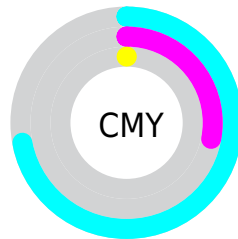
- Red (28%)
- Green (72%)
- Blue (100%)



- Red (28%)
- Yellow (55%)
- Blue (100%)



- Cyan (72%)
- Magenta (28%)
- Yellow (0%)
- Black (0%)



- Cyan (72%)
- Magenta (28%)
- Yellow (0%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 37.7890, 42.8406, 100.8851 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 37.7890, 42.8406, 100.8851 by changing the saturation by 10% instead.

■ 37.7890, 42.8406,
100.8851

■ 37.7890, 42.8406,
100.8851

328.0105,
357.9558, 584.2976

■ 25.9954, 29.7601,
76.4189

■ 71.0906, 79.4703,
164.4355

■ 16.9529, 19.6565,
56.2674

■ 93.3293, 103.7882,
204.3567

■ 10.2960, 12.1456,
40.0119

■ 119.7805,
132.6207, 250.2668

■ 5.6594, 6.8429,
27.2340

■ 150.8095,
166.3522, 302.5841

■ 2.6778, 3.3641,
17.5150

186.7816,
205.3670, 361.7273

■ 0.9858, 1.3246,
10.4365

228.0623,

■ 0.0000, 0.1602,

250.0497, 428.1150

5.5800

275.0168,
300.7845, 502.1655

■ 0.0000, 0.0000,
2.5268

■ 0.0000, 0.0000,
0.8543

■ 37.7890, 42.8406,
100.8851

■ 37.7890, 42.8406,
100.8851

■ 34.3223, 38.1244,
100.1575

■ 42.1846, 48.2481,
101.6972

■ 31.6720, 34.0353,
99.5079

■ 47.5952, 54.3933,
102.5982

■ 30.0394, 31.1988,
99.0465

■ 54.1005, 61.3222,
103.5927

■ 61.7708, 69.0748,
104.6848

70.6701, 77.6879,
105.8783

80.8575, 87.1957,
107.1766

92.3879, 97.6302,
108.5829

95.0500, 100.0000,
108.9000

Harmonies

Analogous

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



31.7142, 42.8406, 85.3711



37.7890, 42.8406, 100.8851



45.4542, 42.8406, 98.8962

Triad

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



37.7890, 42.8406, 100.8851



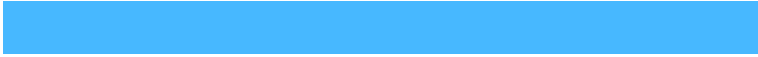
56.2717, 42.8406, 34.7605



30.7572, 42.8406, 23.8980

Complementary

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



37.7890, 42.8406, 100.8851



52.0522, 41.0640, 11.1460

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.



36.3240, 42.8406, 17.0748



37.7890, 42.8406, 100.8851



51.2842, 42.8406, 21.8645

Square

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



37.7890, 42.8406, 100.8851



56.7919, 42.8406, 55.7856



43.7960, 42.8406, 16.4694



28.0062, 42.8406, 38.5637

Rectangle

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



37.7890, 42.8406, 100.8851



50.4500, 42.8406, 87.9832



43.7960, 42.8406, 16.4694



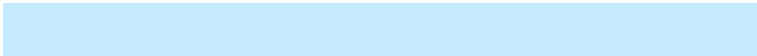
32.3269, 42.8406, 20.8381

Sweetspot

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



37.7904, 42.8420, 100.8853



70.8153, 77.8258, 105.8973



43.2075, 74.7993, 37.5712



14.6130, 16.1386, 22.5948



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.



37.7904, 42.8420, 100.8853



32.9430, 36.0678, 99.8332



24.5180, 16.2973, 96.4612



17.9318, 19.2352, 23.0176



15.8454, 16.6003, 51.8036



1.6488, 1.8282, 5.0793

Inverse Universe

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



52.1460, 29.2288, 48.2420



48.9863, 25.2354, 40.0184



71.6682, 80.2961, 17.6847



18.4782, 18.1746, 21.1355



24.7862, 12.4038, 18.0565



2.4668, 1.2291, 2.0397

Previews

White Background



This preview shows how the XYZ color 37.7890, 42.8406, 100.8851 looks on a white background.

Color Contrast Check

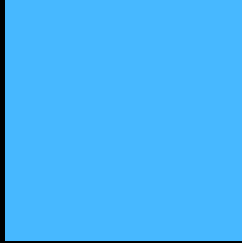
Large Text (above 18pt) WCAG AA × Fail

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 37.7890, 42.8406, 100.8851 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

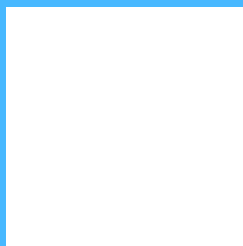
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 37.7890, 42.8406, 100.8851

Background



This preview shows how black text looks on a background with the XYZ color 37.7890, 42.8406, 100.8851.

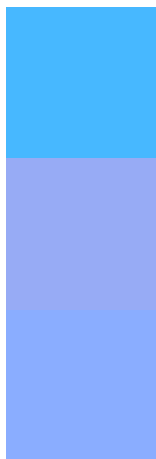


This preview shows how white text looks on a background with the XYZ color 37.7890, 42.8406,

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

37.7890, 42.8406, 100.8851

Protanopia

43.8068, 42.2977, 92.2416

Deuteranopia

43.4748, 42.5104, 100.5217



Tritanopia

30.9340, 42.9409, 66.3325

Trichromacy



Original Color

37.7890, 42.8406, 100.8851

Protanomaly

40.6503, 42.0278, 95.5922

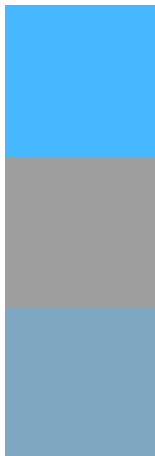
Deuteranomaly

40.7116, 42.2417, 100.6155

Tritanomaly

33.0428, 42.7986, 77.7536

Monochromacy



Original Color

37.7890, 42.8406, 100.8851

Achromatopsia

32.4990, 34.1914, 37.2345

Achromatomaly

32.0485, 35.9233, 55.6968

CSS Examples

Text

The CSS property to change the color of the text to XYZ 37.7890, 42.8406, 100.8851 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(71, 184, 255)` looks like.

```
.text, #text, p{  
    color:rgb(71, 184, 255)  
}
```

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(71, 184, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 184, 255) }
```

Border

The CSS property to change the border of an element to XYZ 37.7890, 42.8406, 100.8851 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(71, 184, 255) }
```


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

```
.border{ border-color:rgb(71, 184, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(71, 184, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 184, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 184, 255);  
box-shadow:4px 4px 4px 4px rgb(71, 184,  
255) }
```

Background

The CSS property to change the background color of an element to XYZ 37.7890, 42.8406, 100.8851 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 184, 255) }
```

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

```
.background{ background-color: rgb(71, 184,  
255) }
```

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