

# Converting Colors

XYZ(37.1775, 46.7715, 97.4286)

Have a look what the booklet for  
XYZ(37.1775, 46.7715, 97.4286)  
contains.

<b>XYZ(37.2216, 46.8346, 97.5207)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(37.2216, 46.8346,  
97.5207)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00C5FA
RGB	0, 197, 250
RGB Percent	0%, 77%, 98%
CMY	0.9997, 0.2274, 0.0196
CMYK	1.00, 0.21, 0.00, 0.02
HSL	193°, 100%, 49%
HSV	193°, 100%, 98%
XYZ	37.2216, 46.8346, 97.5207
YIQ	144.1390, -134.4250, -25.2810

# Conversions

## Conversions Part 2

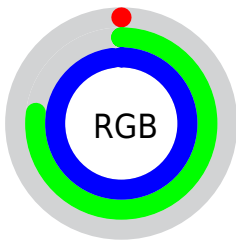
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 110, 250
Decimal	50682
CIELab	74.08, -22.48, -37.47
CIELCh	74, 43.697, 239.035
Yxy	46.8346, 0.2050, 0.2579
Android (android.graphics.Color)	4278240762 (0xFF00C5FA)
YUV	144.1390, 52.1895, -126.4099
Hunter-Lab	68.4358, -22.6782, -36.5829

# Details

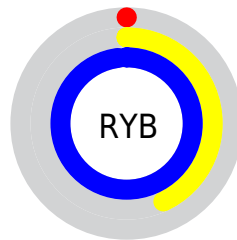
The XYZ color **37.2216, 46.8346, 97.5207** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light saturated cyan. A complement of this color would be **40.7018, 22.8776, 2.2728**, and the grayscale version is **26.4102, 27.7856, 30.2585**.

A 20% lighter version of the original color is **60.3019, 81.6143, 107.1826**, and **19.4481, 23.4952, 53.9621** is the 20% darker color. If you saturate the color by 10%, you get **37.2185, 46.8283, 97.5206**, and if you desaturate by 10%, it is **38.8502, 49.4936, 97.9491**.

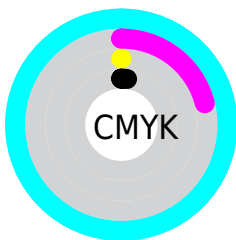
# Distribution



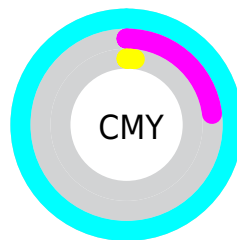
- Red (0%)
- Green (77%)
- Blue (98%)



- Red (0%)
- Yellow (43%)
- Blue (98%)



- Cyan (100%)
- Magenta (21%)
- Yellow (0%)
- Black (2%)



- Cyan (100%)
- Magenta (23%)
- Yellow (2%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.2216, 46.8346, 97.5207 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 37.2216, 46.8346, 97.5207 by changing the saturation by 10% instead.



37.2216, 46.8346,  
97.5207

37.2216, 46.8346,  
97.5207

325.6078,  
374.1539, 573.3928

25.5536, 32.9049,  
73.6263

70.2251, 85.4667,  
159.7679

16.6209, 22.0536,  
53.9933

92.2913, 110.9379,  
198.9578

10.0582, 13.8963,  
38.2032

118.5542,  
141.0250, 244.0832

5.5001, 8.0486,  
25.8373

149.3793,  
176.1125, 295.5627

2.5813, 4.1260,  
16.4773

185.1318,  
216.5848, 353.8149

0.9364, 1.7443,  
9.7045

226.1772,

0.0000, 0.4521,

262.8262, 419.2583

5.1005

272.8807,  
315.2211, 492.3114

■ 0.0000, 0.0000,  
2.2466

■ 0.0000, 0.0000,  
0.7010

■ 37.2216, 46.8346,  
97.5207

■ 37.2216, 46.8346,  
97.5207

■ 37.2185, 46.8283,  
97.5206

■ 38.8502, 49.4936,  
97.9491

■ 41.0345, 52.5018,  
98.4146

■ 43.9341, 55.9428,  
98.9259

■ 47.6451, 59.8669,  
99.4878

■ 52.2485, 64.3163,  
100.1040

■ 57.8147, 69.3280,  
100.7779

■ 64.4073, 74.9352,  
101.5128

■ 72.0839, 81.1684,  
102.3113

■ 80.8979, 88.0555,  
103.1761

# Harmonies

## Analogous

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



32.6256, 46.8346, 74.8666



37.2216, 46.8346, 97.5207



44.2623, 46.8346, 107.2698

# Triad

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



37.2216, 46.8346, 97.5207



61.2954, 46.8346, 51.7232



37.6120, 46.8346, 21.8612

# Complementary

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



37.2216, 46.8346, 97.5207



40.7018, 22.8776, 2.2728

# 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.



44.7684, 46.8346, 18.9310



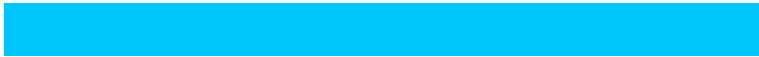
37.2216, 46.8346, 97.5207



58.9899, 46.8346, 32.8280

# Square

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



37.2216, 46.8346, 97.5207



58.6851, 46.8346, 76.5000



52.7036, 46.8346, 22.2759



32.8317, 46.8346, 31.9009



# Rectangle

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



37.2216, 46.8346, 97.5207



49.5985, 46.8346, 103.4620



52.7036, 46.8346, 22.2759



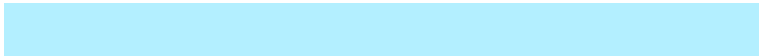
39.7911, 46.8346, 20.1695

# Sweetspot

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



37.2232, 46.8362, 97.5219



67.3264, 78.3470, 106.1817



34.7640, 68.6033, 14.4342



13.7594, 16.2233, 22.6562



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

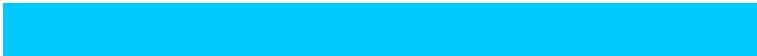


# Same Dimension

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



37.2232, 46.8362, 97.5219



38.9191, 48.9581, 102.0064



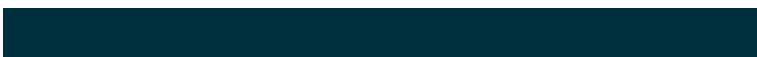
19.7763, 11.9423, 91.7062



17.4351, 18.9470, 22.1235



19.8503, 25.0562, 51.7637



1.9138, 2.4712, 4.8193



# Inverse Universe

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



49.5039, 24.3572, 54.9169



51.7737, 25.4735, 57.3999



54.7598, 50.9937, 6.9588



17.8261, 17.4578, 20.9402



26.3115, 12.9403, 29.4127

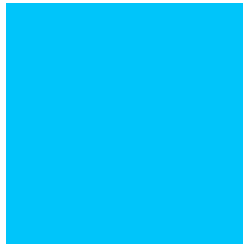


2.4749, 1.2137, 2.9242



# Previews

## White Background



This preview shows how the XYZ color 37.2216, 46.8346, 97.5207 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

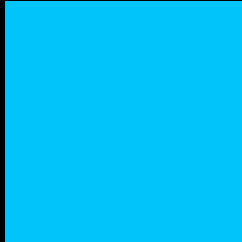
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.2216, 46.8346, 97.5207 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

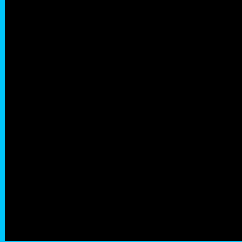
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 37.2216, 46.8346, 97.5207**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.2216, 46.8346, 97.5207.



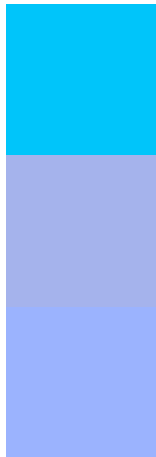
This preview shows how white text looks on a background with the XYZ color 37.2216, 46.8346,



# 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

37.2216, 46.8346, 97.5207

### Protanopia

46.7775, 46.2957, 85.8274

### Deuteranopia

47.5271, 46.3645, 100.2102



## Tritanopia

33.4110, 46.7830, 72.9147

# Trichromacy



## Original Color

37.2216, 46.8346, 97.5207



## Protanomaly

39.2618, 44.4719, 89.7337



## Deuteranomaly

40.4341, 44.8623, 99.4567



## Tritanomaly

34.7971, 46.9657, 81.3600

# Monochromacy



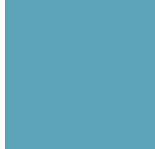
## Original Color

37.2216, 46.8346, 97.5207



## Achromatopsia

26.5089, 27.8894, 30.3716



## Achromatomaly

26.0581, 31.8886, 49.5815

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.2216, 46.8346, 97.5207 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(0, 197, 250)` looks like.

```
.text, #text, p{  
    color:rgb(0, 197, 250)  
}
```

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(0, 197, 250) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 197, 250) }
```

## Border

The CSS property to change the border of an element to XYZ 37.2216, 46.8346, 97.5207 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(0, 197, 250) }
```



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

```
.border{ border-color:rgb(0, 197, 250) }
```

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

Here you see how a box with a 4 pixel rgb(0, 197, 250) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 197, 250); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 197, 250);  
box-shadow:4px 4px 4px 4px rgb(0, 197,  
250) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.2216, 46.8346, 97.5207 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 197, 250) }
```

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

```
.background{ background-color: rgb(0, 197,  
250) }
```

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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