

# Converting Colors

XYZ(31.8842, 39.9968,  
200.1536)

Have a look what the booklet for  
XYZ(31.8842, 39.9968, 200.1536)  
contains.

<b>XYZ(36.8996, 44.9193, 101.3332)</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(36.8996, 44.9193,  
101.3332)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00C0FF
RGB	0, 192, 255
RGB Percent	0%, 75%, 100%
CMY	0.9997, 0.2470, 0.0000
CMYK	1.00, 0.25, 0.00, 0.00
HSL	195°, 100%, 50%
HSV	195°, 100%, 100%
XYZ	36.8996, 44.9193, 101.3332
YIQ	141.7740, -134.6550, -21.1110

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 110, 255
Decimal	49407
CIELab	72.84, -18.17, -42.10
CIELCh	73, 45.851, 246.649
Yxy	44.9193, 0.2015, 0.2453
Android (android.graphics.Color)	4278239487 (0xFF00C0FF)
YUV	141.7740, 55.8204, -124.3358
Hunter-Lab	67.0219, -19.0132, -42.7278

# Details

The XYZ color **36.8996, 44.9193, 101.3332** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light saturated cyan. A complement of this color would be **43.0217, 24.8228, 2.5258**, and the grayscale version is **25.4556, 26.7812, 29.1648**.

A 20% lighter version of the original color is **58.5568, 77.9322, 106.5639**, and **19.4257, 22.5425, 56.7534** is the 20% darker color. If you saturate the color by 10%, you get **36.8963, 44.9126, 101.3321**, and if you desaturate by 10%, it is **38.7287, 47.9612, 101.8240**.

# Distribution



- Red (0%)
- Green (75%)
- Blue (100%)



- Red (0%)
- Yellow (43%)
- Blue (100%)



- Cyan (100%)
- Magenta (25%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (25%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.8996, 44.9193, 101.3332 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 36.8996, 44.9193, 101.3332 by changing the saturation by 10% instead.



36.8996, 44.9193,  
101.3332

36.8996, 44.9193,  
101.3332

324.2387,  
366.4466, 585.7418

25.3031, 31.3939,  
76.7913

69.7332, 82.5993,  
165.0559

16.4329, 20.8990,  
56.5711

91.7009, 107.5227,  
205.0739

9.9238, 13.0502,  
40.2539

117.8565,  
137.0141, 251.0876

5.4104, 7.4631,  
27.4213

148.5652,  
171.4581, 303.5156

2.5272, 3.7534,  
17.6546

184.1925,  
211.2389, 362.7765

0.9090, 1.5366,  
10.5355

225.1035,

0.0000, 0.3143,

256.7410, 429.2888

5.6452

271.6638,  
308.3488, 503.4711

■ 0.0000, 0.0000,  
2.5653

■ 0.0000, 0.0000,  
0.8745

■ 36.8996, 44.9193,  
101.3332

■ 36.8996, 44.9193,  
101.3332

■ 36.8963, 44.9126,  
101.3321

■ 38.7287, 47.9612,  
101.8240

■ 41.1559, 51.3997,  
102.3597

■ 44.3472, 55.3223,  
102.9487

■ 48.4042, 59.7822,  
103.5957

■ 53.4119, 64.8243,  
104.3050

■ 59.4447, 70.4880,  
105.0802

■ 66.5695, 76.8087,  
105.9247

■ 74.8470, 83.8188,  
106.8415

■ 84.3337, 91.5481,  
107.8334

# Harmonies

## Analogous

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



31.5340, 44.9193, 80.0919



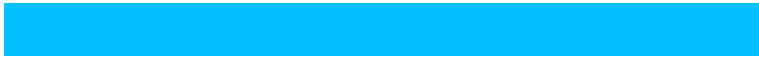
36.8996, 44.9193, 101.3332



44.4951, 44.9193, 106.7948

# Triad

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



36.8996, 44.9193, 101.3332



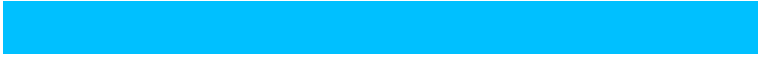
59.8116, 44.9193, 43.9977



34.1785, 44.9193, 21.4558

# Complementary

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



36.8996, 44.9193, 101.3332



43.0217, 24.8228, 2.5258

# 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.



40.9431, 44.9193, 16.9682



36.8996, 44.9193, 101.3332



56.2190, 44.9193, 27.0969

# Square

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



36.8996, 44.9193, 101.3332



58.3796, 44.9193, 68.4659



49.0663, 44.9193, 18.6513



30.1051, 44.9193, 33.4842



# Rectangle

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



36.8996, 44.9193, 101.3332



49.9495, 44.9193, 99.6064



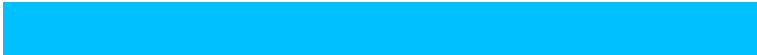
49.0663, 44.9193, 18.6513



36.1783, 44.9193, 19.2189

# Sweetspot

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



36.9010, 44.9207, 101.3334



66.5480, 76.7901, 105.9223



36.5648, 71.8420, 16.1532



13.5720, 15.8484, 22.5937



0.0000, 0.0000, 0.0000

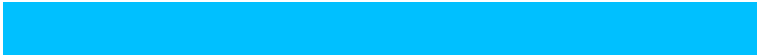


20.3446, 21.4041, 23.3091



# Same Dimension

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



36.9010, 44.9207, 101.3334



36.8963, 44.9126, 101.3321



20.1212, 11.3610, 95.7401



18.1523, 19.6763, 23.0911



19.4030, 23.7156, 52.9895



1.9751, 2.4809, 5.1880



# Inverse Universe

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



50.7555, 25.0674, 52.0339



50.7527, 25.0651, 52.0234



59.0147, 56.8089, 7.8568



18.5895, 18.2191, 21.7217



26.5820, 13.1221, 27.5127

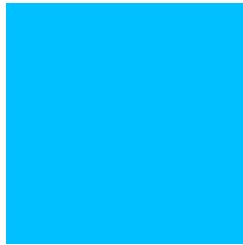


2.6316, 1.2950, 2.9072



# Previews

## White Background



This preview shows how the XYZ color 36.8996, 44.9193, 101.3332 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

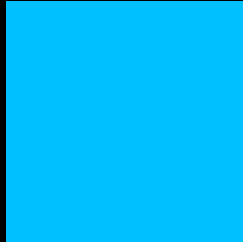
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 36.8996, 44.9193, 101.3332 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 36.8996, 44.9193, 101.3332

## Background



This preview shows how black text looks on a background with the XYZ color 36.8996, 44.9193, 101.3332.



This preview shows how white text looks on a background with the XYZ color 36.8996, 44.9193,



# 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

36.8996, 44.9193, 101.3332

### Protanopia

45.4575, 44.3398, 90.1670

### Deuteranopia

45.4294, 44.3817, 100.7799



## Tritanopia

31.8499, 44.6860, 69.2339

# Trichromacy



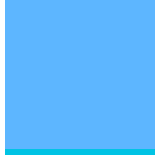
## Original Color

36.8996, 44.9193, 101.3332



## Protanomaly

38.6792, 42.5298, 94.1662



## Deuteranomaly

39.2921, 43.0031, 100.8372



## Tritanomaly

33.5187, 44.6316, 80.2469

# Monochromacy



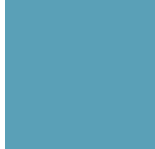
## Original Color

36.8996, 44.9193, 101.3332



## Achromatopsia

25.7108, 27.0498, 29.4572



## Achromatomaly

25.3345, 30.7342, 49.3968

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.8996, 44.9193, 101.3332 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, 192, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 192, 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(0, 192, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 192, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 36.8996, 44.9193, 101.3332 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, 192, 255) }
```



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

```
.border{ border-color:rgb(0, 192, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 192, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 192, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 192, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 192,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.8996, 44.9193, 101.3332 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 192, 255) }
```

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

```
.background{ background-color: rgb(0, 192,  
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