

# Converting Colors

XYZ(37.4191, 36.0010, 99.5844)

Have a look what the booklet for  
XYZ(37.4191, 36.0010, 99.5844)  
contains.

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# Color

**XYZ(37.4770, 36.1545,  
99.6110)**

# Conversions

## Conversions Part 1

Format	Color
Hex	70A1FF
RGB	112, 161, 255
RGB Percent	44%, 63%, 100%
CMY	0.5608, 0.3686, 0.0000
CMYK	0.56, 0.37, 0.00, 0.00
HSL	219°, 100%, 72%
HSV	219°, 56%, 100%
XYZ	37.4770, 36.1545, 99.6110
YIQ	157.0650, -59.3780, 18.8460

# Conversions

## Conversions Part 2

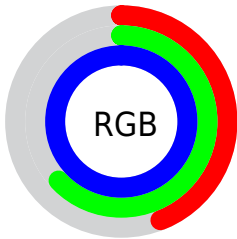
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">112, 148, 255</a>
Decimal	<a href="#">7381503</a>
CIELab	<a href="#">66.64, 10.45, -51.67</a>
CIELCh	<a href="#">67, 52.720, 281.430</a>
Yxy	<a href="#">36.1545, 0.2163, 0.2087</a>
Android (android.graphics.Color)	<a href="#">4285571583</a> (0xFF70A1FF)
YUV	<a href="#">157.0650, 48.2820, -39.5220</a>
Hunter-Lab	<a href="#">60.1286, 6.0305, -56.1317</a>

# Details

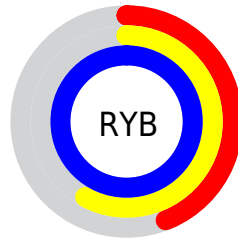
The XYZ color **37.4770, 36.1545, 99.6110** is a light color, and the websafe version is hex **6699FF**. A complement of this color would be **66.2376, 66.5752, 24.6906**, and the grayscale version is **31.8873, 33.5479, 36.5337**.

A 20% lighter version of the original color is **59.3637, 64.5915, 103.9464**, and **16.8077, 15.7646, 55.5831** is the 20% darker color. If you saturate the color by 10%, you get **31.9442, 29.2417, 98.5683**, and if you desaturate by 10%, it is **44.3235, 44.3286, 100.8279**.

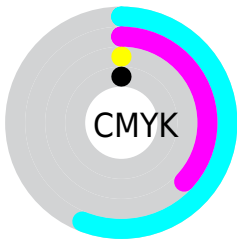
# Distribution



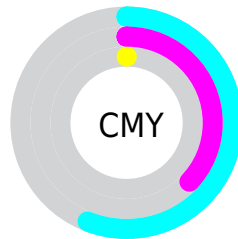
- Red (44%)
- Green (63%)
- Blue (100%)



- Red (44%)
- Yellow (58%)
- Blue (100%)



- Cyan (56%)
- Magenta (37%)
- Yellow (0%)
- Black (0%)



- Cyan (56%)
- Magenta (37%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.4770, 36.1545, 99.6110 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 37.4770, 36.1545, 99.6110 by changing the saturation by 10% instead.



■ 37.4770, 36.1545,  
99.6110

■ 37.4770, 36.1545,  
99.6110

326.6909,  
329.6353, 580.1808

■ 25.7524, 24.5535,  
75.3606

■ 70.6149, 69.2705,  
162.6697

■ 16.7702, 15.7447,  
55.4049

■ 92.7589, 91.5543,  
202.3151

■ 10.1651, 9.3437,  
39.3252

■ 119.1067,  
118.1678, 247.9293

■ 5.5716, 4.9660,  
26.7030

150.0237,  
149.4955, 299.9309

■ 2.6246, 2.2274,  
17.1198

185.8753,  
185.9217, 358.7382

■ 0.9585, 0.7348,  
10.1571

227.0268,

■ 0.0000, 0.0000,

227.8308, 424.7700

5.3963

273.8435,  
275.6072, 498.4447

■ 0.0000, 0.0000,  
2.4188

■ 0.0000, 0.0000,  
0.7967

■ 37.4770, 36.1545,  
99.6110

■ 37.4770, 36.1545,  
99.6110

■ 31.9442, 29.2417,  
98.5683

■ 44.3235, 44.3286,  
100.8279

■ 27.6260, 23.5145,  
97.6904

■ 52.5652, 53.8261,  
102.2267

■ 24.4137, 18.8928,  
96.9677

■ 62.2807, 64.7088,  
103.8152

■ 22.1736, 15.2813,  
96.3886

■ 73.5417, 77.0332,  
105.6006

■ 21.4884, 14.0969,  
96.1961

■ 86.4149, 90.8526,  
107.5895

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.



29.7299, 36.1545, 97.0181



37.4770, 36.1545, 99.6110



45.4814, 36.1545, 82.0605

# Triad

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



37.4770, 36.1545, 99.6110



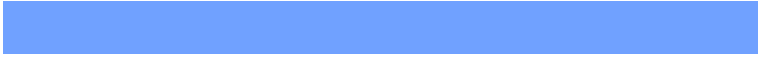
47.1205, 36.1545, 16.9525



21.8342, 36.1545, 27.0249

# Complementary

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



37.4770, 36.1545, 99.6110



66.2376, 66.5752, 24.6906

# 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.



25.2238, 36.1545, 14.8512



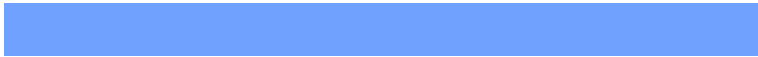
37.4770, 36.1545, 99.6110



39.4557, 36.1545, 10.7733

# Square

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



37.4770, 36.1545, 99.6110



51.5942, 36.1545, 31.3260



31.4279, 36.1545, 10.1903



21.4727, 36.1545, 48.6762



# Rectangle

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



37.4770, 36.1545, 99.6110



49.5815, 36.1545, 64.1808



31.4279, 36.1545, 10.1903



22.6298, 36.1545, 21.9477

# Sweetspot

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



37.4783, 36.1557, 99.6112



72.4340, 75.8319, 105.4271



53.4568, 79.3707, 70.2302



14.9987, 15.6818, 22.4863



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.



37.4783, 36.1557, 99.6112



31.4955, 28.6636, 98.4804



33.5901, 23.8337, 97.4377



17.5118, 18.3952, 22.8776



11.3523, 7.6143, 50.3060



1.2022, 0.9352, 4.9304



# Inverse Universe

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



53.4682, 35.4233, 37.7384



49.3564, 29.5977, 28.9750



72.4695, 90.1066, 28.9042



18.2662, 18.0898, 20.0191



22.5183, 11.4966, 6.1140

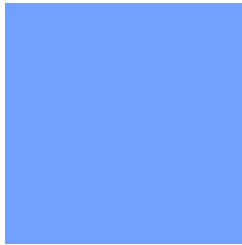


2.2414, 1.1389, 0.8529



# Previews

## White Background



This preview shows how the XYZ color 37.4770, 36.1545, 99.6110 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 37.4770, 36.1545, 99.6110 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

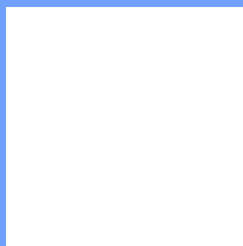
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 37.4770, 36.1545, 99.6110

## Background



This preview shows how black text looks on a background with the XYZ color 37.4770, 36.1545, 99.6110.



This preview shows how white text looks on a background with the XYZ color 37.4770, 36.1545,



# 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

37.4770, 36.1545, 99.6110

### Protanopia

38.5607, 35.9812, 97.8412

### Deuteranopia

37.2253, 36.0247, 99.5992



## Tritanopia

28.3530, 36.3125, 53.6588

# Trichromacy



## Original Color

37.4770, 36.1545, 99.6110

## Protanomaly

38.1727, 36.0170, 98.7060

## Deuteranomaly

37.3504, 36.0892, 99.6051

## Tritanomaly

31.1043, 35.9864, 68.2575

# Monochromacy



## Original Color

37.4770, 36.1545, 99.6110

## Achromatopsia

32.0474, 33.7164, 36.7171

## Achromatomaly

32.8370, 33.9667, 55.2776

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.4770, 36.1545, 99.6110 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(112, 161, 255)` looks like.

```
.text, #text, p{  
    color:rgb(112, 161, 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(112, 161, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(112, 161, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 37.4770, 36.1545, 99.6110 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(112, 161, 255) }
```



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

```
.border{ border-color:rgb(112, 161, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(112, 161, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(112, 161, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(112, 161, 255);  
box-shadow:4px 4px 4px 4px rgb(112, 161,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.4770, 36.1545, 99.6110 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(112, 161, 255) }
```

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

```
.background{ background-color: rgb(112,  
161, 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](#).

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