

# Converting Colors

XYZ(37.7700, 40.4769, 82.0278)

Have a look what the booklet for  
XYZ(37.7700, 40.4769, 82.0278)  
contains.

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# Color

**XYZ(37.7806, 40.5511,  
82.1798)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	79AFE8
RGB	121, 175, 232
RGB Percent	47%, 69%, 91%
CMY	0.5255, 0.3137, 0.0902
CMYK	0.48, 0.25, 0.00, 0.09
HSL	211°, 71%, 69%
HSV	211°, 48%, 91%
XYZ	37.7806, 40.5511, 82.1798
YIQ	165.3520, -50.4810, 6.2790

# Conversions

## Conversions Part 2

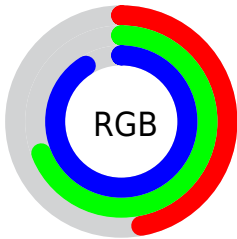
Format	Color
R <sub>Y</sub> B	121, 157, 232
Decimal	7974888
CIE Lab	69.86, -2.46, -34.06
CIE LCh	70, 34.149, 265.877
Yxy	40.5511, 0.2354, 0.2526
Android (android.graphics.Color)	4286164968 (0xFF79AFE8)
YUV	165.3520, 32.8575, -38.8967
Hunter-Lab	63.6797, -5.5372, -31.9389

# Details

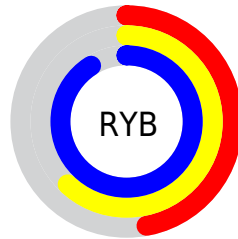
The XYZ color **37.7806, 40.5511, 82.1798** is a light color, and the websafe version is hex **6699CC**. A complement of this color would be **52.6515, 50.3785, 25.0397**, and the grayscale version is **35.7988, 37.6632, 41.0152**.

A 20% lighter version of the original color is **64.7069, 73.2786, 105.3415**, and **16.9693, 18.3573, 43.7232** is the 20% darker color. If you saturate the color by 10%, you get **32.6946, 34.6382, 81.3073**, and if you desaturate by 10%, it is **43.8557, 47.2792, 83.1590**.

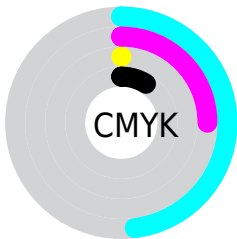
# Distribution



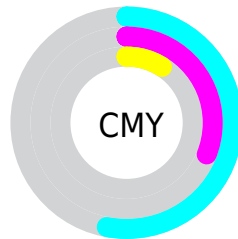
- Red (47%)
- Green (69%)
- Blue (91%)



- Red (47%)
- Yellow (62%)
- Blue (91%)



- Cyan (48%)
- Magenta (25%)
- Yellow (0%)
- Black (9%)



- Cyan (53%)
- Magenta (31%)
- Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.7806, 40.5511, 82.1798 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 37.7806, 40.5511, 82.1798 by changing the saturation by 10% instead.



■ 37.7806, 40.5511,  
82.1798

■ 37.7806, 40.5511,  
82.1798

327.9750,  
348.4409, 522.1481

■ 25.9889, 27.9685,  
60.9771

■ 71.0778, 76.0020,  
138.2651

■ 16.9480, 18.3019,  
43.7762

■ 93.3140, 99.6390,  
173.9847

■ 10.2925, 11.1670,  
30.1587

■ 119.7624,  
127.7297, 215.3803

■ 5.6571, 6.1792,  
19.7060

150.7884,  
160.6584, 262.8706

■ 2.6764, 2.9544,  
11.9996

186.7573,  
198.8094, 316.8739

■ 0.9850, 1.1080,  
6.6209

228.0344,

■ 0.0000, 0.0000,

242.5673, 377.8089

3.1513

274.9852,  
292.3163, 446.0942

■ 0.0000, 0.0000,  
1.1724

■ 0.0000, 0.0000,  
0.0000

■ 37.7806, 40.5511,  
82.1798

■ 37.7806, 40.5511,  
82.1798

■ 32.6946, 34.6382,  
81.3073

■ 43.8557, 47.2792,  
83.1590

■ 28.5313, 29.4960,  
80.5342

■ 50.9720, 54.8546,  
84.2461

■ 25.2220, 25.0818,  
79.8566

■ 59.1829, 63.3127,  
85.4460

■ 22.6846, 21.3449,  
79.2690

■ 68.5365, 72.6855,  
86.7621

■ 20.8087, 18.2194,  
78.7646

■ 79.0781, 83.0029,  
88.1980

■ 20.4557, 17.6064,  
78.6649

■ 88.9089, 93.2928,  
89.6660

■ 91.5656, 98.6063,  
90.5516

# Harmonies

## Analogous

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



32.8620, 40.5511, 74.5863



37.7806, 40.5511, 82.1798



43.3891, 40.5511, 77.7459

# Triad

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



37.7806, 40.5511, 82.1798



48.9610, 40.5511, 32.1150



30.3678, 40.5511, 29.1348

# Complementary

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



37.7806, 40.5511, 82.1798



52.6515, 50.3785, 25.0397

# 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.



34.0711, 40.5511, 21.9725



37.7806, 40.5511, 82.1798



44.8428, 40.5511, 23.3811

# Square

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



37.7806, 40.5511, 82.1798



50.1936, 40.5511, 46.3868



39.3148, 40.5511, 20.1510



28.8504, 40.5511, 41.9926



# Rectangle

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



37.7806, 40.5511, 82.1798



46.7199, 40.5511, 69.0254



39.3148, 40.5511, 20.1510



31.3799, 40.5511, 26.1139

# Sweetspot

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



37.7820, 40.5526, 82.1808



77.5418, 82.7027, 106.4841



44.6291, 64.9336, 51.5169



16.0746, 17.1750, 22.7178



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

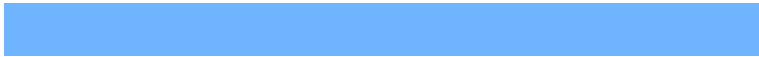


# Same Dimension

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



37.7820, 40.5526, 82.1808



40.8311, 43.3009, 100.8136



29.2894, 23.5675, 79.3499



14.1587, 15.0388, 18.3009



11.4813, 10.0246, 43.7130



0.9411, 0.9262, 3.2611



# Inverse Universe

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



47.8551, 33.9271, 44.5853



55.0533, 35.6465, 47.3517



65.5874, 76.2503, 29.3517



14.6677, 14.4843, 16.4505



20.1887, 10.2097, 9.8887

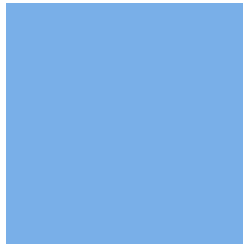


1.5387, 0.7732, 0.9772



# Previews

## White Background



This preview shows how the XYZ color 37.7806, 40.5511, 82.1798 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

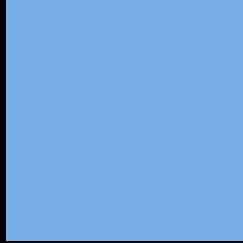
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.7806, 40.5511, 82.1798 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

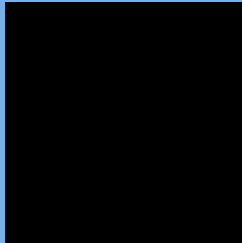
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 37.7806, 40.5511, 82.1798**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.7806, 40.5511, 82.1798.



This preview shows how white text looks on a background with the XYZ color 37.7806, 40.5511,



# 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

37.7806, 40.5511, 82.1798

### Protanopia

41.1942, 40.4213, 78.3040

### Deuteranopia

41.4316, 40.4298, 83.4620



## **Tritanopia**

33.1222, 40.7564, 58.3456

# Trichromacy



## Original Color

37.7806, 40.5511, 82.1798

## Protanomaly

39.8611, 40.5337, 79.8516

## Deuteranomaly

39.9184, 40.4980, 82.8038

## Tritanomaly

34.5682, 40.4211, 66.3017

# Monochromacy



## Original Color

37.7806, 40.5511, 82.1798

## Achromatopsia

35.7637, 37.6262, 40.9749

## Achromatomaly

35.7677, 38.4396, 53.6785

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.7806, 40.5511, 82.1798 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(121, 175, 232)` looks like.

```
.text, #text, p{  
    color:rgb(121, 175, 232)  
}
```

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(121, 175, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(121, 175, 232) }
```

## Border

The CSS property to change the border of an element to XYZ 37.7806, 40.5511, 82.1798 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(121, 175, 232) }
```



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

```
.border{ border-color:rgb(121, 175, 232) }
```

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

Here you see how a box with a 4 pixel `rgb(121, 175, 232)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(121, 175, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(121, 175, 232);  
box-shadow:4px 4px 4px 4px rgb(121, 175,  
232) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.7806, 40.5511, 82.1798 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(121, 175, 232) }
```

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

```
.background{ background-color: rgb(121,  
175, 232) }
```

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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