

# Converting Colors

XYZ(37.8275, 40.3569, 77.0312)

Have a look what the booklet for  
XYZ(37.8275, 40.3569, 77.0312)  
contains.

<b>XYZ(37.9326, 40.4542, 77.0433)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(37.9326, 40.4542,  
77.0433)**

# Conversions

## Conversions Part 1

Format	Color
Hex	82AEE1
RGB	130, 174, 225
RGB Percent	51%, 68%, 88%
CMY	0.4902, 0.3176, 0.1176
CMYK	0.42, 0.23, 0.00, 0.12
HSL	212°, 61%, 70%
HSV	212°, 42%, 88%
XYZ	37.9326, 40.4542, 77.0433
YIQ	166.6580, -42.5950, 6.5330

# Conversions

## Conversions Part 2

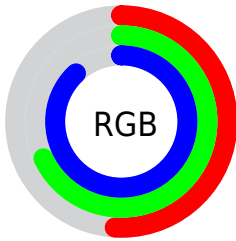
Format	Color
R <sub>Y</sub> B	130, 160, 225
Decimal	8564449
CIE Lab	69.79, -1.67, -30.30
CIE LCh	70, 30.348, 266.850
Yxy	40.4542, 0.2440, 0.2603
Android (android.graphics.Color)	4286754529 (0xFF82AEE1)
YUV	166.6580, 28.7626, -32.1491
Hunter-Lab	63.6036, -4.8506, -27.2957

# Details

The XYZ color **37.9326, 40.4542, 77.0433** is a light color, and the websafe version is hex **6699CC**. A complement of this color would be **51.6055, 50.6682, 28.1806**, and the grayscale version is **36.4450, 38.3430, 41.7555**.

A 20% lighter version of the original color is **66.3190, 73.6977, 105.3374**, and **17.1169, 18.3172, 40.6636** is the 20% darker color. If you saturate the color by 10%, you get **32.6219, 34.4074, 76.1568**, and if you desaturate by 10%, it is **44.2104, 47.3128, 78.0370**.

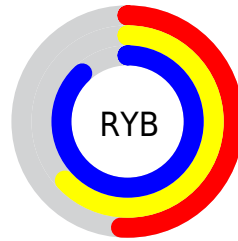
# Distribution



Red (51%)

Green (68%)

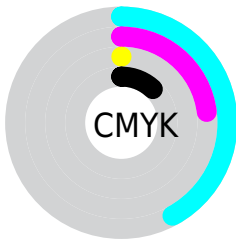
Blue (88%)



Red (51%)

Yellow (63%)

Blue (88%)

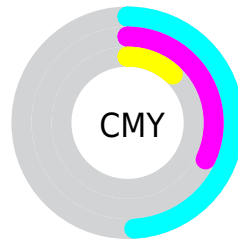


Cyan (42%)

Magenta (23%)

Yellow (0%)

Black (12%)



Cyan (49%)

Magenta (32%)

Yellow (12%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.9326, 40.4542, 77.0433 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 37.9326, 40.4542, 77.0433 by changing the saturation by 10% instead.



■ 37.9326, 40.4542,  
77.0433

■ 37.9326, 40.4542,  
77.0433

328.6166,  
348.0343, 504.3532

■ 26.1074, 27.8929,  
56.7766

■ 71.3094, 75.8547,  
130.9742

■ 17.0371, 18.2449,  
40.4178

■ 93.5916, 99.4626,  
165.4755

■ 10.3564, 11.1260,  
27.5482

■ 120.0903,  
127.5214, 205.5587

■ 5.7000, 6.1516,  
17.7493

151.1706,  
160.4157, 251.6425

■ 2.7024, 2.9375,  
10.6026

187.1981,  
198.5297, 304.1452

■ 0.9984, 1.0992,  
5.6895

228.5380,

■ 0.0000, 0.0000,

242.2479, 363.4856

2.5915

275.5557,  
291.9546, 430.0821

■ 0.0000, 0.0000,  
0.8880

■ 0.0000, 0.0000,  
0.0000

■ 37.9326, 40.4542,  
77.0433

■ 37.9326, 40.4542,  
77.0433

■ 32.6219, 34.4074,  
76.1568

■ 44.2104, 47.3128,  
78.0370

■ 28.2191, 29.1311,  
75.3704

■ 51.5018, 55.0125,  
79.1389

■ 24.6641, 24.5867,  
74.6806

■ 59.8549, 63.5866,  
80.3536

■ 21.8869, 20.7293,  
74.0825

■ 69.3134, 73.0647,  
81.6846

■ 19.8042, 17.5066,  
73.5702

■ 79.9184, 83.4753,  
83.1351

■ 18.5624, 15.3796,  
73.2251

■ 87.9317, 92.8982,  
84.5315

■ 90.5907, 98.2163,  
85.4179

# Harmonies

## Analogous

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



33.5026, 40.4542, 70.8695



37.9326, 40.4542, 77.0433



42.8866, 40.4542, 72.9350

# Triad

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



37.9326, 40.4542, 77.0433



47.5302, 40.4542, 32.9022



31.0567, 40.4542, 30.8231

# Complementary

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



37.9326, 40.4542, 77.0433



51.6055, 50.6682, 28.1806

# 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.



34.3314, 40.4542, 24.0163



37.9326, 40.4542, 77.0433



43.8631, 40.4542, 25.0245

# Square

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



37.9326, 40.4542, 77.0433



48.6987, 40.4542, 45.5546



38.9731, 40.4542, 22.1438



29.7515, 40.4542, 42.5745



# Rectangle

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



37.9326, 40.4542, 77.0433



45.7789, 40.4542, 65.3136



38.9731, 40.4542, 22.1438



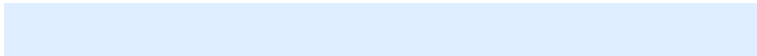
31.9492, 40.4542, 27.9856

# Sweetspot

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



37.9340, 40.4557, 77.0443



78.4715, 83.4124, 106.5720



44.4386, 61.9198, 53.1479



16.2477, 17.2950, 22.7319



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

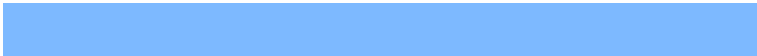


# Same Dimension

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



37.9340, 40.4557, 77.0443



43.8876, 46.3512, 101.2413



31.2738, 26.4032, 74.6829



13.4726, 14.2844, 17.4348



10.8107, 9.0910, 42.2333



0.8382, 0.8079, 2.9570



# Inverse Universe

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



46.6751, 35.0302, 44.3474



57.3437, 39.4251, 50.5883



61.0285, 70.9662, 31.6019



13.9700, 13.8056, 15.6123



19.3970, 9.8258, 8.7561

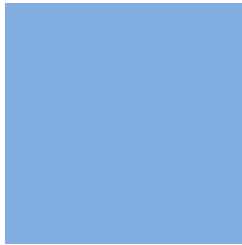


1.3894, 0.6990, 0.8432



# Previews

## White Background



This preview shows how the XYZ color 37.9326, 40.4542, 77.0433 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

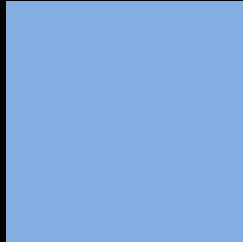
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.9326, 40.4542, 77.0433 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

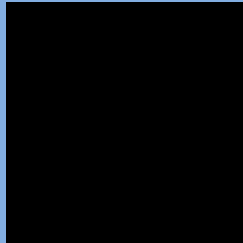
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

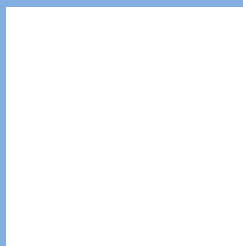
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 37.9326, 40.4542, 77.0433**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.9326, 40.4542, 77.0433.



This preview shows how white text looks on a background with the XYZ color 37.9326, 40.4542,



# 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

37.9326, 40.4542, 77.0433

### Protanopia

40.7641, 40.2936, 74.0356

### Deuteranopia

41.0638, 40.0970, 77.5267



## Tritanopia

34.0849, 40.6751, 57.0936

# Trichromacy



## Original Color

37.9326, 40.4542, 77.0433

## Protanomaly

39.5922, 40.2264, 74.7850

## Deuteranomaly

39.9563, 40.3514, 77.6342

## Tritanomaly

35.3973, 40.6085, 63.7302

# Monochromacy



## Original Color

37.9326, 40.4542, 77.0433

## Achromatopsia

36.7301, 38.6429, 42.0822

## Achromatomaly

36.7783, 39.2503, 53.2146

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.9326, 40.4542, 77.0433 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(130, 174, 225)` looks like.

```
.text, #text, p{  
    color:rgb(130, 174, 225)  
}
```

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(130, 174, 225) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(130, 174, 225) }
```

## Border

The CSS property to change the border of an element to XYZ 37.9326, 40.4542, 77.0433 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(130, 174, 225) }
```



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

```
.border{ border-color:rgb(130, 174, 225) }
```

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

Here you see how a box with a 4 pixel `rgb(130, 174, 225)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(130, 174, 225); -webkit-box-  
shadow:4px 4px 4px 4px rgb(130, 174, 225);  
box-shadow:4px 4px 4px 4px rgb(130, 174,  
225) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.9326, 40.4542, 77.0433 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(130, 174, 225) }
```

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

```
.background{ background-color: rgb(130,  
174, 225) }
```

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