

# Converting Colors

XYZ(32.1712, 32.7346, 69.7874)

Have a look what the booklet for  
XYZ(32.1712, 32.7346, 69.7874)  
contains.

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# Color

**XYZ(32.1683, 32.7997,  
69.6013)**

# Conversions

## Conversions Part 1

Format	Color
Hex	799CD8
RGB	121, 156, 216
RGB Percent	47%, 61%, 85%
CMY	0.5255, 0.3882, 0.1529
CMYK	0.44, 0.28, 0.00, 0.15
HSL	218°, 55%, 66%
HSV	218°, 44%, 85%
XYZ	32.1683, 32.7997, 69.6013
YIQ	152.3750, -40.1200, 11.2400

# Conversions

## Conversions Part 2

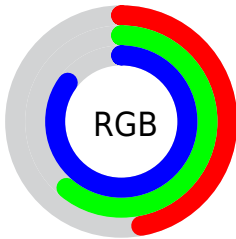
Format	Color
<a href="#">RYB</a>	<a href="#">121, 147, 216</a>
Decimal	<a href="#">7970008</a>
CIELab	<a href="#">64.00, 3.62, -34.36</a>
CIELCh	<a href="#">64, 34.548, 276.020</a>
Yxy	<a href="#">32.7997, 0.2390, 0.2437</a>
Android (android.graphics.Color)	<a href="#">4286160088 (0xFF799CD8)</a>
YUV	<a href="#">152.3750, 31.3671, -27.5159</a>
Hunter-Lab	<a href="#">57.2710, 0.0366, -31.9652</a>

# Details

The XYZ color **32.1683, 32.7997, 69.6013** is a light color, and the websafe version is hex **6699CC**. A complement of this color would be **48.2951, 49.0286, 25.0086**, and the grayscale version is **29.8890, 31.4456, 34.2442**.

A 20% lighter version of the original color is **59.2281, 62.6603, 103.5807**, and **13.7314, 13.8346, 35.6648** is the 20% darker color. If you saturate the color by 10%, you get **27.3113, 27.0867, 68.7552**, and if you desaturate by 10%, it is **37.9624, 39.3787, 70.5664**.

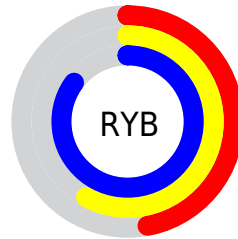
# Distribution



Red (47%)

Green (61%)

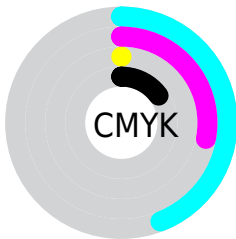
Blue (85%)



Red (47%)

Yellow (58%)

Blue (85%)

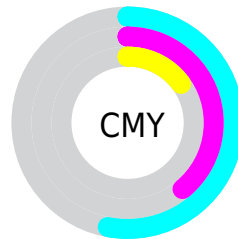


Cyan (44%)

Magenta (28%)

Yellow (0%)

Black (15%)



Cyan (53%)

Magenta (39%)

Yellow (15%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 32.1683, 32.7997, 69.6013 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 32.1683, 32.7997, 69.6013 by changing the saturation by 10% instead.



■ 32.1683, 32.7997,  
69.6013

■ 32.1683, 32.7997,  
69.6013

303.6169,  
314.7462, 477.9001

■ 21.6463, 21.9730,  
50.7268

■ 62.4383, 64.0627,  
120.3158

■ 13.7123, 13.8371,  
35.6160

■ 82.9169, 85.2678,  
152.9928

■ 8.0012, 8.0075,  
23.8504

■ 107.4450,  
110.7012, 191.1078

■ 4.1475, 4.0997,  
15.0115

136.3881,  
140.7473, 235.0792

■ 1.7859, 1.7295,  
8.6808

170.1115,  
175.7904, 285.3256

■ 0.5092, 0.4426,  
4.4396

208.9805,

■ 0.0000, 0.0000,

216.2150, 342.2655

1.8695

253.3605,  
262.4055, 406.3175

■ 0.0000, 0.0000,  
0.4732

■ 0.0000, 0.0000,  
0.0000

■ 32.1683, 32.7997,  
69.6013

■ 32.1683, 32.7997,  
69.6013

■ 27.3113, 27.0867,  
68.7552

■ 37.9624, 39.3787,  
70.5664

■ 23.3338, 22.1956,  
68.0207

■ 44.7397, 46.8577,  
71.6528

■ 20.1764, 18.0832,  
67.3934

■ 52.5473, 55.2730,  
72.8656

■ 17.7704, 14.7000,  
66.8672

■ 61.4282, 64.6577,  
74.2090

■ 16.0334, 11.9886,  
66.4354

■ 71.4227, 75.0432,  
75.6868

■ 15.2326, 10.6336,  
66.2160

■ 82.5691, 86.4594,  
77.3029

■ 88.2880, 95.5243,  
78.7512

■ 89.3948, 97.7379,  
79.1201

# Harmonies

## Analogous

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



27.5199, 32.7997, 66.2729



32.1683, 32.7997, 69.6013



37.0167, 32.7997, 62.1127

# Triad

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



32.1683, 32.7997, 69.6013



39.3847, 32.7997, 22.1421



23.3733, 32.7997, 25.8794

# Complementary

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



32.1683, 32.7997, 69.6013



48.2951, 49.0286, 25.0086

# 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.



25.9829, 32.7997, 18.1083



32.1683, 32.7997, 69.6013



35.1405, 32.7997, 16.3769

# Square

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



32.1683, 32.7997, 69.6013



41.4532, 32.7997, 32.9719



30.2026, 32.7997, 15.1211



22.7541, 32.7997, 38.6026



# Rectangle

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



32.1683, 32.7997, 69.6013



39.6089, 32.7997, 52.9096



30.2026, 32.7997, 15.1211



24.0325, 32.7997, 22.7164

# Sweetspot

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



32.1694, 32.8009, 69.6021



77.5690, 81.6074, 106.2712



40.6379, 56.4559, 51.7143



16.0259, 16.8514, 22.6579



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.



32.1694, 32.8009, 69.6021



40.0824, 39.8174, 100.1807



28.7621, 23.5463, 67.9954



12.1136, 12.7505, 15.7602



9.1108, 6.4833, 39.2244



0.6274, 0.5467, 2.3918



# Inverse Universe

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



41.1580, 30.6753, 35.2052



55.1602, 37.5456, 42.1921



53.1618, 63.4603, 27.5377



12.6105, 12.4957, 13.8892



17.6575, 8.9993, 5.5007



1.1043, 0.5585, 0.5387



# Previews

## White Background



This preview shows how the XYZ color 32.1683, 32.7997, 69.6013 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

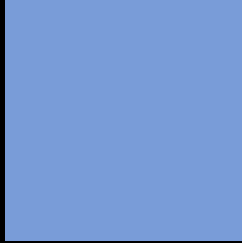
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 32.1683, 32.7997, 69.6013 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

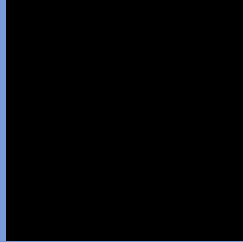
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 32.1683, 32.7997, 69.6013**

## **Background**



This preview shows how black text looks on a background with the XYZ color 32.1683, 32.7997, 69.6013.



This preview shows how white text looks on a background with the XYZ color 32.1683, 32.7997,



# 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

32.1683, 32.7997, 69.6013

### Protanopia

33.3918, 32.4948, 67.4630

### Deuteranopia

33.5885, 32.7788, 70.2023



## **Tritanopia**

27.4634, 32.6837, 46.4561

# Trichromacy



## Original Color

32.1683, 32.7997, 69.6013

## Protanomaly

32.8889, 32.4628, 68.1508

## Deuteranomaly

33.1332, 32.7881, 70.2281

## Tritanomaly

28.9142, 32.4806, 54.0357

# Monochromacy



## Original Color

32.1683, 32.7997, 69.6013

## Achromatopsia

29.8446, 31.3989, 34.1934

## Achromatomaly

30.1136, 31.5403, 45.0582

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 32.1683, 32.7997, 69.6013 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, 156, 216)` looks like.

```
.text, #text, p{  
    color:rgb(121, 156, 216)  
}
```

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, 156, 216) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(121, 156, 216) }
```

## Border

The CSS property to change the border of an element to XYZ 32.1683, 32.7997, 69.6013 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, 156, 216) }
```



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

```
.border{ border-color:rgb(121, 156, 216) }
```

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

Here you see how a box with a 4 pixel `rgb(121, 156, 216)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(121, 156, 216); -webkit-box-  
shadow:4px 4px 4px 4px rgb(121, 156, 216);  
box-shadow:4px 4px 4px 4px rgb(121, 156,  
216) }
```

# Background

The CSS property to change the background color of an element to XYZ 32.1683, 32.7997, 69.6013 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(121, 156, 216) }
```

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

```
.background{ background-color: rgb(121,  
156, 216) }
```

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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