

# Converting Colors

XYZ(20.9317, 21.6980, 67.3403)

Have a look what the booklet for  
XYZ(20.9317, 21.6980, 67.3403)  
contains.

<b>XYZ(20.8937, 21.6030, 67.3586)</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(20.8937, 21.6030,  
67.3586)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	1884D7
RGB	24, 132, 215
RGB Percent	9%, 52%, 84%
CMY	0.9058, 0.4823, 0.1569
CMYK	0.89, 0.39, 0.00, 0.16
HSL	206°, 80%, 47%
HSV	206°, 89%, 84%
XYZ	20.8937, 21.6030, 67.3586
YIQ	109.1700, -91.0110, 2.9170

# Conversions

## Conversions Part 2

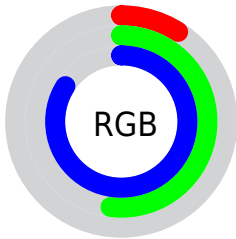
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	24, 93, 215
Decimal	1606871
CIE Lab	53.60, 1.75, -50.41
CIE LCh	54, 50.440, 271.984
Yxy	21.6030, 0.1902, 0.1966
Android (android.graphics.Color)	4279796951 (0xFF1884D7)
YUV	109.1700, 52.1742, -74.6941
Hunter-Lab	46.4790, -1.0973, -53.3893

# Details

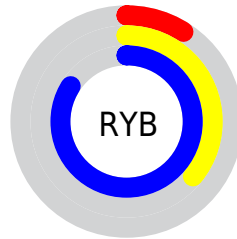
The XYZ color **20.8937, 21.6030, 67.3586** is a dark color, and the websafe version is hex **0099FF**. The color can be described as dark washed azure. A complement of this color would be **33.4503, 25.0343, 3.9347**, and the grayscale version is **14.4617, 15.2148, 16.5690**.

A 20% lighter version of the original color is **41.4624, 45.0437, 101.1167**, and **9.4384, 8.7246, 34.4443** is the 20% darker color. If you saturate the color by 10%, you get **19.3379, 19.0035, 66.9393**, and if you desaturate by 10%, it is **22.9473, 24.6280, 67.8347**.

# Distribution



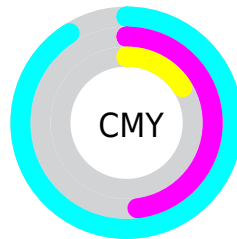
- Red (9%)
- Green (52%)
- Blue (84%)



- Red (9%)
- Yellow (36%)
- Blue (84%)



- Cyan (89%)
- Magenta (39%)
- Yellow (0%)
- Black (16%)



- Cyan (91%)
- Magenta (48%)
- Yellow (16%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 20.8937, 21.6030, 67.3586 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 20.8937, 21.6030, 67.3586 by changing the saturation by 10% instead.



■ 20.8937, 21.6030,  
67.3586

■ 20.8937, 21.6030,  
67.3586

249.4554,  
260.4660, 469.7563

■ 13.1583, 13.5655,  
48.9127

■ 44.4032, 46.0890,  
117.0796

■ 7.6154, 7.8191,  
34.1851

■ 60.9080, 63.3062,  
149.1918

■ 3.8996, 3.9794,  
22.7573

■ 81.0667, 84.3521,  
186.6965

■ 1.6455, 1.6620,  
14.2108

■ 105.2446,  
109.6111, 230.0122

■ 0.4218, 0.3989,  
8.1270

■ 133.8070,  
139.4676, 279.5575

■ 0.0000, 0.0000,  
4.0874

167.1194,

■ 0.0000, 0.0000,

174.3060, 335.7510

1.6734

205.5471,  
214.5107, 399.0110

■ 0.0000, 0.0000,  
0.3424

■ 0.0000, 0.0000,  
0.0000

■ 20.8937, 21.6030,  
67.3586

■ 20.8937, 21.6030,  
67.3586

■ 19.3379, 19.0035,  
66.9393

■ 22.9473, 24.6280,  
67.8347

■ 19.1713, 18.7172,  
66.8928

■ 25.5992, 28.1340,  
68.3717

■ 28.9171, 32.1602,  
68.9740

■ 32.9581, 36.7399,  
69.6449

■ 37.7724, 41.9029,  
70.3878

■ 43.4054, 47.6762,  
71.2052

■ 49.8989, 54.0851,  
72.1000

■ 57.2916, 61.1529,  
73.0746

■ 65.6197, 68.9017,  
74.1313

# Harmonies

## Analogous

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



16.0426, 21.6030, 60.6237



20.8937, 21.6030, 67.3586



26.5216, 21.6030, 58.7135

# Triad

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



20.8937, 21.6030, 67.3586



30.6293, 21.6030, 11.0497



12.6801, 21.6030, 12.1599

# Complementary

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



20.8937, 21.6030, 67.3586



33.4503, 25.0343, 3.9347

# 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.



15.5214, 21.6030, 6.2677



20.8937, 21.6030, 67.3586



25.7917, 21.6030, 5.8520

# Square

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



20.8937, 21.6030, 67.3586



32.7195, 21.6030, 22.5099



20.1765, 21.6030, 4.5880



11.8246, 21.6030, 24.5640



# Rectangle

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



20.8937, 21.6030, 67.3586



29.8206, 21.6030, 46.9252



20.1765, 21.6030, 4.5880



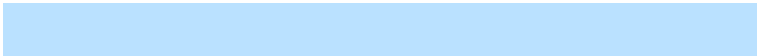
13.4069, 21.6030, 9.5758

# Sweetspot

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



20.8946, 21.6037, 67.3592



65.2821, 71.5698, 104.9814



27.3204, 49.8528, 22.0326



13.3169, 14.6590, 22.3775



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.



20.8946, 21.6037, 67.3592



28.0495, 27.2190, 98.3832



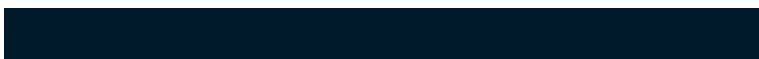
13.2973, 6.4091, 64.8267



12.3194, 13.1622, 15.8288



11.5739, 11.4095, 40.0454



0.7797, 0.8515, 2.4426



# Inverse Universe

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



32.5167, 16.7676, 23.3528



46.2873, 23.2789, 28.5087



49.3735, 56.8808, 9.2425



12.7144, 12.5373, 14.4363



18.9008, 9.4966, 12.0476



1.1812, 0.5893, 0.9437



# Previews

## White Background



This preview shows how the XYZ color 20.8937, 21.6030, 67.3586 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 20.8937, 21.6030, 67.3586 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

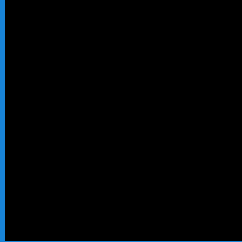
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 20.8937, 21.6030, 67.3586**

## **Background**



This preview shows how black text looks on a background with the XYZ color 20.8937, 21.6030, 67.3586.



This preview shows how white text looks on a background with the XYZ color 20.8937, 21.6030,



# 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

20.8937, 21.6030, 67.3586

### Protanopia

23.3349, 21.6010, 62.6140

### Deuteranopia

22.2282, 21.4862, 67.9414



## Tritanopia

15.3405, 21.6130, 33.0690

# Trichromacy



## Original Color

20.8937, 21.6030, 67.3586

## Protanomaly

21.9313, 21.4067, 64.6040

## Deuteranomaly

21.5115, 21.3113, 67.9455

## Tritanomaly

16.9390, 21.3302, 43.7818

# Monochromacy



## Original Color

20.8937, 21.6030, 67.3586

## Achromatopsia

14.5356, 15.2926, 16.6537

## Achromatomaly

14.8485, 16.4804, 30.4154

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 20.8937, 21.6030, 67.3586 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(24, 132, 215)` looks like.

```
.text, #text, p{  
    color:rgb(24, 132, 215)  
}
```

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(24, 132, 215) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(24, 132, 215) }
```

## Border

The CSS property to change the border of an element to XYZ 20.8937, 21.6030, 67.3586 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(24, 132, 215) }
```



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

```
.border{ border-color:rgb(24, 132, 215) }
```

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

Here you see how a box with a 4 pixel rgb(24, 132, 215) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(24, 132, 215); -webkit-box-  
shadow:4px 4px 4px 4px rgb(24, 132, 215);  
box-shadow:4px 4px 4px 4px rgb(24, 132,  
215) }
```

# Background

The CSS property to change the background color of an element to XYZ 20.8937, 21.6030, 67.3586 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(24, 132, 215) }
```

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

```
.background{ background-color: rgb(24, 132,  
215) }
```

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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