

# Converting Colors

XYZ(20.8836, 21.2047, 65.9447)

Have a look what the booklet for  
XYZ(20.8836, 21.2047, 65.9447)  
contains.

<b>XYZ(20.9073, 21.2408, 65.9487)</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(20.9073, 21.2408,  
65.9487)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	2982D5
RGB	41, 130, 213
RGB Percent	16%, 51%, 84%
CMY	0.8392, 0.4902, 0.1647
CMYK	0.81, 0.39, 0.00, 0.16
HSL	209°, 68%, 50%
HSV	209°, 81%, 84%
XYZ	20.9073, 21.2408, 65.9487
YIQ	112.8510, -79.6870, 6.9450

# Conversions

## Conversions Part 2

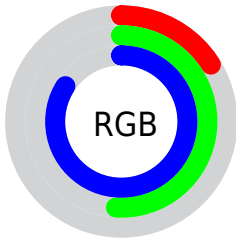
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	41, 100, 213
Decimal	2720469
CIE Lab	53.21, 3.50, -49.89
CIE LCh	53, 50.009, 274.011
Yxy	21.2408, 0.1934, 0.1965
Android (android.graphics.Color)	4280910549 (0xFF2982D5)
YUV	112.8510, 49.3735, -63.0133
Hunter-Lab	46.0877, 0.3214, -52.5789

# Details

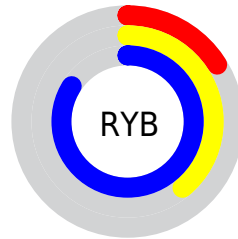
The XYZ color **20.9073, 21.2408, 65.9487** is a dark color, and the websafe version is hex **3399FF**. The color can be described as dark washed azure. A complement of this color would be **35.0507, 28.7253, 5.7963**, and the grayscale version is **15.5289, 16.3376, 17.7916**.

A 20% lighter version of the original color is **41.7174, 44.2533, 100.9507**, and **9.1140, 8.3535, 33.4798** is the 20% darker color. If you saturate the color by 10%, you get **18.9761, 18.3160, 65.4864**, and if you desaturate by 10%, it is **23.4359, 24.6767, 66.4791**.

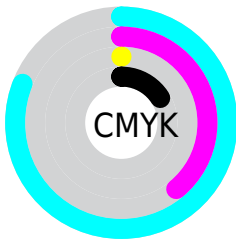
# Distribution



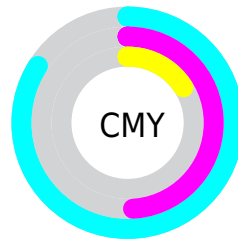
- Red (16%)
- Green (51%)
- Blue (84%)



- Red (16%)
- Yellow (39%)
- Blue (84%)



- Cyan (81%)
- Magenta (39%)
- Yellow (0%)
- Black (16%)



- Cyan (84%)
- Magenta (49%)
- Yellow (16%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 20.9073, 21.2408, 65.9487 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 20.9073, 21.2408, 65.9487 by changing the saturation by 10% instead.



■ 20.9073, 21.2408,  
65.9487

■ 20.9073, 21.2408,  
65.9487

249.5265,  
258.5555, 464.5926

■ 13.1683, 13.3001,  
47.7745

■ 44.4256, 45.4879,  
115.0390

■ 7.6224, 7.6355,  
33.2897

■ 60.9357, 62.5632,  
146.7922

■ 3.9040, 3.8626,  
22.0755

■ 81.1002, 83.4521,  
183.9089

■ 1.6480, 1.5970,  
13.7135

■ 105.2845,  
108.5391, 226.8075

■ 0.4234, 0.3556,  
7.7852

■ 133.8539,  
138.2086, 275.9067

■ 0.0000, 0.0000,  
3.8720

167.1738,

■ 0.0000, 0.0000,

172.8448, 331.6249

1.5554

205.6096,  
212.8323, 394.3807

■ 0.0000, 0.0000,  
0.2587

■ 0.0000, 0.0000,  
0.0000

■ 20.9073, 21.2408,  
65.9487

■ 20.9073, 21.2408,  
65.9487

■ 18.9761, 18.3160,  
65.4864

■ 23.4359, 24.6767,  
66.4791

■ 17.6087, 16.0009,  
65.1116

■ 26.6280, 28.6630,  
67.0803

■ 30.5428, 33.2358,  
67.7566

■ 35.2315, 38.4267,  
68.5114

■ 40.7404, 44.2646,  
69.3479

■ 47.1117, 50.7763,  
70.2690

■ 54.3846, 57.9867,  
71.2774

■ 62.5958, 65.9193,  
72.3758

■ 71.7800, 74.5964,  
73.5666

# Harmonies

## Analogous

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



16.0586, 21.2408, 60.3461



20.9073, 21.2408, 65.9487



26.4169, 21.2408, 56.5726

# Triad

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



20.9073, 21.2408, 65.9487



29.8283, 21.2408, 10.3780



12.3687, 21.2408, 12.5829

# Complementary

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



20.9073, 21.2408, 65.9487



35.0507, 28.7253, 5.7963

# 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.



15.0256, 21.2408, 6.4284



20.9073, 21.2408, 65.9487



24.9724, 21.2408, 5.6004

# Square

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



20.9073, 21.2408, 65.9487



32.1046, 21.2408, 21.1527



19.4868, 21.2408, 4.5581



11.6600, 21.2408, 25.2218



# Rectangle

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



20.9073, 21.2408, 65.9487



29.5683, 21.2408, 44.7670



19.4868, 21.2408, 4.5581



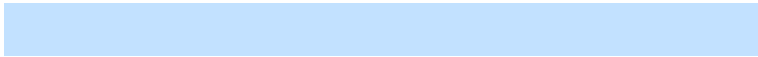
13.0377, 21.2408, 9.9036

# Sweetspot

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



20.9082, 21.2415, 65.9493



67.2980, 72.7652, 105.1058



28.1775, 49.4478, 26.2369



13.6700, 14.8232, 22.3906



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.



20.9082, 21.2415, 65.9493



26.8980, 24.7737, 97.9719



13.9318, 7.2888, 63.6238



12.2688, 13.0609, 15.8119



10.8589, 9.9797, 39.8071



0.7377, 0.7674, 2.4285



# Inverse Universe

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



32.2636, 17.3449, 22.7670



45.7407, 23.1931, 25.2210



50.2190, 59.0620, 10.8524



12.6889, 12.5270, 14.3017



18.5400, 9.3523, 10.1474



1.1600, 0.5808, 0.8319



# Previews

## White Background



This preview shows how the XYZ color 20.9073, 21.2408, 65.9487 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 20.9073, 21.2408, 65.9487 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

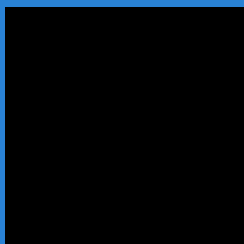
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 20.9073, 21.2408, 65.9487**

## **Background**



This preview shows how black text looks on a background with the XYZ color 20.9073, 21.2408, 65.9487.



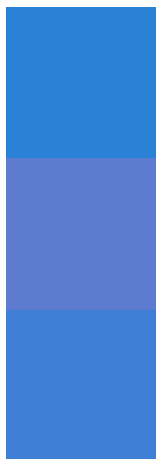
This preview shows how white text looks on a background with the XYZ color 20.9073, 21.2408,



# 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

20.9073, 21.2408, 65.9487

### Protanopia

22.9843, 21.2475, 61.9212

### Deuteranopia

21.8413, 21.1238, 66.5445



## Tritanopia

14.9640, 20.9905, 32.5410

# Trichromacy



## Original Color

20.9073, 21.2408, 65.9487

## Protanomaly

21.7935, 20.9810, 63.2227

## Deuteranomaly

21.4877, 21.1341, 66.5651

## Tritanomaly

16.6411, 20.7659, 43.1755

# Monochromacy



## Original Color

20.9073, 21.2408, 65.9487

## Achromatopsia

15.6958, 16.5132, 17.9829

## Achromatomaly

15.9521, 17.3898, 30.9496

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 20.9073, 21.2408, 65.9487 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(41, 130, 213)` looks like.

```
.text, #text, p{  
    color:rgb(41, 130, 213)  
}
```

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(41, 130, 213) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(41, 130, 213) }
```

## Border

The CSS property to change the border of an element to XYZ 20.9073, 21.2408, 65.9487 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(41, 130, 213) }
```



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

```
.border{ border-color:rgb(41, 130, 213) }
```

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

Here you see how a box with a 4 pixel rgb(41, 130, 213) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(41, 130, 213); -webkit-box-  
shadow:4px 4px 4px 4px rgb(41, 130, 213);  
box-shadow:4px 4px 4px 4px rgb(41, 130,  
213) }
```

# Background

The CSS property to change the background color of an element to XYZ 20.9073, 21.2408, 65.9487 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(41, 130, 213) }
```

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

```
.background{ background-color: rgb(41, 130,  
213) }
```

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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