

# Converting Colors

XYZ(29.1531, 21.1896, 34.9237)

Have a look what the booklet for  
XYZ(29.1531, 21.1896, 34.9237)  
contains.

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# Color

**XYZ(29.1853, 21.2410,  
34.9094)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	B2659E
RGB	178, 101, 158
RGB Percent	70%, 40%, 62%
CMY	0.3020, 0.6039, 0.3804
CMYK	0.00, 0.43, 0.11, 0.30
HSL	316°, 33%, 55%
HSV	316°, 43%, 70%
XYZ	29.1853, 21.2410, 34.9094
YIQ	130.5210, 27.5950, 34.0510

# Conversions

## Conversions Part 2

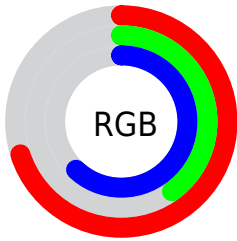
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	178, 101, 158
Decimal	11691422
CIE <sub>Lab</sub>	53.21, 38.99, -17.55
CIE <sub>LCh</sub>	53, 42.763, 335.764
Yxy	21.2410, 0.3420, 0.2489
Android (android.graphics.Color)	4289881502 (0xFFB2659E)
YUV	130.5210, 13.5471, 41.6391
Hunter-Lab	46.0880, 32.3816, -12.6477

# Details

The XYZ color **29.1853, 21.2410, 34.9094** is a dark color, and the websafe version is hex **996699**. A complement of this color would be **24.7394, 35.9886, 23.7333**, and the grayscale version is **21.3500, 22.4618, 24.4609**.

A 20% lighter version of the original color is **57.8268, 45.5775, 68.7003**, and **12.1498, 7.7143, 14.7586** is the 20% darker color. If you saturate the color by 10%, you get **27.2501, 17.9953, 32.3377**, and if you desaturate by 10%, it is **31.5111, 25.2432, 37.6856**.

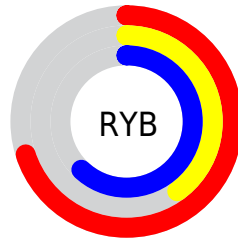
# Distribution



Red (70%)

Green (40%)

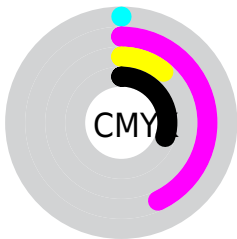
Blue (62%)



Red (70%)

Yellow (40%)

Blue (62%)

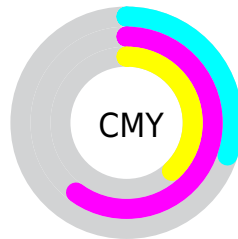


Cyan (0%)

Magenta (43%)

Yellow (11%)

Black (30%)



Cyan (30%)

Magenta (60%)

Yellow (38%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 29.1853, 21.2410, 34.9094 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 29.1853, 21.2410, 34.9094 by changing the saturation by 10% instead.



■ 29.1853, 21.2410,  
34.9094

■ 29.1853, 21.2410,  
34.9094

290.0667,  
258.5565, 339.0603

■ 19.3660, 13.3003,  
23.3101

■ 57.7669, 45.4883,  
68.4954

■ 12.0406, 7.6356,  
14.6152

■ 77.2599, 62.5636,  
91.3191

■ 6.8438, 3.8627,  
8.4062

■ 100.7082, 83.4526,  
118.7214

■ 3.4100, 1.5971,  
4.2644

■ 128.4772,  
108.5397, 151.1208

■ 1.3741, 0.3556,  
1.7715

160.9322,  
138.2093, 188.9359

■ 0.2377, 0.0000,  
0.4091

198.4385,

■ 0.0000, 0.0000,

172.8456, 232.5851

0.0000

241.3616,  
212.8333, 282.4871

■ 29.1853, 21.2410,  
34.9094

■ 29.1853, 21.2410,  
34.9094

■ 27.2501, 17.9953,  
32.3377

■ 31.5111, 25.2432,  
37.6856

■ 25.6790, 15.4543,  
29.9601

■ 34.2478, 30.0434,  
40.6734

■ 24.4450, 13.5643,  
27.7673

■ 37.4168, 35.6838,  
43.8806

■ 23.5168, 12.2626,  
25.7478

■ 41.0374, 42.2024,  
47.3146

■ 22.8566, 11.4740,  
23.8883

■ 45.1275, 49.6352,  
50.9821

■ 22.5089, 11.1245,  
22.7061

■ 49.7042, 58.0161,  
54.8894

■ 54.7837, 67.3770,  
59.0429

■ 60.3814, 77.7487,  
63.4482

■ 64.5004, 85.1371,  
67.4405

# Harmonies

## Analogous

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



25.6999, 21.2410, 49.7383



29.1853, 21.2410, 34.9094



30.1172, 21.2410, 20.7196

# Triad

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



29.1853, 21.2410, 34.9094



19.3295, 21.2410, 6.1616



13.9319, 21.2410, 40.9154

# Complementary

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



29.1853, 21.2410, 34.9094



24.7394, 35.9886, 23.7333

# 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.



12.7244, 21.2410, 25.7159



29.1853, 21.2410, 34.9094



15.5281, 21.2410, 8.2505

# Square

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



29.1853, 21.2410, 34.9094



23.9666, 21.2410, 7.0571



13.2621, 21.2410, 14.3491



16.8307, 21.2410, 54.0158



# Rectangle

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



29.1853, 21.2410, 34.9094



29.0604, 21.2410, 13.9164



13.2621, 21.2410, 14.3491



13.3361, 21.2410, 35.7060

# Sweetspot

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



29.1860, 21.2420, 34.9098



67.8718, 64.7440, 79.5930



20.4711, 16.5339, 44.2322



14.7425, 13.8173, 17.3436



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787



# Same Dimension

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



29.1860, 21.2420, 34.9098



49.5295, 32.8203, 58.8019



26.4200, 20.1356, 20.3442



8.7539, 8.6083, 10.2024



16.1320, 7.9704, 16.3871



0.5298, 0.2597, 0.6328



# Inverse Universe

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



29.1860, 21.2420, 34.9098



49.5295, 32.8203, 58.8019



27.5243, 37.1026, 38.3988



8.7539, 8.6083, 10.2024



16.1320, 7.9704, 16.3871



0.5298, 0.2597, 0.6328



# Previews

## White Background



This preview shows how the XYZ color 29.1853, 21.2410, 34.9094 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

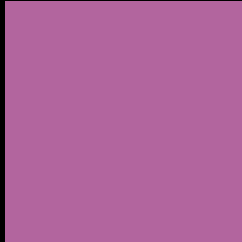
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 29.1853, 21.2410, 34.9094 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

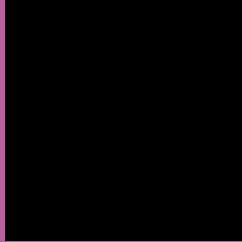
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# XYZ 29.1853, 21.2410, 34.9094

## Background



This preview shows how black text looks on a background with the XYZ color 29.1853, 21.2410, 34.9094.



This preview shows how white text looks on a background with the XYZ color 29.1853, 21.2410,



# 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

29.1853, 21.2410, 34.9094

### Protanopia

22.1074, 21.5670, 44.0720

### Deuteranopia

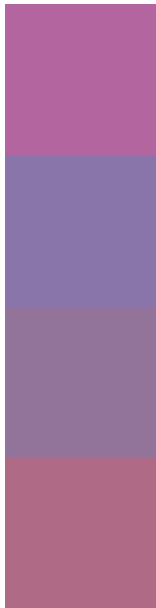
21.9187, 21.5124, 33.5689



## Tritanopia

25.9722, 21.1295, 19.8491

# Trichromacy



## Original Color

29.1853, 21.2410, 34.9094

## Protanomaly

23.8392, 20.9055, 40.3148

## Deuteranomaly

24.0158, 20.9683, 33.7919

## Tritanomaly

27.0669, 21.1155, 24.8394

# Monochromacy



## Original Color

29.1853, 21.2410, 34.9094

## Achromatopsia

21.5731, 22.6966, 24.7166

## Achromatomaly

23.7369, 21.6519, 28.1275

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 29.1853, 21.2410, 34.9094 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(178, 101, 158)` looks like.

```
.text, #text, p{  
    color:rgb(178, 101, 158)  
}
```

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(178, 101, 158) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 101, 158) }
```

## Border

The CSS property to change the border of an element to XYZ 29.1853, 21.2410, 34.9094 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(178, 101, 158) }
```



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

```
.border{ border-color:rgb(178, 101, 158) }
```

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

Here you see how a box with a 4 pixel `rgb(178, 101, 158)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 101, 158); -webkit-box-  
shadow:4px 4px 4px 4px rgb(178, 101, 158);  
box-shadow:4px 4px 4px 4px rgb(178, 101,  
158) }
```

# Background

The CSS property to change the background color of an element to XYZ 29.1853, 21.2410, 34.9094 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(178, 101, 158) }
```

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

```
.background{ background-color: rgb(178,  
101, 158) }
```

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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