

# Converting Colors

XYZ(20.0221, 22.4853, 38.0292)

Have a look what the booklet for  
XYZ(20.0221, 22.4853, 38.0292)  
contains.

<b>XYZ(19.9941, 22.4052, 37.9212)</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(19.9941, 22.4052,  
37.9212)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	5F87A3
RGB	95, 135, 163
RGB Percent	37%, 53%, 64%
CMY	0.6274, 0.4706, 0.3608
CMYK	0.42, 0.17, 0.00, 0.36
HSL	205°, 27%, 51%
HSV	205°, 42%, 64%
XYZ	19.9941, 22.4052, 37.9212
YIQ	126.2320, -32.8280, 0.2280

# Conversions

## Conversions Part 2

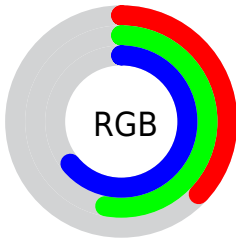
<b>Format</b>	<b>Color</b>
<b>RYB</b>	95, 120, 163
Decimal	6260643
CIELab	54.45, -6.32, -19.24
CIElCh	54, 20.251, 251.826
Yxy	22.4052, 0.2489, 0.2789
Android (android.graphics.Color)	4284450723 (0xFF5F87A3)
YUV	126.2320, 18.1266, -27.3905
Hunter-Lab	47.3341, -7.4357, -14.3656

# Details

The XYZ color **19.9941, 22.4052, 37.9212** is a dark color, and the websafe version is hex **6699CC**. A complement of this color would be **24.2531, 22.7789, 13.9455**, and the grayscale version is **19.8589, 20.8931, 22.7526**.

A 20% lighter version of the original color is **42.8509, 47.3243, 73.2057**, and **7.1140, 8.1583, 16.2387** is the 20% darker color. If you saturate the color by 10%, you get **17.5679, 19.8083, 37.5482**, and if you desaturate by 10%, it is **22.8351, 25.3046, 38.3315**.

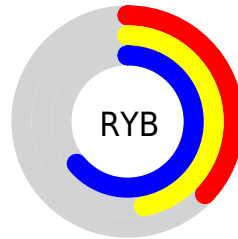
# Distribution



Red (37%)

Green (53%)

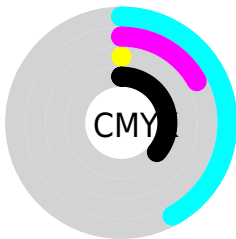
Blue (64%)



Red (37%)

Yellow (47%)

Blue (64%)

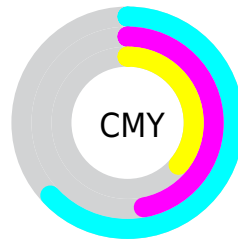


Cyan (42%)

Magenta (17%)

Yellow (0%)

Black (36%)



Cyan (63%)

Magenta (47%)

Yellow (36%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 19.9941, 22.4052, 37.9212 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 19.9941, 22.4052, 37.9212 by changing the saturation by 10% instead.



■ 19.9941, 22.4052,  
37.9212

■ 19.9941, 22.4052,  
37.9212

244.7173,  
264.6551, 352.5699

■ 12.4990, 14.1549,  
25.6202

■ 42.9113, 47.4148,  
73.1894

■ 7.1591, 8.2285,  
16.3165

■ 59.0641, 64.9429,  
96.9937

■ 3.6090, 4.2415,  
9.5916

■ 78.8336, 86.3325,  
125.4695

■ 1.4834, 1.8096,  
5.0270

■ 102.5850,  
111.9678, 159.0353

■ 0.3145, 0.4931,  
2.2041

130.6837,  
142.2333, 198.1097

■ 0.0000, 0.0000,  
0.6767

163.4951,

■ 0.0000, 0.0000,

177.5135, 243.1113

0.0000

201.3845,  
218.1926, 294.4585

■ 19.9941, 22.4052,  
37.9212

■ 19.9941, 22.4052,  
37.9212

■ 17.5679, 19.8083,  
37.5482

■ 22.8351, 25.3046,  
38.3315

■ 15.5309, 17.4976,  
37.2096

■ 26.1101, 28.5164,  
38.7788

■ 13.8579, 15.4590,  
36.9043

■ 29.8397, 32.0533,  
39.2649

■ 12.5197, 13.6756,  
36.6306

■ 34.0424, 35.9262,  
39.7910

■ 11.4814, 12.1278,  
36.3865

■ 38.7356, 40.1458,  
40.3581

■ 10.7834, 10.9893,  
36.2036

■ 43.9359, 44.7218,  
40.9673

■ 49.6591, 49.6638,  
41.6195

■ 55.9201, 54.9808,  
42.3158

■ 62.7333, 60.6817,  
43.0571

# Harmonies

## Analogous

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



18.2759, 22.4052, 33.4702



19.9941, 22.4052, 37.9212



22.1806, 22.4052, 38.3924

# Triad

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



19.9941, 22.4052, 37.9212



25.7435, 22.4052, 21.9794



18.5789, 22.4052, 16.3861

# Complementary

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



19.9941, 22.4052, 37.9212



24.2531, 22.7789, 13.9455

# 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.



20.4342, 22.4052, 14.2959



19.9941, 22.4052, 37.9212



24.6305, 22.4052, 17.1299

# Square

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



19.9941, 22.4052, 37.9212



25.6051, 22.4052, 28.4024



22.6521, 22.4052, 14.5422



17.4987, 22.4052, 20.7843



# Rectangle

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



19.9941, 22.4052, 37.9212



23.6220, 22.4052, 36.3001



22.6521, 22.4052, 14.5422



19.1269, 22.4052, 15.4277

# Sweetspot

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



19.9948, 22.4061, 37.9217



52.3679, 56.4003, 70.1824



21.3423, 30.0379, 23.1510



11.4335, 12.3583, 15.7203



78.6606, 82.7571, 90.1225



14.0027, 14.7319, 16.0430



# Same Dimension

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



19.9948, 22.4061, 37.9217



31.7794, 35.8229, 67.2957



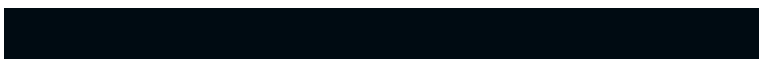
16.0624, 14.5413, 36.6109



7.0304, 7.5198, 8.9840



8.4261, 8.6315, 28.1517



0.2220, 0.2712, 0.6065



# Inverse Universe

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



23.5702, 17.7208, 25.1008



39.2616, 27.0471, 40.2346



29.0923, 32.4574, 15.5586



7.2403, 7.1526, 8.2519



13.3986, 6.7155, 9.2894



0.3042, 0.1502, 0.3146



# Previews

## White Background



This preview shows how the XYZ color 19.9941, 22.4052, 37.9212 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

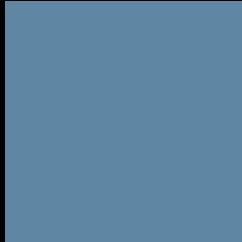
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 19.9941, 22.4052, 37.9212 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

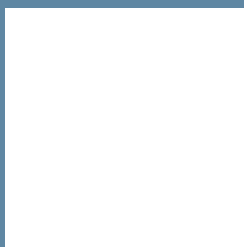
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 19.9941, 22.4052, 37.9212**

## **Background**



This preview shows how black text looks on a background with the XYZ color 19.9941, 22.4052, 37.9212.



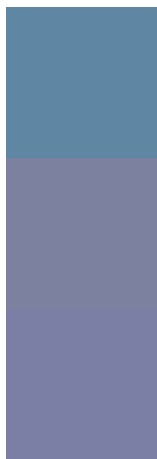
This preview shows how white text looks on a background with the XYZ color 19.9941, 22.4052,



# 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

19.9941, 22.4052, 37.9212

### Protanopia

22.1902, 22.3801, 35.4980

### Deuteranopia

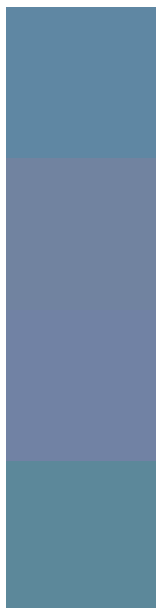
22.6931, 22.1804, 38.6825



## Tritanopia

18.6849, 22.2854, 31.7505

# Trichromacy



## Original Color

19.9941, 22.4052, 37.9212

## Protanomaly

21.2715, 22.2814, 36.4373

## Deuteranomaly

21.4935, 22.1563, 38.2657

## Tritanomaly

19.0505, 22.2167, 33.8560

# Monochromacy



## Original Color

19.9941, 22.4052, 37.9212

## Achromatopsia

19.8309, 20.8637, 22.7206

## Achromatomaly

19.5807, 21.2094, 27.4879

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 19.9941, 22.4052, 37.9212 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(95, 135, 163) looks like.

```
.text, #text, p{  
    color:rgb(95, 135, 163)  
}
```

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(95, 135, 163) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(95, 135, 163) }
```

## Border

The CSS property to change the border of an element to XYZ 19.9941, 22.4052, 37.9212 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(95, 135, 163) }
```



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

```
.border{ border-color:rgb(95, 135, 163) }
```

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

Here you see how a box with a 4 pixel `rgb(95, 135, 163)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(95, 135, 163); -webkit-box-  
shadow:4px 4px 4px 4px rgb(95, 135, 163);  
box-shadow:4px 4px 4px 4px rgb(95, 135,  
163) }
```

# Background

The CSS property to change the background color of an element to XYZ 19.9941, 22.4052, 37.9212 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(95, 135, 163) }
```

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

```
.background{ background-color: rgb(95, 135,  
163) }
```

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