

Converting Colors

XYZ(9.8367, 12.0899, 20.2094)

Have a look what the booklet for
XYZ(9.8367, 12.0899, 20.2094)
contains.

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Color

**XYZ(9.8798, 12.1864,
20.2438)**

Conversions

Conversions Part 1

Format	Color
Hex	32697A
RGB	50, 105, 122
RGB Percent	20%, 41%, 48%
CMY	0.8039, 0.5882, 0.5216
CMYK	0.59, 0.14, 0.00, 0.52
HSL	194°, 42%, 34%
HSV	194°, 59%, 48%
XYZ	9.8798, 12.1864, 20.2438
YIQ	90.4930, -38.2370, -6.3730

Conversions

Conversions Part 2

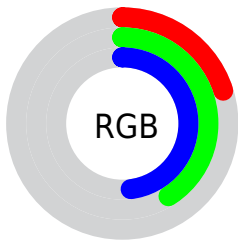
Format	Color
RYB	50, 81, 122
Decimal	3303802
CIELab	41.51, -12.80, -14.99
CIELCh	42, 19.713, 229.515
Yxy	12.1864, 0.2335, 0.2880
Android (android.graphics.Color)	4281493882 (0xFF32697A)
YUV	90.4930, 15.5330, -35.5124
Hunter-Lab	34.9090, -10.5725, -9.9460

Details

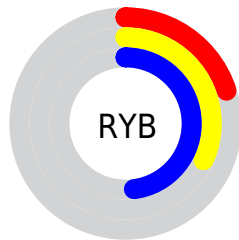
The XYZ color **9.8798, 12.1864, 20.2438** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **10.6092, 8.3825, 4.0768**, and the grayscale version is **9.8017, 10.3122, 11.2299**.

A 20% lighter version of the original color is **25.1220, 29.7165, 44.4562**, and **2.7157, 3.5072, 6.8371** is the 20% darker color. If you saturate the color by 10%, you get **9.0683, 11.3401, 20.1234**, and if you desaturate by 10%, it is **10.8624, 13.1362, 20.3756**.

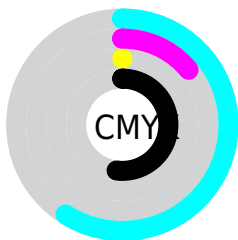
Distribution



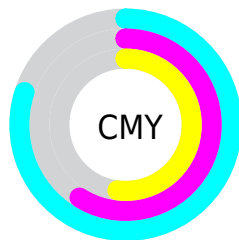
- Red (20%)
- Green (41%)
- Blue (48%)



- Red (20%)
- Yellow (32%)
- Blue (48%)



- Cyan (59%)
- Magenta (14%)
- Yellow (0%)
- Black (52%)



- Cyan (80%)
- Magenta (59%)
- Yellow (52%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 9.8798, 12.1864, 20.2438 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 9.8798, 12.1864, 20.2438 by changing the saturation by 10% instead.

■ 9.8798, 12.1864,
20.2438

■ 9.8798, 12.1864,
20.2438

■ 183.8836,
205.6354, 265.8797

■ 5.3810, 6.8708,
12.3866

■ 25.2209, 29.8341,
44.6899

■ 2.5095, 3.3814,
6.8818

■ 36.7939, 42.9350,
62.1158

■ 0.9001, 1.3339,
3.3110

■ 51.4557, 59.3998,
83.5684

■ 0.0000, 0.1673,
1.2555

■ 69.5716, 79.6128,
109.4661

■ 0.0000, 0.0000,
0.0249

■ 91.5070, 103.9585,
140.2276

■ 0.0000, 0.0000,
0.0000

■ 117.6272,

132.8212, 176.2713

148.2976,
166.5854, 218.0158

■ 9.8798, 12.1864,
20.2438

■ 9.8798, 12.1864,
20.2438

■ 9.0683, 11.3401,
20.1234

■ 10.8624, 13.1362,
20.3756

■ 8.4135, 10.5890,
20.0130

■ 12.0267, 14.1942,
20.5184

■ 7.9007, 9.9255,
19.9119

■ 13.3836, 15.3666,
20.6732

■ 7.4845, 9.3261,
19.8182

■ 14.9430, 16.6586,
20.8404

■ 7.4444, 9.2683,
19.8091

■ 16.7139, 18.0749,
21.0204

■ 18.7049, 19.6202,
21.2138

■ 20.9242, 21.2987,
21.4208

■ 23.3792, 23.1144,
21.6418

■ 26.0772, 25.0713,
21.8774

Harmonies

Analogous

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



9.1686, 12.1864, 16.0919



9.8798, 12.1864, 20.2438



11.0872, 12.1864, 22.6707

Triad

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



9.8798, 12.1864, 20.2438



14.5179, 12.1864, 14.7618



10.6841, 12.1864, 7.1202

Complementary

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



9.8798, 12.1864, 20.2438



10.6092, 8.3825, 4.0768

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.



12.0930, 12.1864, 6.9094



9.8798, 12.1864, 20.2438



14.3874, 12.1864, 10.7970

Square

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



9.8798, 12.1864, 20.2438



13.8141, 12.1864, 19.0986



13.4711, 12.1864, 8.1142



9.6057, 12.1864, 8.7656

Rectangle

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



9.8798, 12.1864, 20.2438



12.0456, 12.1864, 22.7040



13.4711, 12.1864, 8.1142



11.1320, 12.1864, 6.8944

Sweetspot

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



9.8802, 12.1869, 20.2441



26.4593, 29.4457, 36.6819



9.2824, 15.0003, 7.6853



5.8907, 6.6029, 8.3707



59.0181, 62.0916, 67.6177



7.4413, 7.8288, 8.5256

Same Dimension

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



9.8802, 12.1869, 20.2441



15.4968, 19.4429, 35.3290



6.9690, 6.3645, 19.2737



4.0307, 4.3597, 5.0722



7.8312, 9.7449, 20.8535



36.6780, 45.1286, 99.2473

Inverse Universe

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



11.7168, 7.4391, 14.1834



19.2287, 10.8764, 22.7714



13.4324, 14.0289, 5.0179



4.1159, 4.0621, 4.8082



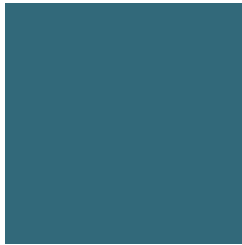
10.5362, 5.1906, 11.3803



49.9165, 24.6229, 52.4837

Previews

White Background



This preview shows how the XYZ color 9.8798, 12.1864, 20.2438 looks on a white 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

Black Background



This preview shows how the XYZ color 9.8798, 12.1864, 20.2438 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

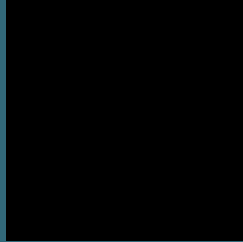
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 9.8798, 12.1864, 20.2438

Background



This preview shows how black text looks on a background with the XYZ color 9.8798, 12.1864, 20.2438.

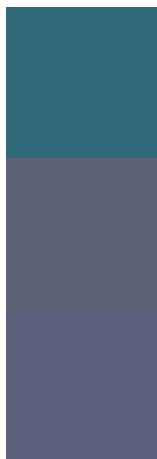


This preview shows how white text looks on a background with the XYZ color 9.8798, 12.1864,

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

9.8798, 12.1864, 20.2438

Protanopia

11.9413, 12.1375, 18.2364

Deuteranopia

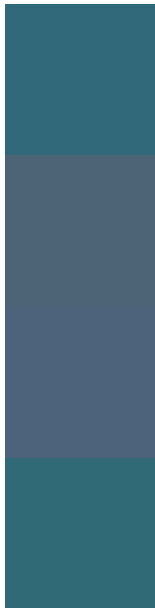
12.3352, 12.1481, 20.7635



Tritanopia

9.4208, 12.1502, 18.0684

Trichromacy



Original Color

9.8798, 12.1864, 20.2438

Protanomaly

10.8878, 12.0001, 18.8820

Deuteranomaly

11.0976, 11.9315, 20.4570

Tritanomaly

9.6430, 12.2445, 18.9947

Monochromacy



Original Color

9.8798, 12.1864, 20.2438

Achromatopsia

9.7181, 10.2242, 11.1341

Achromatomaly

9.3921, 10.6396, 14.1290

CSS Examples

Text

The CSS property to change the color of the text to XYZ 9.8798, 12.1864, 20.2438 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(50, 105, 122)` looks like.

```
.text, #text, p{  
  color:rgb(50, 105, 122)  
}
```

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(50, 105, 122) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(50, 105, 122) }
```

Border

The CSS property to change the border of an element to XYZ 9.8798, 12.1864, 20.2438 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(50, 105, 122) }
```


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

```
.border{ border-color:rgb(50, 105, 122) }
```

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

Here you see how a box with a 4 pixel `rgb(50, 105, 122)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(50, 105, 122); -webkit-box-  
shadow:4px 4px 4px 4px rgb(50, 105, 122);  
box-shadow:4px 4px 4px 4px rgb(50, 105,  
122) }
```

Background

The CSS property to change the background color of an element to XYZ 9.8798, 12.1864, 20.2438 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(50, 105, 122) }
```

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

```
.background{ background-color: rgb(50, 105,  
122) }
```

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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