

Converting Colors

XYZ(9.9797, 12.8299, 20.4932)

Have a look what the booklet for
XYZ(9.9797, 12.8299, 20.4932)
contains.

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Color

**XYZ(9.9778, 12.8560,
20.3679)**

Conversions

Conversions Part 1

Format	Color
Hex	2B6D7A
RGB	43, 109, 122
RGB Percent	17%, 43%, 48%
CMY	0.8313, 0.5725, 0.5216
CMYK	0.65, 0.11, 0.00, 0.52
HSL	190°, 48%, 32%
HSV	190°, 65%, 48%
XYZ	9.9778, 12.8560, 20.3679
YIQ	90.7480, -43.5090, -9.9490

Conversions

Conversions Part 2

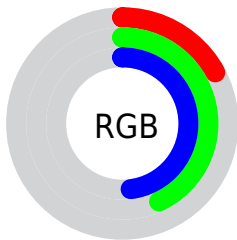
Format	Color
R_{YB}	43, 79, 122
Decimal	2846074
CIE _{Lab}	42.55, -16.48, -13.44
CIE _{LCh}	43, 21.269, 219.197
Yxy	12.8560, 0.2310, 0.2976
Android (android.graphics.Color)	4281036154 (0xFF2B6D7A)
YUV	90.7480, 15.4072, -41.8750
Hunter-Lab	35.8553, -13.0737, -8.5815




Details

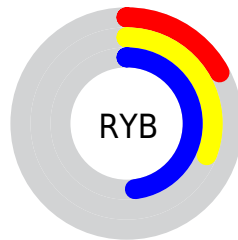
The XYZ color **9.9778, 12.8560, 20.3679** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **9.8767, 7.1409, 3.1439**, and the grayscale version is **9.8606, 10.3741, 11.2974**.




A 20% lighter version of the original color is **25.4219, 31.1424, 44.7156**, and **2.8713, 3.8185, 6.8890** is the 20% darker color. If you saturate the color by 10%, you get **9.3292, 12.2076, 20.2772**, and if you desaturate by 10%, it is **10.7852, 13.5941, 20.4680**.

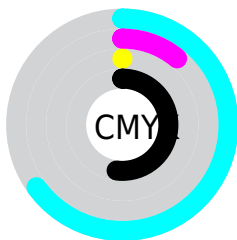
Distribution







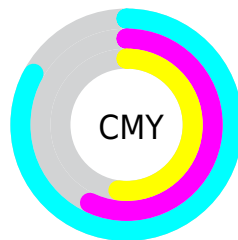
-  Red (17%)
-  Green (43%)
-  Blue (48%)






-  Red (17%)
-  Yellow (31%)
-  Blue (48%)



-  Cyan (65%)
-  Magenta (11%)
-  Yellow (0%)
-  Black (52%)



-  Cyan (83%)
-  Magenta (57%)
-  Yellow (52%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 9.9778, 12.8560, 20.3679 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 9.9778, 12.8560, 20.3679 by changing the saturation by 10% instead.

■ 9.9778, 12.8560,
20.3679

■ 9.9778, 12.8560,
20.3679

■ 184.5705,
209.9927, 266.5697

■ 5.4464, 7.3295,
12.4760

■ 25.4038, 31.0448,
44.9002

■ 2.5489, 3.6690,
6.9423

■ 37.0291, 44.4759,
62.3777

■ 0.9200, 1.4902,
3.3481

■ 51.7497, 61.3107,
83.8875

■ 0.0000, 0.2818,
1.2750

■ 69.9311, 81.9334,
109.8481

■ 0.0000, 0.0000,
0.0412

■ 91.9384, 106.7286,
140.6781

■ 0.0000, 0.0000,
0.0000

■ 118.1372,

136.0806, 176.7960

148.8928,
170.3739, 218.6203

■ 9.9778, 12.8560,
20.3679

■ 9.9778, 12.8560,
20.3679

■ 9.3292, 12.2076,
20.2772

■ 10.7852, 13.5941,
20.4680

■ 8.8240, 11.6400,
20.1942

■ 11.7626, 14.4268,
20.5773

■ 8.4412, 11.1427,
20.1184

■ 12.9215, 15.3606,
20.6964

■ 8.2568, 10.8931,
20.0800

■ 14.2722, 16.4005,
20.8260

■ 15.8241, 17.5517,
20.9664

■ 17.5859, 18.8185,
21.1180

■ 19.5660, 20.2055,
21.2814

■ 21.7721, 21.7165,
21.4568

■ 24.2117, 23.3555,
21.6445

Harmonies

Analogous

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



9.4160, 12.8560, 15.4604



9.9778, 12.8560, 20.3679



11.1544, 12.8560, 24.0060

Triad

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



9.9778, 12.8560, 20.3679



15.3410, 12.8560, 17.3817



11.7321, 12.8560, 6.9541

Complementary

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



9.9778, 12.8560, 20.3679



9.8767, 7.1409, 3.1439

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.



13.3498, 12.8560, 7.2486



9.9778, 12.8560, 20.3679



15.5300, 12.8560, 12.6309

Square

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



9.9778, 12.8560, 20.3679



14.2777, 12.8560, 22.0363



14.7735, 12.8560, 9.1175



10.3688, 12.8560, 8.1994

Rectangle

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



9.9778, 12.8560, 20.3679



12.1760, 12.8560, 24.8408



14.7735, 12.8560, 9.1175



12.2626, 12.8560, 6.8835

Sweetspot

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



9.9782, 12.8565, 20.3682



26.5084, 29.8998, 36.7670



8.6423, 14.7074, 5.9796



5.9179, 6.7301, 8.3938



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.



9.9782, 12.8565, 20.3682



15.9268, 20.9472, 35.5967



6.7407, 6.3815, 19.2890



4.0536, 4.4055, 5.0799



8.6880, 11.4584, 21.1391



40.9134, 53.5994, 100.6591

Inverse Universe

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



11.6506, 6.9700, 15.1997



19.2884, 10.2979, 24.9427



12.4964, 12.3803, 4.0171



4.1275, 4.0667, 4.8692



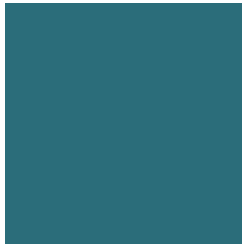
10.9686, 5.3636, 13.6576



52.0543, 25.4781, 63.7414

Previews

White Background



This preview shows how the XYZ color 9.9778, 12.8560, 20.3679 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 9.9778, 12.8560, 20.3679 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 9.9778, 12.8560, 20.3679

Background



This preview shows how black text looks on a background with the XYZ color 9.9778, 12.8560, 20.3679.

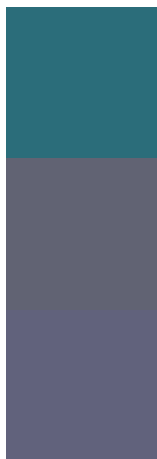


This preview shows how white text looks on a background with the XYZ color 9.9778, 12.8560,

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

9.9778, 12.8560, 20.3679

Protanopia

12.4861, 12.7029, 18.0135

Deuteranopia

12.9355, 12.7320, 20.8445



Tritanopia

9.7604, 12.9313, 19.1211

Trichromacy



Original Color

9.9778, 12.8560, 20.3679

Protanomaly

11.1808, 12.5863, 18.9796

Deuteranomaly

11.3871, 12.5106, 20.5535

Tritanomaly

9.8605, 12.9760, 19.4377

Monochromacy



Original Color

9.9778, 12.8560, 20.3679

Achromatopsia

9.9438, 10.4616, 11.3927

Achromatomaly

9.5900, 11.1505, 14.2172

CSS Examples

Text

The CSS property to change the color of the text to XYZ 9.9778, 12.8560, 20.3679 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(43, 109, 122)` looks like.

```
.text, #text, p{  
    color:rgb(43, 109, 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(43, 109, 122) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(43, 109, 122) }
```

Border

The CSS property to change the border of an element to XYZ 9.9778, 12.8560, 20.3679 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(43, 109, 122) }
```


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

```
.border{ border-color:rgb(43, 109, 122) }
```

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

Here you see how a box with a 4 pixel `rgb(43, 109, 122)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(43, 109, 122); -webkit-box-  
shadow:4px 4px 4px 4px rgb(43, 109, 122);  
box-shadow:4px 4px 4px 4px rgb(43, 109,  
122) }
```

Background

The CSS property to change the background color of an element to XYZ 9.9778, 12.8560, 20.3679 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(43, 109, 122) }
```

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

```
.background{ background-color: rgb(43, 109,  
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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