

Converting Colors

XYZ(7.1120, 17.1969, 20.7125)

Have a look what the booklet for
XYZ(7.1120, 17.1969, 20.7125)
contains.

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Color

**XYZ(12.7682, 20.1122,
20.9784)**

Conversions

Conversions Part 1

Format	Color
Hex	008C78
RGB	0, 140, 120
RGB Percent	0%, 55%, 47%
CMY	1.0000, 0.4510, 0.5294
CMYK	1.00, 0.00, 0.14, 0.45
HSL	171°, 100%, 27%
HSV	171°, 100%, 55%
XYZ	12.7682, 20.1122, 20.9784
YIQ	95.8600, -77.0200, -35.9000

Conversions

Conversions Part 2

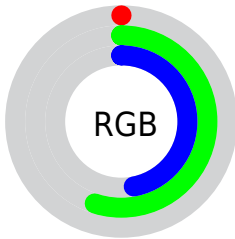
Format	Color
RYB	0, 75, 140
Decimal	35960
CIELab	51.96, -36.87, 1.67
CIELCh	52, 36.910, 177.414
Yxy	20.1122, 0.2371, 0.3734
Android (android.graphics.Color)	4278226040 (0xFF008C78)
YUV	95.8600, 11.9010, -84.0692
Hunter-Lab	44.8466, -27.6612, 3.6579

Details

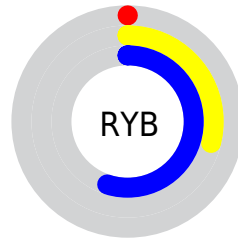
The XYZ color **12.7682, 20.1122, 20.9784** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **10.9421, 5.6264, 1.1717**, and the grayscale version is **11.0707, 11.6473, 12.6839**.

A 20% lighter version of the original color is **30.3943, 43.4469, 45.8139**, and **4.7421, 7.6126, 7.3503** is the 20% darker color. If you saturate the color by 10%, you get **12.7685, 20.1129, 20.9784**, and if you desaturate by 10%, it is **13.0726, 20.2554, 21.6335**.

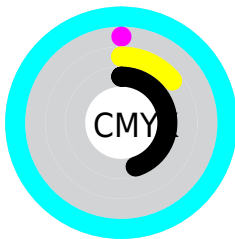
Distribution



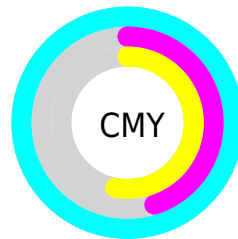
- Red (0%)
- Green (55%)
- Blue (47%)



- Red (0%)
- Yellow (29%)
- Blue (55%)



- Cyan (100%)
- Magenta (0%)
- Yellow (14%)
- Black (45%)



- Cyan (100%)
- Magenta (45%)
- Yellow (53%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.7682, 20.1122, 20.9784 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 12.7682, 20.1122, 20.9784 by changing the saturation by 10% instead.

■ 12.7682, 20.1122,
20.9784

■ 12.7682, 20.1122,
20.9784

203.0945,
252.5219, 269.9410

■ 7.3450, 12.4766,
12.9171

■ 30.4916, 43.6052,
45.9319

■ 3.7270, 7.0692,
7.2414

■ 43.5225, 60.2314,
63.6612

■ 1.5489, 3.5054,
3.5328

■ 59.8200, 80.6234,
85.4503

■ 0.3587, 1.4009,
1.3727

■ 79.7495, 105.1653,
111.7177

■ 0.0000, 0.2174,
0.1203

■ 103.6764,
134.2418, 142.8819

■ 0.0000, 0.0000,
0.0000

■ 131.9659,

168.2371, 179.3615

164.9835,
207.5357, 221.5750

■ 12.7682, 20.1122,
20.9784

■ 12.7682, 20.1122,
20.9784

■ 12.7685, 20.1129,
20.9784

■ 13.0726, 20.2554,
21.6335

■ 13.4958, 20.4591,
22.3070

■ 14.0997, 20.7557,
23.0024

■ 14.9064, 21.1565,
23.7208

■ 15.9345, 21.6711,
24.4631

■ 17.2007, 22.3082,
25.2301

■ 18.7200, 23.0755,
26.0227

■ 20.5062, 23.9800,
26.8416

■ 22.5722, 25.0285,
27.6874

Harmonies

Analogous

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



13.6513, 20.1122, 12.5377



12.7682, 20.1122, 20.9784



13.3925, 20.1122, 32.8752

Triad

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



12.7682, 20.1122, 20.9784



22.6396, 20.1122, 45.8838



23.2775, 20.1122, 8.6808

Complementary

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



12.7682, 20.1122, 20.9784



10.9421, 5.6264, 1.1717

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.



26.2744, 20.1122, 13.6860



12.7682, 20.1122, 20.9784



25.8735, 20.1122, 35.0411

Square

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



12.7682, 20.1122, 20.9784



18.7919, 20.1122, 49.7587



27.2810, 20.1122, 22.8457



19.4439, 20.1122, 7.0489

Rectangle

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



12.7682, 20.1122, 20.9784



14.6316, 20.1122, 40.9414



27.2810, 20.1122, 22.8457



24.4343, 20.1122, 9.9231

Sweetspot

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



12.7688, 20.1130, 20.9789



32.8179, 40.5882, 45.7870



9.6879, 18.9164, 3.1409



7.3223, 9.2313, 10.4295



67.5393, 71.0566, 77.3807



10.1266, 10.6539, 11.6021

Same Dimension

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



12.7688, 20.1130, 20.9789



22.4658, 35.4408, 36.7476



8.4754, 9.3766, 26.1750



5.1426, 5.6765, 6.2721



11.3505, 17.8728, 18.6684



0.0793, 0.1203, 0.1446

Inverse Universe

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



10.9421, 5.6264, 1.1717



19.2528, 9.9038, 1.8664



11.9143, 7.7729, 0.8727



5.0601, 5.0595, 5.4050



9.7269, 5.0009, 1.0662



0.0678, 0.0345, 0.0240

Previews

White Background



This preview shows how the XYZ color 12.7682, 20.1122, 20.9784 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 12.7682, 20.1122, 20.9784 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

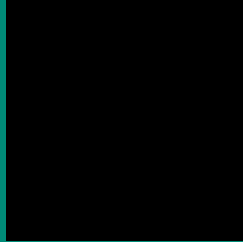
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.7682, 20.1122, 20.9784

Background



This preview shows how black text looks on a background with the XYZ color 12.7682, 20.1122, 20.9784.

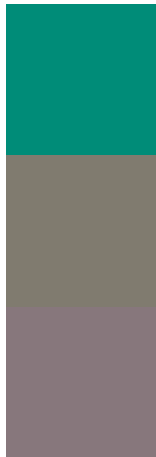


This preview shows how white text looks on a background with the XYZ color 12.7682, 20.1122,

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

12.7682, 20.1122, 20.9784

Protanopia

18.8543, 19.9028, 17.8868

Deuteranopia

20.2266, 19.7998, 21.8245



Tritanopia

14.9073, 20.1462, 30.7067

Trichromacy



Original Color

12.7682, 20.1122, 20.9784

Protanomaly

14.2809, 18.6647, 18.7696

Deuteranomaly

15.0023, 18.5872, 21.5359

Tritanomaly

13.8619, 19.9041, 26.7782

Monochromacy



Original Color

12.7682, 20.1122, 20.9784

Achromatopsia

11.1181, 11.6971, 12.7381

Achromatomaly

10.2684, 13.6004, 15.4485

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7682, 20.1122, 20.9784 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(0, 140, 120)` looks like.

```
.text, #text, p{  
    color:rgb(0, 140, 120)  
}
```

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(0, 140, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 140, 120) }
```

Border

The CSS property to change the border of an element to XYZ 12.7682, 20.1122, 20.9784 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(0, 140, 120) }
```


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

```
.border{ border-color:rgb(0, 140, 120) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 140, 120)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 140, 120); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 140, 120);  
box-shadow:4px 4px 4px 4px rgb(0, 140,  
120) }
```

Background

The CSS property to change the background color of an element to XYZ 12.7682, 20.1122, 20.9784 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 140, 120) }
```

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

```
.background{ background-color: rgb(0, 140,  
120) }
```

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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