

Converting Colors

XYZ(12.6962, 20.7464, 18.5553)

Have a look what the booklet for
XYZ(12.6962, 20.7464, 18.5553)
contains.

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Color

**XYZ(12.7471, 20.8148,
18.6750)**

Conversions

Conversions Part 1

Format	Color
Hex	008F70
RGB	0, 143, 112
RGB Percent	0%, 56%, 44%
CMY	1.0000, 0.4392, 0.5608
CMYK	1.00, 0.00, 0.22, 0.44
HSL	167°, 100%, 28%
HSV	167°, 100%, 56%
XYZ	12.7471, 20.8148, 18.6750
YIQ	96.7090, -75.2770, -39.9570

Conversions

Conversions Part 2

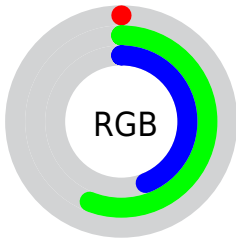
Format	Color
RYB	0, 80, 143
Decimal	36720
CIELab	52.75, -40.39, 7.41
CIELCh	53, 41.060, 169.607
Yxy	20.8148, 0.2440, 0.3985
Android (android.graphics.Color)	4278226800 (0xFF008F70)
YUV	96.7090, 7.5385, -84.8138
Hunter-Lab	45.6232, -29.9679, 7.6670

Details

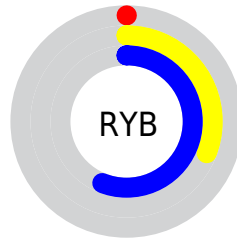
The XYZ color **12.7471, 20.8148, 18.6750** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **11.5758, 5.9391, 1.8336**, and the grayscale version is **11.2875, 11.8753, 12.9322**.

A 20% lighter version of the original color is **30.5511, 44.9533, 42.1886**, and **4.6665, 7.8523, 6.1202** is the 20% darker color. If you saturate the color by 10%, you get **12.7474, 20.8155, 18.6747**, and if you desaturate by 10%, it is **13.1092, 20.9817, 19.6092**.

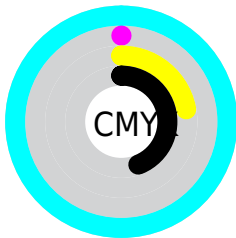
Distribution



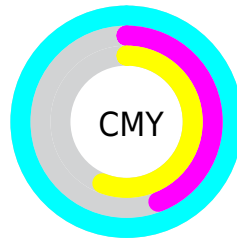
- Red (0%)
- Green (56%)
- Blue (44%)



- Red (0%)
- Yellow (31%)
- Blue (56%)



- Cyan (100%)
- Magenta (0%)
- Yellow (22%)
- Black (44%)



- Cyan (100%)
- Magenta (44%)
- Yellow (56%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.7471, 20.8148, 18.6750 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 12.7471, 20.8148, 18.6750 by changing the saturation by 10% instead.

■ 12.7471, 20.8148,
18.6750

■ 12.7471, 20.8148,
18.6750

202.9610,
256.2926, 257.0113

■ 7.3304, 12.9887,
11.2612

■ 30.4539, 44.7791,
42.0136

■ 3.7178, 7.4208,
6.1265

■ 43.4747, 61.6861,
58.7754

■ 1.5437, 3.7266,
2.8521

■ 59.7609, 82.3888,
79.4905

■ 0.3553, 1.5218,
1.0196

■ 79.6780, 107.2717,
104.5771

■ 0.0000, 0.3040,
0.0000

■ 103.5911,
136.7192, 134.4540

■ 0.0000, 0.0000,
0.0000

■ 131.8658,

171.1155, 169.5396

164.8673,
210.8452, 210.2526

■ 12.7471, 20.8148,
18.6750

■ 12.7471, 20.8148,
18.6750

■ 12.7474, 20.8155,
18.6747

■ 13.1092, 20.9817,
19.6092

■ 13.6007, 21.2141,
20.5804

■ 14.2852, 21.5453,
21.5923

■ 15.1860, 21.9872,
22.6462

■ 16.3229, 22.5502,
23.7433

■ 17.7134, 23.2432,
24.8849

■ 19.3735, 24.0745,
26.0719

■ 21.3177, 25.0515,
27.3053

■ 23.5594, 26.1811,
28.5859

Harmonies

Analogous

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



14.1580, 20.8148, 10.5708



12.7471, 20.8148, 18.6750



13.0039, 20.8148, 31.5220

Triad

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



12.7471, 20.8148, 18.6750



22.6739, 20.8148, 52.8790



25.6061, 20.8148, 9.0418

Complementary

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



12.7471, 20.8148, 18.6750



11.5758, 5.9391, 1.8336

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.



28.5863, 20.8148, 15.6432



12.7471, 20.8148, 18.6750



26.7318, 20.8148, 41.6093

Square

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



12.7471, 20.8148, 18.6750



18.3371, 20.8148, 54.6206



29.0256, 20.8148, 27.1836



21.3048, 20.8148, 6.4941

Rectangle

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



12.7471, 20.8148, 18.6750



14.1001, 20.8148, 41.2397



29.0256, 20.8148, 27.1836



26.8204, 20.8148, 10.7201

Sweetspot

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



12.7477, 20.8156, 18.6755



34.4874, 43.0087, 46.5499



10.4622, 19.9753, 3.3046



7.6404, 9.7283, 10.4889



69.3244, 72.9347, 79.4259



10.7221, 11.2805, 12.2844

Same Dimension

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



12.7477, 20.8156, 18.6755



22.7626, 37.2499, 33.0993



9.9968, 12.0604, 27.7886



5.5109, 6.0966, 6.6562



11.2786, 18.4073, 16.5529



0.1159, 0.1792, 0.2005

Inverse Universe

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



11.5758, 5.9391, 1.8336



20.6753, 10.6136, 2.9985



12.0259, 7.2353, 0.7631



5.4538, 5.4420, 5.8876



10.2413, 5.2536, 1.6563



0.1048, 0.0530, 0.0523

Previews

White Background



This preview shows how the XYZ color 12.7471, 20.8148, 18.6750 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 12.7471, 20.8148, 18.6750 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

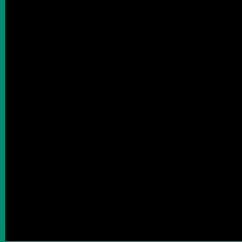
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.7471, 20.8148, 18.6750

Background



This preview shows how black text looks on a background with the XYZ color 12.7471, 20.8148, 18.6750.



This preview shows how white text looks on a background with the XYZ color 12.7471, 20.8148,

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

12.7471, 20.8148, 18.6750

Protanopia

19.4547, 20.6330, 15.7892

Deuteranopia

21.0328, 20.6218, 19.7015



Tritanopia

15.5520, 20.8824, 31.6448

Trichromacy



Original Color

12.7471, 20.8148, 18.6750

Protanomaly

14.5991, 19.4744, 16.6252

Deuteranomaly

15.1612, 19.1120, 19.1096

Tritanomaly

14.3009, 20.7806, 26.5499

Monochromacy



Original Color

12.7471, 20.8148, 18.6750

Achromatopsia

11.3621, 11.9538, 13.0177

Achromatomaly

10.4022, 14.0181, 14.7279

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7471, 20.8148, 18.6750 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, 143, 112)` looks like.

```
.text, #text, p{  
    color:rgb(0, 143, 112)  
}
```

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, 143, 112) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 143, 112) }
```

Border

The CSS property to change the border of an element to XYZ 12.7471, 20.8148, 18.6750 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, 143, 112) }
```


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

```
.border{ border-color:rgb(0, 143, 112) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 143, 112)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 143, 112); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 143, 112);  
box-shadow:4px 4px 4px 4px rgb(0, 143,  
112) }
```

Background

The CSS property to change the background color of an element to XYZ 12.7471, 20.8148, 18.6750 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 143, 112) }
```

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

```
.background{ background-color: rgb(0, 143,  
112) }
```

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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