

Converting Colors

XYZ(12.6117, 20.2709, 21.2436)

Have a look what the booklet for
XYZ(12.6117, 20.2709, 21.2436)
contains.

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Color

**XYZ(12.9761, 20.4302,
21.3487)**

Conversions

Conversions Part 1

Format	Color
Hex	008D79
RGB	0, 141, 121
RGB Percent	0%, 55%, 47%
CMY	0.9999, 0.4471, 0.5255
CMYK	1.00, 0.00, 0.14, 0.45
HSL	171°, 100%, 28%
HSV	171°, 100%, 55%
XYZ	12.9761, 20.4302, 21.3487
YIQ	96.5610, -77.6160, -36.1120

Conversions

Conversions Part 2

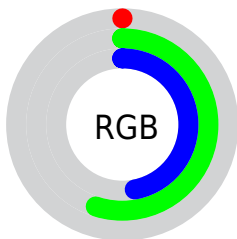
Format	Color
RYB	0, 76, 141
Decimal	36217
CIELab	52.32, -37.03, 1.60
CIELCh	52, 37.061, 177.520
Yxy	20.4302, 0.2370, 0.3731
Android (android.graphics.Color)	4278226297 (0xFF008D79)
YUV	96.5610, 12.0484, -84.6840
Hunter-Lab	45.1998, -27.8553, 3.6361

Details

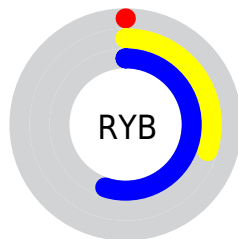
The XYZ color **12.9761, 20.4302, 21.3487** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **11.1115, 5.7139, 1.1800**, and the grayscale version is **11.2414, 11.8269, 12.8795**.

A 20% lighter version of the original color is **30.7141, 43.9322, 46.3961**, and **4.8588, 7.7934, 7.5515** is the 20% darker color. If you saturate the color by 10%, you get **12.9763, 20.4308, 21.3483**, and if you desaturate by 10%, it is **13.2834, 20.5748, 22.0106**.

Distribution



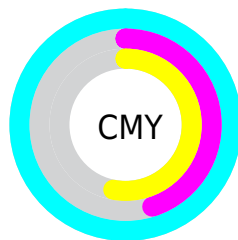
- Red (0%)
- Green (55%)
- Blue (47%)



- Red (0%)
- Yellow (30%)
- 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 12.9761, 20.4302, 21.3487 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 12.9761, 20.4302, 21.3487 by changing the saturation by 10% instead.

■ 12.9761, 20.4302,
21.3487

■ 12.9761, 20.4302,
21.3487

204.4051,
254.2346, 271.9675

■ 7.4890, 12.7081,
13.1854

■ 30.8625, 44.1373,
46.5554

■ 3.8188, 7.2279,
7.4241

■ 43.9925, 60.8911,
64.4360

■ 1.6001, 3.6050,
3.6463

■ 60.4009, 81.4243,
86.3927

■ 0.3925, 1.4552,
1.4334

■ 80.4529, 106.1212,
112.8441

■ 0.0000, 0.2569,
0.1675

■ 104.5140,
135.3663, 144.2087

■ 0.0000, 0.0000,
0.0000

■ 132.9495,

169.5440, 180.9052

166.1248,
209.0386, 223.3519

■ 12.9761, 20.4302,
21.3487

■ 12.9761, 20.4302,
21.3487

■ 12.9763, 20.4308,
21.3483

■ 13.2834, 20.5748,
22.0106

■ 13.7119, 20.7811,
22.6911

■ 14.3241, 21.0817,
23.3937

■ 15.1423, 21.4883,
24.1194

■ 16.1856, 22.0107,
24.8692

■ 17.4710, 22.6575,
25.6440

■ 19.0137, 23.4367,
26.4446

■ 20.8279, 24.3555,
27.2718

■ 22.9263, 25.4205,
28.1261

Harmonies

Analogous

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



13.8670, 20.4302, 12.7674



12.9761, 20.4302, 21.3487



13.6151, 20.4302, 33.4253

Triad

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



12.9761, 20.4302, 21.3487



23.0066, 20.4302, 46.5448



23.6274, 20.4302, 8.8179

Complementary

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



12.9761, 20.4302, 21.3487



11.1115, 5.7139, 1.1800

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.



26.6728, 20.4302, 13.8855



12.9761, 20.4302, 21.3487



26.2827, 20.4302, 35.5327

Square

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



12.9761, 20.4302, 21.3487



19.1027, 20.4302, 50.5065



27.7023, 20.4302, 23.1661



19.7373, 20.4302, 7.1709

Rectangle

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



12.9761, 20.4302, 21.3487



14.8760, 20.4302, 41.6013



27.7023, 20.4302, 23.1661



24.8022, 20.4302, 10.0751

Sweetspot

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



12.9767, 20.4310, 21.3492



33.8533, 41.8708, 47.2610



9.8381, 19.2116, 3.1903



7.3237, 9.2319, 10.4367



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.



12.9767, 20.4310, 21.3492



23.1907, 36.5683, 37.9826



8.6057, 9.5185, 26.5838



5.5278, 6.1034, 6.7453



11.8359, 18.6302, 19.4881



0.1190, 0.1805, 0.2171

Inverse Universe

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



11.1115, 5.7139, 1.1800



19.8584, 10.2158, 1.9052



12.0985, 7.8901, 0.8858



5.4381, 5.4358, 5.8052



10.1349, 5.2110, 1.0955



0.1017, 0.0517, 0.0358

Previews

White Background



This preview shows how the XYZ color 12.9761, 20.4302, 21.3487 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 12.9761, 20.4302, 21.3487 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

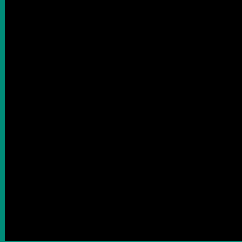
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.9761, 20.4302, 21.3487

Background



This preview shows how black text looks on a background with the XYZ color 12.9761, 20.4302, 21.3487.

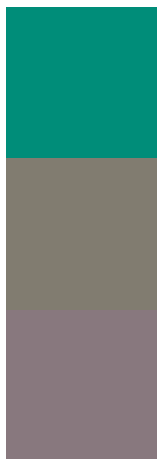


This preview shows how white text looks on a background with the XYZ color 12.9761, 20.4302,

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

12.9761, 20.4302, 21.3487

Protanopia

19.1855, 20.2523, 18.2271

Deuteranopia

20.6357, 20.1735, 22.5449



Tritanopia

15.1277, 20.4608, 31.1690

Trichromacy



Original Color

12.9761, 20.4302, 21.3487

Protanomaly

14.5568, 18.9969, 19.1192

Deuteranomaly

15.2877, 18.9198, 21.9149

Tritanomaly

14.0768, 20.2186, 27.2054

Monochromacy



Original Color

12.9761, 20.4302, 21.3487

Achromatopsia

11.3621, 11.9538, 13.0177

Achromatomaly

10.4933, 13.8750, 15.7608

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9761, 20.4302, 21.3487 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, 141, 121)` looks like.

```
.text, #text, p{  
    color:rgb(0, 141, 121)  
}
```

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, 141, 121) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 141, 121) }
```

Border

The CSS property to change the border of an element to XYZ 12.9761, 20.4302, 21.3487 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, 141, 121) }
```


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

```
.border{ border-color:rgb(0, 141, 121) }
```

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

Here you see how a box with a 4 pixel rgb(0, 141, 121) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 141, 121); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 141, 121);  
box-shadow:4px 4px 4px 4px rgb(0, 141,  
121) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9761, 20.4302, 21.3487 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 141, 121) }
```

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

```
.background{ background-color: rgb(0, 141,  
121) }
```

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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