

Converting Colors

XYZ(13.3488, 21.6264, 20.0835)

Have a look what the booklet for
XYZ(13.3488, 21.6264, 20.0835)
contains.

XYZ(13.2778, 21.5118, 19.9754)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(13.2778, 21.5118,
19.9754)**

Conversions

Conversions Part 1

Format	Color
Hex	009174
RGB	0, 145, 116
RGB Percent	0%, 57%, 45%
CMY	1.0000, 0.4314, 0.5451
CMYK	1.00, 0.00, 0.20, 0.43
HSL	168°, 100%, 28%
HSV	168°, 100%, 57%
XYZ	13.2778, 21.5118, 19.9754
YIQ	98.3390, -77.1110, -39.7590

Conversions

Conversions Part 2

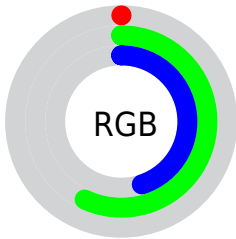
Format	Color
RYB	0, 81, 145
Decimal	37236
CIELab	53.51, -40.15, 6.19
CIELCh	54, 40.629, 171.231
Yxy	21.5118, 0.2425, 0.3928
Android (android.graphics.Color)	4278227316 (0xFF009174)
YUV	98.3390, 8.7069, -86.2433
Hunter-Lab	46.3808, -30.0658, 6.9314

Details

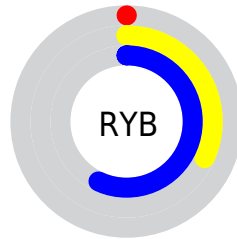
The XYZ color **13.2778, 21.5118, 19.9754** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **11.8996, 6.1090, 1.7152**, and the grayscale version is **11.6879, 12.2965, 13.3909**.

A 20% lighter version of the original color is **31.4685, 46.0670, 44.2790**, and **4.9577, 8.2461, 6.7992** is the 20% darker color. If you saturate the color by 10%, you get **13.2781, 21.5125, 19.9752**, and if you desaturate by 10%, it is **13.6388, 21.6786, 20.8874**.

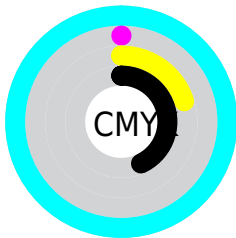
Distribution



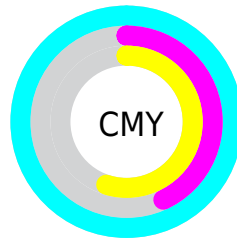
- Red (0%)
- Green (57%)
- Blue (45%)



- Red (0%)
- Yellow (32%)
- Blue (57%)



- Cyan (100%)
- Magenta (0%)
- Yellow (20%)
- Black (43%)



- Cyan (100%)
- Magenta (43%)
- Yellow (55%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.2778, 21.5118, 19.9754 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 13.2778, 21.5118, 19.9754 by changing the saturation by 10% instead.

■ 13.2778, 21.5118,
19.9754

■ 13.2778, 21.5118,
19.9754

206.2923,
259.9861, 264.3817

■ 7.6984, 13.4986,
12.1933

■ 31.3991, 45.9378,
44.2344

■ 3.9528, 7.7728,
6.7513

■ 44.6717, 63.1194,
61.5483

■ 1.6754, 3.9499,
3.2310

■ 61.2394, 84.1259,
82.8765

■ 0.4408, 1.6456,
1.2138

■ 81.4676, 109.3417,
108.6376

■ 0.0000, 0.3880,
0.0000

■ 105.7216,
139.1512, 139.2502

■ 0.0000, 0.0000,
0.0000

■ 134.3668,

173.9389, 175.1327

167.7686,
214.0890, 216.7037

■ 13.2778, 21.5118,
19.9754

■ 13.2778, 21.5118,
19.9754

■ 13.2781, 21.5125,
19.9752

■ 13.6388, 21.6786,
20.8874

■ 14.1334, 21.9132,
21.8329

■ 14.8264, 22.2494,
22.8156

■ 15.7416, 22.6996,
23.8370

■ 16.8998, 23.2744,
24.8983

■ 18.3191, 23.9831,
26.0004

■ 20.0159, 24.8343,
27.1445

■ 22.0053, 25.8356,
28.3314

■ 24.3011, 26.9943,
29.5620

Harmonies

Analogous

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



14.6222, 21.5118, 11.4479



13.2778, 21.5118, 19.9754



13.6314, 21.5118, 33.1524

Triad

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



13.2778, 21.5118, 19.9754



23.6090, 21.5118, 53.3859



26.1100, 21.5118, 9.3255

Complementary

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



13.2778, 21.5118, 19.9754



11.8996, 6.1090, 1.7152

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.



29.2216, 21.5118, 15.8114



13.2778, 21.5118, 19.9754



27.6419, 21.5118, 41.7313

Square

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



13.2778, 21.5118, 19.9754



19.2042, 21.5118, 55.7378



29.8186, 21.5118, 27.2454



21.7408, 21.5118, 6.8859

Rectangle

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



13.2778, 21.5118, 19.9754



14.8068, 21.5118, 42.8947



29.8186, 21.5118, 27.2454



27.3619, 21.5118, 10.9681

Sweetspot

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



13.2784, 21.5126, 19.9759



35.6364, 44.3684, 48.4779



10.7039, 20.5496, 3.4027



7.6638, 9.7377, 10.6120



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.



13.2784, 21.5126, 19.9759



23.7155, 38.4992, 35.4406



10.0536, 11.9294, 28.5618



5.5147, 6.0981, 6.6761



11.3979, 18.4550, 17.1815



0.1166, 0.1795, 0.2042

Inverse Universe

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



11.8996, 6.1090, 1.7152



21.2577, 10.9188, 2.7993



12.4737, 7.6123, 0.8122



5.4503, 5.4406, 5.8691



10.2140, 5.2426, 1.5125



0.1041, 0.0527, 0.0486

Previews

White Background



This preview shows how the XYZ color 13.2778, 21.5118, 19.9754 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 13.2778, 21.5118, 19.9754 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 13.2778, 21.5118, 19.9754

Background



This preview shows how black text looks on a background with the XYZ color 13.2778, 21.5118, 19.9754.



This preview shows how white text looks on a background with the XYZ color 13.2778, 21.5118,

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

13.2778, 21.5118, 19.9754

Protanopia

20.0747, 21.3086, 16.9648

Deuteranopia

21.6895, 21.2972, 21.0568



Tritanopia

16.0843, 21.5586, 33.0193

Trichromacy



Original Color

13.2778, 21.5118, 19.9754

Protanomaly

15.0859, 20.1073, 17.8378

Deuteranomaly

15.6625, 19.7382, 20.4371

Tritanomaly

14.8121, 21.4570, 27.7870

Monochromacy



Original Color

13.2778, 21.5118, 19.9754

Achromatopsia

11.6093, 12.2139, 13.3009

Achromatomaly

10.6671, 14.3055, 15.5636

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.2778, 21.5118, 19.9754 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, 145, 116)` looks like.

```
.text, #text, p{  
    color:rgb(0, 145, 116)  
}
```

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, 145, 116) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 145, 116) }
```

Border

The CSS property to change the border of an element to XYZ 13.2778, 21.5118, 19.9754 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, 145, 116) }
```


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

```
.border{ border-color:rgb(0, 145, 116) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 145, 116)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 145, 116); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 145, 116);  
box-shadow:4px 4px 4px 4px rgb(0, 145,  
116) }
```

Background

The CSS property to change the background color of an element to XYZ 13.2778, 21.5118, 19.9754 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 145, 116) }
```

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

```
.background{ background-color: rgb(0, 145,  
116) }
```

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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