

Converting Colors

XYZ(13.6032, 20.0035, 20.9947)

Have a look what the booklet for
XYZ(13.6032, 20.0035, 20.9947)
contains.

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Color

**XYZ(13.5081, 19.8517,
20.8891)**

Conversions

Conversions Part 1

Format	Color
Hex	2F8978
RGB	47, 137, 120
RGB Percent	18%, 54%, 47%
CMY	0.8157, 0.4627, 0.5294
CMYK	0.66, 0.00, 0.12, 0.46
HSL	169°, 49%, 36%
HSV	169°, 66%, 54%
XYZ	13.5081, 19.8517, 20.8891
YIQ	108.1520, -48.1830, -24.3670

Conversions

Conversions Part 2

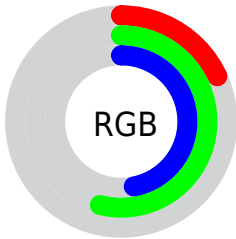
Format	Color
RYB	47, 97, 137
Decimal	3115384
CIELab	51.67, -30.75, 1.32
CIElCh	52, 30.777, 177.540
Yxy	19.8517, 0.2490, 0.3659
Android (android.graphics.Color)	4281305464 (0xFF2F8978)
YUV	108.1520, 5.8411, -53.6303
Hunter-Lab	44.5552, -23.8547, 3.3914

Details

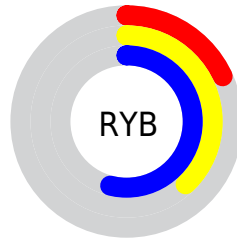
The XYZ color **13.5081, 19.8517, 20.8891** is a dark color, and the websafe version is hex **339999**. A complement of this color would be **12.2591, 7.7221, 5.6956**, and the grayscale version is **14.2909, 15.0351, 16.3732**.

A 20% lighter version of the original color is **31.7861, 43.1832, 45.6896**, and **4.4975, 7.1235, 7.2688** is the 20% darker color. If you saturate the color by 10%, you get **12.8182, 19.5144, 20.0483**, and if you desaturate by 10%, it is **14.4017, 20.2945, 21.7625**.

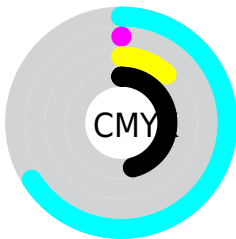
Distribution



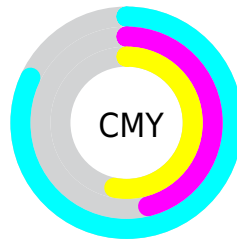
- Red (18%)
- Green (54%)
- Blue (47%)



- Red (18%)
- Yellow (38%)
- Blue (54%)



- Cyan (66%)
- Magenta (0%)
- Yellow (12%)
- Black (46%)



- Cyan (82%)
- Magenta (46%)
- Yellow (53%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.5081, 19.8517, 20.8891 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 13.5081, 19.8517, 20.8891 by changing the saturation by 10% instead.

■ 13.5081, 19.8517,
20.8891

■ 13.5081, 19.8517,
20.8891

207.7213,
251.1112, 269.4502

■ 7.8587, 12.2873,
12.8525

■ 31.8072, 43.1684,
45.7813

■ 4.0557, 6.9396,
7.1975

■ 45.1878, 59.6895,
63.4740

■ 1.7337, 3.4244,
3.5056

■ 61.8760, 79.9649,
85.2224

■ 0.4772, 1.3571,
1.3583

■ 82.2374, 104.3791,
111.4452

■ 0.0000, 0.1848,
0.1088

■ 106.6373,
133.3164, 142.5608

■ 0.0000, 0.0000,
0.0000

■ 135.4410,

167.1613, 178.9878

169.0139,
206.2981, 221.1448

■ 13.5081, 19.8517,
20.8891

■ 13.5081, 19.8517,
20.8891

■ 12.8182, 19.5144,
20.0483

■ 14.4017, 20.2945,
21.7625

■ 12.3109, 19.2703,
19.2376

■ 15.5142, 20.8491,
22.6680

■ 11.9577, 19.1052,
18.4559

■ 16.8612, 21.5241,
23.6070

■ 11.8219, 19.0423,
18.1266

■ 18.4564, 22.3265,
24.5803

■ 20.3124, 23.2629,
25.5887

■ 22.4410, 24.3394,
26.6327

■ 24.8532, 25.5615,
27.7133

■ 27.5596, 26.9348,
28.8309

■ 30.5699, 28.4642,
29.9862

Harmonies

Analogous

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



14.2642, 19.8517, 13.6727



13.5081, 19.8517, 20.8891



14.0525, 19.8517, 30.5280

Triad

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



13.5081, 19.8517, 20.8891



21.7670, 19.8517, 40.6069



22.2591, 19.8517, 10.1561

Complementary

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



13.5081, 19.8517, 20.8891



12.2591, 7.7221, 5.6956

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.



24.6754, 19.8517, 14.6315



13.5081, 19.8517, 20.8891



24.3701, 19.8517, 32.1572

Square

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



13.5081, 19.8517, 20.8891



18.6132, 19.8517, 43.6048



25.4869, 19.8517, 22.3578



19.1260, 19.8517, 8.6335

Rectangle

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



13.5081, 19.8517, 20.8891



15.1167, 19.8517, 36.8500



25.4869, 19.8517, 22.3578



23.1946, 19.8517, 11.2921

Sweetspot

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



13.5087, 19.8525, 20.8896



34.7361, 40.8311, 44.9574



11.6393, 19.2212, 5.7863



7.6131, 9.0684, 9.9859



65.7814, 69.2071, 75.3665



9.5508, 10.0482, 10.9424

Same Dimension

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



13.5087, 19.8525, 20.8896



22.4567, 34.7049, 35.1615



11.2642, 13.5631, 25.6920



5.1330, 5.6727, 6.2214



11.0158, 17.7389, 16.9058



0.0780, 0.1198, 0.1378

Inverse Universe

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



12.2591, 7.7221, 5.6956



20.0807, 11.2493, 5.9819



13.2791, 10.4218, 4.0014



5.0690, 5.0630, 5.4517



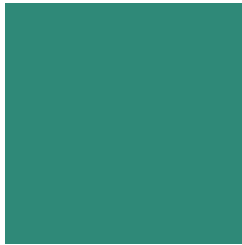
9.7858, 5.0244, 1.3765



0.0691, 0.0350, 0.0308

Previews

White Background



This preview shows how the XYZ color 13.5081, 19.8517, 20.8891 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 13.5081, 19.8517, 20.8891 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

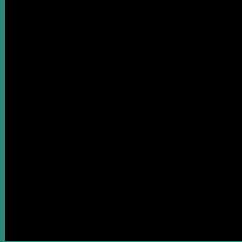
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 13.5081, 19.8517, 20.8891

Background



This preview shows how black text looks on a background with the XYZ color 13.5081, 19.8517, 20.8891.

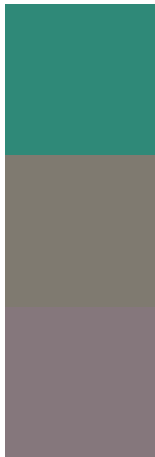


This preview shows how white text looks on a background with the XYZ color 13.5081, 19.8517,

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

13.5081, 19.8517, 20.8891

Protanopia

18.6366, 19.6009, 18.1303

Deuteranopia

19.9078, 19.6354, 21.8095



Tritanopia

15.3041, 19.9634, 29.4323

Trichromacy



Original Color

13.5081, 19.8517, 20.8891

Protanomaly

15.7209, 19.0132, 19.0610

Deuteranomaly

16.5155, 19.1765, 21.5699

Tritanomaly

14.5585, 19.8615, 25.9880

Monochromacy



Original Color

13.5081, 19.8517, 20.8891

Achromatopsia

14.2537, 14.9960, 16.3306

Achromatomaly

13.3592, 16.3419, 17.7794

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.5081, 19.8517, 20.8891 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(47, 137, 120)` looks like.

```
.text, #text, p{  
    color:rgb(47, 137, 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(47, 137, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(47, 137, 120) }
```

Border

The CSS property to change the border of an element to XYZ 13.5081, 19.8517, 20.8891 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(47, 137, 120) }
```


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

```
.border{ border-color:rgb(47, 137, 120) }
```

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

Here you see how a box with a 4 pixel `rgb(47, 137, 120)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(47, 137, 120); -webkit-box-  
shadow:4px 4px 4px 4px rgb(47, 137, 120);  
box-shadow:4px 4px 4px 4px rgb(47, 137,  
120) }
```

Background

The CSS property to change the background color of an element to XYZ 13.5081, 19.8517, 20.8891 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(47, 137, 120) }
```

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

```
.background{ background-color: rgb(47, 137,  
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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