

Converting Colors

XYZ(13.2670, 17.2212, 20.5507)

Have a look what the booklet for
XYZ(13.2670, 17.2212, 20.5507)
contains.

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Color

**XYZ(13.1963, 17.1110,
20.3765)**

Conversions

Conversions Part 1

Format	Color
Hex	477C78
RGB	71, 124, 120
RGB Percent	28%, 49%, 47%
CMY	0.7216, 0.5137, 0.5294
CMYK	0.43, 0.00, 0.03, 0.51
HSL	175°, 27%, 38%
HSV	175°, 43%, 49%
XYZ	13.1963, 17.1110, 20.3765
YIQ	107.6970, -30.3040, -12.4800

Conversions

Conversions Part 2

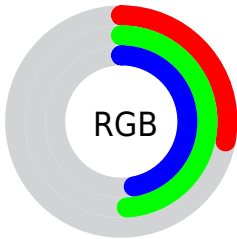
Format	Color
RYB	71, 99, 124
Decimal	4684920
CIELab	48.40, -18.68, -3.36
CIElCh	48, 18.980, 190.211
Yxy	17.1110, 0.2604, 0.3376
Android (android.graphics.Color)	4282875000 (0xFF477C78)
YUV	107.6970, 6.0654, -32.1833
Hunter-Lab	41.3654, -15.4449, -0.2503

Details

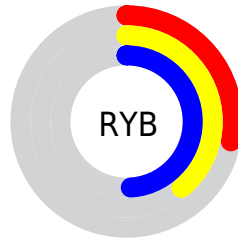
The XYZ color **13.1963, 17.1110, 20.3765** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **11.8360, 9.2999, 7.8284**, and the grayscale version is **14.1591, 14.8965, 16.2222**.

A 20% lighter version of the original color is **31.3369, 38.6338, 44.8352**, and **3.9352, 5.6286, 7.0099** is the 20% darker color. If you saturate the color by 10%, you get **12.3217, 16.6671, 20.0407**, and if you desaturate by 10%, it is **14.2581, 17.6522, 20.7247**.

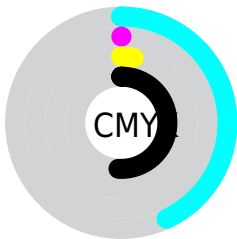
Distribution



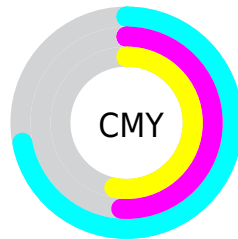
- Red (28%)
- Green (49%)
- Blue (47%)



- Red (28%)
- Yellow (39%)
- Blue (49%)



- Cyan (43%)
- Magenta (0%)
- Yellow (3%)
- Black (51%)



- Cyan (72%)
- Magenta (51%)
- Yellow (53%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.1963, 17.1110, 20.3765 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 13.1963, 17.1110, 20.3765 by changing the saturation by 10% instead.

■ 13.1963, 17.1110,
20.3765

■ 13.1963, 17.1110,
20.3765

205.7842,
235.8112, 266.6174

■ 7.6418, 10.3137,
12.4822

■ 31.2543, 38.5165,
44.9148

■ 3.9165, 5.6074,
6.9465

■ 44.4885, 53.8935,
62.3958

■ 1.6550, 2.6079,
3.3507

■ 61.0134, 72.8991,
83.9096

■ 0.4278, 0.9306,
1.2764

■ 81.1942, 95.9179,
109.8745

■ 0.0000, 0.0000,
0.0423

■ 105.3963,
123.3340, 140.7093

■ 0.0000, 0.0000,
0.0000

133.9851,

155.5320, 176.8323

167.3260,
192.8963, 218.6622

■ 13.1963, 17.1110,
20.3765

■ 13.1963, 17.1110,
20.3765

■ 12.3217, 16.6671,
20.0407

■ 14.2581, 17.6522,
20.7247

■ 11.6214, 16.3125,
19.7157

■ 15.5160, 18.2940,
21.0845

■ 11.0833, 16.0415,
19.4011

■ 16.9801, 19.0421,
21.4570

■ 10.6931, 15.8467,
19.0962

■ 18.6595, 19.9010,
21.8424

■ 10.4336, 15.7192,
18.8004

■ 20.5626, 20.8752,
22.2413

■ 10.2818, 15.6455,
18.5892

■ 22.6974, 21.9689,
22.6539

■ 25.0716, 23.1858,
23.0807

■ 27.6923, 24.5298,
23.5220

■ 30.5667, 26.0045,
23.9781

Harmonies

Analogous

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



13.3221, 17.1110, 15.5800



13.1963, 17.1110, 20.3765



13.8466, 17.1110, 25.5049

Triad

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



13.1963, 17.1110, 20.3765



18.5137, 17.1110, 26.9210



17.4193, 17.1110, 11.0095

Complementary

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



13.1963, 17.1110, 20.3765



11.8360, 9.2999, 7.8284

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.



18.9464, 17.1110, 13.1185



13.1963, 17.1110, 20.3765



19.6088, 17.1110, 22.0564

Square

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



13.1963, 17.1110, 20.3765



16.8621, 17.1110, 29.7042



19.7725, 17.1110, 16.9881



15.6792, 17.1110, 10.7213

Rectangle

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



13.1963, 17.1110, 20.3765



14.6618, 17.1110, 28.2134



19.7725, 17.1110, 16.9881



17.9778, 17.1110, 11.5086

Sweetspot

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



13.1968, 17.1117, 20.3769



29.7239, 33.4284, 37.7199



11.2798, 16.3837, 8.5293



6.8800, 7.8113, 8.8541



60.6688, 63.8283, 69.5090



7.9400, 8.3535, 9.0970

Same Dimension

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



13.1968, 17.1117, 20.3769



21.7563, 29.3664, 35.2964



10.9802, 12.2817, 20.8615



4.0946, 4.5075, 5.0322



10.4516, 15.9043, 18.8947



49.7155, 75.8092, 89.3949

Inverse Universe

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



11.8360, 9.2999, 7.8284



19.0391, 13.7466, 10.2244



13.3717, 12.5839, 7.6856



4.0095, 4.0195, 4.2475



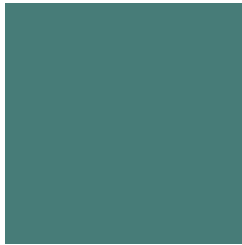
8.5018, 4.3769, 0.6676



40.4261, 20.8268, 2.5081

Previews

White Background



This preview shows how the XYZ color 13.1963, 17.1110, 20.3765 looks on a white 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

Black Background



This preview shows how the XYZ color 13.1963, 17.1110, 20.3765 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

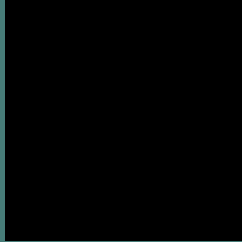
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 13.1963, 17.1110, 20.3765

Background



This preview shows how black text looks on a background with the XYZ color 13.1963, 17.1110, 20.3765.



This preview shows how white text looks on a background with the XYZ color 13.1963, 17.1110,

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

13.1963, 17.1110, 20.3765

Protanopia

16.2570, 16.9625, 18.3368

Deuteranopia

17.2856, 16.9365, 21.0969



Tritanopia

13.9484, 17.0409, 24.3838

Trichromacy



Original Color

13.1963, 17.1110, 20.3765

Protanomaly

14.8863, 16.9271, 19.0057

Deuteranomaly

15.3518, 16.7795, 20.8420

Tritanomaly

13.7269, 17.1409, 23.0071

Monochromacy



Original Color

13.1963, 17.1110, 20.3765

Achromatopsia

14.2537, 14.9960, 16.3306

Achromatomaly

13.6613, 15.6374, 17.6275

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.1963, 17.1110, 20.3765 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(71, 124, 120)` looks like.

```
.text, #text, p{  
    color:rgb(71, 124, 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(71, 124, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 124, 120) }
```

Border

The CSS property to change the border of an element to XYZ 13.1963, 17.1110, 20.3765 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(71, 124, 120) }
```


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

```
.border{ border-color:rgb(71, 124, 120) }
```

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

Here you see how a box with a 4 pixel `rgb(71, 124, 120)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 124, 120); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 124, 120);  
box-shadow:4px 4px 4px 4px rgb(71, 124,  
120) }
```

Background

The CSS property to change the background color of an element to XYZ 13.1963, 17.1110, 20.3765 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 124, 120) }
```

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

```
.background{ background-color: rgb(71, 124,  
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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