

Converting Colors

XYZ(13.1661, 15.2019, 12.1057)

Have a look what the booklet for
XYZ(13.1661, 15.2019, 12.1057)
contains.

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Color

**XYZ(13.1620, 15.1685,
12.1316)**

Conversions

Conversions Part 1

Format	Color
Hex	66705B
RGB	102, 112, 91
RGB Percent	40%, 44%, 36%
CMY	0.6000, 0.5608, 0.6431
CMYK	0.09, 0.00, 0.19, 0.56
HSL	89°, 10%, 40%
HSV	89°, 19%, 44%
XYZ	13.1620, 15.1685, 12.1316
YIQ	106.6160, 0.7810, -8.6510

Conversions

Conversions Part 2

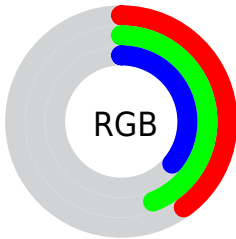
Format	Color
R_{YB}	91, 112, 101
Decimal	6713435
CIE _{Lab}	45.86, -7.97, 10.42
CIE _{LCh}	46, 13.124, 127.418
Yxy	15.1685, 0.3253, 0.3749
Android (android.graphics.Color)	4284903515 (0xFF66705B)
YUV	106.6160, -7.6987, -4.0482
Hunter-Lab	38.9468, -7.8330, 8.7944

Details

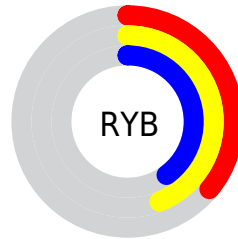
The XYZ color **13.1620, 15.1685, 12.1316** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **12.0332, 11.4191, 16.9000**, and the grayscale version is **13.8897, 14.6131, 15.9136**.

A 20% lighter version of the original color is **31.2200, 35.2463, 30.3570**, and **3.8826, 4.6685, 3.1791** is the 20% darker color. If you saturate the color by 10%, you get **12.1294, 14.6883, 9.7467**, and if you desaturate by 10%, it is **14.3065, 15.6989, 14.8989**.

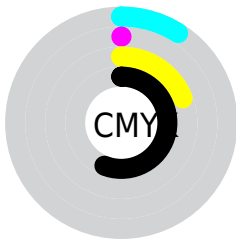
Distribution



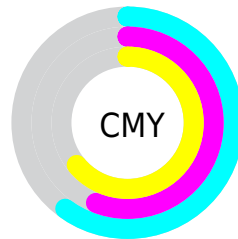
- Red (40%)
- Green (44%)
- Blue (36%)



- Red (36%)
- Yellow (44%)
- Blue (40%)



- Cyan (9%)
- Magenta (0%)
- Yellow (19%)
- Black (56%)



- Cyan (60%)
- Magenta (56%)
- Yellow (64%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.1620, 15.1685, 12.1316 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 13.1620, 15.1685, 12.1316 by changing the saturation by 10% instead.

■ 13.1620, 15.1685,
12.1316

■ 13.1620, 15.1685,
12.1316

205.5700,
224.3839, 216.2833

■ 7.6180, 8.9377,
6.7097

■ 31.1934, 35.1485,
30.4025

■ 3.9012, 4.7006,
3.2056

■ 44.4114, 49.6665,
44.0887

■ 1.6464, 2.0727,
1.2005

■ 60.9181, 67.7158,
61.3667

■ 0.4224, 0.6492,
0.0000

■ 81.0790, 89.6806,
82.6551

■ 0.0000, 0.0000,
0.0000

105.2592,
115.9454, 108.3724

133.8242,

146.8947, 138.9372

167.1394,
182.9127, 174.7680

■ 13.1620, 15.1685,
12.1316

■ 13.1620, 15.1685,
12.1316

■ 12.1294, 14.6883,
9.7467

■ 14.3065, 15.6989,
14.8989

■ 11.2035, 14.2548,
7.7263

■ 15.5653, 16.2791,
18.0633

■ 10.3806, 13.8667,
6.0528

■ 16.9424, 16.9113,
21.6402

■ 9.6561, 13.5223,
4.7066

■ 18.4412, 17.5969,
25.6434

■ 9.0253, 13.2195,
3.6660

■ 20.0647, 18.3371,
30.0866

■ 8.4827, 12.9560,
2.9069

■ 21.8161, 19.1335,
34.9826

■ 8.0221, 12.7293,
2.4015

■ 23.6983, 19.9871,
40.3436

■ 7.6252, 12.5319,
2.0572

■ 25.7142, 20.8992,
46.1816

■ 7.5780, 12.5085,
2.0150

■ 27.8666, 21.8710,
52.5079

Harmonies

Analogous

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



14.1441, 15.1685, 11.1779



13.1620, 15.1685, 12.1316



12.5396, 15.1685, 14.2837

Triad

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



13.1620, 15.1685, 12.1316



13.6151, 15.1685, 22.8089



16.6329, 15.1685, 15.7412

Complementary

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



13.1620, 15.1685, 12.1316



12.0332, 11.4191, 16.9000

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.



16.4734, 15.1685, 18.9694



13.1620, 15.1685, 12.1316



14.6938, 15.1685, 23.3292

Square

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



13.1620, 15.1685, 12.1316



12.7917, 15.1685, 20.5043



15.7498, 15.1685, 21.8466



16.1749, 15.1685, 13.0815

Rectangle

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



13.1620, 15.1685, 12.1316



12.3934, 15.1685, 16.2428



15.7498, 15.1685, 21.8466



16.6501, 15.1685, 16.7921

Sweetspot

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



13.1624, 15.1692, 12.1319



25.6857, 27.8334, 27.5462



13.2053, 13.4692, 11.8015



6.1468, 6.6757, 6.5580



55.7959, 58.7016, 63.9261



6.5000, 6.8385, 7.4471

Same Dimension

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



13.1624, 15.1692, 12.1319



22.2176, 26.2267, 19.1970



12.0667, 14.6043, 12.0806



3.4962, 3.8411, 3.6305



8.7337, 14.4461, 2.3281



42.5043, 71.4458, 11.5502

Inverse Universe

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



12.0332, 11.4191, 16.9000



19.8014, 18.2026, 29.3996



13.2597, 12.0514, 16.9574



3.3546, 3.3711, 4.2281



5.0730, 2.2247, 17.8836



24.2873, 10.5749, 89.0402

Previews

White Background



This preview shows how the XYZ color 13.1620, 15.1685, 12.1316 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 13.1620, 15.1685, 12.1316 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

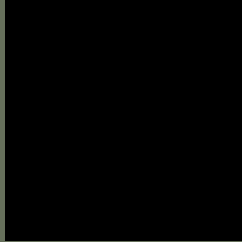
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 13.1620, 15.1685, 12.1316

Background



This preview shows how black text looks on a background with the XYZ color 13.1620, 15.1685, 12.1316.



This preview shows how white text looks on a background with the XYZ color 13.1620, 15.1685,

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

13.1620, 15.1685, 12.1316

Protanopia

14.2360, 15.0912, 11.6138

Deuteranopia

15.3835, 15.0509, 12.4502



Tritanopia

14.5173, 15.0736, 18.9740

Trichromacy



Original Color

13.1620, 15.1685, 12.1316

Protanomaly

13.7445, 14.9905, 11.8419

Deuteranomaly

14.5256, 15.0700, 12.2684

Tritanomaly

14.0011, 15.0232, 16.3492

Monochromacy



Original Color

13.1620, 15.1685, 12.1316

Achromatopsia

13.9749, 14.7027, 16.0113

Achromatomaly

13.6433, 14.8801, 14.4650

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.1620, 15.1685, 12.1316 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(102, 112, 91)` looks like.

```
.text, #text, p{  
    color:rgb(102, 112, 91)  
}
```

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(102, 112, 91) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 112, 91) }
```

Border

The CSS property to change the border of an element to XYZ 13.1620, 15.1685, 12.1316 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(102, 112, 91) }
```


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

```
.border{ border-color:rgb(102, 112, 91) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 112, 91)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 112, 91); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 112, 91);  
box-shadow:4px 4px 4px 4px rgb(102, 112,  
91) }
```

Background

The CSS property to change the background color of an element to XYZ 13.1620, 15.1685, 12.1316 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 112, 91) }
```

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

```
.background{ background-color: rgb(102,  
112, 91) }
```

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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