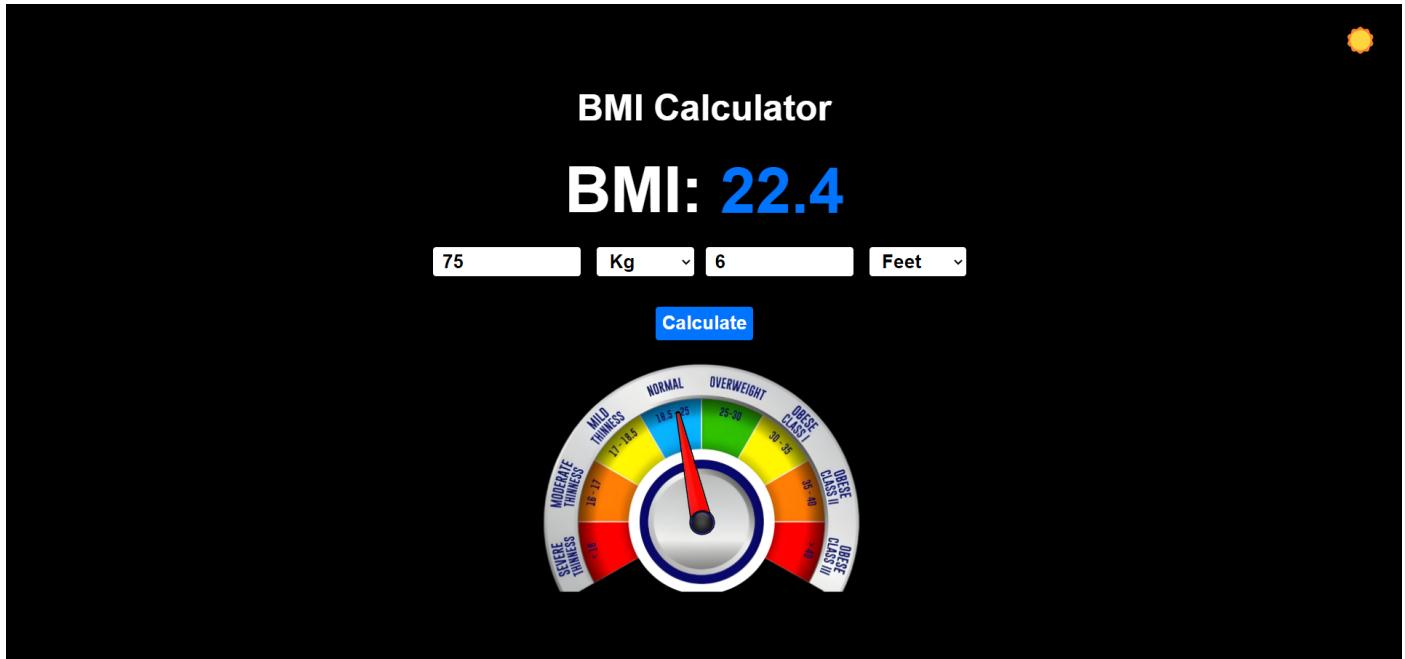


# BMI CALCULATOR

## SNIPPET



## SOURCE CODE

### HTML:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>BMI Calculator</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <button id="dark-mode-toggle">☀</button>
  <div class="main-body">
    <h1 style="font-size: 40px;">BMI Calculator</h1>
    <div style="display: flex; justify-content: center; align-items: center; flex-direction: row;">
      <p style="font-size: 70px; font-weight: bold; margin: 0;">BMI: </p>
      <p class="bmi" style="font-size: 70px; font-weight: bold; margin: 0; color: rgb(0, 115, 255);">0</p>
    </div>
    <div class="input">
      <div class="height-input">
        <input class="weight" type="text" placeholder="Weight">
        <select class="weight-unit">
          <option value="Kg">Kg</option>
          <option value="Pound">Pound</option>
          <option value="Ton">Ton</option>
        </select>
      </div>
      <div class="height-input">
        <input class="height" type="text" placeholder="Height">
        <select class="height-unit">
          <option value="Feet">Feet</option>
          <option value="Inches">Inches</option>
        </select>
      </div>
    </div>
    <div style="margin-top: 20px;">
      <h3>BMI CLASSIFICATION</h3>
      <div style="display: flex; justify-content: space-around; width: 100%;>
        <div style="text-align: center; width: 30%;>
          <img alt="BMI Dial" style="width: 100%; height: auto; border-radius: 50%; border: 1px solid #ccc; padding: 10px; margin-bottom: 10px;"/>
          <div style="background-color: #f0f0f0; border-radius: 50%; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center; font-size: 20px; font-weight: bold; color: #ccc; margin: 0 auto; border: 1px solid #ccc; border-radius: 50%; padding: 10px; position: relative; z-index: 1;"/>
          <div style="position: absolute; left: -10px; top: -10px; width: 20px; height: 20px; background-color: #fff; border-radius: 50%; border: 1px solid #ccc; z-index: 0;"/>
        </div>
      </div>
    </div>
  </div>
</body>
```

```

        </select>
    </div>
    <div class="weight-input">
        <input class="height" type="text" placeholder="Height">
        <select class="height-unit">
            <option value="Feet">Feet</option>
            <option value="Meters">Meters</option>
            <option value="Inches">Inches</option>
            <option value="Cm">Cm</option>
            <option value="Km">Km</option>
        </select>
    </div>
    </div>
    <input class="calculate-btn" type="submit" value="Calculate" onclick="calculate()">
<div class="meter">
    
    
</div>
</div>
<script src="script.js"></script>
</body>
</html>

```

## CSS:

```

body{
    display: flex;
    justify-content: center;
    align-items: center;
    height: 97vh;
    font-family: Arial;
}

```

```

.main-body {
    display: flex;
    justify-content: center;
    align-items: center;
    flex-direction: column;
}

```

```

.form {
    display: flex;
    justify-content: center;
    align-items: center;
    flex-direction: column;
}

```

```
.input {
```

```
display: flex;  
justify-content: center;  
align-items: center;  
flex-direction: row;  
margin-top: 20px;  
margin-bottom: 20px;  
}
```

```
.weight, .height {  
width: 150px;  
height: 30px;  
font-size: 21px;  
font-weight: bold;  
padding-left: 10px;  
margin-right: 10px;  
border: 2px solid black;  
border-radius: 5px;  
}
```

```
.height-unit, .weight-unit {  
width: 110px;  
height: 35px;  
font-size: 21px;  
font-weight: bold;  
padding-left: 10px;  
margin-right: 10px;  
border: 2px solid black;  
border-radius: 5px;  
}
```

```
.calculate-btn {  
width: 110px;  
height: 40px;  
font-size: 21px;  
font-weight: bold;  
margin-top: 10px;  
border: 2px solid black;  
border-radius: 5px;  
background-color: rgb(0, 115, 255);  
color: rgb(0, 0, 0);  
cursor: pointer;  
}
```

```
.meter {  
position: relative;  
display: inline-block;  
}
```

```

.gauge {
  position: absolute;
  top: 70%;
  left: 36%;
  transform: translate(-50%, -50%);
  transform: translate(-50%, -50%) rotate(-35deg);
  transform-origin: 86% 49%;
  transition: transform 0.7s cubic-bezier(0.25, 1.5, 0.5, 1);
}

@keyframes vibrate {
  0% { transform: translate(-50%, -50%) rotate(197deg); }
  25% { transform: translate(-50%, -50%) rotate(199deg); }
  50% { transform: translate(-50%, -50%) rotate(197deg); }
  75% { transform: translate(-50%, -50%) rotate(195deg); }
  100% { transform: translate(-50%, -50%) rotate(197deg); }
}

.vibrate {
  animation: vibrate 0.1s linear infinite;
}

```

```

#dark-mode-toggle {
  position: absolute;
  top: 20px;
  right: 20px;
  background-color: transparent;
  border: none;
  font-size: 30px;
}

```

## JavaScript:

```

var bmi = 0;

function calculate(){
  var height = document.querySelector(".height").value;
  var weight = document.querySelector(".weight").value;

  if(/^-?\d+(\.\d+)?$/ .test(height) === false || /^-?\d+(\.\d+)?$/ .test(weight) === false){
    return;
  }

  var heightUnit = document.querySelector(".height-unit").value;
  var weightUnit = document.querySelector(".weight-unit").value;

  if(heightUnit === "Cm"){
    height = eval(height/100);
  }
}

```

```

else if(heightUnit === "Inches"){
    height = eval(height*0.0254);
}

else if(heightUnit === "Feet"){
    height = eval(height*0.3048);
}

else if(heightUnit === "Km"){
    height = eval(height*1000);
}

if(weightUnit === "Pound"){
    weight = eval(weight*0.453592);
}

else if(weightUnit === "Ton"){
    weight = eval(weight*1000);
}

bmi = eval(weight/(height**2)).toFixed(1);
if(bmi <= 50 && bmi >= 10){
    document.querySelector(".bmi").style.height = "79px";
    animateBmi(bmi);
}
else{
    document.querySelector(".bmi").style.height = "106px";
    document.querySelector(".bmi").innerHTML = `${bmi} 💀`;
}
rotateGauge(getRotationDegree(bmi));
}

function getRotationDegree(value) {
    if (value < 16) {
        return (value / 16) * 33;
    } else if (value >= 16 && value <= 17) {
        return 33 + (value - 16) * (63 - 33);
    } else if (value > 17 && value <= 18.5) {
        return 63 + (value - 17) * (93 - 63) / 1.5;
    } else if (value > 18.5 && value <= 25) {
        return 93 + (value - 18.5) * (124 - 93) / (25 - 18.5);
    } else if (value > 25 && value <= 30) {
        return 124 + (value - 25) * (154 - 124) / (30 - 25);
    } else if (value > 30 && value <= 35) {
        return 154 + (value - 30) * (185 - 154) / (35 - 30);
    } else if (value > 35 && value <= 40) {
        return 185 + (value - 35) * (215 - 185) / (40 - 35);
    } else {
        return 230;
}
}

```

```
function rotateGauge(angle) {
    const gauge = document.querySelector(".gauge");
    gauge.style.transform = `translate(-50%, -50%) rotate(${angle-35}deg)`;
    console.log(angle);
    if (bmi > 40) {
        gauge.style.transform = `translate(-50%, -50%) rotate(193deg)`;
        setTimeout(() => {
            gauge.classList.add('vibrate');
        }, 600);
    } else {
        gauge.classList.remove('vibrate');
    }
}

function animateBmi(bmi) {
    let i = 0;
    const interval = 10;
    const step = 1;

    const bmiElement = document.querySelector(".bmi");

    const timer = setInterval(() => {
        if (i >= bmi) {
            clearInterval(timer);
            i = bmi;
        }
        bmiElement.innerHTML = i;
        i += step;
    }, interval);
}

const darkModeToggle = document.getElementById('dark-mode-toggle');
var buttons = document.querySelectorAll('#reset, #autoinc, #autodec, #stop');

if (localStorage.getItem('darkMode') === 'enabled') {
    enableDarkMode();
} else {
    disableDarkMode();
}

darkModeToggle.addEventListener('click', () => {
    if (localStorage.getItem('darkMode') !== 'enabled') {
        enableDarkMode();
    } else {
        disableDarkMode();
    }
});

function enableDarkMode() {
    darkModeToggle.innerHTML = '💡';
    document.body.style.backgroundColor = 'black';
}
```

```
document.querySelector('.calculate-btn').style.color = 'white';
document.body.style.color = 'white';

localStorage.setItem('darkMode', 'enabled');
}

function disableDarkMode() {
    darkModeToggle.innerHTML = '🌓';
    document.body.style.backgroundColor = 'white';
    document.querySelector('.calculate-btn').style.color = 'black';
    document.body.style.color = 'black';
    localStorage.setItem('darkMode', 'disabled');
}

document.addEventListener('keydown', function(event) {
    if (event.key === 'Enter') {
        calculate();
    }
});
```

GitHub: <https://github.com/DMegatron/BMI-Calculator>