

Temperature Converter

Html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
  <title>Temperature Converter</title>
  <link rel="stylesheet" href="style.css" />
</head>
<body>
  <div class="container">
    <div class="title">Temperature converter</div>

    <label for="temp">Degrees</label>
    <input type="number" id="temp" placeholder="Enter value" />

    <label for="unit">Type</label>
    <select id="unit">
      <option value="fahrenheit">Fahrenheit</option>
      <option value="celsius">Celsius</option>
      <option value="kelvin">Kelvin</option>
    </select>

    <label>Result</label>
    <div class="result" id="output">--</div>

    <button onclick="convertTemperature()">Convert</button>
  </div>

  <script src="script.js"></script>
</body>
</html>
```

CSS

```
* {
  box-sizing: border-box;
}

body {
  margin: 0;
  font-family: 'Segoe UI', sans-serif;
  background-color: rgb(131,137,150);
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
}

.container {
  background: #1f1f1f;
  width: 90%;
  max-width: 350px;
  padding: 30px 25px;
  border-radius: 18px;
  box-shadow: 0 4px 30px rgba(0, 0, 0, 0.9);
  color: #ffffff;
}

.title {
  font-size: 20px;
  font-weight: bold;
  text-align: center;
  margin-bottom: 25px;
  color: #ffffff;
}

label {
  font-size: 14px;
  color: #bbbbbb;
}

input,
select {
  width: 100%;
```

```
padding: 10px 12px;
font-size: 16px;
margin-top: 6px;
margin-bottom: 18px;
border: none;
border-bottom: 1px solid #444;
background: transparent;
color: #ffffff;
outline: none;
}
```

```
.result {
  font-size: 20px;
  font-weight: 500;
  color: #ffffff;
  margin-top: -10px;
  margin-bottom: 20px;
}
```

```
button {
  width: 100%;
  padding: 14px;
  font-size: 16px;
  background-color: #007aff;
  color: white;
  border: none;
  border-radius: 12px;
  cursor: pointer;
  font-weight: bold;
  transition: background 0.2s;
}
```

```
button:hover {
  background-color: #005edc;
}
```

```
.result {
  font-size: 18px;
  font-weight: 500;
  color: #ffffff;
  margin-top: 10px;
  margin-bottom: 20px;
  line-height: 1.5;
```

```
word-wrap: break-word;
white-space: normal;
}
```

JS

```
function convertTemperature() {
  const temp = parseFloat(document.getElementById("temp").value);
  const unit = document.getElementById("unit").value;
  const output = document.getElementById("output");

  // Check for invalid number
  if (isNaN(temp)) {
    output.textContent = "✗ Please enter a valid number.";
    return;
  }

  let celsius, fahrenheit, kelvin;

  // Temperature conversion based on selected unit
  switch (unit) {
    case "fahrenheit":
      celsius = (temp - 32) * 5 / 9;
      kelvin = celsius + 273.15;
      output.innerHTML = `
        <div>${celsius.toFixed(2)} °C</div>
        <div>${kelvin.toFixed(2)} K</div>
      `;
      break;

    case "celsius":
      fahrenheit = (temp * 9 / 5) + 32;
      kelvin = temp + 273.15;
      output.innerHTML = `
        <div>${fahrenheit.toFixed(2)} °F</div>
        <div>${kelvin.toFixed(2)} K</div>
      `;
      break;

    case "kelvin":
      celsius = temp - 273.15;
```

```

    fahrenheit = (celsius * 9 / 5) + 32;
    output.innerHTML = `
      <div>${celsius.toFixed(2)} °C</div>
      <div>${fahrenheit.toFixed(2)} °F</div>
    `;
    break;

  default:
    output.textContent = "❌ Invalid unit selected.";
  }
}

```

The image shows a dark-themed temperature converter application. The interface is contained within a dark gray rounded rectangle with a subtle shadow. At the top, the title "Temperature converter" is displayed in a bold, white font. Below the title, the text "Degrees" is shown in a smaller, lighter font. A text input field with the placeholder "Enter value" is positioned next to it. Below the input field, the text "Type" is shown, followed by a dropdown menu currently displaying "Fahrenheit" with a downward arrow icon. At the bottom left, the text "Result" is shown above a dashed line placeholder "--". A prominent blue button with the text "Convert" in white is located at the bottom center of the interface.

Temperature converter

Degrees

100

Type

Celsius



Result

212.00 °F

373.15 K

Convert

Temperature converter

Degrees

273.15

Type

Kelvin



Result

0.00 °C

32.00 °F

Convert

Temperature converter

Degrees

-40

Type

Fahrenheit



Result

-40.00 °C

233.15 K

Convert