<title>Speech to Text</title>

<h1>Speech to Text Converter</h1>

<div id="wrapper">

<textarea id="text" name="text" rows="4" style="overflow: hidden;height: 160px"></textarea>

</div>

<div class="container">

<br><br><br>

<img decoding="async" id="playButton" class="playButton" src="mic.png">

<br>

<span class="instruction">

Click on the mic to start recording

</span>

</div>

CSS (style.css)  
body {  
background-color: #dbdbdb;

}

.container {  
position: block;  
z-index: 3;  
top: 40%;  
left: 5%;  
opacity: 1;

}

h1 {  
margin-top: 3rem;  
font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;  
opacity: .8;  
}

.playButton {  
position: inline;  
height: 70px;  
width: 70px;  
}

.playButton:hover {  
box-shadow: 0 6px 20px 0 #00ff15;  
}

.submitButton {  
position: relative;  
width: 30%;  
border: none;  
font-size: 28px;  
color: black;  
padding: 10px;  
width: 1rem;  
text-align: center;  
-webkit-transition-duration: 0.4s;  
transition-duration: 0.4s;  
text-decoration: none;  
overflow: hidden;  
cursor: pointer;  
border-radius: 10px 10px 10px 10px;

}

.submitButton:hover {  
box-shadow: 0px 7px 1px 0px rgba(0, 0, 0, 0.0), 0 6px 20px 0 rgba(0, 0, 0, 0.19);

}

.submitButton:after {  
content: "";  
display: block;  
position: absolute;  
padding-top: 300%;  
padding-left: 350%;  
margin-left: -20px !important;  
margin-top: -120%;  
opacity: 0;  
transition: all 0.8s  
}

.submitButton:active:after {  
padding: 0;  
margin: 0;  
opacity: 1;  
transition: 0s;  
}

.recogText {  
position: block;  
top: 70%;  
left: 5%;  
right: 5%;  
height: 100%;  
width: 99.3%;  
font-size: 25px;  
}

#paper {  
font-size: 20px;  
z-index: 2;  
}

#margin {  
margin-left: 12px;  
margin-bottom: 20px;  
-webkit-user-select: none;  
-moz-user-select: none;  
-ms-user-select: none;  
-o-user-select: none;  
user-select: none;  
}

#text {  
width: 500px;  
height: 1000px;  
overflow: hidden;  
background-color: #cdcdcd;  
border: none;  
color: #222;  
font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;  
font-weight: normal;  
font-size: 24px;  
resize: none;  
line-height: 40px;  
padding-left: 50px;  
padding-right: 50px;  
padding-top: 20px;  
padding-bottom: 120px;  
-webkit-border-radius: 12px;  
border-radius: 12px;  
margin-top: 5rem;  
}

#title {  
background-color: transparent;  
border-bottom: 3px solid #FFF;  
color: #FFF;  
font-size: 20px;  
font-family: Courier, monospace;  
height: 28px;  
font-weight: bold;  
width: 220px;  
}

.instruction {  
font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serifS;  
}

#button {  
cursor: pointer;  
margin-top: 20px;  
float: right;  
height: 40px;  
padding-left: 24px;  
padding-right: 24px;  
font-family: Arial, Helvetica, sans-serif;  
font-weight: bold;  
font-size: 20px;  
color: red;  
text-shadow: 0px -1px 0px #000000;  
-webkit-border-radius: 8px;  
border-radius: 8px;  
border-top: 1px solid #FFF;  
-webkit-box-shadow: 0px 2px 14px #000;  
box-shadow: 0px 2px 14px #000;  
background-color: #62add6;  
background-image: url(<https://static.tumblr.com/maopbtg/ZHLmgtok7/button.png>);  
background-repeat: repeat-x;  
}

#button:active {  
zoom: 1;  
filter: alpha(opacity=80);  
opacity: 0.8;  
}

#button:focus {  
zoom: 1;  
filter: alpha(opacity=80);  
opacity: 0.8;  
}

#wrapper {  
width: 700px;  
height: auto;  
margin-left: auto;  
margin-right: auto;  
margin-top: 24px;  
/\* margin-bottom: 100px; \*/  
}

.th {  
position: absolute;  
transition: transform .2s;  
top: 200px;  
font-family: Segoe Print;  
left: 50px;  
color: yellow;  
-ms-transform: rotate(278deg);  
transform: rotate(342deg);  
text-shadow: 1px 3px #8CF7F2;  
font-size: 25px;  
-webkit-animation: glow 1s ease-in-out infinite alternate;  
-moz-animation: glow 1s ease-in-out infinite alternate;  
animation: glow 1s ease-in-out infinite alternate;

}

.th:hover {

transform: scale(1.1);

-ms-transform: rotate(278deg);

/\* IE 9 \*/

transform: rotate(350deg);

font-size: 40px

}

.blink {  
animation: blinker 1s linear infinite;  
color: yellow;  
font-size: 26px;  
font-weight: bold;  
font-family: cursive;  
}

[**@Keyframes**](https://github.com/Keyframes) blinker {  
50% {  
opacity: 0;  
}  
}  
JavaScript (script.js)  
var i = 0;

function speechToTextConversion() {  
var SpeechRecognition = SpeechRecognition || webkitSpeechRecognition

var SpeechRecognitionEvent = SpeechRecognitionEvent || webkitSpeechRecognitionEvent

var recognition = new SpeechRecognition();

recognition.continuous = true;

recognition.lang = 'en-IN';

recognition.interimResults = true;

recognition.maxAlternatives = 1;

var diagnostic = document.getElementById('text');

var i = 0;

var j = 0;

document.getElementById("playButton").onclick = function () {

if (i == 0) {

document.getElementById("playButton").src = "record-button-thumb.png";

recognition.start();

i = 1;

}

else {

document.getElementById("playButton").src = "mic.png";

recognition.stop();

i = 0;

}

}

recognition.onresult = function (event) {

var last = event.results.length - 1;

var convertedText = event.results[last][0].transcript;

diagnostic.value = convertedText;

console.log('Confidence: ' + event.results[0][0].confidence);

}

recognition.onnomatch = function (event) {

diagnostic.value = 'I didnt recognise that.';

}

recognition.onerror = function (event) {

diagnostic.value = 'Error occurred in recognition: ' + event.error;

}

}