/\* -------------------- ADVANCED CSS EXAMPLES -------------------- \*/

/\* -------------------- Loader Animation -------------------- \*/

.loader {

Width: 50px;

Height: 50px;

Border: 5px solid #f3f3f3; /\* Light grey border \*/

Border-top: 5px solid #3498db; /\* Blue border on top \*/

Border-radius: 50%;

Animation: spin 2s linear infinite; /\* Apply the spin animation \*/

}

@keyframes spin {

0% { transform: rotate(0deg); }

100% { transform: rotate(360deg); }

}

/\* -------------------- Pulsating Circle Animation -------------------- \*/

.pulsating-circle {

Width: 100px;

Height: 100px;

Background-color: #007bff;

Border-radius: 50%;

Opacity: 0.7;

Animation: pulsate 1.5s ease-in-out infinite alternate;

}

@keyframes pulsate {

0% { transform: scale(1); opacity: 0.7; }

100% { transform: scale(1.2); opacity: 1; }

}

/\* -------------------- Basic Responsive Grid Layout -------------------- \*/

.grid-container {

Display: grid;

Grid-template-columns: repeat(auto-fit, minmax(200px, 1fr)); /\* Creates responsive columns \*/

Gap: 20px; /\* Spacing between grid items \*/

}

.grid-item {

Background-color: #f0f0f0;

Padding: 20px;

Text-align: center;

}

/\* -------------------- Complex Grid Layout with Areas -------------------- \*/

.complex-grid {

Display: grid;

Grid-template-areas:

‘header header header’

‘sidebar content ads’

‘footer footer footer’;

Grid-gap: 10px;

}

.header { grid-area: header; background-color: #eee; padding: 20px; }

.sidebar { grid-area: sidebar; background-color: #ddd; padding: 20px; }

.content { grid-area: content; background-color: #ccc; padding: 20px; }

.ads { grid-area: ads; background-color: #bbb; padding: 20px; }

.footer { grid-area: footer; background-color: #aaa; padding: 20px; text-align: center; }

/\* -------------------- Styling based on URL Fragment (:target) -------------------- \*/

#section1:target {

Background-color: lightblue;

Border: 2px solid blue;

}

/\* -------------------- Styling based on Focus Within (:focus-within) -------------------- \*/

.form-group:focus-within {

Border: 2px solid green;

Box-shadow: 0 0 5px rgba(0, 128, 0, 0.5);

}