:root {

--font-display: ‘Orbitron’, sans-serif;

--font-buttons: ‘Roboto’, sans-serif;

/\* Light Mode \*/

--bg-light: linear-gradient(135deg, #e0c3fc 0%, #8ec5fc 100%);

--app-bg-light: rgba(255, 255, 255, 0.15);

--display-bg-light: rgba(255, 255, 255, 0.4);

--display-text-light: #2c3e50;

--button-bg-light: rgba(255, 255, 255, 0.5);

--button-text-light: #34495e;

--button-shadow-light1: rgba(0, 0, 0, 0.1);

--button-shadow-light2: rgba(255, 255, 255, 0.7);

--button-glow-light: rgba(142, 197, 252, 0.5);

--special-button-bg-light: rgba(142, 197, 252, 0.6);

--special-button-text-light: #fff;

/\* Dark Mode \*/

--bg-dark: linear-gradient(135deg, #232526 0%, #414345 100%);

--app-bg-dark: rgba(0, 0, 0, 0.2);

--display-bg-dark: rgba(0, 0, 0, 0.3);

--display-text-dark: #00ffcc; /\* Glowing text \*/

--button-bg-dark: rgba(50, 50, 50, 0.6);

--button-text-dark: #e0e0e0;

--button-shadow-dark1: rgba(0, 0, 0, 0.4);

--button-shadow-dark2: rgba(70, 70, 70, 0.3);

--button-glow-dark: rgba(0, 255, 204, 0.4);

--special-button-bg-dark: rgba(0, 200, 150, 0.5);

--special-button-text-dark: #000;

/\* General \*/

--panel-transition: transform 0.5s ease-in-out, opacity 0.5s ease-in-out;

}

Body {

Margin: 0;

Font-family: var(--font-buttons);

Display: flex;

Justify-content: center;

Align-items: center;

Min-height: 100vh;

Background: var(--bg-light);

Transition: background 0.5s ease;

Color: var(--button-text-light);

Overflow: hidden; /\* Prevent scrollbars during panel transitions \*/

}

Body.dark-mode {

Background: var(--bg-dark);

Color: var(--button-text-dark);

}

#calculator-app {

Width: 100%;

Max-width: 400px; /\* Max width for phone portrait \*/

Height: 100vh; /\* Full viewport height \*/

Max-height: 850px; /\* Max height for very tall phones, adjust as needed \*/

Background: var(--app-bg-light);

Backdrop-filter: blur(15px);

-webkit-backdrop-filter: blur(15px);

Border-radius: 30px;

Box-shadow: 0 20px 50px rgba(0,0,0,0.2);

Display: flex;

Flex-direction: column;

Overflow: hidden; /\* Crucial for panels \*/

Position: relative; /\* For absolute positioning of panels and theme toggle \*/

Transition: background 0.5s ease;

}

Body.dark-mode #calculator-app {

Background: var(--app-bg-dark);

Box-shadow: 0 20px 50px rgba(0,0,0,0.4);

}

.theme-toggle {

Position: absolute;

Top: 20px;

Right: 20px;

Width: 40px;

Height: 40px;

Background: var(--button-bg-light);

Color: var(--button-text-light);

Border: none;

Border-radius: 50%;

Font-size: 18px;

Cursor: pointer;

Display: flex;

Justify-content: center;

Align-items: center;

Box-shadow: 3px 3px 6px var(--button-shadow-light1), -3px -3px 6px var(--button-shadow-light2);

Transition: all 0.3s ease;

z-index: 1000;

}

Body.dark-mode .theme-toggle {

Background: var(--button-bg-dark);

Color: var(--button-text-dark);

Box-shadow: 3px 3px 6px var(--button-shadow-dark1), -3px -3px 6px var(--button-shadow-dark2);

}

.theme-toggle:active {

Transform: scale(0.95);

Box-shadow: inset 2px 2px 4px var(--button-shadow-light1), inset -2px -2px 4px var(--button-shadow-light2);

}

Body.dark-mode .theme-toggle:active {

Box-shadow: inset 2px 2px 4px var(--button-shadow-dark1), inset -2px -2px 4px var(--button-shadow-dark2);

}

#display-area {

Flex: 0 0 30%; /\* Display takes up about 30% of height, adjust as needed \*/

Background: var(--display-bg-light);

Color: var(--display-text-light);

Padding: 25px 20px;

Box-sizing: border-box;

Display: flex;

Flex-direction: column;

Justify-content: flex-end;

Align-items: flex-end;

Border-top-left-radius: 30px;

Border-top-right-radius: 30px;

Border-bottom: 1px solid rgba(255,255,255,0.2);

Transition: background 0.5s ease, color 0.5s ease;

Overflow: hidden;

}

Body.dark-mode #display-area {

Background: var(--display-bg-dark);

Color: var(--display-text-dark);

Border-bottom: 1px solid rgba(0,0,0,0.3);

}

#previous-operand {

Font-size: 1em;

Opacity: 0.7;

Height: 1.5em;

Margin-bottom: 5px;

Font-family: var(--font-display);

}

#current-operand {

Font-size: 2.8em; /\* Larger for current input/result \*/

Font-weight: 700;

Word-break: break-all;

Min-height: 1.5em; /\* Ensure space even when empty \*/

Font-family: var(--font-display);

}

.keypad-area {

Flex-grow: 1;

Display: flex;

Flex-direction: column;

Padding: 15px;

Overflow-y: auto; /\* For panels that might exceed height \*/

}

.button-row {

Display: flex;

Justify-content: space-between;

Margin-bottom: 10px; /\* Space between rows \*/

}

.button-row:last-child {

Margin-bottom: 0;

}

.calc-button {

Flex-basis: 22%; /\* Roughly 4 buttons per row with spacing \*/

Height: 60px; /\* Fixed height for buttons \*/

Border: none;

Border-radius: 15px; /\* Rounded buttons \*/

Background: var(--button-bg-light);

Color: var(--button-text-light);

Font-size: 1.3em;

Font-weight: 500;

Font-family: var(--font-buttons);

Cursor: pointer;

Box-shadow: 4px 4px 8px var(--button-shadow-light1), -4px -4px 8px var(--button-shadow-light2);

Transition: all 0.15s ease-out;

Display: flex;

Justify-content: center;

Align-items: center;

User-select: none; /\* Prevent text selection on double tap \*/

-webkit-tap-highlight-color: transparent; /\* Remove tap highlight on mobile \*/

}

Body.dark-mode .calc-button {

Background: var(--button-bg-dark);

Color: var(--button-text-dark);

Box-shadow: 4px 4px 8px var(--button-shadow-dark1), -4px -4px 8px var(--button-shadow-dark2);

}

.calc-button:hover { /\* Desktop hover \*/

Transform: translateY(-2px);

}

.calc-button:active {

Transform: scale(0.96);

Box-shadow: inset 3px 3px 6px var(--button-shadow-light1), inset -3px -3px 6px var(--button-shadow-light2);

Background: linear-gradient(145deg, rgba(255,255,255,0.4), rgba(255,255,255,0.6)); /\* Subtle press effect \*/

}

Body.dark-mode .calc-button:active {

Box-shadow: inset 3px 3px 6px var(--button-shadow-dark1), inset -3px -3px 6px var(--button-shadow-dark2);

Background: linear-gradient(145deg, rgba(40,40,40,0.5), rgba(60,60,60,0.7));

}

.calc-button.operation, .calc-button.scientific, .calc-button.trig, .calc-button.mode-toggle {

Background: var(--special-button-bg-light);

Color: var(--special-button-text-light);

Font-weight: 500;

}

Body.dark-mode .calc-button.operation,

Body.dark-mode .calc-button.scientific,

Body.dark-mode .calc-button.trig,

Body.dark-mode .calc-button.mode-toggle {

Background: var(--special-button-bg-dark);

Color: var(--button-text-dark); /\* Or a brighter color if special-button-text-dark is too dark \*/

Font-weight: bold;

}

Body.dark-mode .calc-button.operation:active,

Body.dark-mode .calc-button.scientific:active,

Body.dark-mode .calc-button.trig:active,

Body.dark-mode .calc-button.mode-toggle:active {

Background: linear-gradient(145deg, rgba(0,180,130,0.5), rgba(0,220,170,0.7));

}

.calc-button.equals {

Flex-basis: 48%; /\* Double width for equals \*/

Background: #ff6b6b; /\* A distinct color for equals \*/

Color: white;

}

Body.dark-mode .calc-button.equals {

Background: #e74c3c;

}

.calc-button.equals:active {

Background: linear-gradient(145deg, #e05a5a, #ff7c7c);

}

Body.dark-mode .calc-button.equals:active {

Background: linear-gradient(145deg, #c0392b, #f35b4b);

}

.calc-button.zero {

Flex-basis: 48%; /\* Double width for zero \*/

}

/\* Panel Base Styles \*/

.panel {

Position: absolute;

Top: 0; /\* Start hidden above or cover the keypad area \*/

Left: 0;

Width: 100%;

Height: 100%; /\* Cover the entire app or keypad area \*/

Background: var(--app-bg-light); /\* Match app background \*/

Backdrop-filter: blur(10px);

-webkit-backdrop-filter: blur(10px);

Padding: 20px;

Box-sizing: border-box;

Transform: translateX(100%); /\* Start off-screen to the right \*/

Opacity: 0;

Visibility: hidden;

Transition: var(--panel-transition);

z-index: 500; /\* Ensure it’s above the main keypad but below theme toggle \*/

display: flex;

flex-direction: column;

align-items: center;

overflow-y: auto;

border-radius: 30px; /\* Match main app rounding \*/

}

Body.dark-mode .panel {

Background: var(--app-bg-dark);

}

.panel.active {

Transform: translateX(0);

Opacity: 1;

Visibility: visible;

}

.panel-title {

Font-size: 1.8em;

Font-weight: 700;

Margin-bottom: 20px;

Color: var(--display-text-light);

Font-family: var(--font-display);

}

Body.dark-mode .panel-title {

Color: var(--display-text-dark);

}

.panel .close-panel-btn {

Position: absolute;

Top: 20px;

Left: 20px; /\* Positioned top-left \*/

Background: var(--special-button-bg-light);

Color: var(--special-button-text-light);

Width: 40px;

Height: 40px;

}

Body.dark-mode .panel .close-panel-btn {

Background: var(--special-button-bg-dark);

Color: var(--button-text-dark);

}

/\* Unit Converter Specifics \*/

#unit-converter-panel .converter-group {

Margin-bottom: 20px;

Width: 90%;

}

#unit-converter-panel label {

Display: block;

Margin-bottom: 8px;

Font-size: 0.9em;

Color: var(--button-text-light);

}

Body.dark-mode #unit-converter-panel label {

Color: var(--button-text-dark);

}

#unit-converter-panel select,

#unit-converter-panel input[type=”number”] {

Width: 100%;

Padding: 12px;

Margin-bottom: 10px;

Border-radius: 10px;

Border: 1px solid rgba(0,0,0,0.1);

Background: var(--display-bg-light);

Color: var(--display-text-light);

Font-size: 1em;

Box-sizing: border-box;

}

Body.dark-mode #unit-converter-panel select,

Body.dark-mode #unit-converter-panel input[type=”number”] {

Background: var(--display-bg-dark);

Color: var(--display-text-dark);

Border: 1px solid rgba(255,255,255,0.1);

}

/\* Chemistry Tool Specifics \*/

#chemistry-panel input[type=”text”] {

Width: 90%;

Padding: 12px;

Margin-bottom: 15px;

Border-radius: 10px;

Border: 1px solid rgba(0,0,0,0.1);

Background: var(--display-bg-light);

Color: var(--display-text-light);

Font-size: 1em;

Box-sizing: border-box;

}

Body.dark-mode #chemistry-panel input[type=”text”] {

Background: var(--display-bg-dark);

Color: var(--display-text-dark);

Border: 1px solid rgba(255,255,255,0.1);

}

#molar-mass-result {

Margin-top: 15px;

Font-size: 1.2em;

Font-weight: bold;

Color: var(--display-text-light);

}

Body.dark-mode #molar-mass-result {

Color: var(--display-text-dark);

}

/\* Physics Constants Panel \*/

#physics-constants-panel ul {

List-style: none;

Padding: 0;

Width: 90%;

}

#physics-constants-panel li {

Padding: 10px;

Margin-bottom: 8px;

Background: var(--button-bg-light);

Border-radius: 8px;

Font-size: 0.95em;

Box-shadow: 2px 2px 4px var(--button-shadow-light1);

Display: flex;

Justify-content: space-between;

}

Body.dark-mode #physics-constants-panel li {

Background: var(--button-bg-dark);

Box-shadow: 2px 2px 4px var(--button-shadow-dark1);

}

#physics-constants-panel li .symbol { font-weight: bold; font-style: italic; }

/\* Utility classes \*/

.hidden { display: none !important; }

/\* Tooltip for advanced functions \*/

.calc-button .tooltip {

Visibility: hidden;

Width: max-content;

Background-color: #555;

Color: #fff;

Text-align: center;

Border-radius: 6px;

Padding: 5px 8px;

Position: absolute;

z-index: 1;

bottom: 125%; /\* Position above the button \*/

left: 50%;

transform: translateX(-50%);

opacity: 0;

transition: opacity 0.3s;

font-size: 0.8em;

}

.calc-button:hover .tooltip { /\* Show on desktop hover \*/

Visibility: visible;

Opacity: 1;

}