Code Explanation: index.html
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Block 1 (lines 1-1)
L1: ?<!doctype html>
Explanation: HTML structure block.
Block 2 (lines 2-2)
L2: <html lang="en">
Explanation: Root HTML element wrapping the entire document.
Block 3 (lines 3-8)
L3: <head>
L4:   <meta charset="UTF-8">
L5:   <meta name="viewport" content="width=device-width, initial-scale=1.0">
L6:   <title>Pixel OS Portfolio</title>
L7:   <link rel="stylesheet" href="style.css">
L8: </head>
Explanation: Head section: metadata, title, and stylesheet links.
Block 4 (lines 9-9)
L9: <body>
Explanation: Body wrapper for all visible UI content.
Block 5 (lines 10-56)
L10:   <svg class="sprite" aria-hidden="true" focusable="false">
L11:   <symbol id="icon-computer" viewBox="0 0 24 24" shape-rendering="crispEdges">
L12:   <rect x="2" y="3" width="20" height="14" fill="#93c5fd" />
L13:   <rect x="3" y="4" width="18" height="12" fill="#e0f2fe" />
L14:   <rect x="2" y="3" width="20" height="14" fill="none" stroke="#1f2937" stroke-
    width="1" />
L15:   <rect x="9" y="17" width="6" height="2" fill="#1f2937" />
L16:   <rect x="7" y="19" width="10" height="2" fill="#475569" />
L17:   </symbol>
L18:   <symbol id="icon-user" viewBox="0 0 24 24" shape-rendering="crispEdges">
L19:   <rect x="8" y="3" width="8" height="8" fill="#fbcfe8" />
L20:   <rect x="7" y="4" width="10" height="6" fill="#f9a8d4" />
L21:   <rect x="6" y="11" width="12" height="8" fill="#a855f7" />
L22:   <rect x="4" y="19" width="16" height="3" fill="#7c3aed" />
L23:   </symbol>
L24:   <symbol id="icon-paint" viewBox="0 0 24 24" shape-rendering="crispEdges">
L25:   <rect x="3" y="4" width="18" height="16" fill="#fef08a" stroke="#92400e" stroke-
    width="1" />
L26:   <rect x="5" y="6" width="4" height="4" fill="#f87171" />
L27:   <rect x="10" y="6" width="4" height="4" fill="#60a5fa" />
L28:   <rect x="15" y="6" width="4" height="4" fill="#4ade80" />
L29:   <rect x="8" y="12" width="8" height="4" fill="#fdba74" />
L30:   <rect x="6" y="18" width="12" height="2" fill="#92400e" />
L31:   </symbol>
L32:   <symbol id="icon-doc" viewBox="0 0 24 24" shape-rendering="crispEdges">
L33:   <rect x="5" y="3" width="14" height="18" fill="#f8fafc" stroke="#1f2937" stroke-
    width="1" />
L34:   <rect x="7" y="7" width="10" height="2" fill="#94a3b8" />
L35:   <rect x="7" y="11" width="10" height="2" fill="#94a3b8" />
L36:   <rect x="7" y="15" width="8" height="2" fill="#94a3b8" />
L37:   </symbol>
L38:   <symbol id="icon-music" viewBox="0 0 24 24" shape-rendering="crispEdges">
L39:   <rect x="3" y="6" width="18" height="12" fill="#38bdf8" stroke="#0f172a" stroke-
    width="1" />
L40:   <rect x="5" y="8" width="6" height="8" fill="#0ea5e9" />
L41:   <rect x="13" y="8" width="6" height="8" fill="#0ea5e9" />
L42:   <rect x="9" y="10" width="6" height="4" fill="#e2e8f0" />
L43:   </symbol>
L44:   <symbol id="icon-gear" viewBox="0 0 24 24" shape-rendering="crispEdges">
L45:   <rect x="9" y="2" width="6" height="4" fill="#22d3ee" />

L46:   `<rect x="9" y="18" width="6" height="4" fill="#22d3ee" />`
L47:   `<rect x="2" y="9" width="4" height="6" fill="#22d3ee" />`
L48:   `<rect x="18" y="9" width="4" height="6" fill="#22d3ee" />`
L49:   `<rect x="7" y="7" width="10" height="10" fill="#0f172a" />`
L50:   `<rect x="9" y="9" width="6" height="6" fill="#38bdf8" />`
L51:   `</symbol>`
L52:   `<symbol id="icon-folder" viewBox="0 0 24 24" shape-rendering="crispEdges">`
L53:   `<rect x="2" y="7" width="20" height="13" fill="#facc15" stroke="#a16207" stroke-width="1" />`
L54:   `<rect x="2" y="5" width="10" height="4" fill="#fde047" stroke="#a16207" stroke-width="1" />`
L55:   `</symbol>`
L56: `</svg>`
Explanation: Defines SVG symbols used as pixel icons across the UI.
Block 6 (lines 58-58)
L58: `<div id="desktop">`
Explanation: Desktop container that holds the top bar, icons, windows, and dock.
Block 7 (lines 59-59)
L59:   `<header class="topbar">`
Explanation: Head section: metadata, title, and stylesheet links.
Block 8 (lines 60-60)
L60:   `<div class="menu-left">`
Explanation: HTML structure block.
Block 9 (lines 61-61)
L61:   `<div class="menu-root">`
Explanation: HTML structure block.
Block 10 (lines 62-62)
L62:   `<button class="menu-button" id="menu-toggle" type="button" aria-expanded="false" aria-controls="menu-dropdown">`
Explanation: HTML structure block.
Block 11 (lines 63-63)
L63:   `<span class="menu-logo" aria-hidden="true"></span>`
Explanation: HTML structure block.
Block 12 (lines 64-64)
L64:   CHUS
Explanation: HTML structure block.
Block 13 (lines 65-65)
L65:   `</button>`
Explanation: HTML structure block.
Block 14 (lines 66-66)
L66:   `<div class="menu-dropdown" id="menu-dropdown" role="menu" aria-label="Chus menu">`
Explanation: HTML structure block.
Block 15 (lines 67-67)
L67:   `<button class="menu-option" type="button" data-menu-action="about">ABOUT THIS WEB</button>`
Explanation: HTML structure block.
Block 16 (lines 68-68)
L68:   `<button class="menu-option" type="button" data-menu-action="settings">SYSTEM PREFERENCES...</button>`
Explanation: HTML structure block.
Block 17 (lines 69-69)
L69:   `<div class="menu-separator" role="presentation"></div>`
Explanation: HTML structure block.
Block 18 (lines 70-70)
L70:   `<button class="menu-option" type="button" data-menu-action="portfolio">PORTFOLIO</button>`
Explanation: HTML structure block.
Block 19 (lines 71-71)
L71:   `<button class="menu-option" type="button" data-menu-action="login">LOGIN / REGISTER</button>`

Explanation: HTML structure block.
Block 20 (lines 72-72)
L72:   </div>
Explanation: HTML structure block.
Block 21 (lines 73-73)
L73:   </div>
Explanation: HTML structure block.
Block 22 (lines 74-74)
L74:   FILE
Explanation: HTML structure block.
Block 23 (lines 75-75)
L75:   EDIT
Explanation: HTML structure block.
Block 24 (lines 76-76)
L76:   VIEW
Explanation: HTML structure block.
Block 25 (lines 77-77)
L77:   WINDOW
Explanation: HTML structure block.
Block 26 (lines 78-78)
L78:   HELP
Explanation: HTML structure block.
Block 27 (lines 79-79)
L79:   </div>
Explanation: HTML structure block.
Block 28 (lines 80-80)
L80:   <div class="menu-right" id="clock">THU FEB 5 11:56 PM</div>
Explanation: HTML structure block.
Block 29 (lines 81-81)
L81:   </header>
Explanation: HTML structure block.
Block 30 (lines 83-104)
L83:   <section class="desktop-icons" aria-label="Desktop icons">
L84:   <button class="desktop-icon" data-window="window-computer" type="button">
L85:   <svg class="icon"><use href="#icon-computer"></use></svg>
L86:   MY COMP...
L87:   </button>
L88:   <button class="desktop-icon" data-window="window-about" type="button">
L89:   <svg class="icon"><use href="#icon-user"></use></svg>
L90:   ABOUT
L91:   </button>
L92:   <button class="desktop-icon" data-window="window-paint" type="button">
L93:   <svg class="icon"><use href="#icon-paint"></use></svg>
L94:   PAINT
L95:   </button>
L96:   <button class="desktop-icon" data-window="window-music" type="button">
L97:   <svg class="icon"><use href="#icon-music"></use></svg>
L98:   MUSIC
L99:   </button>
L100:   <button class="desktop-icon" data-window="window-settings" type="button">
L101:   <svg class="icon"><use href="#icon-gear"></use></svg>
L102:   SETTINGS
L103:   </button>
L104:   </section>
Explanation: Desktop app shortcuts; double-click opens the associated window.
Block 31 (lines 106-144)
L106:   <section class="window is-open" id="window-computer" data-title="MY COMPUTER"
    role="dialog" aria-hidden="false">
L107:   <div class="window-titlebar">
L108:   <div class="window-controls">

L109:   <button class="control close" data-action="close" aria-label="Close"></button>
L110:   <button class="control minimize" data-action="minimize" aria-
    label="Minimize"></button>
L111:   <button class="control maximize" data-action="maximize" aria-
    label="Maximize"></button>
L112:   </div>
L113:   <div class="window-title">MY COMPUTER</div>
L114:   <div></div>
L115:   </div>
L116:   <div class="window-toolbar">
L117:   <button class="icon-btn" id="computer-back" type="button"><<</button>
L118:   <div class="breadcrumb" id="computer-breadcrumb">PORTFOLIO</div>
L119:   </div>
L120:   <div class="window-body">
L121:   <aside class="file-sidebar" id="computer-sidebar">
L122:   <button class="sidebar-item active" data-section="portfolio" type="button">
L123:   <svg class="icon small"><use href="#icon-folder"></use></svg>
L124:   PORTFOLIO
L125:   </button>
L126:   <button class="sidebar-item" data-section="about" type="button">
L127:   <svg class="icon small"><use href="#icon-user"></use></svg>
L128:   ABOUT
L129:   </button>
L130:   <button class="sidebar-item" data-section="contact" type="button">
L131:   <svg class="icon small"><use href="#icon-doc"></use></svg>
L132:   CONTACT
L133:   </button>
L134:   <button class="sidebar-item" data-section="experience" type="button">
L135:   <svg class="icon small"><use href="#icon-folder"></use></svg>
L136:   WORK EXPERIENCE
L137:   </button>
L138:   </aside>
L139:   <div class="file-list" id="computer-list"></div>
L140:   <div class="file-preview" id="computer-preview">
L141:   <div class="empty-state">SELECT A FILE TO PREVIEW</div>
L142:   </div>
L143:   </div>
L144:   </section>
Explanation: Window section: My Computer file browser and preview area.
Block 32 (lines 146-202)
L146:   <section class="window" id="window-about" data-title="ABOUT" role="dialog" aria-
    hidden="true">
L147:   <div class="window-titlebar">
L148:   <div class="window-controls">
L149:   <button class="control close" data-action="close" aria-label="Close"></button>
L150:   <button class="control minimize" data-action="minimize" aria-
    label="Minimize"></button>
L151:   <button class="control maximize" data-action="maximize" aria-
    label="Maximize"></button>
L152:   </div>
L153:   <div class="window-title">ABOUT</div>
L154:   <div></div>
L155:   </div>
L156:   <div class="window-body about-body">
L157:   <div class="resume">
L158:   <div class="resume-header">
L159:   <div class="resume-photo" role="img" aria-label="Portrait placeholder"></div>
L160:   <div class="resume-intro">
L161:   <h2 class="pixel-title">YOUR NAME</h2>
L162:   <p>Art director and UX/UI designer with 10+ years in advertising and

startups, focused on user experience and branding.</p>
L163:   <p>Currently building playful digital systems and pixel-perfect interfaces.
       Replace with your real bio.</p>
L164:   </div>
L165:   </div>
L167:   <div class="resume-section">
L168:   <h3 class="pixel-title">SKILLS</h3>
L169:   <div class="tags">
L170:   BRAND IDENTITY
L171:   BRAND STRATEGY
L172:   BRAND SYSTEM
L173:   CREATIVE DIRECTION
L174:   GRAPHIC DESIGN
L175:   ILLUSTRATION
L176:   LOGO
L177:   WEB DESIGN
L178:   PRODUCT DESIGN
L179:   DESIGN SYSTEMS
L180:   WORDPRESS
L181:   </div>
L182:   </div>
L184:   <div class="resume-section">
L185:   <h3 class="pixel-title">SELECTED CLIENTS</h3>
L186:   <p class="resume-line">NATIONALE NEDERLANDEN - LEROY MERLIN - HP - HERMES -
       HEMA - SPACES - HEINEKEN - FUJIF - MELITTA - YOIGO - TELEFIZZA</p>
L187:   </div>
L189:   <div class="resume-section">
L190:   <h3 class="pixel-title">CONTACT</h3>
L191:   <div class="contact-list">
L192:   CHUSMARGALLO@GMAIL.COM
L193:   BOOK A CALL
L194:   X
L195:   LINKEDIN
L196:   BEHANCE
L197:   DRIBBBLE
L198:   </div>
L199:   </div>
L200:   </div>
L201:   </div>
L202:   </section>
Explanation: Window section: About/resume view with skills, clients, and contact.
Block 33 (lines 204-224)
L204:   <section class="window" id="window-paint" data-title="PAINT" role="dialog" aria-
       hidden="true">
L205:   <div class="window-titlebar">
L206:   <div class="window-controls">
L207:   <button class="control close" data-action="close" aria-label="Close"></button>
L208:   <button class="control minimize" data-action="minimize" aria-
       label="Minimize"></button>
L209:   <button class="control maximize" data-action="maximize" aria-
       label="Maximize"></button>
L210:   </div>
L211:   <div class="window-title">PAINT</div>
L212:   <div></div>
L213:   </div>
L214:   <div class="window-body paint-body">
L215:   <div class="paint-toolbar">
L216:   <label>COLOR <input type="color" id="paint-color" value="#1d4ed8"></label>
L217:   <label>SIZE <input type="range" id="paint-size" min="2" max="18"
       value="6"></label>

L218:   `<button id="paint-clear" type="button">CLEAR</button>`
L219:   `</div>`
L220:   `<div class="paint-area">`
L221:   `<canvas id="paint-canvas"></canvas>`
L222:   `</div>`
L223:   `</div>`
L224:   `</section>`
Explanation: Window section: Pixel paint app canvas and tools.
Block 34 (lines 226-288)
L226:   `<section class="window" id="window-music" data-title="MUSIC" role="dialog" aria-hidden="true">`
L227:   `<div class="window-titlebar">`
L228:   `<div class="window-controls">`
L229:   `<button class="control close" data-action="close" aria-label="Close"></button>`
L230:   `<button class="control minimize" data-action="minimize" aria-label="Minimize"></button>`
L231:   `<button class="control maximize" data-action="maximize" aria-label="Maximize"></button>`
L232:   `</div>`
L233:   `<div class="window-title">MUSIC</div>`
L234:   `<div></div>`
L235:   `</div>`
L236:   `<div class="window-body music-body">`
L237:   `<div class="music-card">`
L238:   `<div class="music-cover" aria-hidden="true"></div>`
L239:   `<div class="music-info">`
L240:   `<div class="music-label">NOW PLAYING</div>`
L241:   `<div class="music-title" id="music-title">GARAGE PUNK</div>`
L242:   `<div class="music-subtitle" id="music-subtitle">PUNK RADIO</div>`
L243:   `</div>`
L244:   `</div>`
L246:   `<button class="music-play" id="music-play" type="button" aria-label="Play or pause">||</button>`
L248:   `<div class="volume-row">`
L249:   `<span class="volume-icon" aria-hidden="true">+</span>`
L250:   `<input class="volume-slider" id="music-volume" type="range" min="0" max="100" value="39">`
L251:   `<span class="volume-percent" id="music-volume-percent">39%</span>`
L252:   `</div>`
L254:   `<div class="station-section">`
L255:   `<div class="pixel-title">STATIONS</div>`
L256:   `<div class="station-list">`
L257:   `<button class="station-item active" type="button" data-track="GARAGE PUNK" data-genre="PUNK RADIO">`
L258:   `<span class="station-meta">`
L259:   `<span class="station-name">GARAGE PUNK</span>`
L260:   `<span class="station-genre">PUNK</span>`
L261:   `</span>`
L262:   `<span class="station-eq" aria-hidden="true"><span></span><span></span><span></span></span>`
L263:   `</button>`
L264:   `<button class="station-item" type="button" data-track="LO-FI BEATS" data-genre="LO-FI RADIO">`
L265:   `<span class="station-meta">`
L266:   `<span class="station-name">LO-FI BEATS</span>`
L267:   `<span class="station-genre">LO-FI</span>`
L268:   `</span>`
L269:   `<span class="station-eq" aria-hidden="true"><span></span><span></span><span></span></span>`
L270:   `</button>`

L271:   <button class="station-item" type="button" data-track="MIDNIGHT SYNTH" data-genre="SYNTH RADIO">
L272:
L273:   MIDNIGHT SYNTH
L274:   SYNTH
L275:
L276:
L277:   </button>
L278:   <button class="station-item" type="button" data-track="BEACH CHILL" data-genre="CHILL RADIO">
L279:
L280:   BEACH CHILL
L281:   CHILL
L282:
L283:
L284:   </button>
L285:   </div>
L286:   </div>
L287:   </div>
L288: </section>
Explanation: Window section: Music player UI with stations, volume, and play control.
Block 35 (lines 290-352)
L290: <section class="window" id="window-settings" data-title="SETTINGS" role="dialog" aria-hidden="true">
L291:   <div class="window-titlebar">
L292:   <div class="window-controls">
L293:   <button class="control close" data-action="close" aria-label="Close"></button>
L294:   <button class="control minimize" data-action="minimize" aria-label="Minimize"></button>
L295:   <button class="control maximize" data-action="maximize" aria-label="Maximize"></button>
L296:   </div>
L297:   <div class="window-title">SETTINGS</div>
L298:   <div></div>
L299:   </div>
L300:   <div class="window-body settings-body">
L301:   <div class="settings-section">
L302:   <h3 class="pixel-title">APPEARANCE</h3>
L303:   <div class="appearance-options">
L304:   <button class="appearance-option active" type="button" data-theme="light">
L305:
L306:   LIGHT
L307:   </button>
L308:   <button class="appearance-option" type="button" data-theme="dark">
L309:
L310:   DARK
L311:   </button>
L312:   </div>
L313:   </div>
L314:   <div class="settings-section">
L315:   <h3 class="pixel-title">BACKGROUND</h3>
L316:   <div class="background-grid">
L317:   <button class="bg-option" type="button" data-bg="warm">
L318:
L319:   WARM NEUTRAL
L320:   </button>
L321:   <button class="bg-option" type="button" data-bg="cool">
L322:

L323:   COOL GRAY
L324:   </button>
L325:   <button class="bg-option" type="button" data-bg="lavender">
L326:
L327:   LAVENDER
L328:   </button>
L329:   <button class="bg-option" type="button" data-bg="forest">
L330:
L331:   FOREST
L332:   </button>
L333:   <button class="bg-option" type="button" data-bg="sunset">
L334:
L335:   SUNSET
L336:   </button>
L337:   <button class="bg-option" type="button" data-bg="clouds">
L338:
L339:   CLOUDS
L340:   </button>
L341:   <button class="bg-option" type="button" data-bg="street">
L342:
L343:   STREET
L344:   </button>
L345:   <button class="bg-option active" type="button" data-bg="beach">
L346:
L347:   BEACH
L348:   </button>
L349:   </div>
L350:   </div>
L351:   </div>
L352:   </section>
Explanation: Window section: Settings panel for appearance and background themes.
Block 36 (lines 354-370)
L354:   <footer class="dock" aria-label="Dock">
L355:   <button class="dock-icon" data-window="window-about" type="button">
L356:   <svg class="icon"><use href="#icon-user"></use></svg>
L357:   </button>
L358:   <button class="dock-icon" data-window="window-computer" type="button">
L359:   <svg class="icon"><use href="#icon-computer"></use></svg>
L360:   </button>
L361:   <button class="dock-icon" data-window="window-paint" type="button">
L362:   <svg class="icon"><use href="#icon-paint"></use></svg>
L363:   </button>
L364:   <button class="dock-icon" data-window="window-music" type="button">
L365:   <svg class="icon"><use href="#icon-music"></use></svg>
L366:   </button>
L367:   <button class="dock-icon" data-window="window-settings" type="button">
L368:   <svg class="icon"><use href="#icon-gear"></use></svg>
L369:   </button>
L370:   </footer>
Explanation: Dock with quick-launch app icons.
Block 37 (lines 371-371)
L371:   </div>
Explanation: HTML structure block.
Block 38 (lines 373-373)
L373:   <script src="app.js" defer></script>
Explanation: Loads the JavaScript that powers UI interactions.
Block 39 (lines 374-374)
L374: </body>
Explanation: Closes the body element.
Block 40 (lines 375-375)

L375: </html>
Explanation: Closes the root HTML element.