

HOME – PROTOTIPO INTERATIO


Danilo Novais Portfolio Homepage

Technical Documentation & Design Specifications

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Version: 3.0

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Status:  Ready for Implementation

1. PROJECT OVERVIEW

1.1 Vision & Goals

Create a premium institutional portfolio that demonstrates design excellence not just through showcased work, but through the site's own execution. The homepage must:

- Establish immediate credibility through atmospheric visual design and editorial sophistication
- Guide visitors intuitively from brand introduction → work showcase → contact
- Feel distinctive and memorable without sacrificing usability or accessibility
- Perform flawlessly across all devices and connection speeds
- Reflect the designer's philosophy: "You don't see design. But it sees you."

Success looks like:

- Visitors spending 2+ minutes exploring the portfolio
- High engagement with featured projects (50%+ click-through)
- Contact form conversions from qualified leads
- Zero accessibility violations (WCAG AA minimum)
- Lighthouse scores: Performance 90+, Accessibility 100, Best Practices 100

1.2 Target Audience

Primary:

- Brand managers and marketing directors at mid-to-large companies seeking design partners
- Creative agencies looking for freelance brand designers or collaborators
- Startups and scale-ups needing brand identity and campaign work

Secondary:

- Design recruiters and HR professionals
- Fellow designers and creative community (peer recognition)
- Potential collaborators for interdisciplinary projects

User Needs:

- Quickly understand what Danilo does and his areas of expertise
- See evidence of high-quality work across branding, campaigns, and digital
- Assess cultural fit and working style
- Easily initiate contact

1.3 Key Success Metrics

Engagement: Average session duration, scroll depth, interaction rate

Conversion: Contact form submissions, portfolio page visits

Technical: Page load time <3s, Core Web Vitals passing, 0 console errors

Accessibility: WCAG AA compliance, keyboard navigation coverage

1.4 Technical Constraints

- No localStorage/sessionStorage in artifacts (Claude.ai environment restriction)
- Self-hosted assets where possible to avoid external dependencies
- Graceful degradation for WebGL/3D features (fallback to static alternatives)
- Mobile-first responsive design (majority of traffic expected from mobile)
- Performance budget: <2MB initial page weight, <5s time to interactive

2. DESIGN SYSTEM

2.1 Color Palette

Token	Value	Uso
-----	-----	
bluePrimary	`#0048ff`	Cor primária da marca, CTAs, links, elementos interativos
blueAccent	`#4fe6ff`	Destaques secundários, brilhos "ghost"/atmosfera
purpleDetails	`#8705f2`	Pequenos detalhes e highlights
pinkDetails	`#f501d3`	Pequenos detalhes, ênfases pontuais
background	`#040013`	Fundo escuro principal
backgroundLight	`#f0f0f0`	Seções claras (forms, blocos alternados)
text	`#fcffff`	Texto principal em fundo escuro
textInverse	`#0e0e0e`	Texto em fundos claros
textEmphasis	`#2E85F2`	Palavras destacadas no meio do texto
textHighlight	`#4fe6ff`	Destaques curtos, intros breves
textSecondary	`#a1a3a3`	Infos secundárias, metadata
neutral	`#0b0d3a`	Gradientes, fundos sutis
neutralLight	`#F5F5F5`	Fundos de seções secundárias

> Obs: `textEmphasis` estava com `##2E85F2` e `textHilght` com typo - normalizei para `textHighlight`.

2.2 Typography

****Fonte primária:**** TT Norms Pro (self-hosted, fallback: `ui-sans-serif, system-ui`)

Tokens de texto ****responsivos**** (usando `clamp`) para manter coerência em todos os breakpoints:

Token	Mobile (~<640px)	Desktop (~≥1024px)	Peso	Uso
-----	-----	-----	-----	
display	2.5rem (40px)	4.5rem (72px)	Black	Frases grandes no meio da página, não-semânticas (Big Phrase)
h1	2rem (32px)	3.5rem (56px)	Bold	Hero headlines, títulos principais
h2	1.5rem (24px)	2.5rem (40px)	Bold	Títulos de seção
h3	1.25rem (20px)	1.75rem (28px)	Medium	Títulos de cards, subtítulos
body	1rem (16px)	1.125rem (18px)	Regular	Texto corrido
small	0.875rem (14px)	0.875rem (14px)	Reg/Med	Labels, legendas
micro	0.75rem (12px)	0.75rem (12px)	Mono	Tags, infos de sistema

Tokens em CSS com `clamp()`

```
['css
:root {
  --font-display: clamp(2.5rem, 5vw, 4.5rem);
  --font-h1:      clamp(2rem, 4vw, 3.5rem);
  --font-h2:      clamp(1.5rem, 3vw, 2.5rem);
  --font-h3:      clamp(1.25rem, 2vw, 1.75rem);
  --font-body:    clamp(1rem, 1.2vw, 1.125rem);
  --font-small:   0.875rem;
  --font-micro:   0.75rem;
}

body {
  font-family: "TT Norms Pro", ui-sans-serif, system-ui, -apple-system,
    BlinkMacSystemFont,
    "Segoe UI", sans-serif;
}

.display-text {
  font-size: var(--font-display);
  font-weight: 700;
  line-height: 1.1;
}
```

```

.h1 {
  font-size: var(--font-h1);
  font-weight: 700;
  line-height: 1.1;
}

.h2 {
  font-size: var(--font-h2);
  font-weight: 700;
  line-height: 1.15;
}

.h3 {
  font-size: var(--font-h3);
  font-weight: 500;
  line-height: 1.2;
}

.body {
  font-size: var(--font-body);
  font-weight: 400;
  line-height: 1.5;
}

.small {
  font-size: var(--font-small);
}

.micro {
  font-size: var(--font-micro);
  font-family: ui-monospace, SFMono-Regular, Menlo, Monaco, Consolas,
    "Liberation Mono", "Courier New",
    monospace;
}

```

Versão conceitual em Tailwind

```

// tailwind.config.js
module.exports = {
  theme: {
    extend: {
      fontFamily: {
        sans: ['"TT Norms Pro"', "ui-sans-serif", "system-ui"],
      },
      fontSize: {
        display: [
          "clamp(2.5rem, 5vw, 4.5rem)",
          { lineHeight: "1.1", fontWeight: "700" },
        ],
        h1: [
          "clamp(2rem, 4vw, 3.5rem)",
          { lineHeight: "1.1", fontWeight: "700" },
        ],
        h2: [
          "clamp(1.5rem, 3vw, 2.5rem)",

```

```

    { lineHeight: "1.15", fontWeight: "700" },
  ],
  h3: [
    "clamp(1.25rem, 2vw, 1.75rem)",
    { lineHeight: "1.2", fontWeight: "500" },
  ],
  body: [
    "clamp(1rem, 1.2vw, 1.125rem)",
    { lineHeight: "1.5", fontWeight: "400" },
  ],
  small: ["0.875rem", { lineHeight: "1.4" }],
  micro: ["0.75rem", { lineHeight: "1.4" }],
},
},
},
};']

```

2.3 Spacing & Grid

Container

- max-width: 1680px
- Padding horizontal: clamp(24px, 5vw, 96px)

Ritmo Vertical

- Seções: py-16 md:py-24
- Componentes: gap-8 md:gap-12
- Elementos internos: gap-4 md:gap-6

Grid (Tailwind)

- Mobile (até md):
- Layout: 1 coluna (grid-cols-1 ou flex flex-col)
- w-full
- Alinhamento:
- text-center para todos os textos
- items-center e justify-center para stacks verticais (flex-col)
- Tablet (md:):
- Cards em md:grid-cols-2
- Hero / destaques podem continuar 1 coluna
- Textos podem voltar a text-left se fizer sentido
- Desktop (lg:+):
- Distribuição customizada por seção
- Textos geralmente alinhados à esquerda para leitura longa

Regra de alinhamento para mobile (base do sistema):

Breakpoint padrão: < 768px

Regra:

- Todos os títulos (display, h1, h2, h3), parágrafos e CTAs usam text-align: center.
- Componentes em coluna usam align-items: center.
- Imagens e ícones principais centralizados (margin-inline: auto).

Exemplo padrão de seção:

```
<section className="flex flex-col items-center text-center md:items-start md:text-left">
  {/* conteúdo */}
</section>
```

2.4 Animation Principles

Filosofia: animações orgânicas e intencionais, nunca gratuitas.

Core Library: Framer Motion

Diretrizes:

- Animar apenas transform e opacity (performance)
- Easing: cubic-bezier(0.22, 1, 0.36, 1) (easeOutExpo)
- Duração: 300–700ms na maioria das transições
- Stagger: 60–120ms entre elementos sequenciais
- Respeitar prefers-reduced-motion: desabilitar animações não essenciais

Padrões comuns:

```
// Scroll reveal
<motion.div
  initial={{ opacity: 0, y: 24 }}
  whileInView={{ opacity: 1, y: 0 }}
  transition={{ duration: 0.6, ease: [0.22, 1, 0.36, 1] }}
/>
```

```
// Hover (botões, cards)
<motion.button
  whileHover={{ scale: 1.02, y: -2 }}
  transition={{ duration: 0.3 }}
/>
```

```
// Staggered children
const variants = {
  hidden: { opacity: 0 },
  visible: {
    opacity: 1,
    transition: { staggerChildren: 0.08 },
  },
};
```

Em mobile, como tudo é centralizado e o fluxo é vertical, as entradas preferenciais vêm de baixo (y: 24 → 0) acompanhando o scroll.

2.5 Display Text / Big Phrases (Frases em destaque)

Frases grandes no meio da página, com grande destaque visual, mas sem função de título semântico.

Token: display

Diretrizes de uso:

- Quando usar:
- Frases de impacto, statements da marca, quotes, promessas fortes de seção.
- Semântica:
- Usar como `<p>` ou `` com classe específica:
- `className="display-text"` ou `className="text-display"`
- Exemplo:

```
<p className="text-display">
```

Construímos experiências digitais que parecem magia, mas são guiadas por dados.

```
</p>
```

- Alinhamento:
- Mobile: sempre centralizado, com largura limitada:
- Ex.: `className="text-display max-w-2xl mx-auto text-center"`
- Desktop: pode ser centralizado ou seguir a grid da seção (recomendado manter centralizado em blocos de destaque).
- Espaçamento:
- Mais respiro que títulos normais:
- Ex.: `mt-16 mb-12` (ajustar conforme a seção).
- Cores:
- Base: `text (#fcffff)`
- Palavras-chave com `textEmphasis` e `textHighlight`.

Exemplo em JSX/Tailwind:

```
<section className="py-16 flex flex-col items-center text-center">
```

```
<p className="text-display max-w-2xl mx-auto">
```

Criamos produtos que parecem

`` magia``, mas são construídos com

`` engenharia séria``.

```
</p>
```

```
</section>
```

2.6 Global Assets

Logos:

– Favicon:

```
`https://aymuvxysygrwoicsjgxj.supabase.co/storage/v1/object/public/logo_site/Favicon.svg`
```

– Favicon Light:

```
`https://aymuvxysygrwoicsjgxj.supabase.co/storage/v1/object/public/logo_site/FaviconLight.svg`
```

- Logo Light (full):
`https://aymuvxysygrwoicsjgxj.supabase.co/storage/v1/object/public/logo_site/LogoLight.svg`
- Logo Dark (full):
`https://aymuvxysygrwoicsjgxj.supabase.co/storage/v1/object/public/logo_site/LogoDark.svg`

2.7 Fonts:

- font-family: 'TT Norms Pro';
src:
url('https://aymuvxysygrwoicsjgxj.supabase.co/storage/v1/object/public/assets/fonts/TT%20Norms%20Pro%20Thin.woff2') format('woff2');
font-weight: 100;
font-style: normal;
font-display: swap;
- font-face {
font-family: 'TT Norms Pro';
src:
url('https://aymuvxysygrwoicsjgxj.supabase.co/storage/v1/object/public/assets/fonts/TT%20Norms%20Pro%20Light.woff2') format('woff2');
font-weight: 300;
font-style: normal;
font-display: swap;
- font-face {
font-family: 'TT Norms Pro';
src:
url('https://aymuvxysygrwoicsjgxj.supabase.co/storage/v1/object/public/assets/fonts/TT%20Norms%20Pro%20Regular.woff2') format('woff2');
font-weight: 400;
font-style: normal;
font-display: swap;
- font-face {
font-family: 'TT Norms Pro';
src:
url('https://aymuvxysygrwoicsjgxj.supabase.co/storage/v1/object/public/assets/fonts/TT%20Norms%20Pro%20Medium.woff2') format('woff2');
font-weight: 500;
font-style: normal;
font-display: swap;
- font-face {
font-family: 'TT Norms Pro';
src:
url('https://aymuvxysygrwoicsjgxj.supabase.co/storage/v1/object/public/assets/fonts/TT%20Norms%20Pro%20Bold.woff2') format('woff2');
font-weight: 700;


```

font-style: normal;
font-display: swap;

- font-face {
  font-family: 'TT Norms Pro';
  src:
    url('https://aymuvxysygrwoicsjgxj.supabase
    .co/storage/v1/object/public/assets/fonts/TT%20Norms%20Pro%20Black
    .woff2') format('woff2');
  font-weight: 900;
  font-style: normal;
  font-display: swap;
}

/* Fonte Mono para Tags */
@font-face {
  font-family: 'PPSupplyMono';
  src: url('https://assets.codepen.io/7558/PPSupplyMono-Variable.woff2')
    format('woff2');
  font-weight: 100 900;
  font-style: normal;
  font-display: swap;
}

```

Videos:

- Manifesto Video:
`https://aymuvxysygrwoicsjgxj.supabase
.co/storage/v1/object/public/project-videos/VIDEO-APRESENTACAO-PORTFOLIO
.mp4`

Client Logos:

- 12 monochromatic SVG logos: `client1.svg` through `client12.svg`
- Base URL:
`https://aymuvxysygrwoicsjgxj.supabase
.co/storage/v1/object/public/client-logos/`

3. SITE ARCHITECTURE

3.1 Information Architecture

Homepage

- └─ Header (persistent navigation)
- └─ Hero + Manifesto Video
- └─ Portfolio Showcase (3 categories)
- └─ Featured Projects (4 highlighted works)
- └─ Clients/Brands (logo grid)
- └─ Contact (form + info)
- └─ Footer

Other Pages (linked from homepage)

- └─ /sobre (About page)
- └─ /portfolio (Full portfolio with filters)
- └─ /portfolio/[slug] (Individual project pages)

3.2 Navigation Structure

Primary Navigation (Header):

- Home → `/` or `#hero`
- Sobre (About) → `/sobre`
- Portfólio → `/portfolio`
- Contato (Contact) → `#contact` (always anchors to contact section)

Secondary Navigation (Footer):

- Same as primary navigation
- Additional: Social media links

3.3 Section Flow

The homepage follows a narrative arc:

1. Header: Establishes brand identity and provides navigation
2. Hero: Creates emotional impact and communicates positioning
3. Manifesto Video: Deepens understanding through motion storytelling
4. Portfolio Showcase: Introduces work categories with editorial rhythm
5. Featured Projects: Demonstrates quality through curated examples
6. Clients/Brands: Builds credibility through association
7. Contact: Provides clear conversion path
8. Footer: Reinforces brand and provides supplementary navigation

**4. COMPONENT SPECIFICATIONS

4.1 Header

****Purpose:**** Provide persistent, accessible navigation using a clean, static interface.

Desktop (≥1024px): Static Glass Header

****Layout:****

- Position: `position: sticky`, `top: 24px` (or `top: 0` with padding), `z-index: 40`
- Width: Partial container (centered), or Full-width (based on preference, images suggest clean alignment)
- Height: `64px`
- Style: Pill-shaped or Bar, translucent glass effect (`backdrop-filter: blur(12px)`), subtle border.
- ****Behavior:**** COMPLETELY STATIC. No movement tracking, no physics.

****Content:****

- Left: Logo (SVG) –
https://aymuxysygrwoicsjgxj.supabase.co/storage/v1/object/public/logo_site/FaviconLight.svg
- Right: Navigation Links (Home, Sobre, Portfólio, Contato)

****Interaction – Contrast Adaptation (Scroll):****

Essential for visibility on the white 'Contato' section shown in designs.

- **Trigger:** When the header overlaps a light-colored background (e.g., the white Contact section).
- **Action:**
 - Text/Icon color switches to **Blue** (Primary Brand Color).
 - Background may increase opacity for readability.
- **Transition:** `transition: all 0.3s ease`.

Desktop (≥1024px): Fluid Glass Header

- Layout:
 - Position: `position: sticky`, `top: 0`, `z-index: 40`
 - Width: Partial container (not full-width), horizontally centered
 - Height: `56-72px`
 - Style: Pill-shaped with rounded corners, translucent glass effect (blur + subtle gradient)
- Content:
 - Left: Logo (Favicon Light)
https://aymuvxysygrwoicsjgxj.supabase.co/storage/v1/object/public/logo_site/FaviconLight.svg
 - Right: Horizontal navigation list (Home, Sobre, Portfólio, Contato)
- Interaction - Fluid Glass Effect:
 - The header responds to cursor movement along the X-axis:
 - Follow behavior: Subtle horizontal translation (`maxTranslateX: 40-60px`)
 - Spring physics: `followDamping: 0.08-0.12s`, gentle overshoot
 - Scale: Slight horizontal stretch (`maxScaleX: 1.05`) and vertical compression (`maxScaleY: 1.02`)
 - Visual: Refraction distortion, chromatic aberration on edges, backdrop blur
- Fallback (no WebGL / reduced motion):
 - Same layout and typography
 - Static positioning with standard backdrop-filter blur or solid/gradient background
 - No cursor-following behavior

Mobile & Tablet (≤1023px): Staggered Menu Header

- Layout:
 - Position: Fixed bar at top, full-width
 - Height: `48-64px`
 - Content: Logo (left), Hamburger icon (right)
- Menu Overlay (when open):
 - Fullscreen or near-fullscreen overlay
 - Gradient background (primary to neutral)
 - Navigation items in vertical column, large text, generous spacing
 - Social media icons at bottom
- Animation:
 - Open: Overlay fades in (`opacity: 0 → 1`, 200-250ms), panel slides in from right (`translateX: 100% → 0`, 260-320ms), hamburger morphs to X
 - Items appear with stagger: `opacity: 0 → 1`, `translateY: 16px → 0`, `staggerDelay: 100ms`
 - Close: Reverse sequence, items disappear in reverse order
- Interactions:
 - Tap X icon: Close menu
 - Tap navigation item: Close menu + navigate

- Tap overlay background: Close menu
- Accessibility:
 - `aria-label` on hamburger/X icon
 - `aria-expanded` state
 - Focus trap within open menu
 - ESC key closes menu
- Mobile-Specific Implementation Notes:
 - The header does not have the glass effect on mobile
 - The logo is positioned flush left with no additional spacing
 - The hamburger menu icon is positioned flush right with 16px padding
 - When open, the menu covers the entire viewport

**4.2 Hero + Manifesto

✨ Objetivo

Criar uma experiência hero imersiva e responsiva, com atmosfera 3D, manifesto em vídeo e animação de entrada impactante. Inspirado em:

- CodePen: <https://codepen.io/danilonovaisv/pen/YPWYrdW>
- Site: <https://loandbehold.studio/>

🧱 Estrutura (Desktop – Z-Index Stack)

1. ****Z-50**** Preloader (SVG ghost + texto)
2. ****Z-30**** Manifesto Video Thumbnail (flutuante, bottom-right)
3. ****Z-20**** Ghost Atmosphere (WebGL Canvas)
4. ****Z-10**** Editorial Text Block (centralizado)
5. ****Z-0**** Fundo Gradient: `#040013 → #0b0d3a`

🌀 Preloader

****Visual**:**

- Ícone ghost SVG branco flutuante
- Texto: `SUMMONING SPIRITS` (mono, uppercase)
- Progress bar: gradiente `#0057FF → #5227FF`

****Comportamento**:**

- Exibe imediatamente ao carregar
- Fade out: `opacity 1 → 0` em 1s após 1.5–2s

🐻 Ghost Atmosphere (WebGL Canvas)

****Elementos**:**

- Ghost Mesh: esfera emissiva azul pulsante
- Eyes: brilham conforme o movimento do mouse
- Partículas + Fireflies orbitando
- Movimento orgânico: ``sin(time * freq)``

****Pós-processamento**:**

- Bloom (intensity: 2.8)
- Grain, scanlines, jitter sutil, vignette

****Interação**:**

- Ghost segue o cursor com ``lerp: 0.05``
- Canvas desabilitado em ``prefers-reduced-motion``

****Fallback**:**

- Gradiente radial estático

Editorial Text Block

****Fontes**:** TT Norms Pro, fallback: ``ui-sans-serif``

****Conteúdo**:**

- Tag: ``[BRAND AWARENESS]`` (mono, 14px)
- H1: "Você não vê / o design." (2 linhas)
- H2: "Mas ele vê você." (destacado)
- CTA: "step inside →" (link: ``/sobre``, hover animado)

****Estilo**:**

- Centralizado verticalmente
- Cor: ``#d9dade`` sobre ``#06071f``

****Responsivo**:**

- Mobile: Quebra o H1 em 3 linhas

Manifesto Video Thumbnail (Desktop)

****Estado Inicial**:**

- Posição: ``bottom-right``, ``30vw`` largura
- Estilo: ``rounded``, ``shadow``, ``aspect-video``
- Props: ``autoplay``, ``loop``, ``muted``, ``playsInline``

****Scroll Behavior**:**

- Vídeo fixo no viewport (não rola com página)
- Animação:
 - scale: ``[0.3, 1]``
 - posX/posY: ``["100%", "50%"]``
 - borderRadius: ``["16px", "0px"]``
 - editorial opacity: ``[1, 0]``

****Lógica Scroll**:**

- Quando atinge fullscreen:
 - `hold 2s` com scroll travado
 - vídeo se ****desmuta****
- Ao sair do Hero: volta a ser ****muted****

****Click Behavior**:**

- Clica → vai direto ao fullscreen
- Triggera mesma lógica de áudio/scroll

****Hover**:**

- Scale `1 → 1.05`, `500ms`

📱 Manifesto (Mobile)

****Layout**:**

- Seção fullscreen logo após a Hero
- `aspect-video`, fundo `#040013`

****Vídeo**:**

- autoplay, loop, muted, `playsInline`
- botão visível para som (tap = unmute)
- Ao sair da seção → mutar de novo

****Animação**:**

```
```js
initial: { opacity: 0, scale: 0.95, y: 20 }
animate: { opacity: 1, scale: 1, y: 0 }
transition: { duration: 0.6, ease: [0.22, 1, 0.36, 1] }
```
```

****Acessibilidade**:**

- Controles claros
- Modo focável visível
- Sem som automático

📱🔍 Comportamento Responsivo

****Viewport**:**

- ****Desktop**:**

```
H1: "Você não vê" (linha 01)
    "o design." (linha 02)
_Fonte: TT Norms Pro Black, 6-9rem, tracking-tight_
```

- ****Tablet**:**

```
H1: "Você não vê" (linha 01)
    "o design." (linha 02)
_Fonte: TT Norms Pro Black, 6-9rem, tracking-tight_
```

- ****Mobile**:**
H1: "Você não" (linha 01)
"vê o" (linha 02)
"design." (linha 03)
Fonte: TT Norms Pro Black, 6-9rem, tracking-tight

🎬 Entrada (Page Load)

```
```js
initial: {
 opacity: 0,
 scale: 0.92,
 translateY: 60,
 filter: "blur(10px)"
},
animate: {
 opacity: 1,
 scale: [1.02, 1],
 translateY: 0,
 filter: "blur(0px)"
},
duration: 1.2s,
easing: [0.25, 0.46, 0.45, 0.94]
```
```

📊 Performance

- DPR máx: 2
- Antialias: false
- `prefers-reduced-motion`: desativa canvas e efeitos pesados

✅ Resumo de Implementação

- Hero 100% responsiva
- Ghost com movimento realista e camadas visuais
- Texto editorial centralizado com quebra de linha adaptativa
- Manifesto em vídeo com transição scroll e lógica de som
- Acessível e performático

4.3 Portfolio Showcase – Protótipo Interativo

Purpose

Apresentar as principais categorias de trabalho com ****sofisticação editorial****, usando movimento, hierarquia tipográfica e interação progressiva para ****guiar o usuário naturalmente**** até áreas específicas do portfólio – replicando o ritmo, layout e comportamento da sessão equivalente na home do site de referência.

Layout & Estrutura

Desktop (≥1024px)

Estrutura Geral

- **Headline centralizada:**
 - **"portfólio showcase"****
 - "portfólio" em branco
 - "showcase" em ``#0048ff``
- **Label flutuante contextual:**
 - Texto: ****[what we love working on]****
 - Cor: ``#4fe6ff``
 - Posicionamento: absoluto, alinhado à esquerda, levemente acima da primeira faixa
- **Três faixas interativas horizontais (**accordion-style stripes**), com alinhamento alternado:**
 1. ****Brand & Campaigns**** – alinhada à direita
 2. ****Videos & Motions**** – centralizada
 3. ****Web Campaigns, Websites & Tech**** – alinhada à esquerda
 - Quebra de linha após a vírgula
- **CTA centralizado abaixo das faixas:**
 - ****"let's build something great →"****

Estrutura de Cada Stripe

Cada faixa contém:

- ****Thumbnail de vídeo/imagem****
 - Largura: ``288px``
 - Aspect ratio: ~16:9
 - Bordas levemente arredondadas
 - Oculta por padrão
- ****Título da categoria****
 - Tipografia grande (2xl–5xl)
 - Peso médio
 - Font-family: ``TT Norms Pro Normal``
- ****Ícone de ação****
 - Badge circular azul
 - Ícone de seta interna

Interações & Animações

Scroll Reveal (Desktop)

- Trigger: quando 30% da seção entra na viewport

– Animação:

```
```js
opacity: 0 → 1
translateY: 24px → 0
duration: 0.8s
easing: ease-out
stagger: 120ms entre faixas
```
```

– Durante a entrada, os títulos transitam para `#0057FF`, reforçando hierarquia visual.

Hover sobre a Stripe (Desktop)

1. Revelação da Thumbnail

```
```js
width: 0 → 288px
opacity: 0 → 1
duration: 700ms
easing: cubic-bezier(0.22, 1, 0.36, 1)
```
```

2. Ajuste de Espaçamento Interno

```
```js
gap: gap-7 → gap-10
duration: 300ms
```
```

3. Ícone de Seta

```
```js
rotation: -45deg → 0deg
duration: 500ms
```
```

> A interação é ****progressiva e silenciosa****, sem sobreposição agressiva ou quebra de layout.

Click

- Navegação para `/portfolio`
- Categoria correspondente aplicada via filtro (slug).

Responsividade & Adaptação de Conteúdo

Mobile & Tablet (≤1023px)

Layout

- Cards verticais full-width
- Conteúdo texto alinhado a esquerda da página

- Ícone de Seta alinhado a direita da página
- Label flutuante removida
- CTA centralizado

Comportamento

- Sem hover
- Thumbnails ocultas ou estáticas
- Ícones de seta à direita

Categories & Assets

1. **Brand & Campaigns**

- Slug: `brand-campaigns`
- Thumbnail:
`https://aymuvxysygrwoicsjgxj.supabase.co/storage/v1/object/public/project-images/Branding-Project.webp`

2. **Videos & Motions**

- Slug: `videos-motions`
- Thumbnail:
`https://aymuvxysygrwoicsjgxj.supabase.co/storage/v1/object/public/project-images/webdesigner-2%202.gif`

3. **Web Campaigns, Websites & Tech**

- Slug: `websites-webcampaigns-tech`
- Thumbnail:
`https://aymuvxysygrwoicsjgxj.supabase.co/storage/v1/object/public/project-images/WelcomeAd_800x500px.webp`

CTA Button

Text: "let's build something great →"

Destination: `/#contact`

Hover: Background changes to `#4fe6ff`, arrow translates right
(`translateX: 4px`)

Optional: Subtle looping animation on arrow in idle state (`translateX: 0 → 4px → 0`)

Resultado Esperado

- Experiência editorial fluida
- Movimento como reforço de significado
- Consistência total entre desktop e mobile

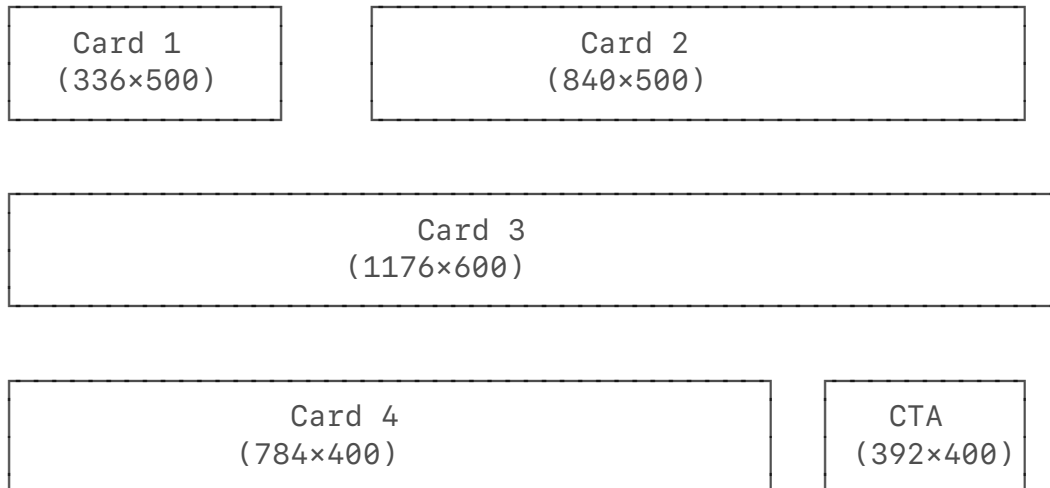
4.4 Featured Projects

****Purpose:**** Showcase curated, high-quality work examples in an editorial, magazine-style layout (Bento Grid).

Layout (Desktop)

Irregular grid resembling a magazine spread:

...



...

****Grid Implementation (Tailwind):****

```
```javascript
// Row 1
<div className="md:col-span-5"><ProjectCard /></div>
<div className="md:col-span-7"><ProjectCard /></div>

// Row 2
<div className="md:col-span-12"><ProjectCard /></div>

// Row 3
<div className="md:col-span-8"><ProjectCard /></div>
<div className="md:col-span-4"><CTAProjectCard /></div>
```
```

Project Cards

****Structure:****

- ****Image/Video:**** Covers card, object-fit cover
- ****Pills (tags):**** Positioned absolute, top-right, semi-transparent background (`#E6EFEF` at 70% opacity), small text
- ****Info Block (below image):****
 - Title (H3, medium weight)
 - Meta: Client • Year (`#6B7280`, small text)
 - Arrow icon in blue circle (translates right on hover)

****Interaction (Desktop):****

```
```javascript
// Hover on card
image: { scale: 1.03, translateY: -1 }
duration: 500ms
```

```
arrow: { translateX: 20px }
duration: 700ms ease-out

shadow: { shadow-xl shadow-blue-500/10 }
``,``
```

#### **\*\*Scroll Reveal:\*\***

```
```javascript
container: { opacity: 0 → 1, y: 40px → 0 }
cards: { scale: 0.96 → 1, staggerChildren: 0.12 }
duration: 0.7s ease-out
``,``,``
```

Featured Projects Content

1. **Magic – devolvendo a magia ao rádio**

- Slug: `magic-radio-branding`
- Category: branding & campanha
- Client: Magic
- Year: 2023
- Image:
`https://aymuvxysygrwoicsjgxj.supabase.co/storage/v1/object/public/project-images/Brand-Identity%20copy.webp`

2. **Uma marca ousada e consistente**

- Slug: `branding-project-01`
- Category: branding
- Client: Cliente confidencial
- Year: 2022
- Image:
`https://aymuvxysygrwoicsjgxj.supabase.co/storage/v1/object/public/project-images/Branding-Project.webp`

3. **Key visual para campanha sazonal**

- Slug: `key-visual-campaign`
- Category: campanha
- Client: Cliente confidencial
- Year: 2021
- Image:
`https://aymuvxysygrwoicsjgxj.supabase.co/storage/v1/object/public/project-images/Key-Visual.webp`

4. **Experiência web em movimento**

- Slug: `webdesigner-motion`
- Category: web & motion
- Client: Cliente confidencial
- Year: 2023
- Image:
`https://aymuvxysygrwoicsjgxj.supabase.co/storage/v1/object/public/project-images/webdesigner-2%202.gif`

CTA Card

****Content:****

- **Headline:** "Like what you see?" - font normal - (on hover, text becomes `#0057FF`)
- **Button:** "view projects →" with arrow icon
- **Background:** `#040013` (on hover, text becomes `#0057FF`)

****Interaction:****

```
```javascript
// Hover
background: { #040013 }
text: { white → #0057FF }
arrow: { translateX: 4px }
duration: 300ms
```
```

****Destination:**** `/portfolio`

Layout (Mobile)

- All cards stacked vertically
- Full-width, heights adapted to content/aspect ratio
- CTA card appears as last item

****Desktop (≥1024px)****

- **Layout:**
 - Irregular grid resembling a magazine spread (Bento Grid)
 - 4 project cards with varying sizes and positions
 - CTA card in bottom-right position
- **Grid Implementation (Tailwind):**

```
```jsx
// Row 1
<div className="md:col-span-5"> <ProjectCard /> </div>
<div className="md:col-span-7"> <ProjectCard /> </div>

// Row 2
<div className="md:col-span-12"> <ProjectCard /> </div>

// Row 3
<div className="md:col-span-8"> <ProjectCard /> </div>
<div className="md:col-span-4"> <CTAProjectCard /> </div>
```
```
- **Project Cards:**
 - **Structure:** Image/Video, Pills (tags), Info Block
 - **Interaction:** Hover effects on image, arrow, and shadow
 - **Scroll Reveal:** Container and cards with staggered animation

****Mobile & Tablet (≤1023px)****

- **Layout:**
 - All cards stacked vertically
 - Full-width, heights adapted to content/aspect ratio
 - CTA card appears as last item
- **Specific Implementation Details:**
 - Each project card takes 100% of the container width
 - Cards have consistent vertical spacing (32px)

- Project images maintain aspect ratio but scale to fit width
- Tags/pills are positioned at the top of the card
- The CTA card is simplified to a full-width button with text "view projects →"
- The grid layout is replaced with a simple vertical stack
- Project titles and metadata are center-aligned
- Content Adaptation:
 - The irregular bento grid is replaced with a clean vertical list
 - Project cards have consistent height on mobile
 - The CTA card no longer has a separate section but is integrated as a full-width button
 - The hover effects are replaced with touch-friendly tap effects

**4.5 Clients/Brands

****Purpose:**** Build credibility by displaying recognizable brands previously worked with.

Layout

****Desktop & Mobile:****

- Full-width blue bar: `bg-[#0048ff]`
- Centered headline: "marcas com as quais já trabalhei" (white, bold, 2xl)
- Grid of logos: Responsive grid (3-4 columns on mobile, 6+ on desktop)
- Logos: White (apply `filter: brightness(0) invert` to SVGs)

Interaction

****Hover (Desktop):****

```
```javascript
logo: { scale: 1.04, brightness: 1.1 }
duration: 300ms
```
```

****Scroll Reveal:****

```
```javascript
title: { opacity: 0 → 1, y: 16 → 0 }
logos: {
 staggerChildren: 0.03,
 each: { opacity: 0 → 1, y: 12 → 0, scale: 0.9 → 1 }
}
```
```

Client Logos (12 total)

- `client1.svg` through `client12.svg`
- Base URL:


```
`https://aymuvxysygrwoicsjgxj.supabase
.co/storage/v1/object/public/client-logos/`
```

Accessibility

- Logos have descriptive `alt` text (e.g., "Logo da empresa X")
- Keyboard navigable (if logos link anywhere)
- Respect `prefers-reduced-motion` (disable entrance stagger)

Desktop & Mobile

- Layout:
 - Full-width blue bar: `bg-[#0048ff]`
 - Centered headline: "marcas com as quais já trabalhei"
 - Grid of logos: Responsive grid (3-4 columns on mobile, 6+ on desktop)
 - Logos: White (apply `filter: brightness(0) invert` to SVGs)
- Interaction:
 - Hover (Desktop): logo scale and brightness increase
 - Scroll Reveal: title and logos with staggered animation
- Mobile-Specific Details:
 - Grid changes to 2 columns on small mobile, 3 columns on larger mobile/tablet
 - Logos are scaled to 70% of their desktop size on mobile
 - Vertical spacing between logo rows is 24px on mobile
 - The headline is smaller (1.5rem vs 2rem on desktop)
 - Logo grid has 16px padding on all sides on mobile
 - The blue background extends full width with no horizontal container constraints

**4.6 Contact

****Purpose:**** Provide clear contact information and enable message submission.

Layout (Desktop)

Two-column layout:

- ****Left column:**** Contact info + social media links
- ****Right column:**** Contact form

Layout (Mobile)

Single column, vertically stacked:

1. Headline + subheadline
2. Contact info
3. Contact form
4. Social media links

Content

****Headline:**** "contato"

****Subheadline:**** "Tem uma pergunta ou quer trabalhar junto?"

Contact Information

****Direct Channels:****

- ****Phone:**** `+55 (11) 98396-6838`
 - Icon: Phone
 - Link: `tel:+5511983966838`
- ****Email (primary):**** `daniilo@portfoliodanilo.com`
 - Icon: Envelope
 - Link: `mailto:daniilo@portfoliodanilo.com`
- ****Email (secondary):**** `dannovaisv@gmail.com`
 - Icon: Envelope
 - Link: `mailto:dannovaisv@gmail.com`

****Interaction:****

- Text color: `#111111`
- Hover: Underline + color change to `#0057FF`
- Icons match text color

****Social Media & Portfolio:****

- Icons only (no text labels)
- Platforms: Instagram, Facebook, LinkedIn, Portfolio site, Twitter
- Color: `#111111`, hover: `#0057FF` + `scale(1.1)`
- All open in new tab (`target="_blank"`, `rel="noopener noreferrer"`)

****Links:****

- Instagram: `https://instagram.com/daniilo_novais`
- Facebook: `https://facebook.com/danilonovaisvilela`
- LinkedIn: `https://linkedin.com/in/danilonovais`
- Portfolio: `https://portfoliodanilo.com`
- Twitter: `https://twitter.com/daniilo_novais`

Contact Form

****Fields:****

- Name (text input, required)
- Email (email input, required)
- Message (textarea, required)

****Submit Button:****

- Label: "Enviar Mensagem"
- Background: `#0048ff`
- Text: White
- Hover: Slight elevation (`translateY: -1px`), `scale(1.02)`
- Tap: `scale(0.98)`

****Form Action:****

- Method: POST
- Endpoint: `https://formssubmit.co/daniilo@portfoliodanilo.com`

****States:****

- ****Focus on input:**** Border color `#0057FF`, shadow `ring-2 ring-blue-500`
- ****Error:**** Show validation message below field
- ****Success:**** Show success message, clear form

- ****Loading:**** Disable button, show spinner

Interactions & Animations

****Scroll Reveal:****

```
```javascript
section: { opacity: 0 → 1, y: 24 → 0 }
form fields: { staggerChildren: 60ms }
duration: 0.6s
```
```

****Form Interactions:****

```
```javascript
// Input focus
ring-2 ring-blue-500 ring-offset-2
```

```
// Button hover
{ scale: 1.02, y: -1 }
```

```
// Button tap
{ scale: 0.98 }
```
```

****Desktop (≥1024px)****

- Layout:
 - Two-column layout: Left column (contact info), Right column (contact form)
- Content:
 - Headline: "contato"
 - Subheadline: "Tem uma pergunta ou quer trabalhar junto?"
 - Contact Information: Direct channels (phone, emails), Social media
 - Contact Form: Name, Email, Message fields, Submit button

****Mobile & Tablet (≤1023px)****

- Layout:
 - Single column, vertically stacked:
 - Headline + subheadline
 - Contact info
 - Contact form
 - Social media links
- Specific Implementation Details:
 - All elements are full-width with appropriate spacing
 - Form fields have larger touch targets (minimum 48×48px)
 - The contact info section has increased vertical spacing between items
 - Social media icons are displayed in a single row at the bottom
 - The form submit button is full-width with increased height
 - The headline and subheadline are center-aligned
 - The contact information is simplified to a vertical list
- Content Adaptation:
 - The two-column layout collapses to a single column
 - Social media icons are reduced to just the icons (no text)
 - Form fields have increased padding for touch interaction
 - The "Enviar Mensagem" button has a minimum width of 100% on mobile

Accessibility

- All inputs have associated ``<label>`` elements
- Keyboard navigable
- Focus indicators (``focus-visible``)
- Error messages programmatically associated with fields
- Minimum touch target size: 48×48px (mobile)

****4.7 Footer**

****Purpose:**** Provide legal information, supplementary navigation, and social links while respecting the overall editorial aesthetic.

Desktop ($\geq 1024\text{px}$)

****Layout:****

- Fixed bar at bottom of viewport
- Persistent (always visible)
- Horizontal layout: Copyright (left) | Navigation + Social (right)
- Height: ``48-64px``

****Behavior:****

- ``position: fixed`, `bottom: 0`, `z-index: 10``
- Does not scroll away

Mobile & Tablet ($\leq 1023\text{px}$)

****Layout:****

- Static section in document flow (last element on page)
- Vertical stack: Copyright → Navigation → Social
- ****Never fixed****
- ****Never overlaps content****

****Spacing:****

- Generous vertical padding: ``py-10``
- Spacing between blocks: ``space-y-6``
- Minimum touch target: 48×48px

Content

****Copyright:****

- "© 2025 Danilo Novais Vilela – todos os direitos reservados"
- Color: White
- Small text

****Navigation Links:****

- Home → ``#hero``
- Portfólio Showcase → ``#portfolio-showcase``
- Sobre → ``/sobre``
- Contato → ``#contact``

****Social Media:****

- Same icons and links as Contact section
- White icons, hover: slight opacity reduction (desktop) or focus indicator (mobile)

Background

- Solid blue: `bg-[#0057FF]`
- Text: White

Interactions

****Desktop:****

```
```javascript
// Hover on links
opacity: 1 → 0.8
underline animation
duration: 200ms

// Hover on social icons
scale: 1.05
duration: 200ms
```
```

****Mobile:****

- No hover dependencies
- Feedback only on `:active` / `:focus-visible`

****Desktop (≥1024px)****

- Layout:
 - Fixed bar at bottom of viewport
 - Persistent (always visible)
 - Horizontal layout: Copyright (left) | Navigation + Social (right)
 - Height: `48-64px`
- Behavior:
 - `position: fixed`, `bottom: 0`, `z-index: 10`
 - Does not scroll away

****Mobile & Tablet (≤1023px)****

- Layout:
 - Static section in document flow (last element on page)
 - Vertical stack: Copyright → Navigation → Social
 - Never fixed, never overlaps content
- Specific Implementation Details:
 - The footer is the last element on the page, not fixed to bottom
 - Content is center-aligned with generous vertical padding
 - Navigation links are displayed in a single row
 - Social media icons are displayed in a single row below navigation
 - Copyright text is smaller (0.875rem) on mobile
 - The blue background extends full width with no container constraints
 - Spacing between elements is increased (32px) for touch accessibility
- Content Adaptation:
 - The fixed position behavior is removed on mobile

- The horizontal layout is converted to a vertical stack
- The navigation and social links are consolidated into fewer rows
- The height is variable based on content rather than fixed

Accessibility

- All links have `aria-label` where needed
- Keyboard navigable
- Logical tab order
- Contrast: White on `#0057FF` meets WCAG AA
- Touch targets meet minimum 48×48px

Non-Negotiables

- Footer is ****fixed only on desktop****
- Footer is ****not fixed on mobile****
- No competition with Hero, Manifesto, or CTAs
- Clean, unobtrusive design

**5. TECHNICAL IMPLEMENTATION

1. Visão Geral da Tecnologia (Tech Stack)

Frontend Core

- ****Framework:**** React 18+ (com Hooks)
- ****Meta-framework:**** Next.js 13+ (App Router)
- ****Linguagem:**** TypeScript (implícito pela stack moderna)

Estilização e UI

- ****CSS:**** Tailwind CSS (apenas classes utilitárias core)
- ****Animações de Interface:**** Framer Motion
- ****3D / WebGL:**** React Three Fiber + Three.js

Infraestrutura e Assets

- ****Formulários:**** FormSubmit.co
- ****Assets:**** Fontes self-hosted; Assets externos via Supabase Storage
- ****Build/Deploy:**** Vercel, Netlify ou Cloudflare Pages

2. Requisitos de Performance e Acessibilidade

2.1 Orçamento de Performance (Performance Budget)

- ****Peso Inicial da Página:**** < 2MB
- ****Time to Interactive (TTI):**** < 5s (em 3G)
- ****First Contentful Paint (FCP):**** < 2s
- ****Cumulative Layout Shift (CLS):**** < 0.1

2.2 Estratégias de Otimização

- **Imagens:** Formato WebP, lazy loading, `srcset` responsivo.
- **Vídeos:** Comprimidos, autoplay mudo, lazy load (abaixo da dobra).
- **Fontes:** Self-hosted, preloaded, *subsetting* se possível.
- **JavaScript:** Code splitting, imports dinâmicos para WebGL.
- **CSS:** Purge de classes Tailwind não utilizadas em produção.
- **WebGL:** Max DPR de 2, antialias desativado.

2.3 Padrões de Acessibilidade (WCAG 2.1 Level AA)

- **Contraste:** Mínimo 4.5:1 para texto normal.
- **Navegação:** Totalmente operável via teclado (Focus Indicators visíveis).
- **Semântica:** Uso correto de HTML semântico e atributos ARIA.
- **Movimento:** Respeitar a preferência `prefers-reduced-motion`.
- **Mobile:** Áreas de toque mínimas de 48x48px.

3. Especificação de Componentes Críticos

3.1 Botão CTA (Primary Call-to-Action)

Design Visual:

- **Formato:** Compósito (Pílula à esquerda + Círculo à direita).
- **Cor:** Azul Primário (`#0048ff`). Texto Branco.
- **Texto:** Uppercase, tracking médio, padding `px-6 py-3`.
- **Ícone:** Seta (→) centralizada no círculo.

Interações e Animações:

1. **Hover (Desktop):** O botão inteiro sobe 1px (`translateY(-1px)`).
2. **Seta (Opcional):** Desliza 4px para a direita no hover.
3. **Click (Mobile):** Efeito de compressão (`scale(0.98)`).
4. **Foco (Teclado):** Outline de 2px sólido cor `#4fe6ff` com offset de 4px.

Exemplo de Implementação (Framer Motion):

```
````tsx
import { motion } from 'framer-motion';
import { ArrowRight } from 'lucide-react';

export const CTAButton = ({ href, children, variant = 'primary' }) => {
 return (
 <motion.a
 href={href}
 className="inline-flex items-stretch rounded-full bg-[#000022]
 text-white group focus-visible:outline-2
 focus-visible:outline-[#4fe6ff]"
 whileHover={{ y: -1 }}
 whileTap={{ scale: 0.98 }}
 transition={{ duration: 0.2, ease: 'easeOut' }}
 >
 <span className="px-6 py-3 font-medium uppercase
 tracking-wide">{children}
 <motion.span
 className="relative h-[40px] w-[40px] rounded-full
 flex items-center justify-center
 group-focus-visible:outline group-focus-visible:outline-2
 group-focus-visible:outline-[#4fe6ff]"
 >
 <ArrowRight
 className="h-6 w-6 text-white"
 style={{ transform: 'translateX(50%)' }}
 />
 </motion.span>
 </motion.a>
)
 }
}
```

```

 className="flex items-center justify-center w-12 h-12 rounded-full"
 whileHover={{ x: 4 }}
 >
 <ArrowRight className="w-5 h-5" />
 </motion.span>
 </motion.a>
);
};
...

```

### ### 3.2 Atmosfera "Ghost" (WebGL)

**\*\*Propósito:\*\*** Camada visual atmosférica na seção Hero (decorativo).

**\*\*Regras Críticas:\*\***

- \* Carregamento via **\*\*Dynamic Import\*\*** (apenas client-side).
- \* Fallback para gradiente estático se falhar ou se ``prefers-reduced-motion`` estiver ativo.
- \* Não deve controlar layout ou bloquear texto.

**\*\*Arquitetura de Pastas Sugerida:\*\***

```

```text
components/
├── canvas/
│   ├── GhostCanvas.tsx
│   ├── Ghost.tsx
│   ├── Particles.tsx
│   ├── Fireflies.tsx
│   └── postprocessing/
└── ...

```

4. Estrutura de Conteúdo e Páginas

4.1 Inventário de Conteúdo

1. ****Hero:**** Manchete editorial, submanchete, CTA principal, Atmosfera WebGL.
2. ****Portfolio Showcase:**** Título, lista de categorias, labels flutuantes, CTA.
3. ****Featured Projects:**** Grid Bento, metadados dos projetos.
4. ****Clients/Brands:**** Grid de logotipos.
5. ****Contact:**** Formulário (2 colunas desktop, 1 mobile), info de contato, sociais.
6. ****Footer:**** Copyright 2025, navegação.

4.2 Comportamento Responsivo

- * ****Header:****
- * Desktop: Efeito "Glass" fluido.

* Mobile: Menu "Hambúrguer" com animação escalonada (staggered).

* ****Footer:****

* Desktop: Fixo na base (se o design pedir reveal) ou estático.

* Mobile: Sempre estático no fluxo do documento (nunca fixo).

5. Build, Deploy e Variáveis

****Comando de Build:**** `npm run build`

****Variáveis de Ambiente (`.env.local`):****

```bash

NEXT\_PUBLIC\_GA\_ID=UA-XXXXXXXX-X

NEXT\_PUBLIC\_SUPABASE\_URL=

[https://aymuvxysygrwoicsjgxj.supabase.co](https://aymuvxysygrwoicsjgxj.supabase.co)

NEXT\_PUBLIC\_SUPABASE\_ANON\_KEY=<anon\_key>

```

****Checklist Pré-Deployment:****

* [] Auditoria Lighthouse (Score > 90).

* [] Teste em dispositivos móveis reais (iOS/Android).

* [] Validação de envio de formulários.

* [] Verificação de links externos (abrir em nova aba).

* [] Teste de vídeos (autoplay mudo).

* [] Teste de `prefers-reduced-motion`.

6. Checklist de Garantia de Qualidade (QA)

Visual

* [] ****Hero:**** Texto legível sobre o WebGL.

* [] ****Manifesto:**** Vídeo inicia pequeno e expande no scroll.

* [] ****Projetos:**** Grid Bento proporcional no desktop, pilha vertical no mobile.

* [] ****Logos:**** Grid adapta colunas (2-3 no mobile).

Funcionalidade

* [] Links de navegação (âncoras e rotas) funcionais.

* [] Formulário envia dados corretamente.

* [] Ícones sociais abrem em novas abas.

* [] Sem erros no console do navegador.

* [] Sem scroll horizontal indesejado no mobile.

Performance & Acessibilidade

- * [] Carregamento < 3s em 3G.
- * [] Navegação completa via Tab (Teclado).
- * [] Screen Readers leem o conteúdo corretamente.
- * [] CLS < 0.1 (Layout estável).

...
