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{
  "$schema": "https://flow3.subastop.com/schema/v1",
  "$id": "flow3-manifest-v1.0.0",
  "$type": "design-system-manifest",
  "$version": "1.0.0",
  "$description": "FLOW3 Machine-Readable Design System Manifest. This file enabl
  "$license": "Proprietary – Subastop S.A.C.",

  "system": {
    "name": "FLOW3",
    "tagline": "A Conscious Design Solution",
    "owner": "Subastop S.A.C.",
    "version": "1.0.0",
    "philosophy": "Every visual element derives from  $\phi$  (1.6180339887) and the Fib
    "acronym": {
      "F": "Foundational – token-first, everything derives from mathematical prim
      "L": "Layered – semantic tokens > component tokens > primitives",
      "O": "Orchestrated – cross-product coherence without rigidity",
      "W": "Wired – built for machine legibility and autonomous agent consumption
    }
  },

  "constants": {
    "phi": {
      "value": 1.6180339887,
      "inverse": 0.6180339887,
      "squared": 2.6180339887,
      "description": "The golden ratio. The only number where  $\phi^2 = \phi + 1$  and  $1/\phi$ 
    },
    "fibonacci_sequence": [1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, 377, 6
    "permitted_pixel_values": [1, 2, 3, 5, 8, 13, 16, 21, 34, 55, 89, 144, 233, 3
    "exceptions": [
      {
        "value": 16,
        "unit": "px",
        "context": "font-size only",
        "justification": "Browser default body text. WCAG accessibility requireme
      }
    ]
  },

  "validation_rules": {
    "$description": "Machine-enforceable rules for FLOW3 compliance. An agent MUS

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"rules": [
  {
    "id": "FLOW-001",
    "name": "fibonacci-only-dimensions",
    "severity": "error",
    "description": "Every dimensional value (width, height, padding, margin,
    \"check\": \"value ∈ constants.permitted_pixel_values OR value uses percenta
    \"exceptions\": [\"100%\", \"50%\", \"auto\", \"0\", \"inherit\", \"9999px\"]
  },
  {
    "id": "FLOW-002",
    "name": "token-reference-only",
    "severity": "error",
    "description": "No raw pixel values in implementation code. All dimension
    \"check\": \"All dimensional CSS values match pattern var(--flow-*)\"
  },
  {
    "id": "FLOW-003",
    "name": "kit-containment",
    "severity": "error",
    "description": "Every compound component MUST fit within its assigned Kit
    \"check\": \"compound.width ≤ compound.container_kit.width AND compound.heig
  },
  {
    "id": "FLOW-004",
    "name": "phi-subdivision",
    "severity": "warning",
    "description": "Internal layout splits within a compound SHOULD follow go
    \"check\": \"child_a.width / child_b.width ≈ φ (within 5% tolerance)\"
  },
  {
    "id": "FLOW-005",
    "name": "fibonacci-spacing",
    "severity": "error",
    "description": "All gap, padding, and margin values MUST use the FLOW3 sp
    \"check\": \"spacing_value ∈ semantic.space.*\"
  },
  {
    "id": "FLOW-006",
    "name": "responsive-degradation",
    "severity": "warning",
    "description": "Responsive behavior SHOULD use Kit degradation (stepping
    \"check\": \"At each breakpoint, compound maps to a valid Kit container\"
  },
  {
    "id": "FLOW-007",
    "name": "naming-convention",

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    "severity": "error",
    "description": "All CSS custom properties MUST follow --flow-[tier]-[cate
    "check": "property_name matches /^--flow-(fib|kit|space|text|radius|shado
  },
  {
    "id": "FLOW-008",
    "name": "element-coordinate-valid",
    "severity": "error",
    "description": "Element references MUST use valid Kit.Set.PHI coordinates
    "check": "kit ∈ [α,β,γ,δ,ε] AND set ∈ kit.valid_sets AND phi ∈ kit.valid_
  }
]
},

"kits": {
  "$description": "The five Kit families derived from golden rectangle decompos
  "$derivation": "A 610×377 golden rectangle decomposes recursively: α(610×377)

  "alpha": {
    "symbol": "α",
    "name": "Alpha",
    "base_width": 610,
    "base_height": 377,
    "aspect_ratio": 1.618,
    "shape": "golden_rectangle",
    "orientations": 2,
    "sets": [1, 2, 5, 8],
    "phi_levels": [1, 2, 3, 4],
    "semantic_role": "hero",
    "description": "Full golden rectangle. Largest container. Hero banners, fea
    "dimensions_at_phi": {
      "PHI1": {"w": 610, "h": 377},
      "PHI2": {"w": 377, "h": 233},
      "PHI3": {"w": 233, "h": 144},
      "PHI4": {"w": 144, "h": 89}
    },
    "valid_compounds": ["auction-featured", "vehicle-hero"],
    "degrades_to": "beta"
  },
  "beta": {
    "symbol": "β",
    "name": "Beta",
    "base_width": 377,
    "base_height": 377,
    "aspect_ratio": 1.0,
    "shape": "square",
    "orientations": 1,

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"sets": [1, 2, 5, 8, 13],
"phi_levels": [1, 2, 3, 5],
"semantic_role": "image",
"description": "Square remainder. Image tiles, profile cards, gallery items
"dimensions_at_phi": {
  "PHI1": {"w": 377, "h": 377},
  "PHI2": {"w": 233, "h": 233},
  "PHI3": {"w": 144, "h": 144},
  "PHI5": {"w": 55, "h": 55}
},
"valid_compounds": ["card-thumb"],
"degrades_to": "gamma"
},
"gamma": {
  "symbol": "γ",
  "name": "Gamma",
  "base_width": 233,
  "base_height": 377,
  "aspect_ratio": 0.618,
  "shape": "golden_rectangle",
  "orientations": 2,
  "sets": [1, 2, 5, 8],
  "phi_levels": [1, 2, 3, 5],
  "semantic_role": "card",
  "description": "Secondary golden rectangle. Auction cards, sidebar panels,
"dimensions_at_phi": {
  "PHI1": {"w": 233, "h": 377},
  "PHI2": {"w": 144, "h": 233},
  "PHI3": {"w": 89, "h": 144},
  "PHI5": {"w": 34, "h": 55}
},
"valid_compounds": ["auction-grid", "bid-panel", "seller-card"],
"degrades_to": "delta"
},
"delta": {
  "symbol": "δ",
  "name": "Delta",
  "base_width": 144,
  "base_height": 144,
  "aspect_ratio": 1.0,
  "shape": "square",
  "orientations": 1,
  "sets": [1, 2, 3, 5, 8, 13, 21],
  "phi_levels": [1, 2, 3, 4, 5, 6],
  "semantic_role": "icon",
  "description": "Small square. Icons, badges, compact cards, countdown, acti
"dimensions_at_phi": {

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    "PHI1": {"w": 144, "h": 144},
    "PHI2": {"w": 89, "h": 89},
    "PHI3": {"w": 55, "h": 55},
    "PHI4": {"w": 34, "h": 34},
    "PHI5": {"w": 21, "h": 21},
    "PHI6": {"w": 13, "h": 13}
  },
  "valid_compounds": ["auction-compact", "countdown"],
  "degrades_to": "epsilon"
},
"epsilon": {
  "symbol": "ε",
  "name": "Epsilon",
  "base_width": 89,
  "base_height": 55,
  "aspect_ratio": 1.618,
  "shape": "golden_rectangle",
  "orientations": 1,
  "sets": [1, 2, 3, 5, 8, 13, 21],
  "phi_levels": [1, 2, 3, 4, 5, 6],
  "semantic_role": "chip",
  "description": "Smallest golden rectangle. Buttons, tags, chips, badges, mi
  "dimensions_at_phi": {
    "PHI1": {"w": 89, "h": 55},
    "PHI2": {"w": 55, "h": 34},
    "PHI3": {"w": 34, "h": 21},
    "PHI4": {"w": 21, "h": 13},
    "PHI5": {"w": 13, "h": 8},
    "PHI6": {"w": 8, "h": 5}
  },
  "valid_compounds": ["price-ticker"],
  "degrades_to": null
}
},

"elements": {
  "$description": "The periodic table. 27 named elements across 5 kits. Each el
  "$total_pure_elements": 52,
  "$note": "52 = sum of all PHI-level variants across all kits when accounting

  "catalog": [
    {"id": "α.1", "kit": "alpha", "set": 1, "w": 610, "h": 377, "semantic_role"
    {"id": "α.2", "kit": "alpha", "set": 2, "w": 377, "h": 233, "semantic_role"
    {"id": "α.5", "kit": "alpha", "set": 5, "w": 144, "h": 89, "semantic_role":
    {"id": "α.8", "kit": "alpha", "set": 8, "w": 89, "h": 55, "semantic_role":

    {"id": "β.1", "kit": "beta", "set": 1, "w": 377, "h": 377, "semantic_role":

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{"id": "β.2", "kit": "beta", "set": 2, "w": 233, "h": 233, "semantic_role":
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{"id": "β.13", "kit": "beta", "set": 13, "w": 34, "h": 34, "semantic_role":

{"id": "γ.1", "kit": "gamma", "set": 1, "w": 233, "h": 377, "semantic_role"
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{"id": "γ.5", "kit": "gamma", "set": 5, "w": 55, "h": 89, "semantic_role":
{"id": "γ.8", "kit": "gamma", "set": 8, "w": 34, "h": 55, "semantic_role":

{"id": "δ.1", "kit": "delta", "set": 1, "w": 144, "h": 144, "semantic_role"
{"id": "δ.2", "kit": "delta", "set": 2, "w": 89, "h": 89, "semantic_role":
{"id": "δ.3", "kit": "delta", "set": 3, "w": 55, "h": 55, "semantic_role":
{"id": "δ.5", "kit": "delta", "set": 5, "w": 34, "h": 34, "semantic_role":
{"id": "δ.8", "kit": "delta", "set": 8, "w": 21, "h": 21, "semantic_role":
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{"id": "δ.21", "kit": "delta", "set": 21, "w": 8, "h": 8, "semantic_role":

{"id": "ε.1", "kit": "epsilon", "set": 1, "w": 89, "h": 55, "semantic_role"
{"id": "ε.2", "kit": "epsilon", "set": 2, "w": 55, "h": 34, "semantic_role"
{"id": "ε.3", "kit": "epsilon", "set": 3, "w": 34, "h": 21, "semantic_role"
{"id": "ε.5", "kit": "epsilon", "set": 5, "w": 21, "h": 13, "semantic_role"
{"id": "ε.8", "kit": "epsilon", "set": 8, "w": 13, "h": 8, "semantic_role":
{"id": "ε.13", "kit": "epsilon", "set": 13, "w": 8, "h": 5, "semantic_role"
{"id": "ε.21", "kit": "epsilon", "set": 21, "w": 5, "h": 3, "semantic_role"
]
},

"compounds": {
  "$description": "Reusable UI components built from elements. Each compound sp

"catalog": [
  {
    "id": "auction-featured",
    "name": "Auction Card – Featured",
    "container_kit": "alpha",
    "container_element": "α.1",
    "dimensions": {"w": 610, "h": 377},
    "constituent_elements": ["β.1", "ε.2", "ε.1", "δ.3", "ε.3"],
    "layout": {
      "type": "vertical_phi_split",
      "primary_region": {"role": "image", "element": "β.1", "h": 377},
      "secondary_region": {"role": "content", "h": 233, "contains": ["ε.2:bad
    },
    "spacing": {"padding": "space-lg", "gap": "space-md"},
    "visual": {"radius": "radius-lg", "shadow": "shadow-lg"},
    "responsive_degradation": {

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    "desktop": "α.1",
    "tablet": "β.1",
    "mobile": "γ.1",
    "small_mobile": "δ.1"
  },
  "priority": "high",
  "usage_contexts": ["homepage-hero", "featured-listing"]
},
{
  "id": "auction-grid",
  "name": "Auction Card – Grid",
  "container_kit": "gamma",
  "container_element": "γ.1",
  "dimensions": {"w": 233, "h": 377},
  "constituent_elements": ["β.2", "ε.2", "ε.1", "ε.3", "δ.5"],
  "layout": {
    "type": "vertical_phi_split",
    "primary_region": {"role": "image", "element": "β.2", "h": 233},
    "secondary_region": {"role": "content", "h": 144, "contains": ["ε.2:bad
  },
  "spacing": {"padding": "space-sm", "gap": "space-xs"},
  "visual": {"radius": "radius-md", "shadow": "shadow-md"},
  "responsive_degradation": {
    "desktop": "γ.1",
    "tablet": "γ.1",
    "mobile": "γ.1:full-width",
    "small_mobile": "δ.1"
  },
  "priority": "critical",
  "usage_contexts": ["search-results", "category-browse", "homepage-grid",
},
{
  "id": "auction-compact",
  "name": "Auction Card – Compact",
  "container_kit": "delta",
  "container_element": "δ.1",
  "dimensions": {"w": 144, "h": 144},
  "constituent_elements": ["β.5", "ε.3", "ε.5", "δ.8"],
  "layout": {
    "type": "horizontal_phi_split",
    "primary_region": {"role": "image", "element": "β.5", "w": 89},
    "secondary_region": {"role": "content", "w": 55, "contains": ["ε.3:pric
  },
  "spacing": {"padding": "space-xs", "gap": "space-xs"},
  "visual": {"radius": "radius-md", "shadow": "shadow-sm"},
  "responsive_degradation": {
    "desktop": "δ.1",

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        "tablet": "δ.1",
        "mobile": "δ.1",
        "small_mobile": "ε.1:horizontal"
    },
    "priority": "low",
    "usage_contexts": ["sidebar", "related-vehicles", "ending-soon"]
},
{
    "id": "bid-panel",
    "name": "Bid Panel",
    "container_kit": "gamma",
    "container_element": "γ.2",
    "dimensions": {"w": 144, "h": 233},
    "constituent_elements": ["ε.1", "ε.1", "ε.2", "δ.5"],
    "layout": {
        "type": "vertical_stack",
        "children": ["current-bid:ε.1", "input:ε.1", "submit:ε.1", "chips:ε.2×3"]
    },
    "spacing": {"padding": "space-md", "gap": "space-sm"},
    "visual": {"radius": "radius-lg", "shadow": "shadow-xl"},
    "responsive_degradation": {
        "desktop": "γ.2:sidebar",
        "tablet": "γ.2:sidebar",
        "mobile": "full-width:bottom-sheet",
        "small_mobile": "full-width:bottom-sheet"
    },
    "priority": "critical",
    "usage_contexts": ["auction-detail", "live-auction"]
},
{
    "id": "vehicle-hero",
    "name": "Vehicle Detail Hero",
    "container_kit": "alpha",
    "container_element": "α.1",
    "dimensions": {"w": 610, "h": 377},
    "constituent_elements": ["α.1", "δ.1", "ε.2", "ε.1"],
    "layout": {
        "type": "overlay",
        "base": {"role": "gallery", "element": "α.1"},
        "overlays": [
            {"role": "countdown", "element": "δ.1", "position": "bottom-right"},
            {"role": "status", "element": "ε.2", "position": "top-left"},
            {"role": "price", "element": "ε.1", "position": "bottom-left"}
        ]
    },
    "spacing": {"overlay_padding": "space-lg"},
    "visual": {"radius": "radius-lg"},

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    "responsive_degradation": {
      "desktop": "α.1",
      "tablet": "α.1:fluid",
      "mobile": "full-width:stacked",
      "small_mobile": "full-width:stacked"
    },
    "priority": "high",
    "usage_contexts": ["auction-detail-header"]
  },
  {
    "id": "countdown",
    "name": "Countdown Timer",
    "container_kit": "delta",
    "container_element": "δ.1",
    "dimensions": {"w": 144, "h": 144},
    "constituent_elements": ["δ.3", "δ.3", "δ.3", "δ.3", "δ.8", "ε.3"],
    "layout": {
      "type": "grid",
      "structure": "HH:MM:SS with colon separators",
      "digit_element": "δ.3",
      "separator_element": "δ.8",
      "label_element": "ε.3"
    },
    "spacing": {"gap": "space-xs"},
    "visual": {"radius": "radius-round", "background": "overlay"},
    "responsive_degradation": {
      "desktop": "δ.1",
      "tablet": "δ.1",
      "mobile": "δ.2",
      "small_mobile": "δ.3"
    },
    "priority": "high",
    "usage_contexts": ["auction-detail", "live-auction", "ending-soon-overlay"]
  },
  {
    "id": "seller-card",
    "name": "Seller Card",
    "container_kit": "gamma",
    "container_element": "γ.1",
    "dimensions": {"w": 233, "h": 377},
    "constituent_elements": ["β.5", "ε.1", "ε.3", "ε.2"],
    "layout": {
      "type": "vertical_stack",
      "children": ["avatar:β.5", "name:ε.1", "stats:ε.3×3", "action:ε.2"]
    },
    "spacing": {"padding": "space-lg", "gap": "space-md"},
    "visual": {"radius": "radius-lg"},

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    "responsive_degradation": {
      "desktop": "γ.1",
      "tablet": "γ.1",
      "mobile": "γ.2:horizontal",
      "small_mobile": "δ.1"
    },
    "priority": "medium",
    "usage_contexts": ["auction-detail", "seller-directory"]
  },
  {
    "id": "price-ticker",
    "name": "Price Ticker",
    "container_kit": "epsilon",
    "container_element": "ε.1",
    "dimensions": {"w": 89, "h": 55},
    "constituent_elements": ["ε.3", "ε.2", "δ.8"],
    "layout": {
      "type": "horizontal_stack",
      "children": ["currency:ε.3", "amount:ε.2", "trend:δ.8"]
    },
    "spacing": {"padding": "space-sm", "gap": "space-xs"},
    "visual": {"radius": "radius-sm"},
    "responsive_degradation": {
      "desktop": "ε.1",
      "tablet": "ε.1",
      "mobile": "ε.1",
      "small_mobile": "ε.2"
    },
    "priority": "critical",
    "usage_contexts": ["auction-card", "bid-panel", "bid-history", "price-dis
  },
  {
    "id": "navbar",
    "name": "Navigation Bar",
    "container_kit": "epsilon",
    "container_element": "ε.1:height",
    "dimensions": {"w": "viewport", "h": 55},
    "constituent_elements": ["β.8", "ε.2", "δ.3", "β.5"],
    "layout": {
      "type": "horizontal_justified",
      "children": ["logo:β.8", "nav-items:ε.2×N", "actions:δ.3×N", "avatar:β.
    },
    "spacing": {"padding_x": "space-lg", "gap": "space-xl"},
    "visual": {"shadow": "shadow-sm"},
    "responsive_degradation": {
      "desktop": "55px:full-width",
      "tablet": "55px:full-width",

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        "mobile": "55px:full-width:hamburger",
        "small_mobile": "55px:full-width:hamburger"
    },
    "priority": "critical",
    "usage_contexts": ["global-header"]
},
{
    "id": "filter-bar",
    "name": "Filter Bar",
    "container_kit": "epsilon",
    "container_element": "ε.2:height",
    "dimensions": {"w": "viewport", "h": 34},
    "constituent_elements": ["ε.2", "δ.5", "ε.3"],
    "layout": {
        "type": "horizontal_scroll",
        "children": ["chips:ε.2×N", "clear:δ.5", "count:ε.3"]
    },
    "spacing": {"padding_x": "space-md", "gap": "space-sm"},
    "priority": "medium",
    "usage_contexts": ["search-page", "browse-page"]
},
{
    "id": "bid-row",
    "name": "Bid History Row",
    "container_kit": "epsilon",
    "container_element": "ε.2:height",
    "dimensions": {"w": "parent", "h": 34},
    "constituent_elements": ["β.13", "ε.3", "ε.1", "ε.5"],
    "layout": {
        "type": "horizontal_stack",
        "children": ["avatar:β.13", "name:ε.3", "amount:ε.1", "time:ε.5"]
    },
    "spacing": {"padding_x": "space-md", "gap": "space-sm"},
    "priority": "medium",
    "usage_contexts": ["auction-detail-bids", "live-auction-feed"]
},
{
    "id": "spec-row",
    "name": "Vehicle Spec Row",
    "container_kit": "epsilon",
    "container_element": "ε.1:height",
    "dimensions": {"w": "parent", "h": 55},
    "constituent_elements": ["δ.5", "ε.3", "ε.2"],
    "layout": {
        "type": "horizontal_stack",
        "children": ["icon:δ.5", "label:ε.3", "value:ε.2:right-aligned"]
    },

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    "spacing": {"padding_x": "space-md", "gap": "space-sm"},
    "priority": "medium",
    "usage_contexts": ["auction-detail-specs"]
  },
  {
    "id": "search-input",
    "name": "Search Input",
    "container_kit": "mixed",
    "container_element": "α.2:width × ε.1:height",
    "dimensions": {"w": 377, "h": 55},
    "constituent_elements": ["δ.5", "ε.2"],
    "layout": {
      "type": "horizontal_stack",
      "children": ["icon:δ.5", "input:flex", "submit:ε.2"]
    },
    "spacing": {"padding_x": "space-md"},
    "visual": {"radius": "radius-lg", "shadow": "shadow-md"},
    "responsive_degradation": {
      "desktop": "377×55",
      "tablet": "full-width×55",
      "mobile": "full-width×55",
      "small_mobile": "full-width×55"
    },
    "priority": "high",
    "usage_contexts": ["global-search", "search-page-hero"]
  },
  {
    "id": "toast",
    "name": "Toast Notification",
    "container_kit": "alpha",
    "container_element": "α.5",
    "dimensions": {"w": 144, "h": 89},
    "constituent_elements": ["δ.5", "ε.2", "δ.8"],
    "layout": {
      "type": "horizontal_stack",
      "children": ["icon:δ.5", "message:ε.2:flex", "close:δ.8"]
    },
    "spacing": {"padding": "space-md", "gap": "space-sm"},
    "visual": {"radius": "radius-lg", "shadow": "shadow-xl"},
    "priority": "low",
    "usage_contexts": ["bid-confirmation", "system-alert"]
  },
  {
    "id": "tabs",
    "name": "Tab Bar",
    "container_kit": "epsilon",
    "container_element": "ε.1:height",

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    "dimensions": {"w": "parent", "h": 55},
    "constituent_elements": ["ε.2", "ε.8"],
    "layout": {
      "type": "horizontal_equal",
      "children": ["tab-item:ε.2×N"],
      "active_indicator": {"element": "ε.8", "position": "bottom"}
    },
    "spacing": {"item_padding_x": "space-lg", "gap": "space-xl"},
    "priority": "medium",
    "usage_contexts": ["auction-detail-sections", "user-dashboard-sections"]
  }
]
},

"composition_rules": {
  "$description": "Rules governing how elements combine into compounds and comp

  "containment": {
    "description": "Every compound must fit within a Kit container.",
    "constraint": "compound.w ≤ kit.base_width AND compound.h ≤ kit.base_height
  },
  "subdivision": {
    "description": "Internal splits follow golden ratio.",
    "valid_splits": {
      "alpha_horizontal": {"left": "beta", "right": "gamma"},
      "alpha_vertical": {"top": "beta:height", "bottom": "gamma:width"},
      "gamma_vertical": {"top": "beta.2:square", "bottom": "delta"},
      "delta_horizontal": {"left": "delta.2", "right": "epsilon"}
    }
  },
  "nesting_rules": [
    {"parent": "alpha", "valid_children": ["beta", "gamma", "delta", "epsilon"]}
    {"parent": "beta", "valid_children": ["delta", "epsilon"]},
    {"parent": "gamma", "valid_children": ["delta", "epsilon"]},
    {"parent": "delta", "valid_children": ["epsilon"]},
    {"parent": "epsilon", "valid_children": []}
  ],
  "spacing_binding": {
    "between_compounds": "space-xl (34px) or space-2xl (55px)",
    "within_compound": "compound-specific, see compound.spacing",
    "page_margin": "space-lg (21px) mobile, space-xl (34px) desktop"
  }
},

"responsive": {
  "$description": "Fibonacci breakpoints and Kit degradation model.",
  "breakpoints": {

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    "xs": {"max_width": 377, "label": "small_mobile", "fibonacci_index": 14},
    "sm": {"max_width": 610, "label": "mobile", "fibonacci_index": 15},
    "md": {"max_width": 987, "label": "tablet", "fibonacci_index": 16},
    "lg": {"max_width": 1597, "label": "desktop", "fibonacci_index": 17},
    "xl": {"max_width": 2584, "label": "large_desktop", "fibonacci_index": 18}
  },
  "grid": {
    "desktop": {"columns": 8, "column_width": 89, "gutter": 21, "content_width":
    "tablet": {"columns": 5, "column_width": 89, "gutter": 13, "content_width":
    "mobile": {"columns": 3, "column_width": 89, "gutter": 8, "content_width":
  },
  "degradation_chain": ["alpha", "beta", "gamma", "delta", "epsilon"]
},

"agent_instructions": {
  "$description": "Direct instructions for AI agents consuming this manifest.",

  "how_to_compose_a_page": [
    "1. Identify the page type from compounds[].usage_contexts",
    "2. Select compounds needed for each page section",
    "3. Check responsive.breakpoints to determine current viewport tier",
    "4. For each compound, resolve its container Kit via responsive_degradation
    "5. Arrange compounds vertically using composition_rules.spacing_binding.be
    "6. Validate all dimensions against validation_rules",
    "7. Generate CSS using token references (never raw pixel values)"
  ],

  "how_to_validate_a_layout": [
    "1. Extract all dimensional values from the layout",
    "2. Check each value against constants.permitted_pixel_values (FLOW-001)",
    "3. Verify all CSS properties use var(--flow-*) references (FLOW-002)",
    "4. For each compound, verify dimensions ≤ container Kit (FLOW-003)",
    "5. Check internal splits approximate φ ratio (FLOW-004)",
    "6. Verify spacing uses semantic space tokens (FLOW-005)",
    "7. Report violations with rule ID and severity"
  ],

  "how_to_create_a_new_compound": [
    "1. Identify the smallest Kit that contains the required dimensions",
    "2. Decompose internal layout using composition_rules.subdivision",
    "3. Map each region to existing elements from elements.catalog",
    "4. Define spacing using only semantic.space tokens",
    "5. Specify responsive degradation path following degradation_chain",
    "6. Validate against all validation_rules",
    "7. Register in compounds.catalog with full metadata"
  ],

```

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"forbidden_actions": [
  "NEVER use a pixel value not in constants.permitted_pixel_values",
  "NEVER write raw pixel values in CSS – always reference --flow-* tokens",
  "NEVER scale a compound by percentage – use Kit degradation instead",
  "NEVER create a compound larger than Kit Alpha (610 × 377)",
  "NEVER skip a Kit level in degradation ( $\alpha \rightarrow \delta$  without  $\beta, \gamma$  is invalid)",
  "NEVER use non-Fibonacci spacing between or within compounds"
]
},

"brands": {
  "$description": "Brand theme overlays. Mathematical foundation is universal;
  "subascars": {
    "status": "primary_implementation",
    "theme_overrides": ["color", "typography_family", "imagery_style"],
    "locked_properties": ["dimensions", "proportions", "spacing", "radius_scale
  },
  "vmc_subastars": {
    "status": "migration_target",
    "theme_overrides": ["color", "typography_family", "imagery_style"],
    "locked_properties": ["dimensions", "proportions", "spacing", "radius_scale
  }
}
}

```