

► Visual Hierarchy & Layout

- Put decision-critical modules in the first (left) column: **Current Risk Score** → **AI Risk Narrative** → **Risk Score History**.
- Move context-only cards (**Market Data**, **Sentiment**) to the right column.
- Group all time-series charts in one horizontal “Market Trend” strip for easy comparison.
- Arrange components to follow the natural F-pattern scan path (top-left downward, then across).

► Data Visualization Improvements

- Replace the donut chart with a **100 % stacked bar** (or horizontal waterfall) to show component weights accurately.
- Add hover tooltips displaying exact % and week-over-week Δ .
- Convert the 1-Day Crash Probability bar to a **bullet chart** with clear 0 %, 50 %, 100 % ticks (or add tick labels to current bar).
- Enhance the Risk Score History line:
- Overlay a faint 30-day moving average or confidence band.
- Provide 1 m / 3 m / 6 m range toggles.

► Accessibility & Theming

- Ensure all text & lines meet WCAG-AA contrast; adjust red (#E96565 → #F87171) or lighten card background.
- Use a color-blind-safe palette (e.g., Tableau 10 / IBM Carbon) for component colors.
- Offer a **Dark ↔ Light theme toggle** so printed screenshots stay legible.

► Micro-UX Trust Builders

- Display “**Last updated HH:MM ET**” under the main risk score.
- Add ▲▼ trend arrows plus 1-day % change next to SPY, VIX, DXY.
- Provide ⓘ tooltips that explain formulas & model horizons.
- Add a “**Copy to clipboard**” icon beside the Recommendations list for quick sharing.

► Interaction & Drill-Down

- Make metric cards clickable to open modal drill-downs (e.g., Reddit sentiment → top posts).
- Let users set personal alert thresholds; show their dashed line on charts.
- Add search/filter box above the real-time log panel.

► Performance & Responsiveness

- Use **skeleton loaders** while data fetches to signal progress.
- **Lazy-load heavyweight charts** (e.g., Risk Components) on scroll.
- On < 768 px, collapse to single-column; keep Risk Score & Narrative sticky at top.

► Content & Tone

- Keep AI narrative concise (≤ 280 chars) and timestamped.
- Soften prescriptive language: "If equity exposure > 60 %, consider defensive allocation ...".

► Nice-to-Have Road-Map Enhancements

- **Scenario slider:** drag VIX level → dynamic risk score update.
- One-click **Export PNG/PDF** of current dashboard view.
- Bottom **ticker tape** cycling key macro indicators (SPY, NQ, TNX, Gold).

► Quick Wins (Low Effort, High Impact)

1. Add "Last updated" timestamp & hover tooltips.
2. Swap donut → stacked bar for Risk Components.
3. Re-stack layout (critical left column order).
4. Update colors to pass WCAG contrast checker.

Implementing the Quick Wins first will immediately improve clarity, trust, and accessibility; the remaining items can roll into a phased roadmap as resources allow.