Educational Performance Dashboard (DVII) - Design Specification

This document defines the complete design specifications for the DVII Educational Performance Dashboard.

It ensures a consistent, accessible, and professional layout for exploring educational performance metrics.

1. Layout and Structure

- Z-pattern layout with 12-column grid (1440px width).

- 3 main regions: Header, Visual Zone, and Insight Panel.

- Key alignment: sight-lines, visual centre slightly above geometric centre.

2. Typography Hierarchy

Font: Inter (Sans-serif)

H1: 32px Bold (#1A1A1A)

H2: 24px Semi-Bold (#333333)

H3: 18px Semi-Bold (#333333)

H4: 16px Regular (#555555)

Body: 14px Regular (#444444)

Caption: 12px Regular (#777777)

3. Colour Scheme

Primary: #004C97

Secondary: #FFB81C

Neutral Palette: #F5F7FA / #E0E3E8 / #1A1A1A

Alert: #D62828, Success: #4CAF50

Sequential: Blues, Diverging: RdYlGn (ColorBrewer compliant).

4. Visualization Components

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1. Map: "Map of Schools by Region"

   - Interactive dots, hover tooltips, filter linkage.

2. Median Study Score Distribution

   - Histogram with range filter.

3. Scatter Plot

   - Correlation between % Scores >= 40 and Median Study Score.

   - Includes regression line, linked to map/table.

4. Table + Linked Bar Chart

   - Category view, horizontal bars, interactive filtering.

5. Interaction Design

Hover: tooltip + highlight

Select: bold colour + linked update

Filter: animated transition (300ms)

Reset: fade return to default

6. Spacing and Composition

Between visualizations: 40px

Headings to charts: 16px

Internal chart padding: 24px

White space used to group and separate sections.

7. Accessibility

Contrast ratio >= 4.5:1

Colour-blind safe palettes

Keyboard navigation + ARIA labels

Alt-text for visualizations.

8. Example Text Content

H1: Educational Performance Dashboard

H2: Explore School Outcomes Across Victoria

H3: Map of Schools by Region

Body: This dashboard visualises Victorian school performance metrics.

Caption: Data source: VCAA, 2023.

9. Visual Hierarchy Flow

Overview -> Explore -> Explain -> Conclude.

Note: This PDF omits any chart or JSON structural edits, ensuring the original visualization files remain unchanged.