## Paper and Pencil Principle

We interact with charts day-in and day-out as we read the news, attend meetings, review sales numbers, forecast projections, and set targets. However, we rarely stop to think about what makes these sometimes-drool-worthy pieces of information so pervasive in media and business. This white paper takes you on a journey to discover the underlying principles behind data visualization.

What's in this white paper?

Two Goals in Data Visualization Every visualization has a goal. Find out what are the two most common goals for visualizations, and next time you plot a chart, start with the right goal in mind.

Eyesight and Memory Working In Parallel Massively Parallel Processing (MPP) is a term commonly used in Big Data. Learn how our eyesight and memory uses the same mechanism to process visual information.

Preattentive Attributes Used by Our Working Memory No discussion of visualization would be complete without mentioning its basic building blocks - preattentive attributes. Find out what's it about a visual that catches our attention immediately.

Forming Analytical Patterns Out of Preattentive Attributes Our vision is inherently pattern seeking. Get a comprehensive list of the patterns we identify when analyzing a visual.

Using the Gestalt Principles to Bring Out Patterns in Visualizations Ever wanted to emphasize certain aspects of a visual? The Gestalt Principles can bring out your point of view with subtlety or boldness.

An Example from Recorded Future Finally, apply the various principles of data visualization discussed in this white paper to a real-world example from Recorded Future.