



SEISMIC INSIGHT, INC.

Seismic Insight

Technological Overview

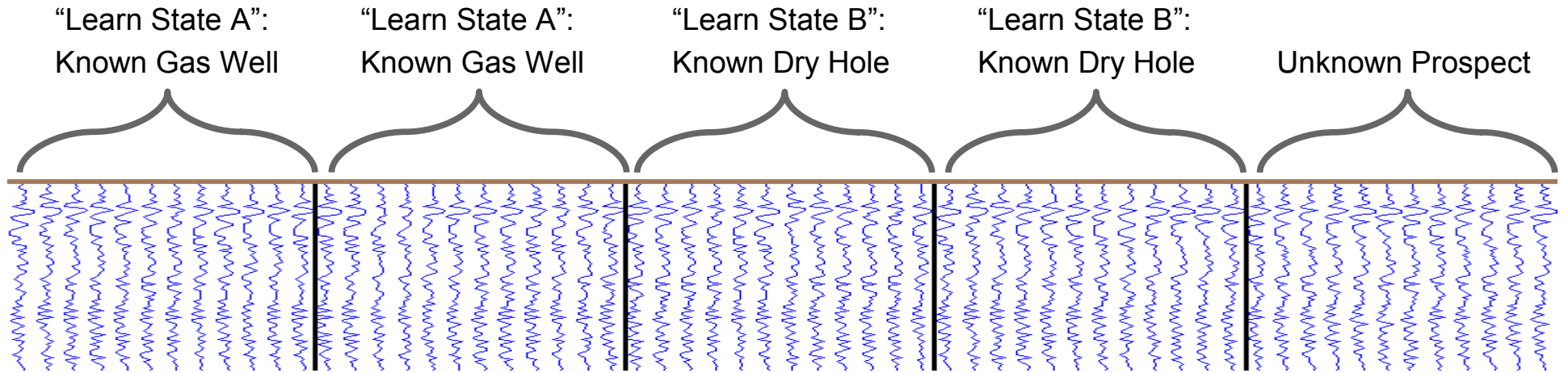
2005 November

Event Resolution Imaging

Innovative Pattern Learning Software

- an advanced pattern recognition system
- highly effective at finding hidden patterns in waves
- based on the mathematics of complex vector spaces
- **not** built using neural networks
- surprisingly versatile
- easy to understand

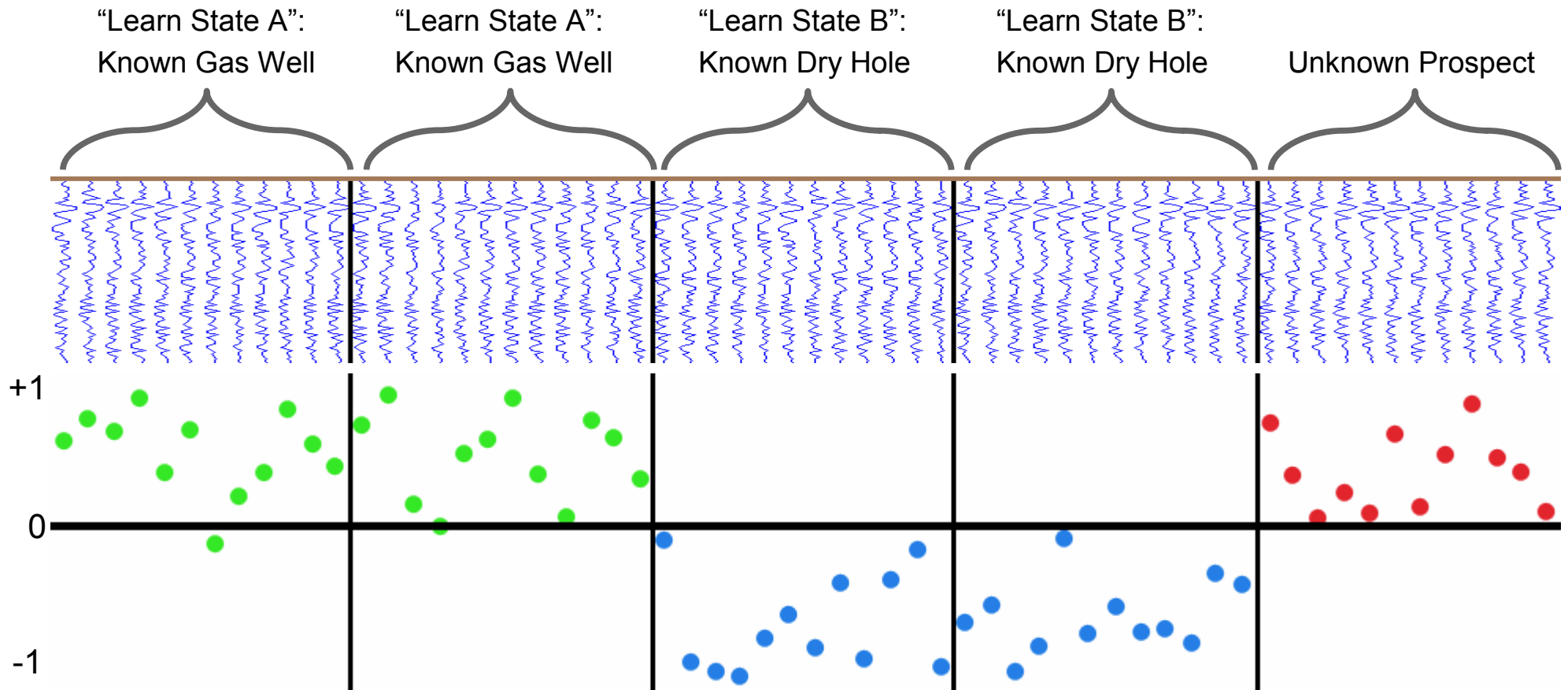
What does Event Resolution Imaging do?



The software compares seismic waves from Learn State A
against seismic waves from Learn State B...

...and tells us whether the unknown seismic waves are more like State A or State B.

Event Resolution Imaging: The Key Activation Plot



The software classifies each seismic trace and places a corresponding dot on the plot.

If the seismic trace is more like the traces in Learn State A,

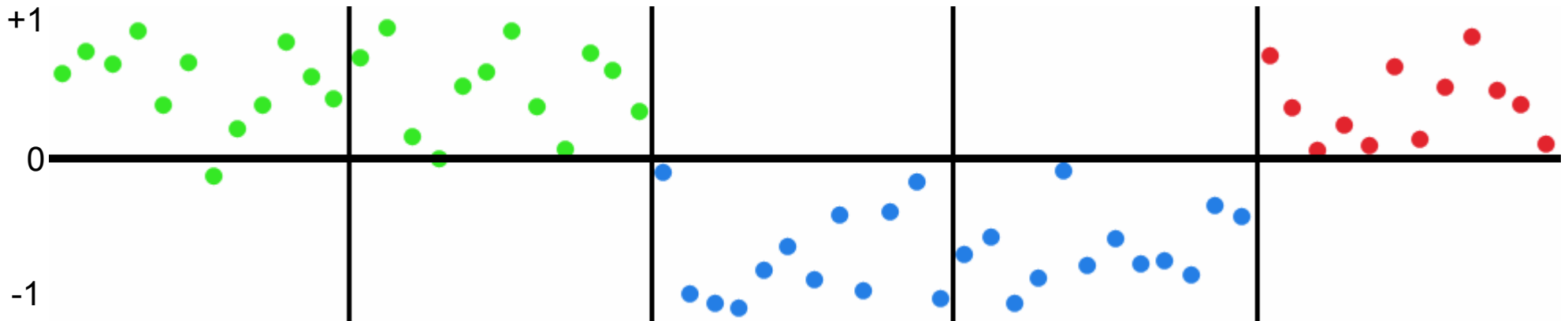
the dot is placed between 0 and +1 on the plot.

If the seismic trace is more like the traces in Learn State B,

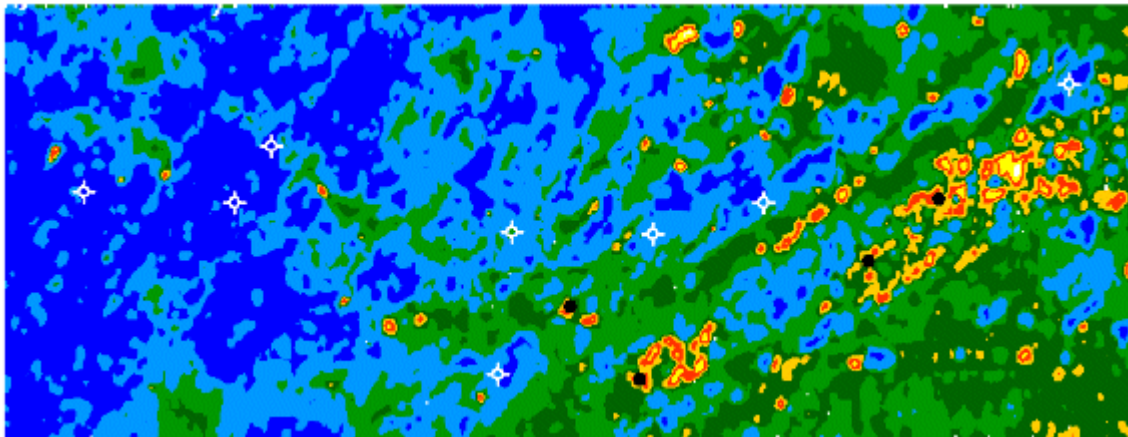
the dot is placed between -1 and 0 on the plot.

Event Resolution Imaging: The Contrast Volume

So classification results can be displayed by individual area of interest...



...or if a whole survey is classified, numeric rankings for traces can be displayed in a map view using a graded color scale.



These amplitude values range from 0 to +1 (displayed green, orange and yellow) and from -1 to 0 (displayed blue).

Like before, positive values indicate similarity to Learn State A, while negative values indicate similarity to Learn State B.



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