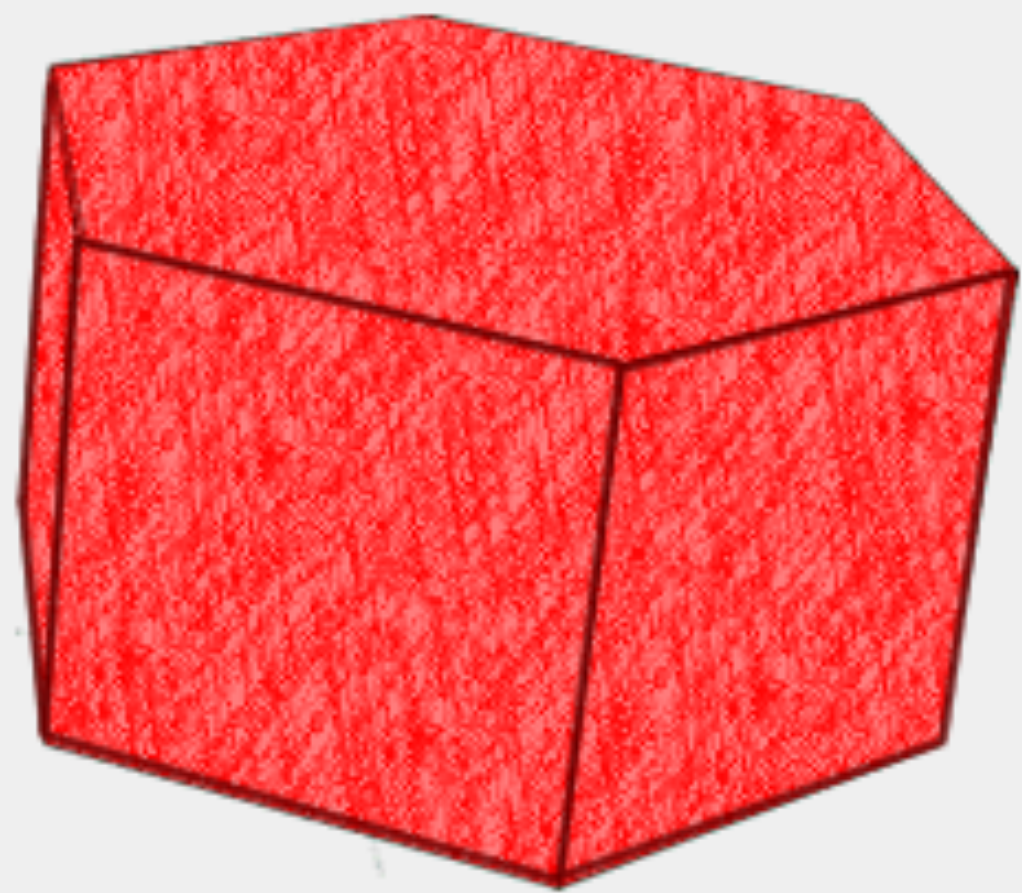


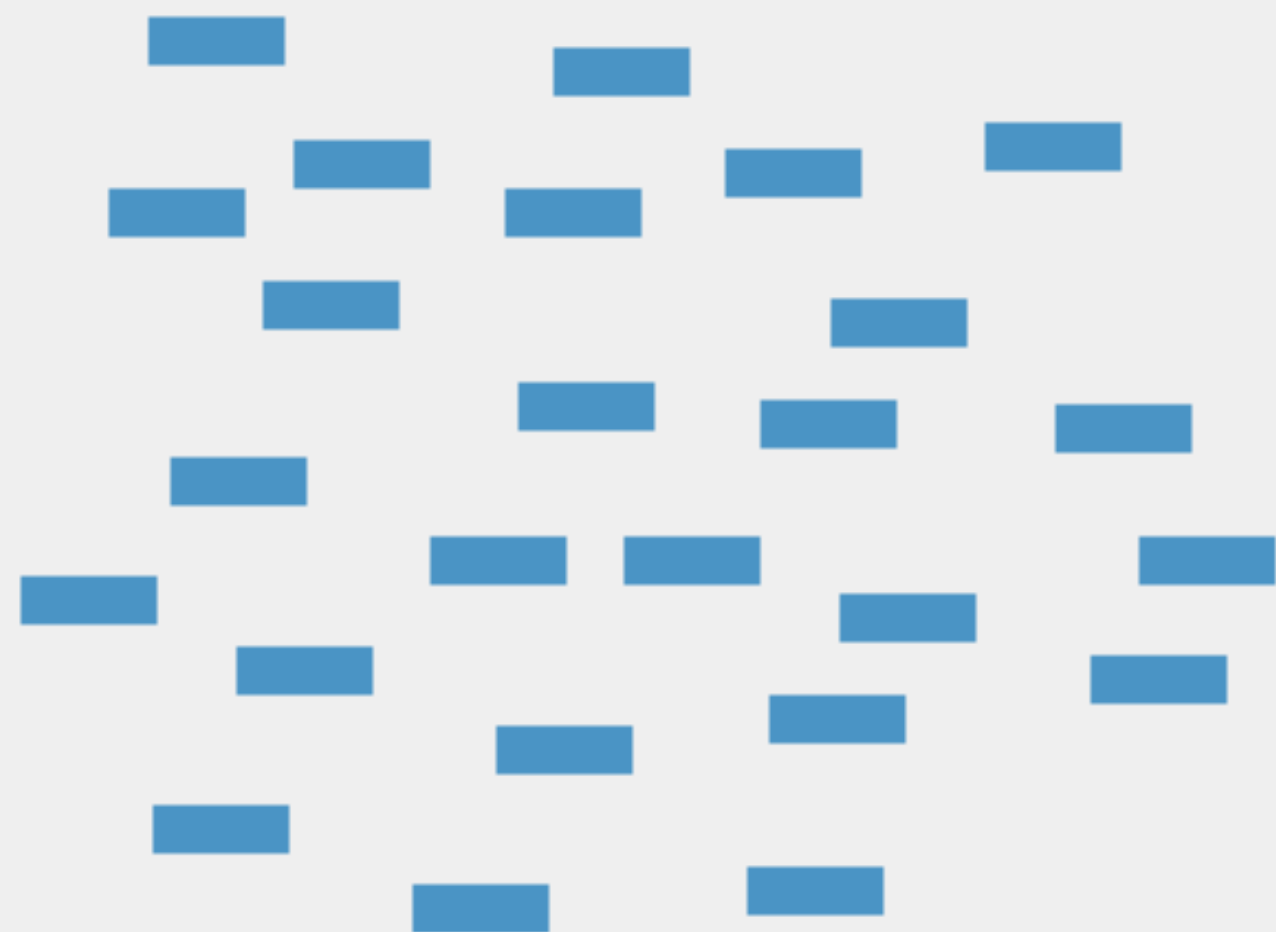


- Preattentive Processing
- A process of filtering information from visual cues rapidly

**Why Visualize**

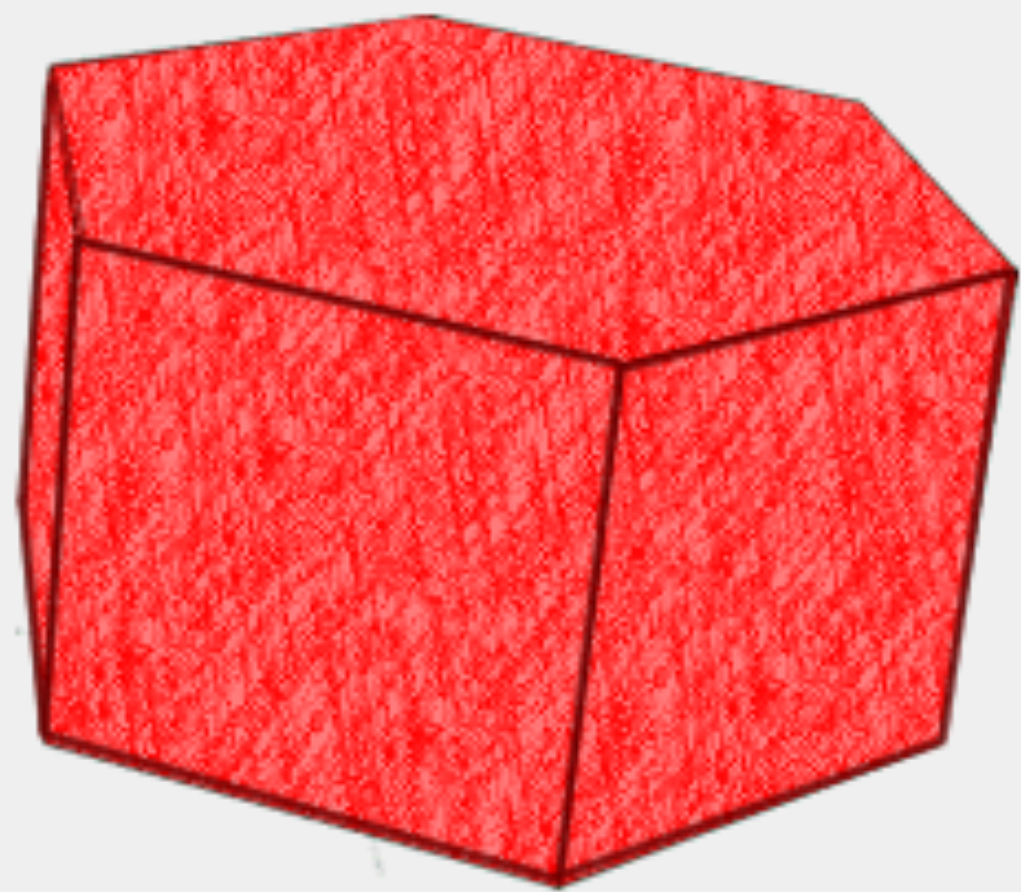


Artistic Properties

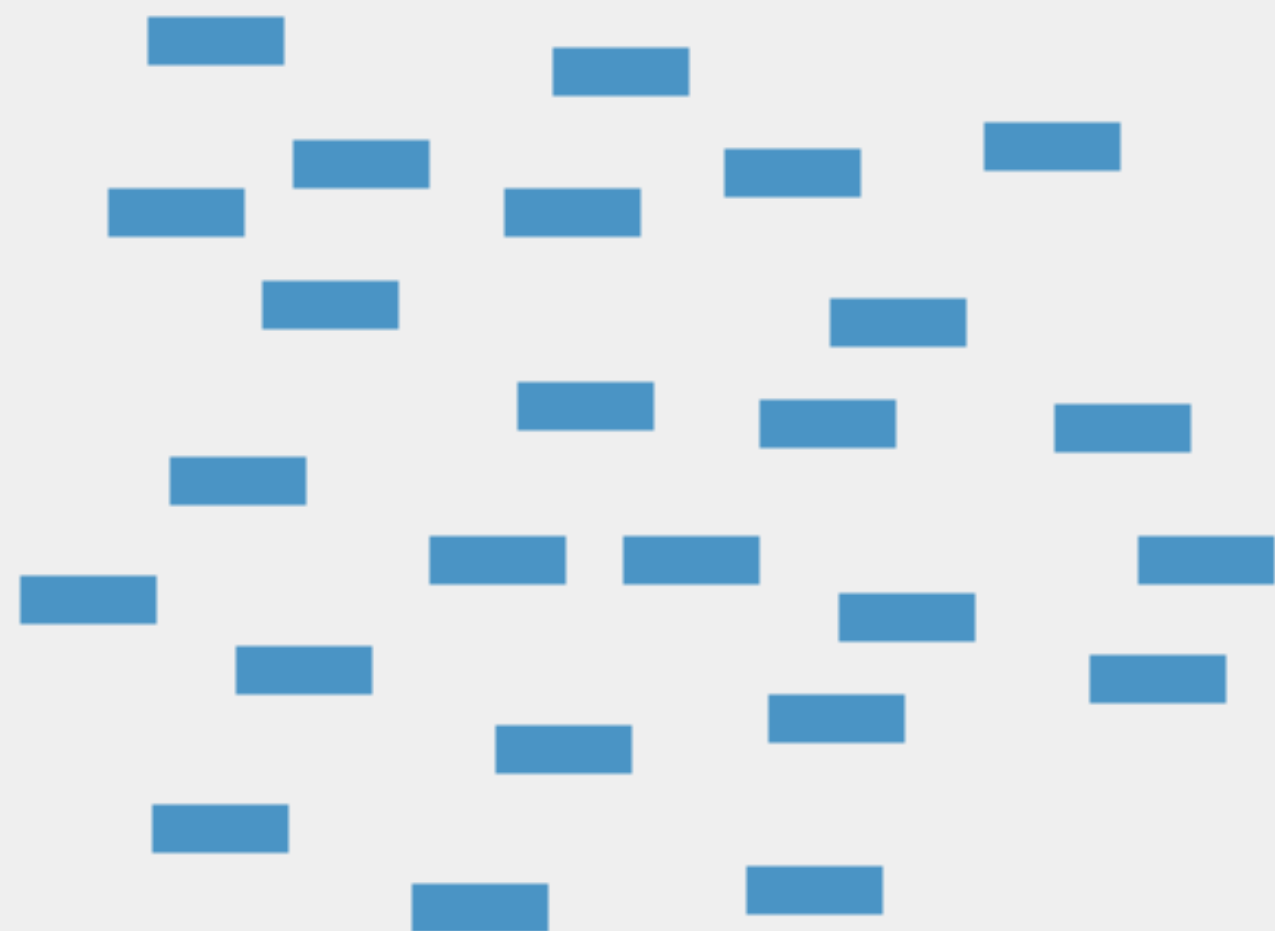


Velocity of Motion

Healey, C. G. (2007). Perception in visualization. Retrieved February, 10, 2008.  
Design: Seeing Without Thinking (<http://medium.com/@jonmyers/design-seeing-without-thinking-783d018bb82f>)



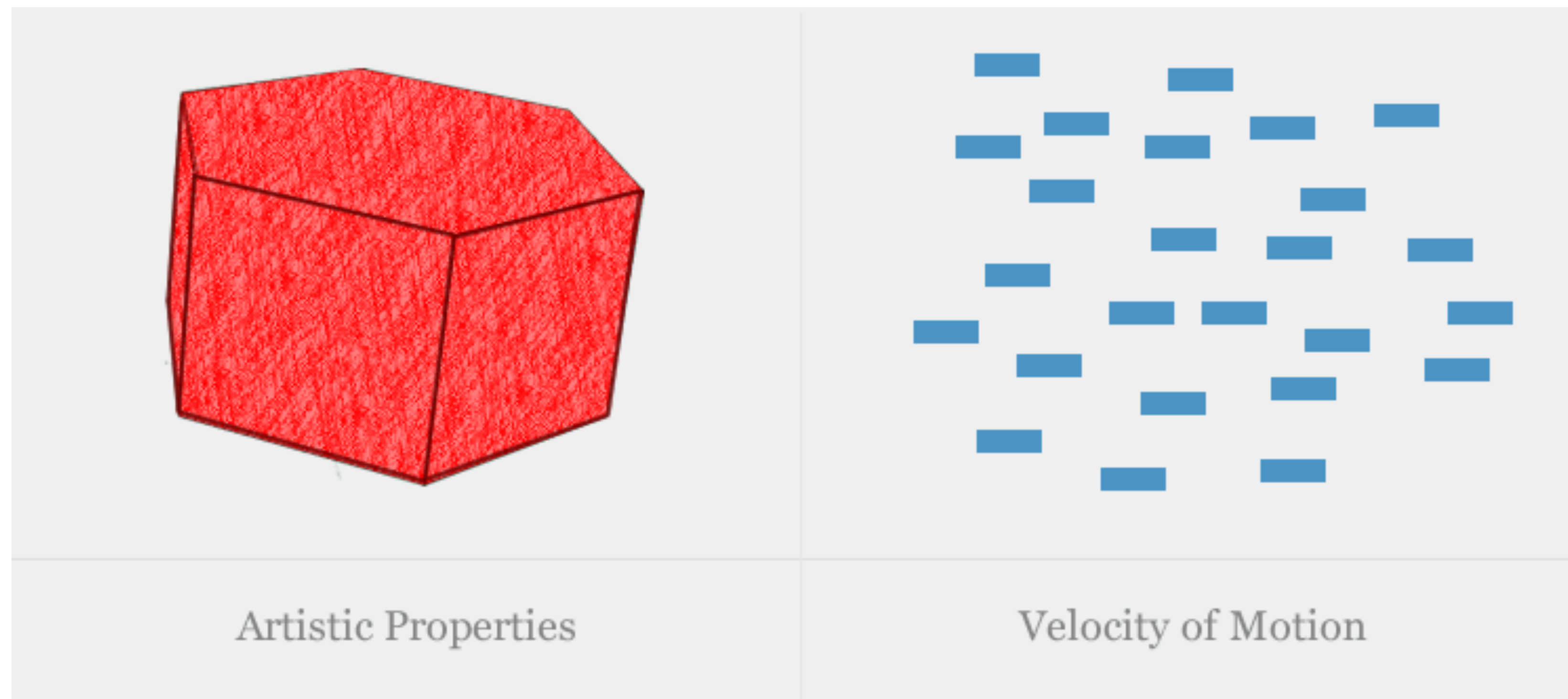
Artistic Properties



Velocity of Motion

# Why Visualize

- Preattentive Processing
- A process of filtering information from visual cues rapidly



# Why Detail

Anscombe's quartet

I		II		III		IV	
<i>x</i>	<i>y</i>	<i>x</i>	<i>y</i>	<i>x</i>	<i>y</i>	<i>x</i>	<i>y</i>
10.0	8.04	10.0	9.14	10.0	7.46	8.0	6.58
8.0	6.95	8.0	8.14	8.0	6.77	8.0	5.76
13.0	7.58	13.0	8.74	13.0	12.74	8.0	7.71
9.0	8.81	9.0	8.77	9.0	7.11	8.0	8.84
11.0	8.33	11.0	9.26	11.0	7.81	8.0	8.47
14.0	9.96	14.0	8.10	14.0	8.84	8.0	7.04
6.0	7.24	6.0	6.13	6.0	6.08	8.0	5.25
4.0	4.26	4.0	3.10	4.0	5.39	19.0	12.50
12.0	10.84	12.0	9.13	12.0	8.15	8.0	5.56
7.0	4.82	7.0	7.26	7.0	6.42	8.0	7.91
5.0	5.68	5.0	4.74	5.0	5.73	8.0	6.89

Property	Value
Mean of <i>x</i>	9
Sample variance of <i>x</i> : $s_x^2$	11
Mean of <i>y</i>	7.50
Sample variance of <i>y</i> : $s_y^2$	4.125
Correlation between <i>x</i> and <i>y</i>	0.816
Linear regression line	$y = 3.00 + 0.500x$
Coefficient of determination of the linear regression : $R^2$	0.67