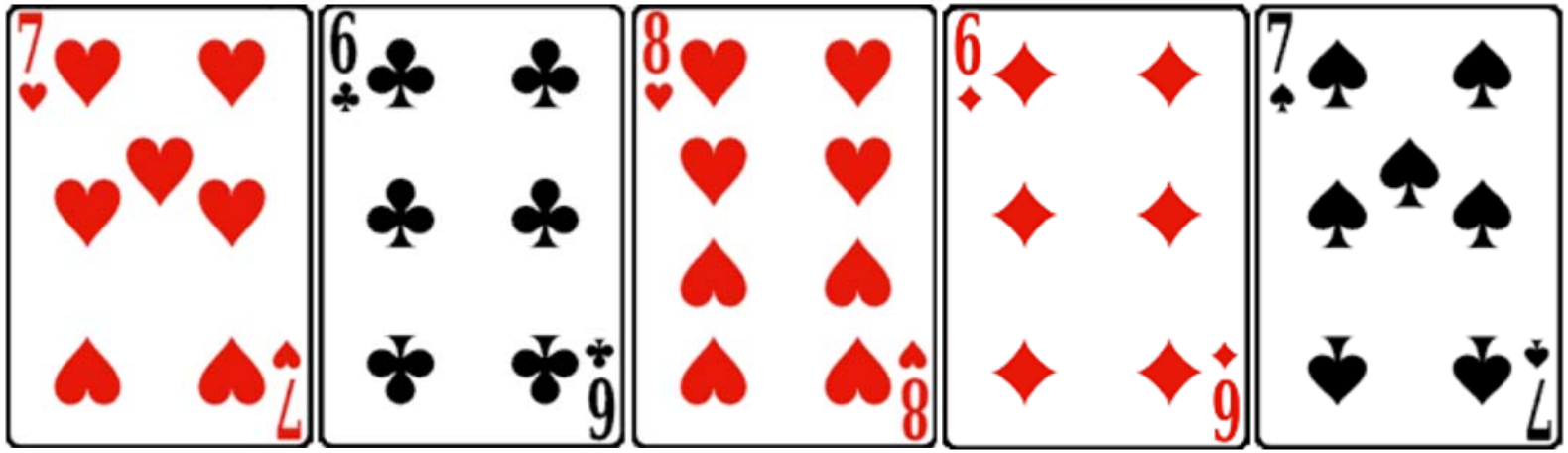
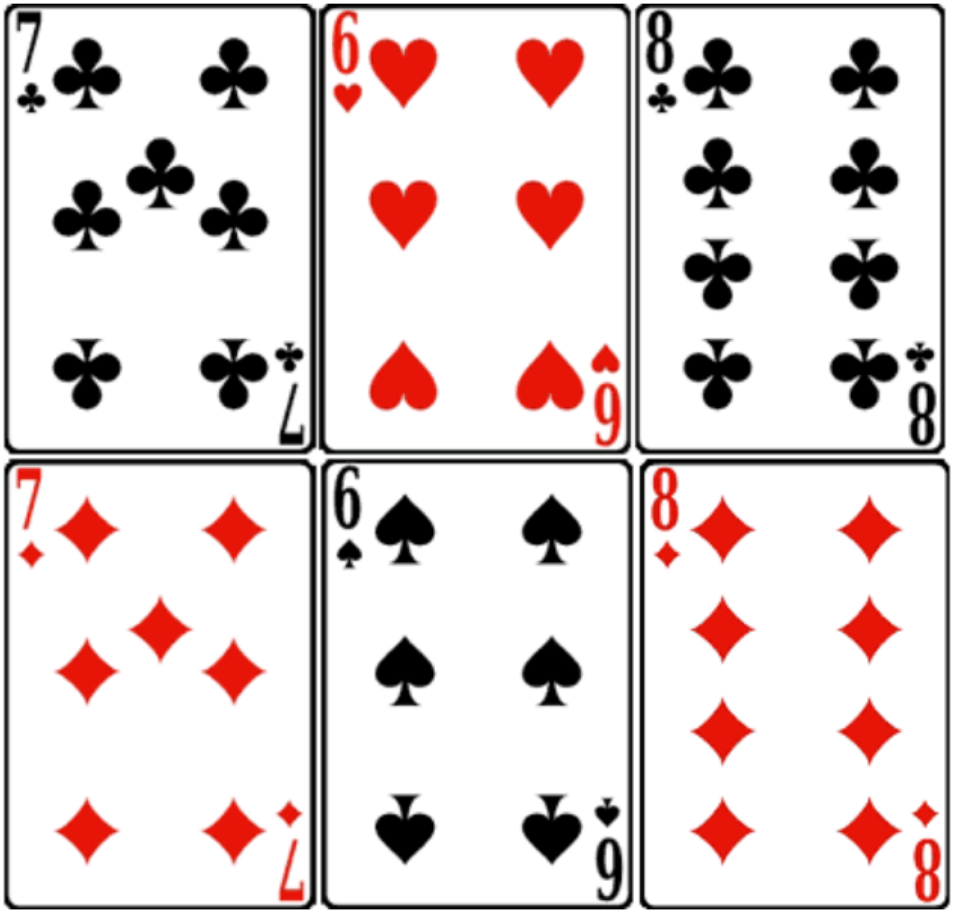
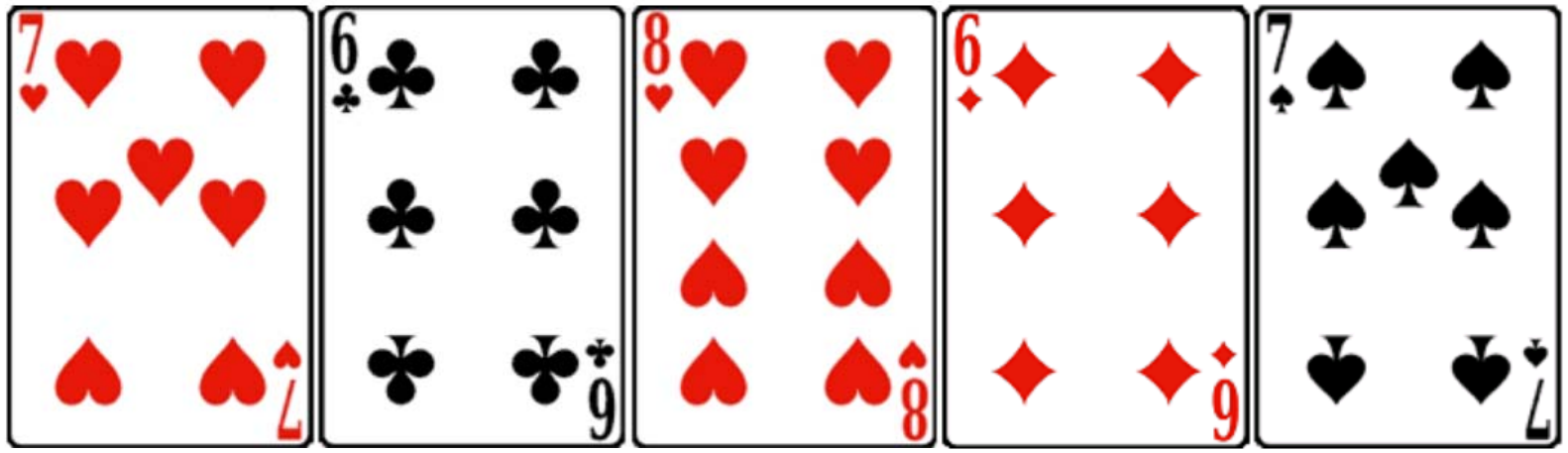
认知过程中的意识与注意



注意

- 注意/意识
- 我们经常注意的比我们意识到的多
- 我们经常注意的比我们意识到的少





认知过程中注意的作用

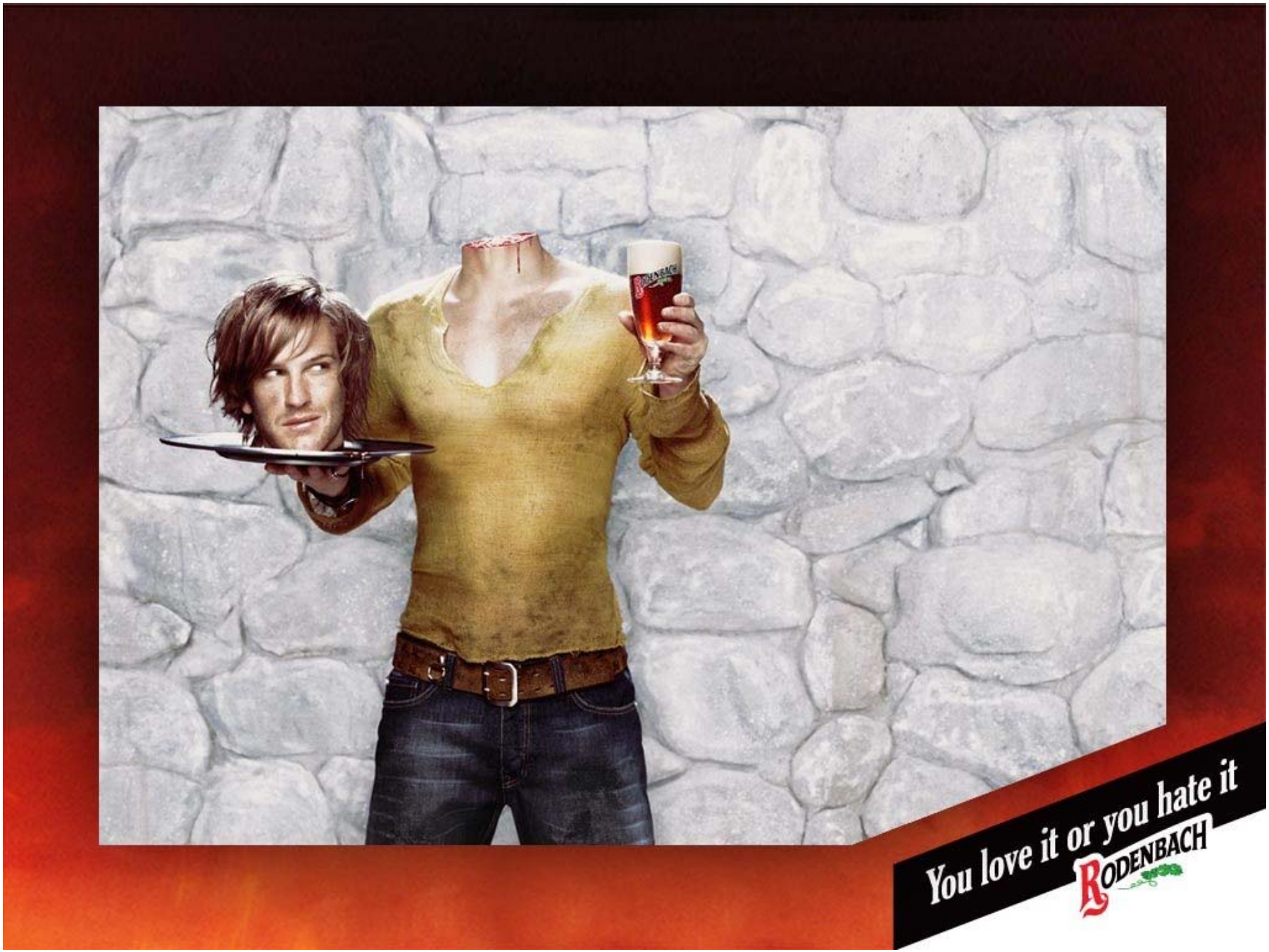
- 头发？

认知过程中注意的作用


You love it or you hate i
RODENBACH

Saint Sebastian - Gerrit van Honthorst (circa 1623)

Saint Sebastian

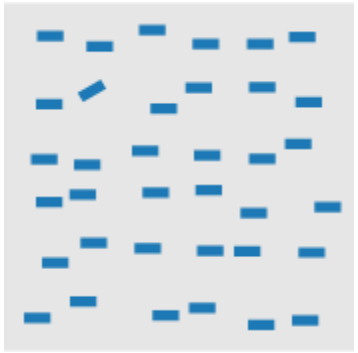

You love it or you hate it
RODENBACH


You love it or you hate it
RODENBACH

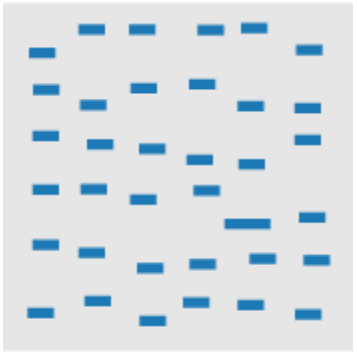
那些要素吸引和维持注意？

注意的要素

- 发现
- 警觉
- 搜索

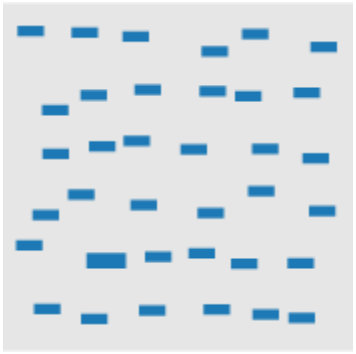


line (blob) orientation
Julész & Bergen 83; Sagi & Julész 85a, Wolfe et al. 92; Weigle et al. 2000

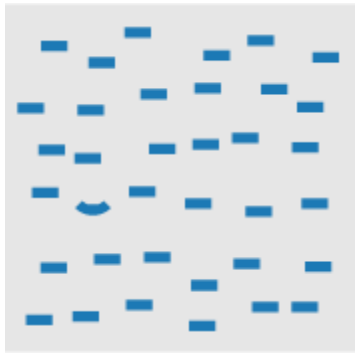


length, width
Sagi & Julész 85b; Treisman & Gormican 88

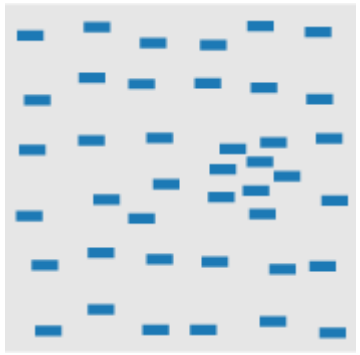
closure
Julész & Bergen 83



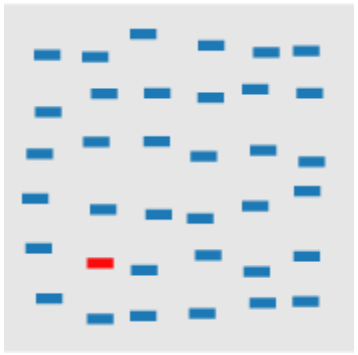
size
Treisman & Gelade 80; Healey & Enns 98; Healey & Enns 99x



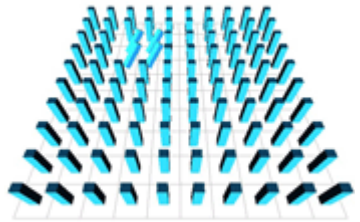
curvature
Treisman & Gormican 88



density, contrast
Healey & Enns 98; Healey & Enns 99



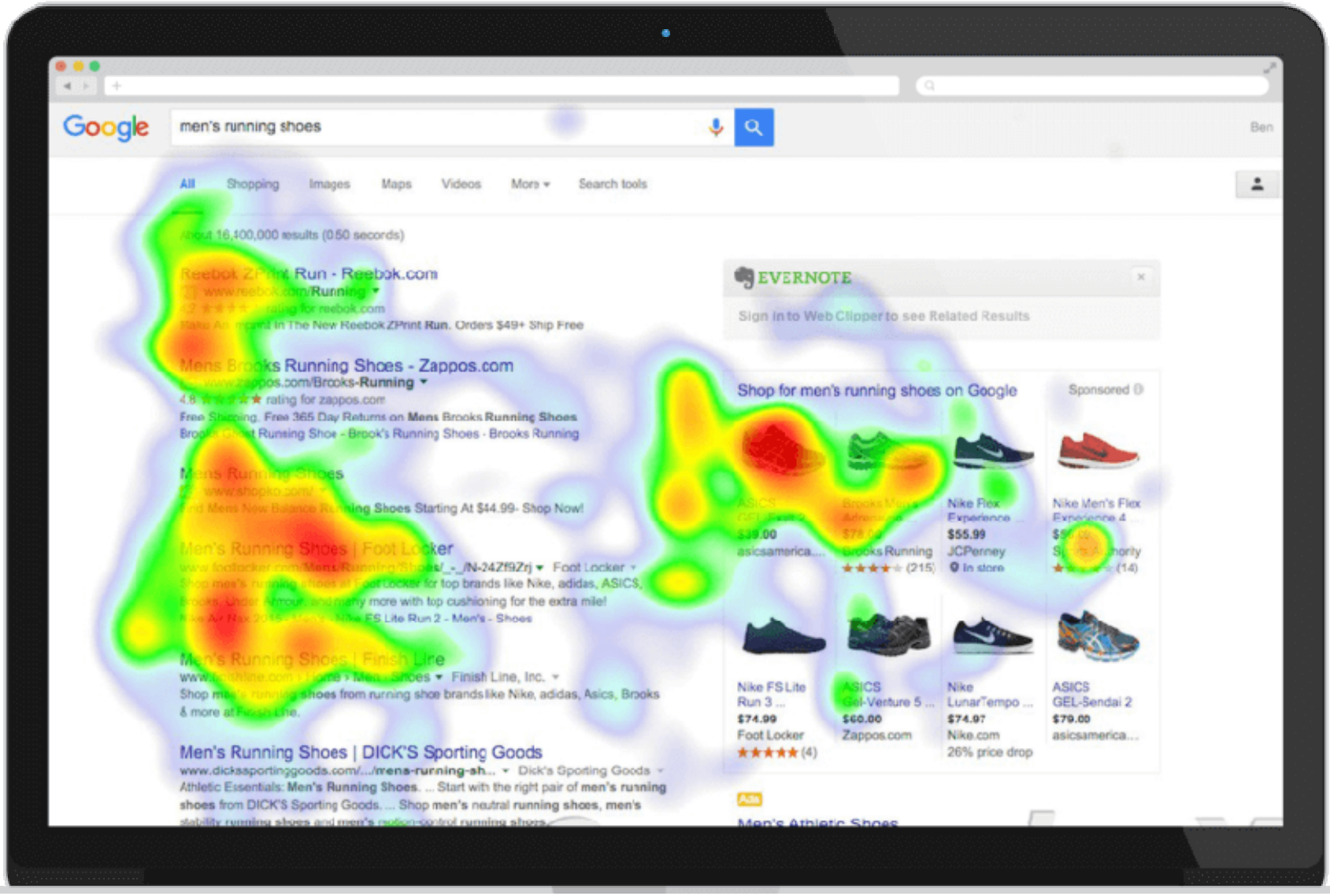
colour (hue)
Nagy & Sanchez 90; Healey 96; Bauer et al. 98; Healey & Enns 99



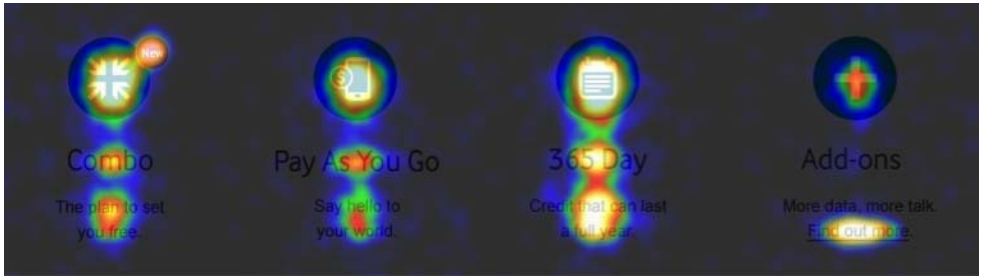
定量方法

- 信号检测论
- 注视点与注视几率

The Saliency Map



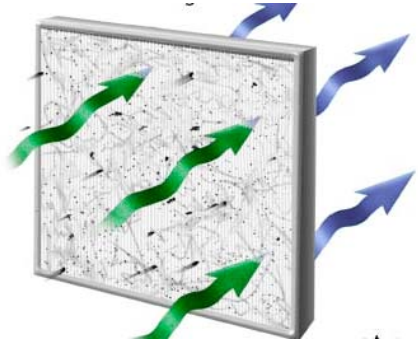

Google


Combo
Pay As You Go
365 Day
Add-ons
More data, more talk.

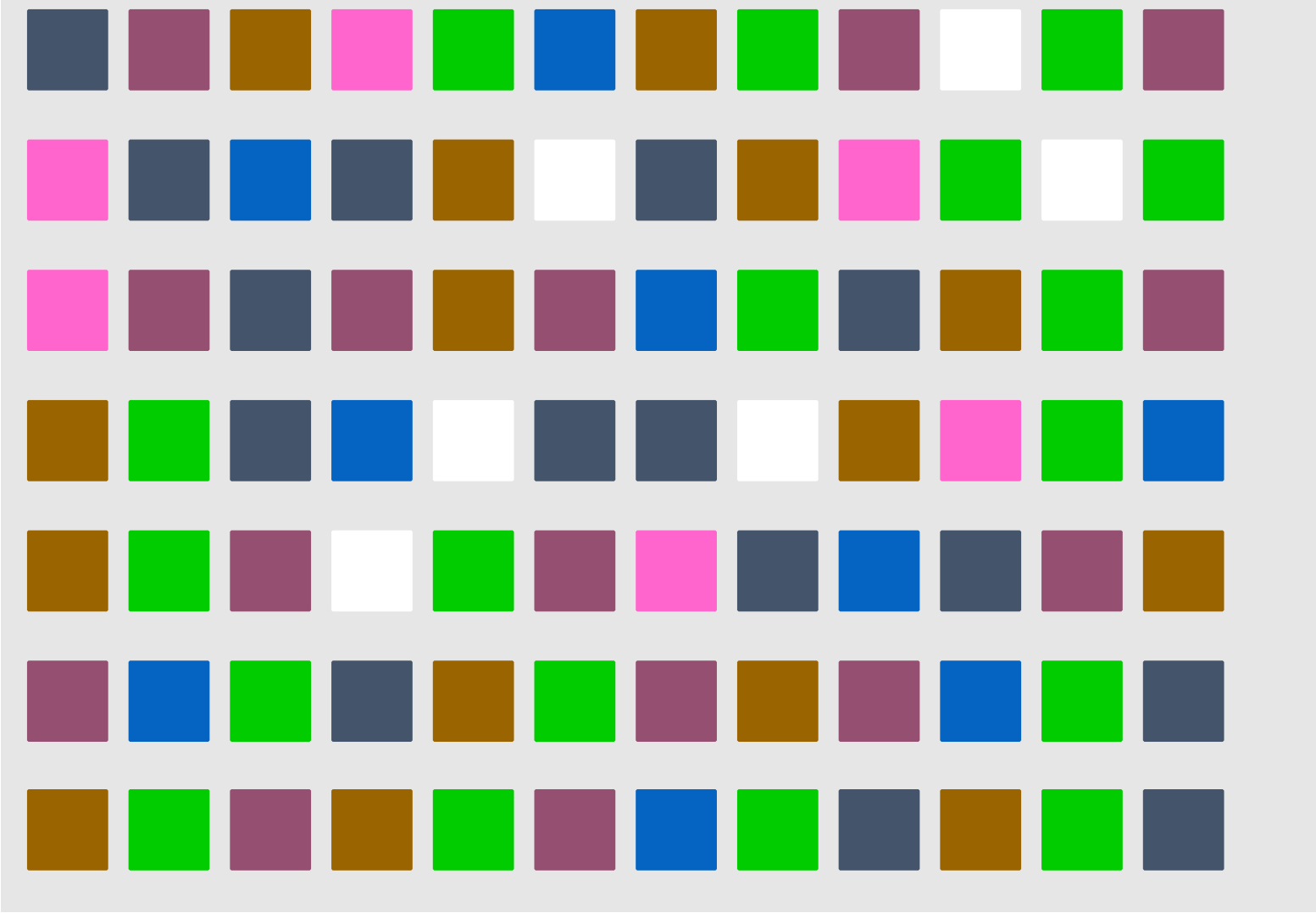
模型

过滤模型

竞争模型

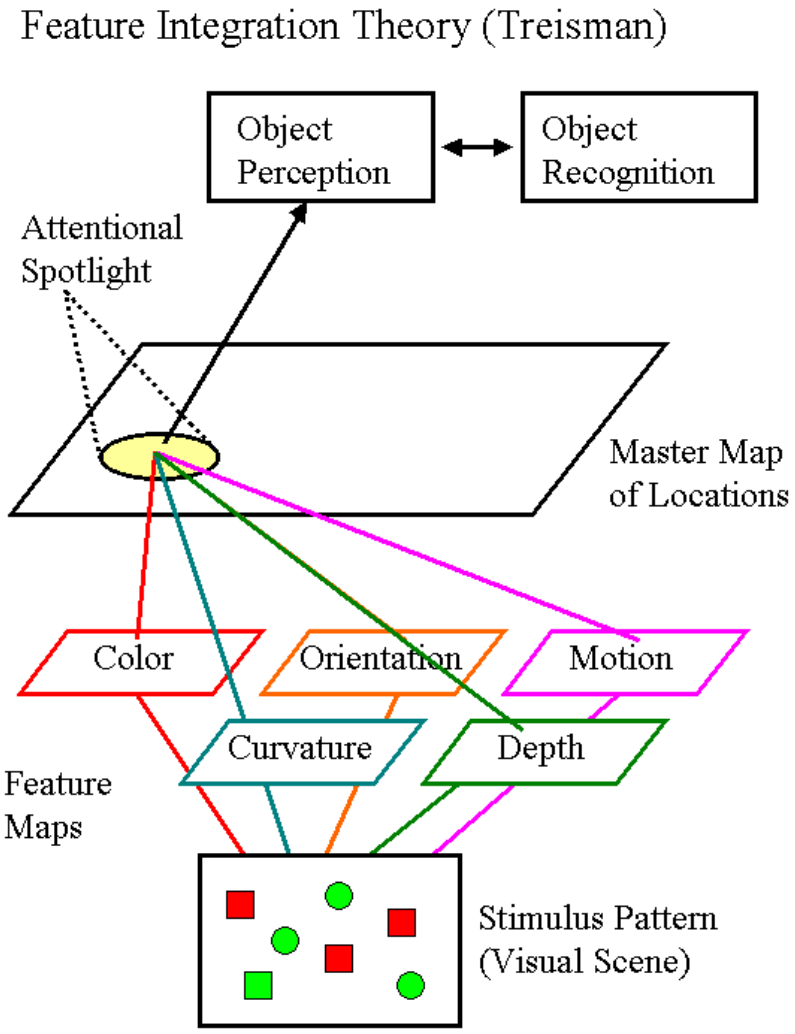


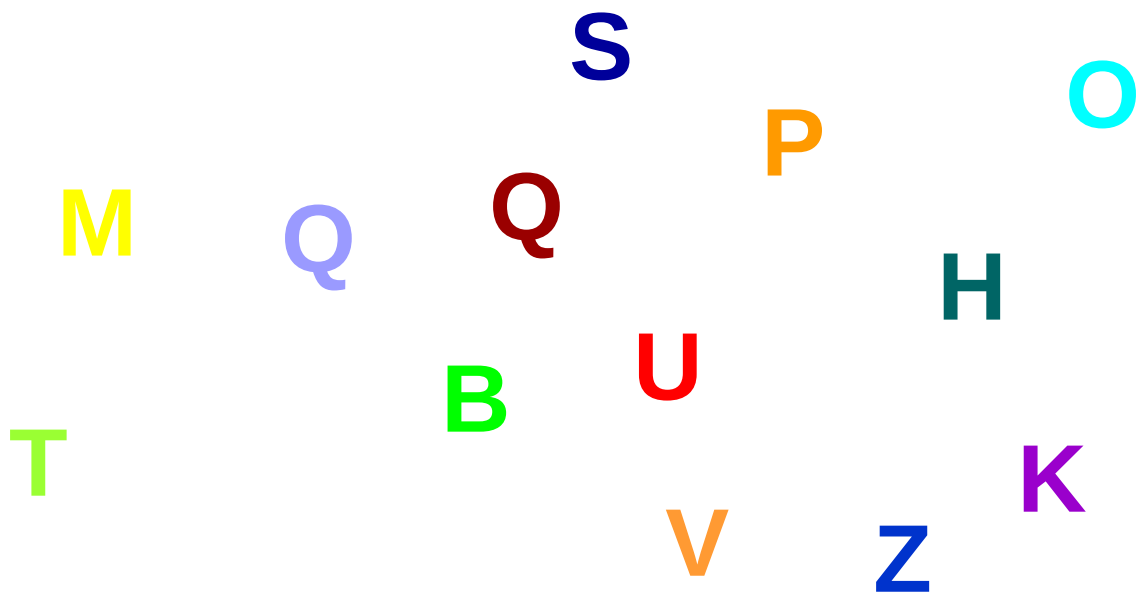
Stroop 效应



其他理论观点

- 注意是“胶水”




S
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V
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X 的颜色是什么

Unilateral Neglect

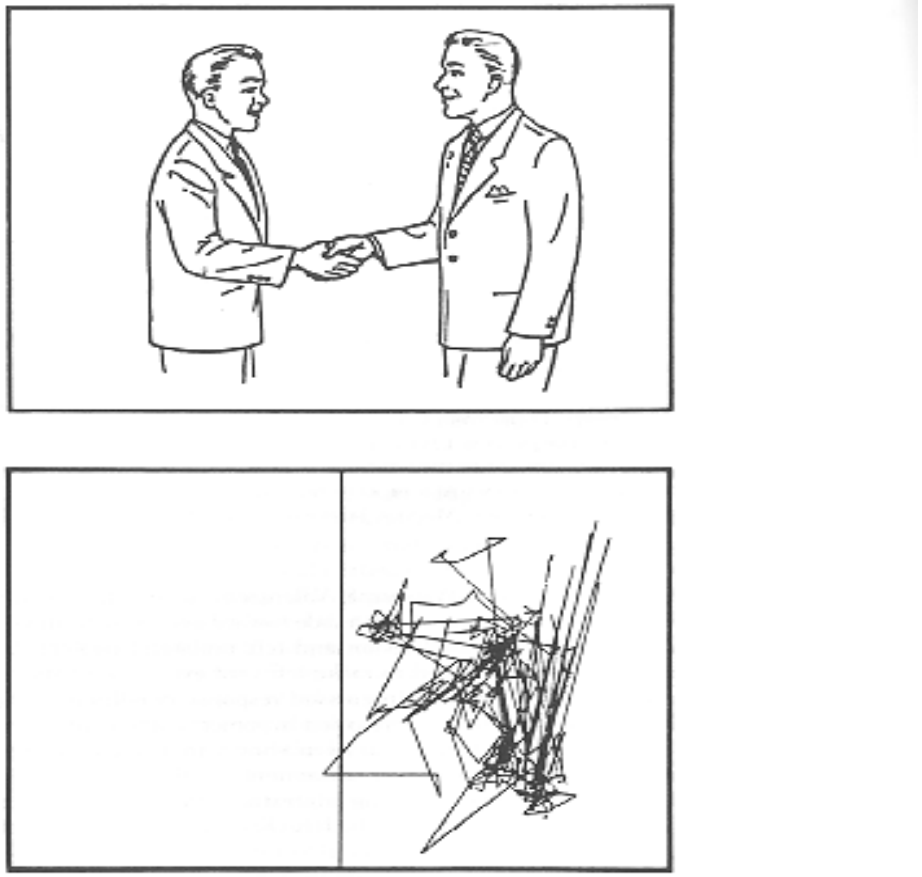
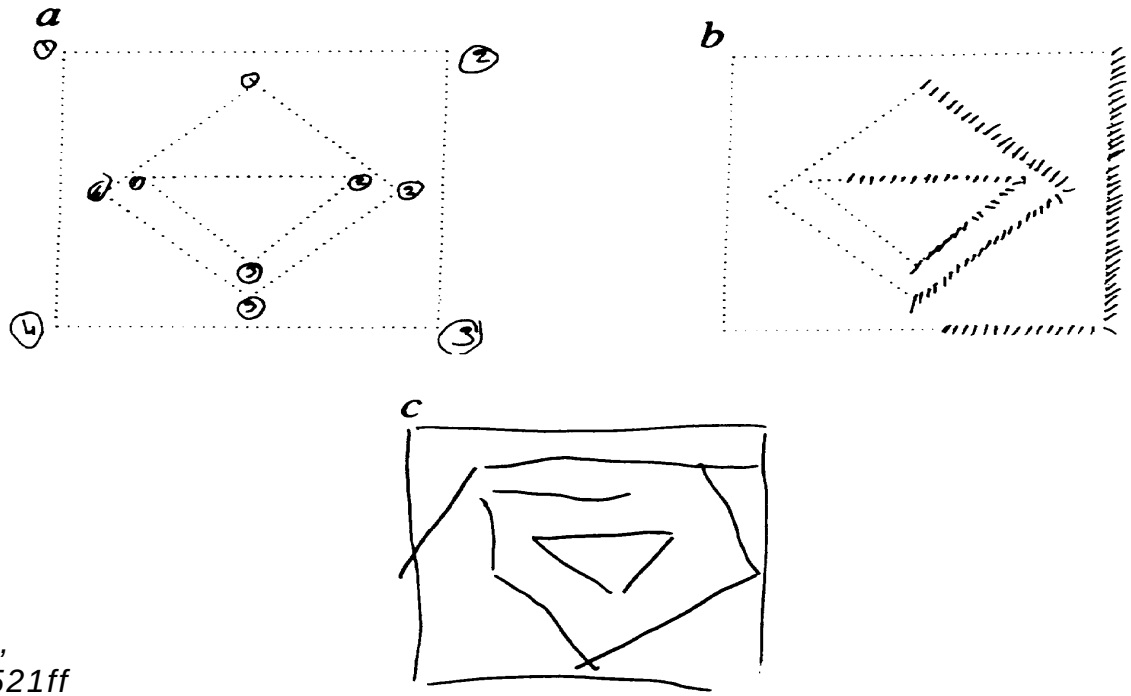


Figure 6 Eye movement tracings (below) from a patient with left unilateral neglect, during visual exploration of a line drawing (above). (From Karnath, 1994a.)

Eye movements from a patient with left unilateral neglect, during visual exploration

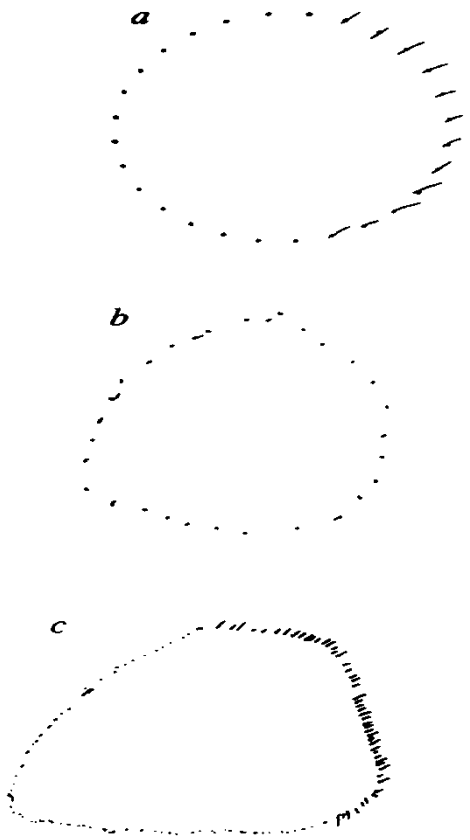
Unilateral Neglect: Patient J.R.



From Nature,
373, 1995, 521ff

However, patient <u>can</u> adequately describe the figure shown in (a) and mark its corners; patient then <u>cannot</u> cancel all the dots (b); patient <u>can</u> reconstruct figure from memory (c).

Unilateral Neglect: Patient J.R.



From Nature,
373, 1995, 521ff

Patient <u>cannot</u> cancel all dots in (a), but <u>can</u> reproduce a circle of dots (driven by an internal global representation) (b). After drawing the circle, again dots <u>cannot</u> be canceled on the left (c).

Are there collinear items (n>3)?