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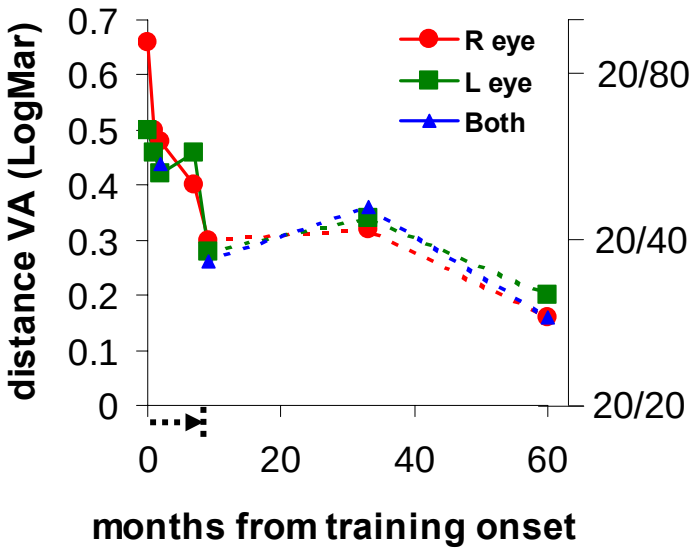
Figure 1

A

D S R K N
C K Z O H
O N R K D
K Z V D C
V S H Z O
H D K C R
C S R H N
S V Z O K

B


distance VA (LogMar)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
R eye
L eye
Both
20/80
20/40
20/20
0
20
40
60
months from training onset

C

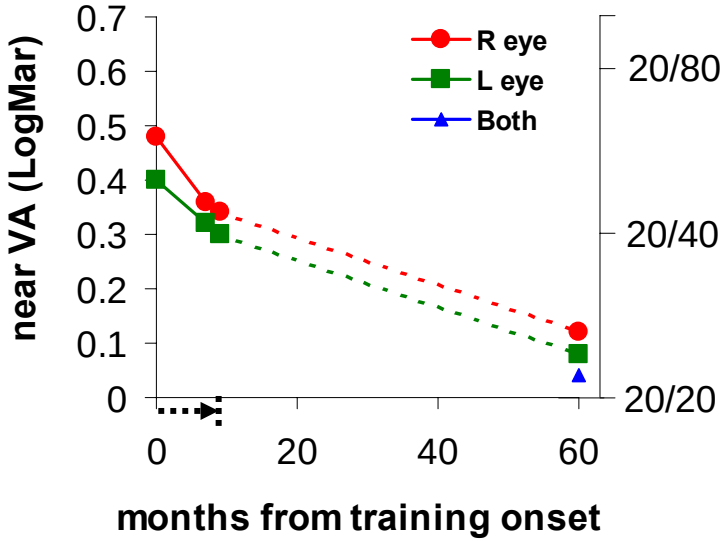

near VA (LogMar)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
R eye
L eye
Both
20/80
20/40
20/20
0
20
40
60
months from training onset

Figure 2

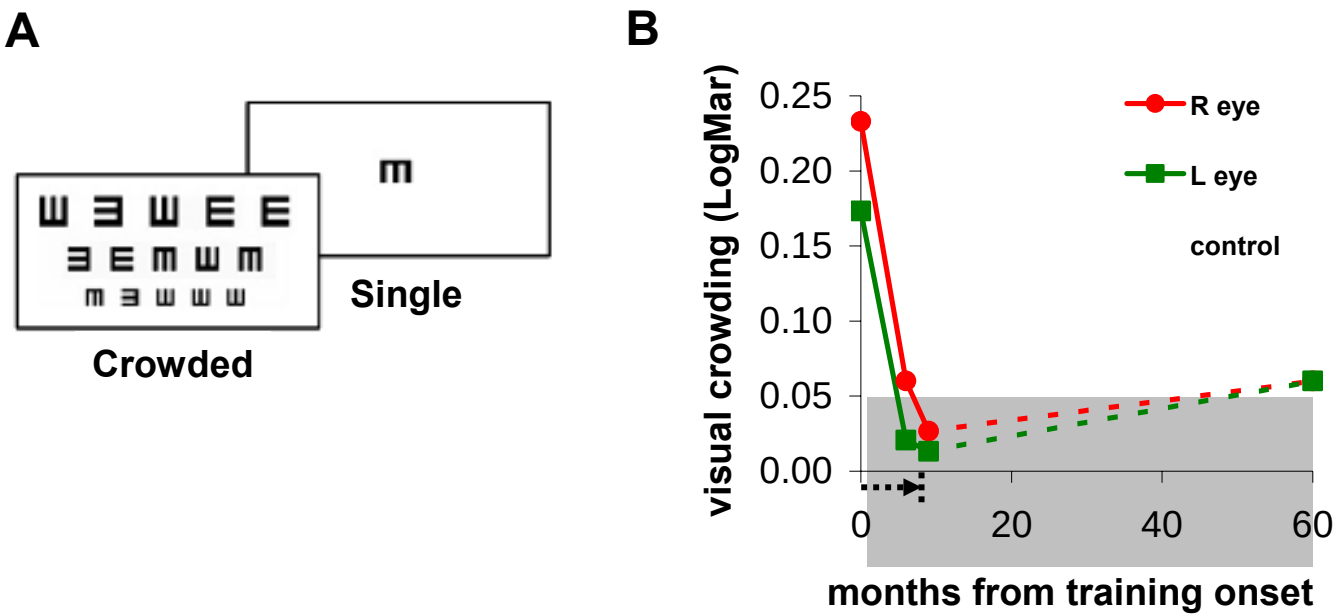

A
m
Single
Crowded
B
visual crowding (LogMar)
0.25
0.20
0.15
0.10
0.05
0.00
0
20
40
60
months from training onset
R eye
L eye
control

Figure 3

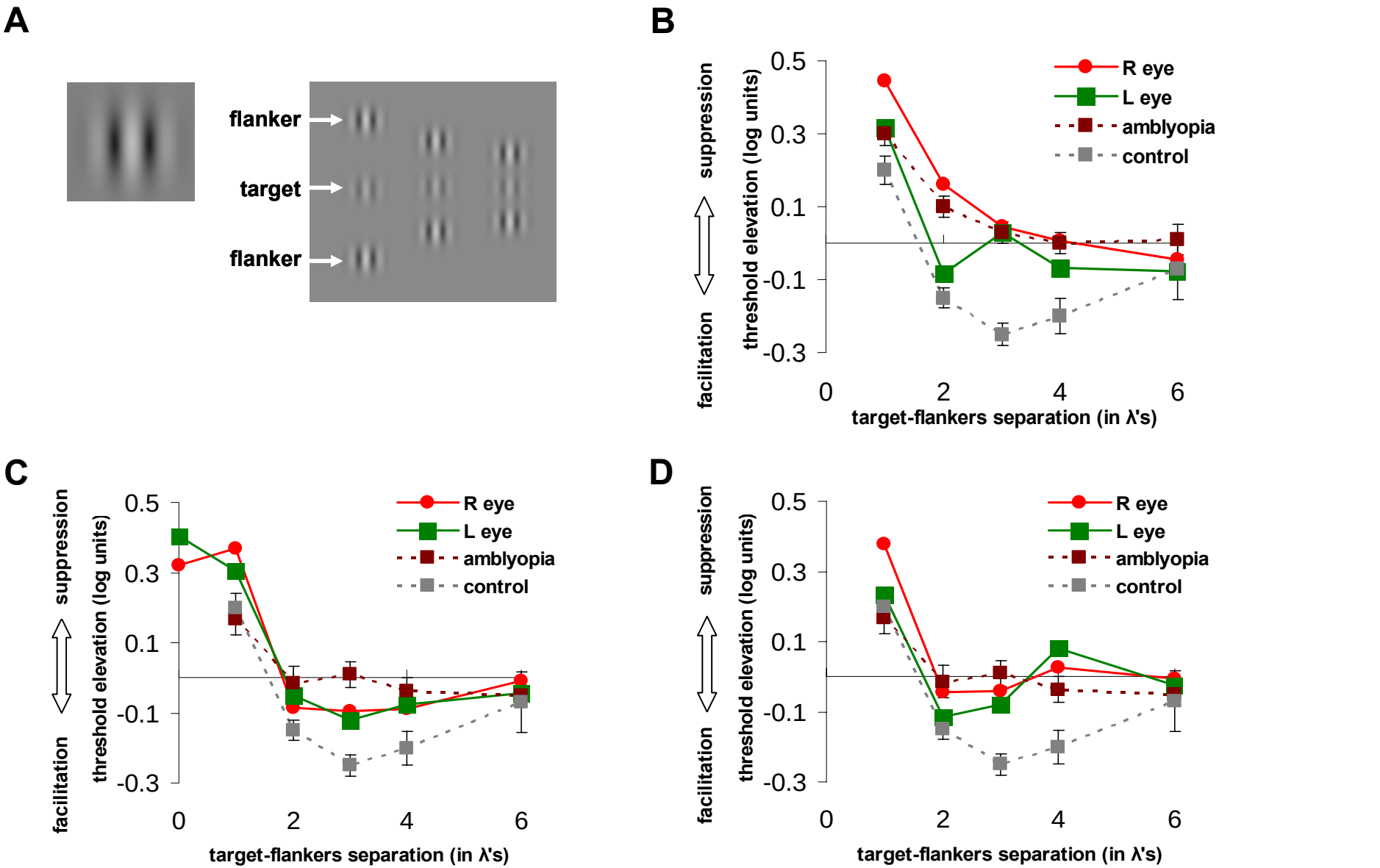
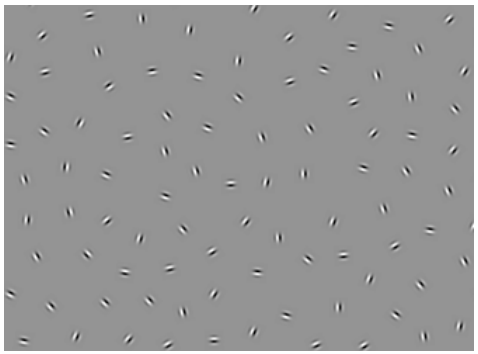

A
flanker
target
flanker
B
suppression
facilitation
threshold elevation (log units)
0.5
0.3
0.1
-0.1
-0.3
0
2
4
6
target-flankers separation (in λ's)
R eye
L eye
amblyopia
control
C
suppression
facilitation
threshold elevation (log units)
0.5
0.3
0.1
-0.1
-0.3
0
2
4
6
target-flankers separation (in λ's)
R eye
L eye
amblyopia
control
D
suppression
facilitation
threshold elevation (log units)
0.5
0.3
0.1
-0.1
-0.3
0
2
4
6
target-flankers separation (in λ's)
R eye
L eye
amblyopia
control

Figure 4

A



B

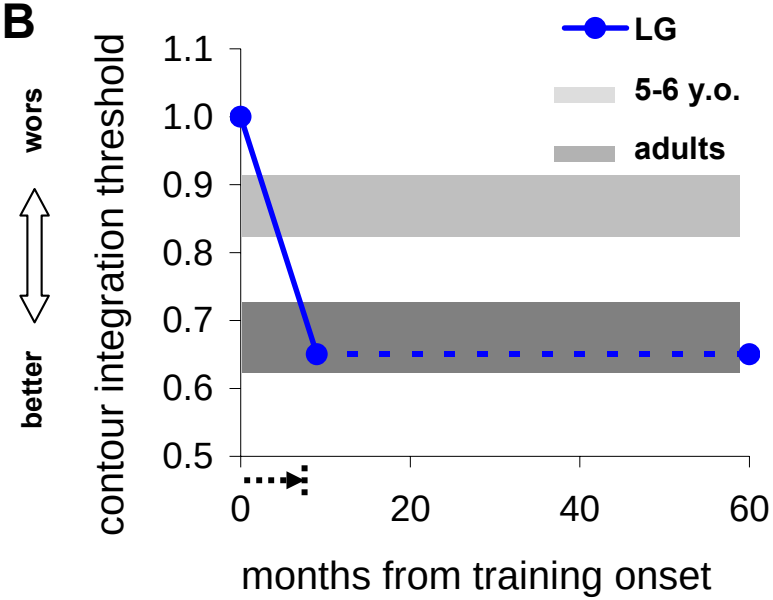
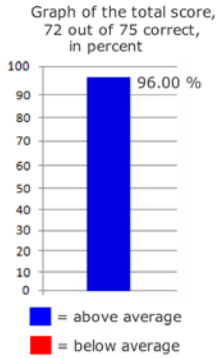

worse
better
contour integration threshold
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0
20
40
60
months from training onset
LG
5-6 y.o.
adults

Figure 5


Graph of the total score,
72 out of 75 correct,
in percent
100
90
80
70
60
50
40
30
20
10
0
96.00 %
= above average
= below average

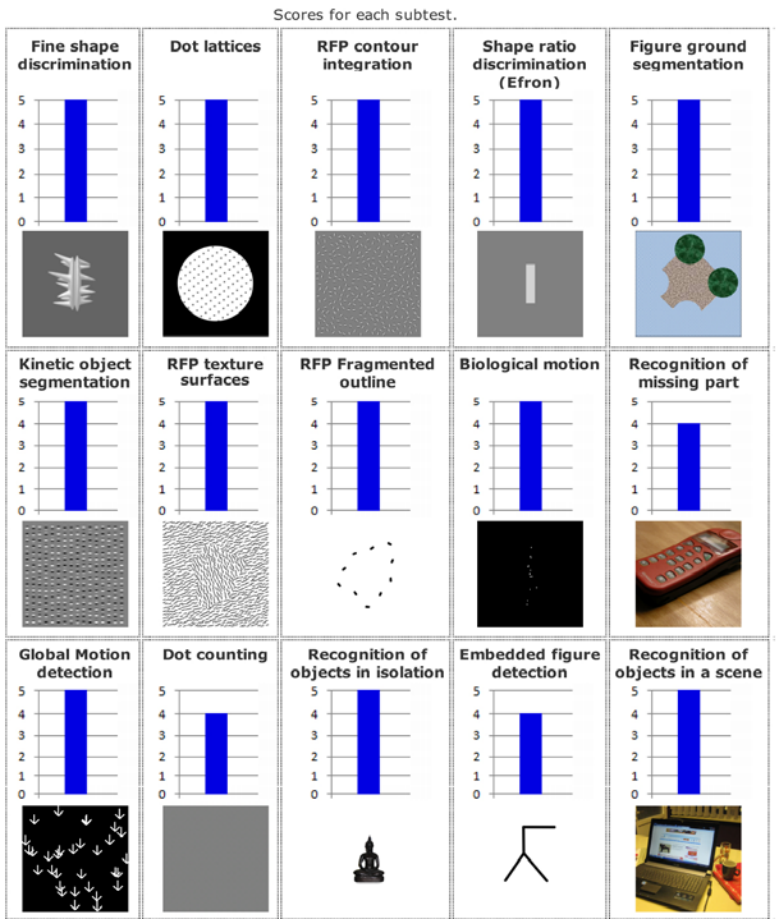
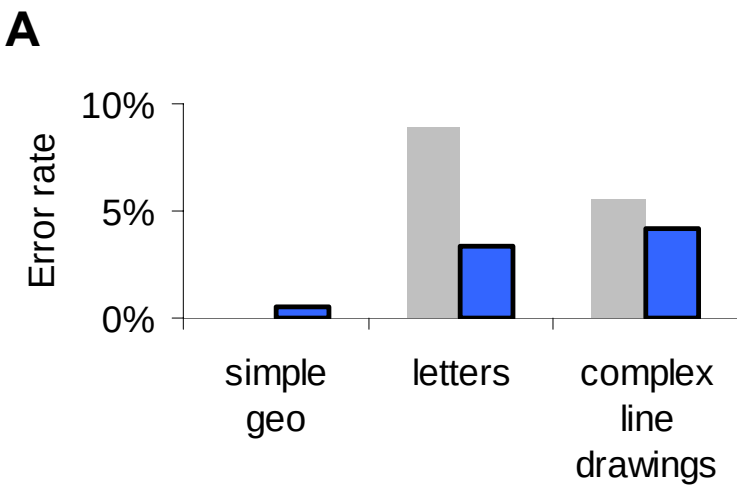
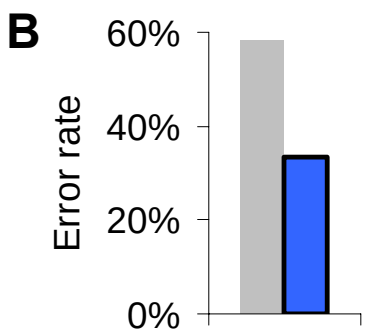
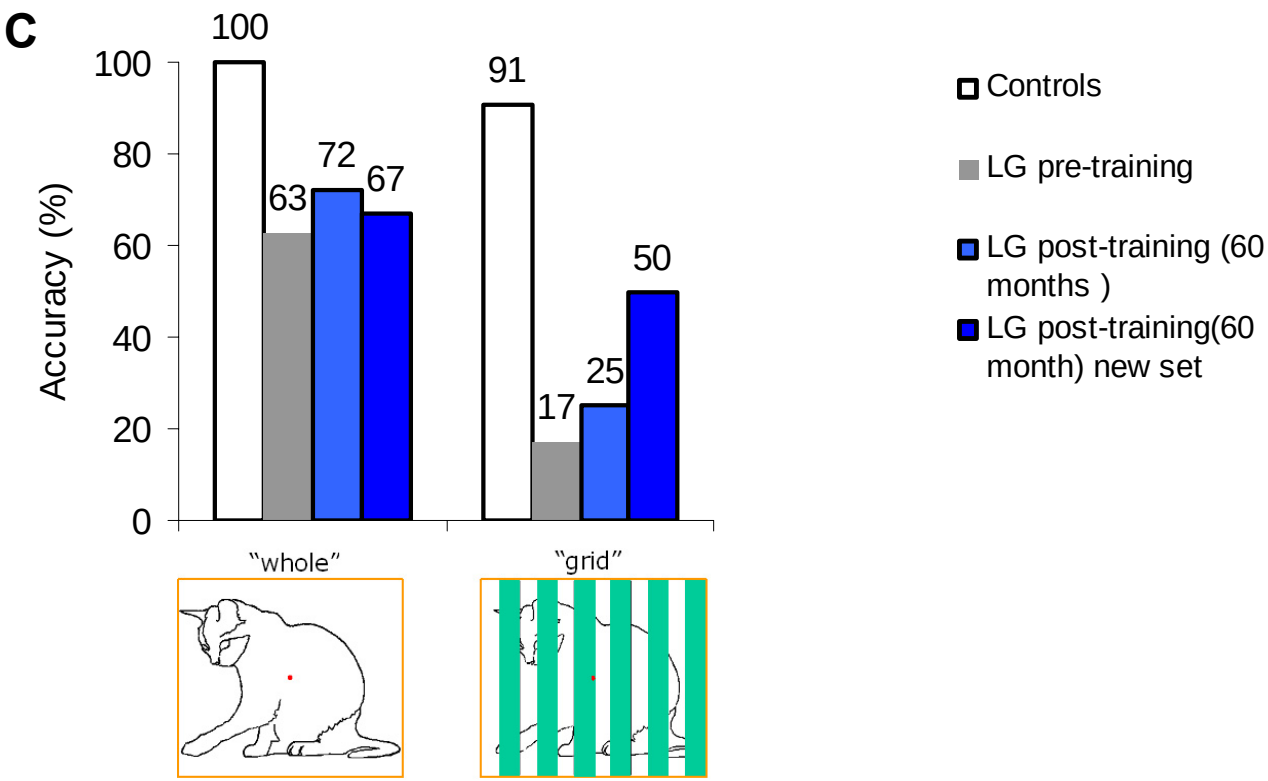

Scores for each subtest.
Fine shape discrimination
Dot lattices
RFP contour integration
Shape ratio discrimination (Efron)
Figure ground segmentation
Kinetic object segmentation
RFP texture surfaces
RFP Fragmented outline
Biological motion
Recognition of missing part
Global Motion detection
Dot counting
Recognition of objects in isolation
Embedded figure detection
Recognition of objects in a scene

Figure 6


A
Error rate
10%
5%
0%
simple geo
letters
complex line drawings


B
Error rate
60%
40%
20%
0%


C
Accuracy (%)
100
80
60
40
20
0
100
63
72
67
91
17
25
50
"whole"
"grid"
Controls
LG pre-training
LG post-training (60 months)
LG post-training(60 month) new set