**Cells per column: 30**

Result Log for reaching saturated accuracy at 81.08108108108108

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 71 cycles

Elapsed time: 9 min.

reaching stable after enter newborn cycle 232.

**Cells per column: 40**

Result Log for reaching saturated accuracy at 87.83783783783784

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 117 cycles

Elapsed time: 17 min.

reaching stable after enter newborn cycle 306.

**Cells per column: 50**

Result Log for reaching saturated accuracy at 82.43243243243244

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 69 cycles

Elapsed time: 9 min.

reaching stable after enter newborn cycle 303.

**Cells per column: 60**

Result Log for reaching saturated accuracy at 82.43243243243244

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 150 cycles

Elapsed time: 19 min.

reaching stable after enter newborn cycle 306.

**Cells per column: 70**

Result Log for reaching saturated accuracy at 90.54054054054053

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 164 cycles

Elapsed time: 24 min.

reaching stable after enter newborn cycle 232.

**Cells per column: 80**

Result Log for reaching saturated accuracy at 90.54054054054053

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 119 cycles

Elapsed time: 17 min.

reaching stable after enter newborn cycle 232.

**Cells per column: 90**

Result Log for reaching saturated accuracy at 83.78378378378379

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 142 cycles

Elapsed time: 20 min.

reaching stable after enter newborn cycle 232.

**Cells per column: 100**

Result Log for reaching saturated accuracy at 83.78378378378379

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 208 cycles

Elapsed time: 24 min.

reaching stable after enter newborn cycle 316.

**Global Inhibition = false**

Result Log for reaching saturated accuracy at 87.83783783783784

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 184 cycles

Elapsed time: 40 min.

reaching stable after enter newborn cycle 398.

**Enable LocalAreaDensity = -1**

Result Log for reaching saturated accuracy at 85.13513513513513

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 90 cycles

Elapsed time: 14 min.

reaching stable after enter newborn cycle 270.

**Enable LocalAreaDensity = 0**

Result Log for reaching saturated accuracy at 90.54054054054053

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 150 cycles

Elapsed time: 22 min.

reaching stable after enter newborn cycle 305.

**NumActiveColumnsPerInhArea with constant = 0.01**

Result Log for reaching saturated accuracy at 94.5945945945946

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 130 cycles

Elapsed time: 16 min.

reaching stable after enter newborn cycle 251.

**NumActiveColumnsPerInhArea with constant = 0.03**

Result Log for reaching saturated accuracy at 100

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 157 cycles

Elapsed time: 25 min.

reaching stable after enter newborn cycle 227.

**NumActiveColumnsPerInhArea with constant = 0.04**

Result Log for reaching saturated accuracy at 100

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 157 cycles

Elapsed time: 25 min.

reaching stable after enter newborn cycle 227.

**Potential Radius with constant = 0.2**

Result Log for reaching saturated accuracy at 81.08108108108108

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 75 cycles

Elapsed time: 11 min.

reaching stable after enter newborn cycle 249.

**Potential Radius with constant = 0.3**

Result Log for reaching saturated accuracy at 98.64864864864865

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 198 cycles

Elapsed time: 32 min.

reaching stable after enter newborn cycle 299.

**Potential Radius with constant = 0.1**

Result Log for reaching saturated accuracy at 98.64864864864865

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 98 cycles

Elapsed time: 14 min.

reaching stable after enter newborn cycle 311.

**Inhibition Radius = 40**

Result Log for reaching saturated accuracy at 91.8918918918919

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 118 cycles

Elapsed time: 18 min.

reaching stable after enter newborn cycle 292.

**Inhibition Radius = 50**

Result Log for reaching saturated accuracy at 82.43243243243244

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 83 cycles

Elapsed time: 13 min.

reaching stable after enter newborn cycle 285.

**Inhibition Radius = 60**

Result Log for reaching saturated accuracy at 85.13513513513513

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 141 cycles

Elapsed time: 21 min.

reaching stable after enter newborn cycle 246.

**Inhibition Radius = 70**

Result Log for reaching saturated accuracy at 83.78378378378379

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 145 cycles

Elapsed time: 16 min.

reaching stable after enter newborn cycle 269.

**Inhibition Radius = 80**

Result Log for reaching saturated accuracy at 82.43243243243244

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 103 cycles

Elapsed time: 15 min.

reaching stable after enter newborn cycle 232.

**MaxBoost = 20**

Result Log for reaching saturated accuracy at 87.83783783783784

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 122 cycles

Elapsed time: 22 min.

reaching stable after enter newborn cycle 270.

**MaxBoost = 30**

Result Log for reaching saturated accuracy at 81.08108108108108

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 122 cycles

Elapsed time: 20 min.

reaching stable after enter newborn cycle 232.

**MaxBoost = 40**

Result Log for reaching saturated accuracy at 81.08108108108108

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 123 cycles

Elapsed time: 15 min.

reaching stable after enter newborn cycle 289.

**MaxBoost = 50**

Result Log for reaching saturated accuracy at 85.13513513513513

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 72 cycles

Elapsed time: 10 min.

reaching stable after enter newborn cycle 291.

**Duty Cycle Period = 50**

Result Log for reaching saturated accuracy at 86.48648648648648

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 82 cycles

Elapsed time: 10 min.

reaching stable after enter newborn cycle 264.

**Duty Cycle Period = 60**

Result Log for reaching saturated accuracy at 89.1891891891892

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 217 cycles

Elapsed time: 38 min.

reaching stable after enter newborn cycle 232.

**Duty Cycle Period = 70**

Result Log for reaching saturated accuracy at 89.1891891891892

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 122 cycles

Elapsed time: 19 min.

reaching stable after enter newborn cycle 285.

**Duty Cycle Period = 80**

Result Log for reaching saturated accuracy at 81.08108108108108

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 83 cycles

Elapsed time: 12 min.

reaching stable after enter newborn cycle 239.

**Duty Cycle Period = 90**

Result Log for reaching saturated accuracy at 95.94594594594594

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 124 cycles

Elapsed time: 19 min.

reaching stable after enter newborn cycle 232.

**Enable MinPctOverlapDutyCycles = 0.75**

Result Log for reaching saturated accuracy at 82.43243243243244

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 149 cycles

Elapsed time: 21 min.

reaching stable after enter newborn cycle 319.

**Enable MinPctOverlapDutyCycles = 1**

Result Log for reaching saturated accuracy at 81.08108108108108

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 133 cycles

Elapsed time: 20 min.

reaching stable after enter newborn cycle 232.

**Enable MinPctOverlapDutyCycles = 1.25**

Result Log for reaching saturated accuracy at 86.48648648648648

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 69 cycles

Elapsed time: 8 min.

reaching stable after enter newborn cycle 381.

**Enable MinPctOverlapDutyCycles = 1.5**

Result Log for reaching saturated accuracy at 85.13513513513513

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 102 cycles

Elapsed time: 13 min.

reaching stable after enter newborn cycle 403.

**Enable MaxSynapsesPerSegments (constant = 0.02)**

Result Log for reaching saturated accuracy at 82.43243243243244

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 70 cycles

Elapsed time: 7 min.

reaching stable after enter newborn cycle 298.

**Enable MaxSynapsesPerSegments (constant = 0.03)**

Result Log for reaching saturated accuracy at 87.83783783783784

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 102 cycles

Elapsed time: 13 min.

reaching stable after enter newborn cycle 260.

**Enable MaxSynapsesPerSegments (constant = 0.04)**

Result Log for reaching saturated accuracy at 83.78378378378379

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 181 cycles

Elapsed time: 28 min.

reaching stable after enter newborn cycle 232.

**Enable MaxSynapsesPerSegments (constant = 0.05)**

Result Log for reaching saturated accuracy at 81.08108108108108

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 87 cycles

Elapsed time: 12 min.

reaching stable after enter newborn cycle 281.

**Enable MaxSynapsesPerSegments (constant = 0.1)**

Result Log for reaching saturated accuracy at 82.43243243243244

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 119 cycles

Elapsed time: 18 min.

reaching stable after enter newborn cycle 286.

**Connected Permanence = 0.75**

Result Log for reaching saturated accuracy at 89.1891891891892

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 216 cycles

Elapsed time: 36 min.

reaching stable after enter newborn cycle 335.

**Connected Permanence = 1**

Result Log for reaching saturated accuracy at 83.78378378378379

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 175 cycles

Elapsed time: 27 min.

reaching stable after enter newborn cycle 231.

**Enable PermanenceDecrement = 0.15**

Result Log for reaching saturated accuracy at 83.78378378378379

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 76 cycles

Elapsed time: 11 min.

reaching stable after enter newborn cycle 260.

**Enable PermanenceIncrement = 0.15**

Result Log for reaching saturated accuracy at 81.08108108108108

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 97 cycles

Elapsed time: 14 min.

reaching stable after enter newborn cycle 300.

**Enable both PermanenceDecrement = 0.15 and PermanenceIncrement = 0.15**

Result Log for reaching saturated accuracy at 95.94594594594594

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 115 cycles

Elapsed time: 17 min.

reaching stable after enter newborn cycle 232.

**Enable both PermanenceDecrement = 0.2 and PermanenceIncrement = 0.2**

Result Log for reaching saturated accuracy at 97.2972972972973

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 181 cycles

Elapsed time: 31 min.

reaching stable after enter newborn cycle 300.

**Enable both PermanenceDecrement = 0.25 and PermanenceIncrement = 0.25**

Result Log for reaching saturated accuracy at 94.5945945945946

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 90 cycles

Elapsed time: 12 min.

reaching stable after enter newborn cycle 242.

**Enable both PermanenceDecrement = 0.3 and PermanenceIncrement = 0.3**

Result Log for reaching saturated accuracy at 94.5945945945946

Label: Video 1

Video Name: final\_61eeb9d16659f6012be9ea81\_421400

Stop after 94 cycles

Elapsed time: 13 min.

reaching stable after enter newborn cycle 336.