Tell me who you are and I will tell you your lock pattern
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Humans are...
...predictable!
How Many Combinations does the Android Lock Pattern Have?
<table>
<thead>
<tr>
<th>Length</th>
<th>#Combinations</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>1624</td>
</tr>
<tr>
<td>5</td>
<td>7152</td>
</tr>
<tr>
<td>6</td>
<td>26,016</td>
</tr>
<tr>
<td>7</td>
<td>72,912</td>
</tr>
<tr>
<td>8</td>
<td>140,704</td>
</tr>
<tr>
<td>9</td>
<td>140,704</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>389,112</strong></td>
</tr>
</tbody>
</table>
The Survey
Create a pattern for your smartphone

Pattern recorded

Retry  Continue
Visual Complexity
Complexity: [6.3, 46.8]
All patterns: 13.6
Smartphones: 12.8

Highest score: 44.4
Max score: 46.8
Associations

Elements
Start node
Handedness
Right-handed

(1) 43.5%  9.1%  15.5%
     6.5%  3.9%  1.6%
     13.6% 2.6%  3.7%

(2) 45.6%  7.8%  13.3%
     6.0%  2.9%  2.1%
     15.9% 2.9%  3.5%
Left-handed

(1) 53.8%  8.7%  8.7%  8.7%  52.3%  4.7%  7.5%  8.4%  4.7%  1.9%
(2) 12.5%  0.9%  3.9%  13.1%  3.7%  3.7%  3.7%
3-gram Sequences
Average Pattern Length
Questions?
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