Prediction options

p0 – no prediction

Program computes iterations for each pixel. The output is absolutely accurate, but it is slow.

Animation time: **1**min **7**secs

Figure 1: p0 - no prediction

p1 – simple prediction

Default option

Program loads 3 pixels in row, computes first and third. If the number of iterations is the same, it predicts that the second pixel will be the same as first and third one. Output is very accurate.

In some cases, this can be slower than **p0**.
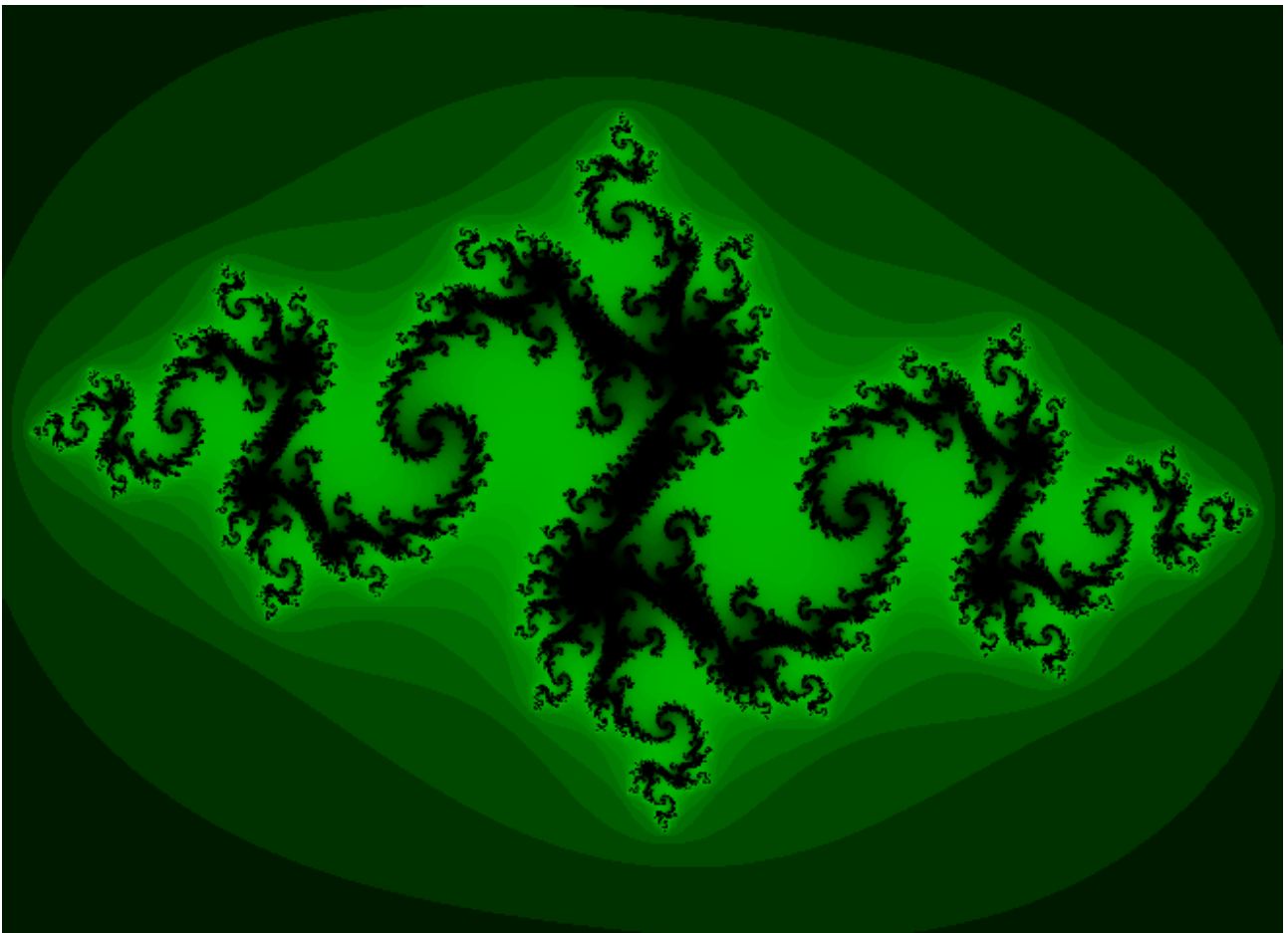
Animation time: **49**secs

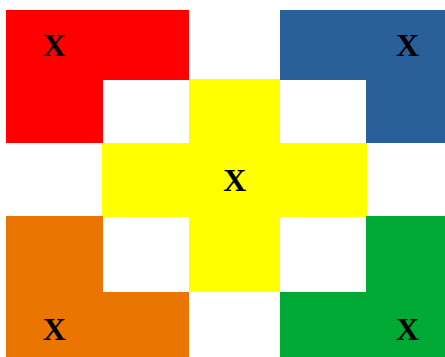*Figure 2: p1 - simple prediction*

p2 – fast prediction

Always computes only 20% of pixels. Loads 25 pixels (5x5), computes 5 of them and predicts the rest.

Output is not so accurate.

Animation time: **21**secs

Figure 3: p2 - fast prediction

p3 – very-fast prediction

Always computes only 8% of pixels. Loads 100 pixels (10x10), computes 8 of them and predicts the rest.
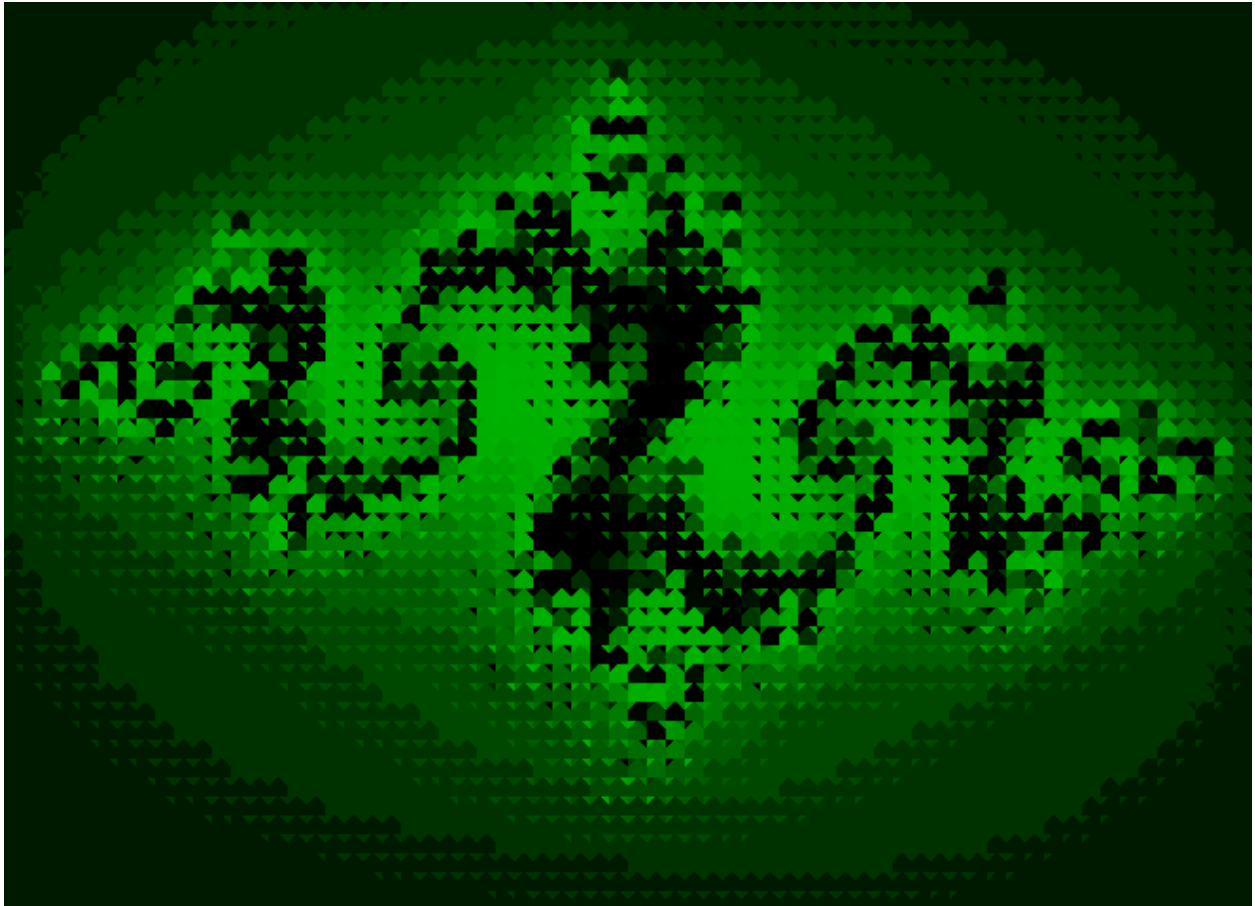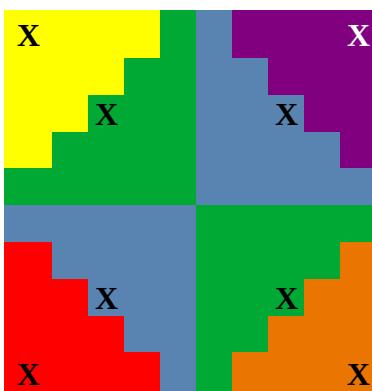
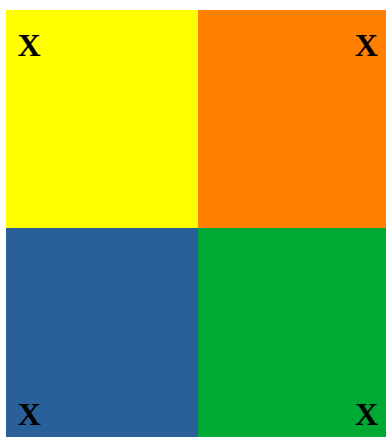Animation time: **11**secs

Figure 4: p3 - very-fast prediction

p4 – super-fast prediction

Always computes only 4% of pixels. Loads 100 pixels (10x10), computes 4 of them and predicts the rest.

Animation time: **9**secs

Figure 5: p4 - super-fast prediction

p5 – ultra-fast prediction

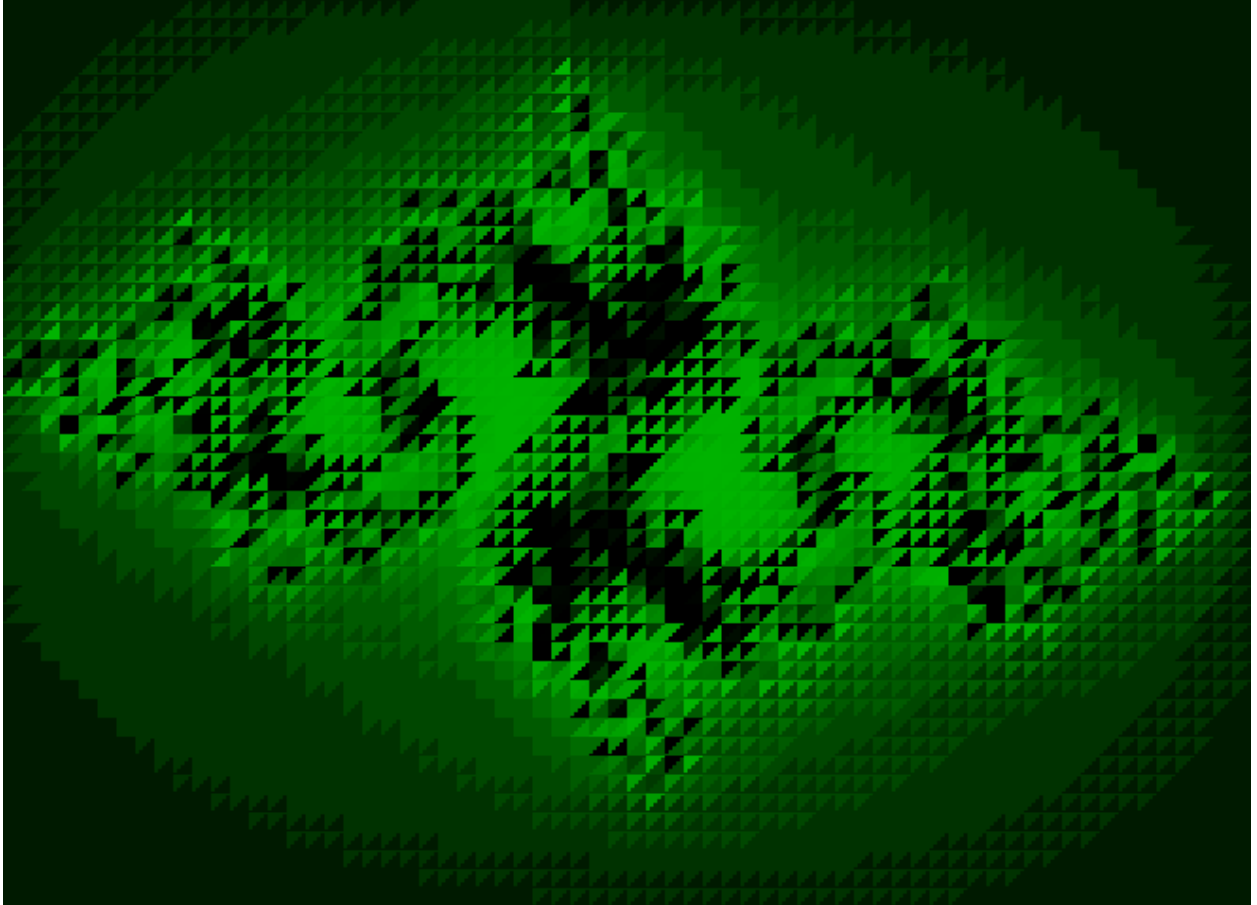Always computes only 2% of pixels. Loads 100 pixels (10x10), computes 2 of them and predicts the rest.

Animation time: **8**secs

Figure 6: p5 - ultra-fast prediction