```
dir = SetDirectory[NotebookDirectory[]]
netECA18 = Import["netECA18-r200.wlnet"]
```

In[4710]:=
```
numCA[r_, k_] := k^(1 + (k - 1) (2 r + 1))
randomCA[r_, k_] := RandomInteger[{0, numCA[r, k] - 1}]
runCA[p_Integer, r_, k_, W_Integer, H_Integer] :=
 Image[ArrayPlot[CellularAutomaton[{p, {k, 1}, r}, RandomInteger[1, W], H - 1],
   ImageSize → {W, H}, ColorRules → {0 -> RandomColor[],
     1 -> RandomColor[], 3 -> RandomColor[], 4 → RandomColor[],
     5 -> RandomColor[], 6 -> RandomColor[], 7 -> RandomColor[],
     8 → RandomColor[], 9 → RandomColor[], 10 → RandomColor[],
     11 → RandomColor[], 12 → RandomColor[], 13 → RandomColor[],
     14 → RandomColor[], 15 → RandomColor[], 16 → RandomColor[],
     17 → RandomColor[], 18 → RandomColor[], 19 → RandomColor[],
     20 → RandomColor[], 21 → RandomColor[], 22 → RandomColor[],
     23 → RandomColor[], 24 → RandomColor[], 25 → RandomColor[],
     26 → RandomColor[], 27 → RandomColor[]}, Frame → False]]
```

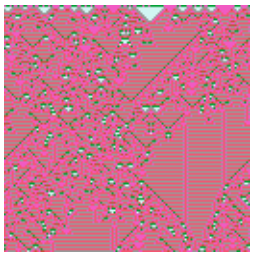
In[4852]:=
```
checkCA[image_] := netECA18[image]
labelCA[image_, rule_, r_, k_] :=
 Labeled[image, {rule, k, r}, LabelStyle → Small]
printCA[image_, rule_, r_, k_] :=
 labelCA[image, rule, r, k] → netECA18[image, {"TopProbabilities", 2}]
```

In[4914]:=
```
HuntCA[range_, colours_, iter_] :=
 For[i = 1, i < iter, i++, Module[{rule, image}, rule = randomCA[range, colours];
   image = runCA[rule, range, colours, 128, 128];
   If[checkCA[image] == 4, Print[printCA[image, rule, range, colours]]]]]
```

In[4842]:=
```
rule = randomCA[1, 6]
image = runCA[rule, 1, 6, 128, 128]
checkCA[image]
printCA[image, rule, 1, 6]
```

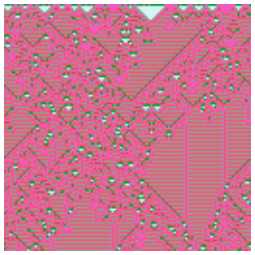
Out[4842]= 2 407 604 906 483

Out[4843]=



Out[4844]= 4

Out[4845]=

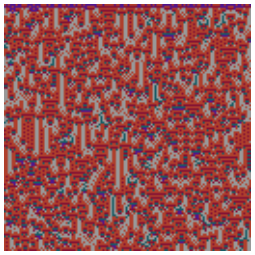


$\to \{3 \to 0.00370274, 4 \to 0.996297\}$

{2 407 604 906 483, 6, 1}

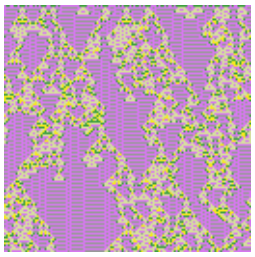
Hunting CAs!

In[4851]:=
```
HuntCA[1, 6]
```



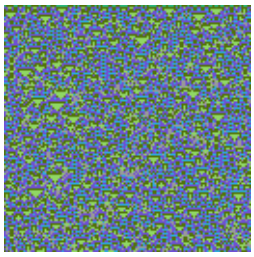
$\to \left\{3 \to 3.46807 \times 10^{-6}, 4 \to 0.999997\right\}$

{278 077 569 409, 6, 1}



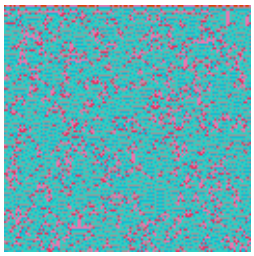
$\to \{3 \to 0.00937252, 4 \to 0.990627\}$

{50 380 961 690, 6, 1}



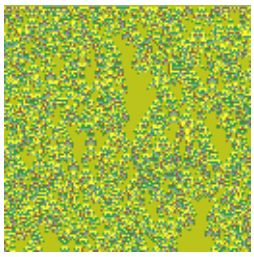
→ {3 → 0.306316, 4 → 0.693684}

{2 508 928 868 903, 6, 1}



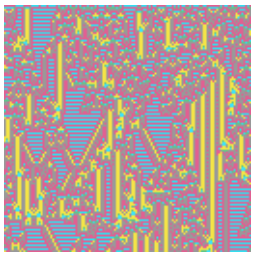
→ {3 → 0.0453, 4 → 0.9547}

{1 013 290 364 181, 6, 1}



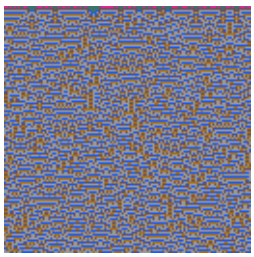
→ $\left\{3 \to 1.13456 \times 10^{-13}, 4 \to 1.\right\}$

{777 890 217 114, 6, 1}



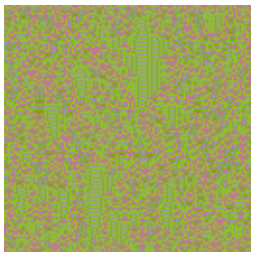
→ {3 → 0.00240222, 4 → 0.997598}

{1 631 458 651 411, 6, 1}



→ {3 → 0.0000560834, 4 → 0.999944}

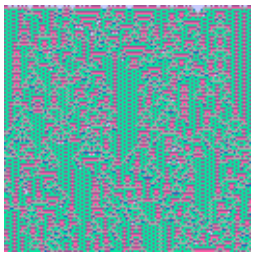
{1 131 714 823 247, 6, 1}



→ {3 → 0.00831018, 4 → 0.99169}

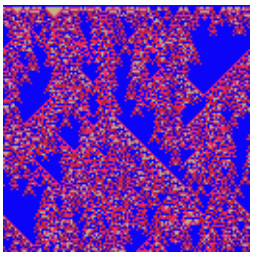
{1 781 084 984 048, 6, 1}

In[4855]:= **HuntCA[1, 7]**



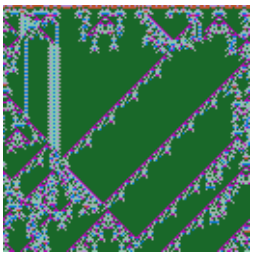
→ {3 → 0.0974469, 4 → 0.902553}

{196 093 510 707 309, 7, 1}



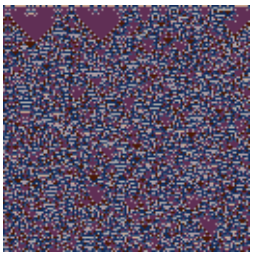
→ $\{3 \to 1.88613 \times 10^{-15}, 4 \to 1.\}$

{11 383 727 196 490 999, 7, 1}



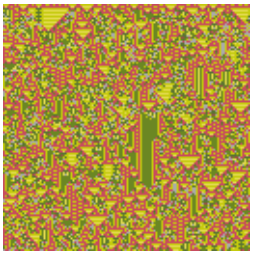
→ $\{3 \to 2.5636 \times 10^{-20}, 4 \to 1.\}$

{7 438 336 472 358 072, 7, 1}



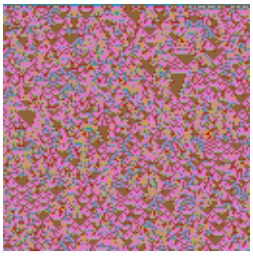
→ {3 → 0.113771, 4 → 0.886229}

{1 288 497 634 778 373, 7, 1}



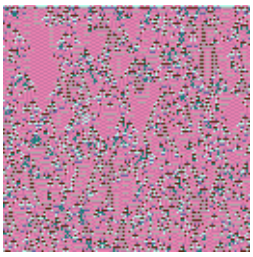
→ $\{3 \to 1.13714 \times 10^{-9}, 4 \to 1.\}$

{9 133 926 185 871 686, 7, 1}



→ {3 → 0.000625904, 4 → 0.999374}

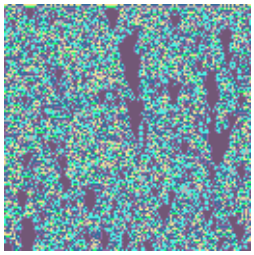
{2 491 834 055 458 713, 7, 1}



→ {3 → 0.000524598, 4 → 0.999475}

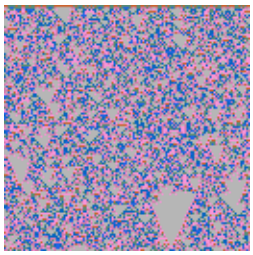
{2 190 765 682 666 143, 7, 1}

In[4875]:= **HuntCA[1, 8]**



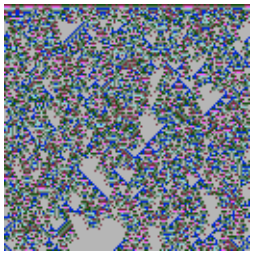
→ $\{3 \to 2.75958 \times 10^{-9}, 4 \to 1.\}$

{9 757 791 414 997 421 710, 8, 1}



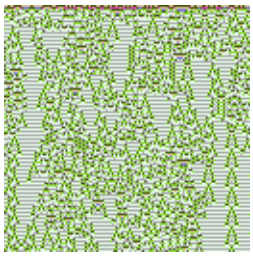
→ $\{3 \to 8.98991 \times 10^{-9}, 4 \to 1.\}$

{19 525 477 494 925 490 266, 8, 1}



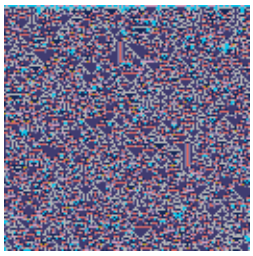
→ $\{3 \to 3.54755 \times 10^{-16}, 4 \to 1.\}$

{36 268 119 959 217 450 303, 8, 1}



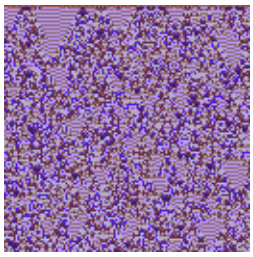
→ $\{3 \to 1.961 \times 10^{-8}, 4 \to 1.\}$

{63 887 547 974 362 480 971, 8, 1}



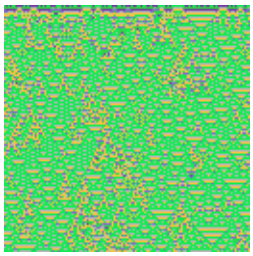
→ {3 → 0.0204595, 4 → 0.979541}

{70 515 519 422 128 400 404, 8, 1}



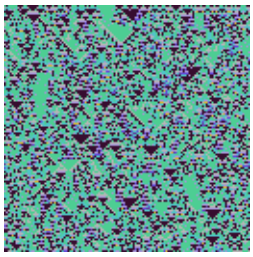
→ {3 → 0.000397198, 4 → 0.999603}

{24 058 366 061 067 884 083, 8, 1}



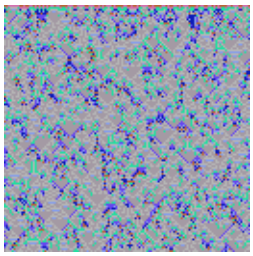
→ {3 → 0.362144, 4 → 0.637856}

{59 523 336 538 946 311 602, 8, 1}



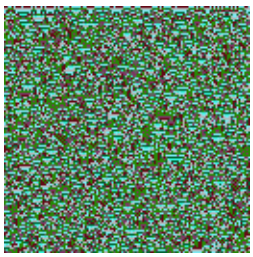
→ {3 → 0.363877, 4 → 0.636123}

{15 301 970 314 647 274 160, 8, 1}



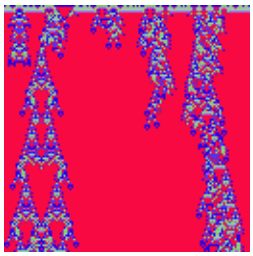
→ {3 → 0.0186145, 4 → 0.981385}

{66 411 847 739 168 197 162, 8, 1}



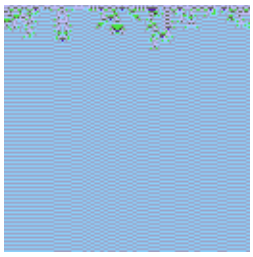
→ {3 → 0.000277233, 4 → 0.999723}

{69 229 500 165 829 944 494, 8, 1}



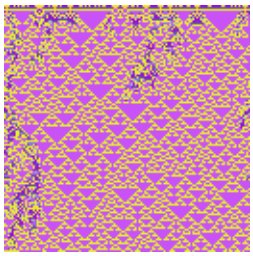
→ $\left\{3 \to 6.59761 \times 10^{-21}, 4 \to 1.\right\}$

{63 654 337 585 952 357 525, 8, 1}



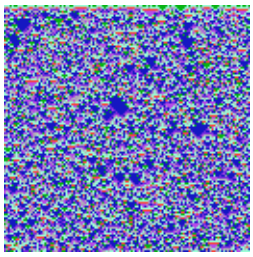
→ {2 → 0.0107361, 4 → 0.989263}

{69 272 616 330 346 731 057, 8, 1}



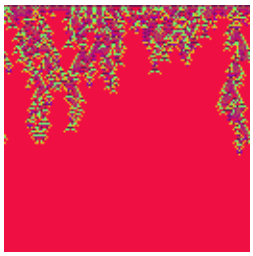
→ $\{3 \to 5.35958 \times 10^{-10}, 4 \to 1.\}$

{63 384 153 133 414 106 916, 8, 1}



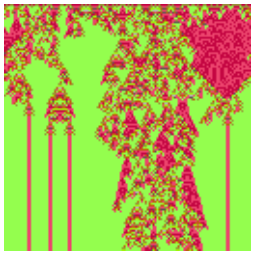
→ {3 → 0.283413, 4 → 0.716587}

{38 882 218 027 641 463 343, 8, 1}



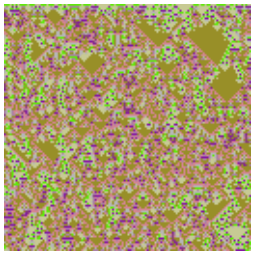
→ $\{3 \to 9.37134 \times 10^{-15}, 4 \to 1.\}$

{73 746 461 437 301 618 895, 8, 1}



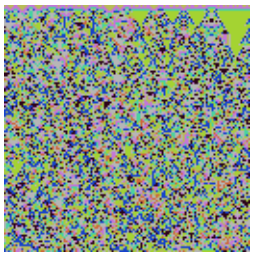
→ $\{3 \to 3.27195 \times 10^{-18}, 4 \to 1.\}$

{2 999 906 687 834 288 523, 8, 1}



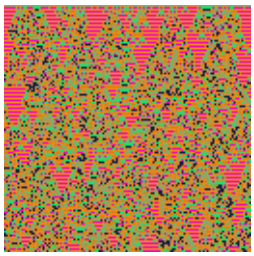
→ {3 → 0.00754642, 4 → 0.992454}

{6 586 142 795 765 945 103, 8, 1}



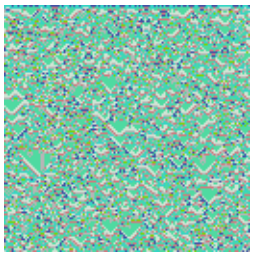
→ {3 → 0.0000143466, 4 → 0.999986}

{65 604 687 095 809 991 172, 8, 1}



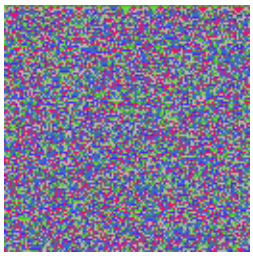
→ $\{3 \to 2.94868 \times 10^{-7}, 4 \to 1.\}$

{1 369 965 314 514 540 877, 8, 1}



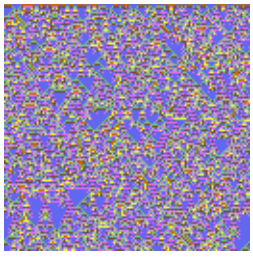
→ {3 → 0.00155919, 4 → 0.998441}

{72 397 453 170 036 337 787, 8, 1}



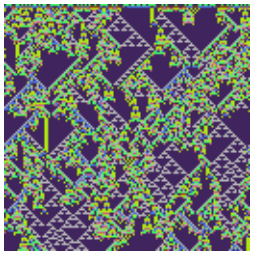
→ {3 → 0.0539426, 4 → 0.946057}

{68 177 053 609 715 092 127, 8, 1}



→ {3 → 0.0017613, 4 → 0.998239}

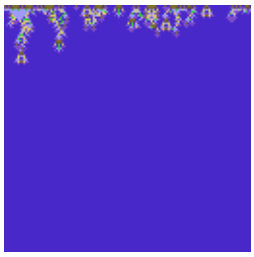
{14 720 799 459 741 168 503, 8, 1}



→ $\{2 \to 3.70609 \times 10^{-27}, 4 \to 1.\}$

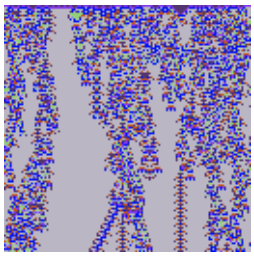
{31 822 094 881 294 732 782, 8, 1}

In[4885]:= **HuntCA[1, 9]**



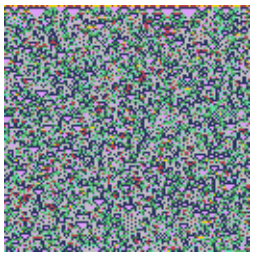
→ {2 → 0.0353505, 4 → 0.964649}

{646 035 855 311 939 168 847 420, 9, 1}



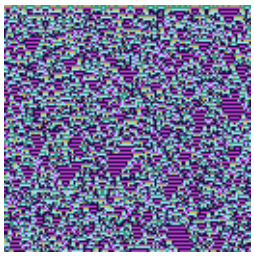
→ $\{2 \to 8.93587 \times 10^{-26}, 4 \to 1.\}$

{219 390 367 562 132 361 530 256, 9, 1}



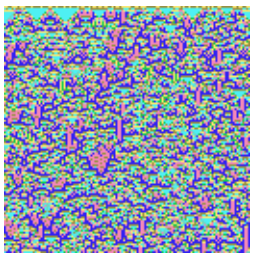
→ {3 → 0.000041897, 4 → 0.999958}

{82 558 008 626 656 451 461 088, 9, 1}



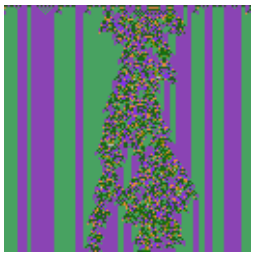
→ {3 → 0.242961, 4 → 0.757039}

{562 913 400 512 462 157 305 909, 9, 1}



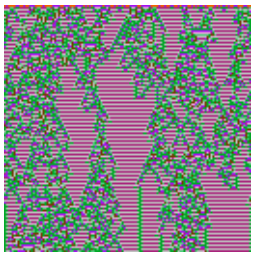
→ {3 → 0.386123, 4 → 0.613877}

{20 573 006 756 685 607 921 009, 9, 1}



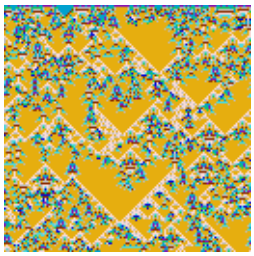
→ $\{2 \to 1.16985 \times 10^{-15}, 4 \to 1.\}$

{182 021 981 846 151 757 658 076, 9, 1}



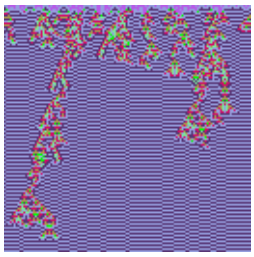
$\to \{3 \to 3.82763 \times 10^{-24}, 4 \to 1.\}$

{613 772 012 358 575 321 140 571, 9, 1}



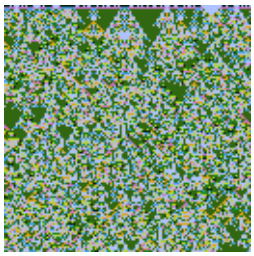
$\to \{3 \to 6.7949 \times 10^{-15}, 4 \to 1.\}$

{376 443 133 396 427 783 551 221, 9, 1}



$\to \{3 \to 6.35385 \times 10^{-7}, 4 \to 0.999999\}$

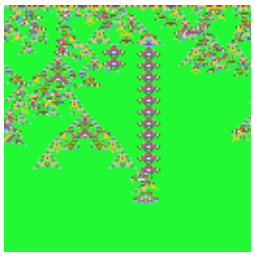
{427 485 816 180 055 719 957 283, 9, 1}



$\to \{3 \to 8.24513 \times 10^{-11}, 4 \to 1.\}$

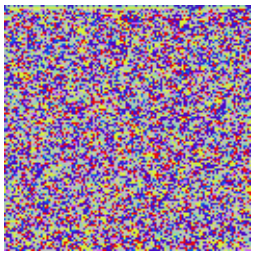
{644 318 384 930 138 158 138 265, 9, 1}

In[4900]:= **HuntCA[2, 9]**



$\to \{3 \to 2.22918 \times 10^{-15}, 4 \to 1.\}$

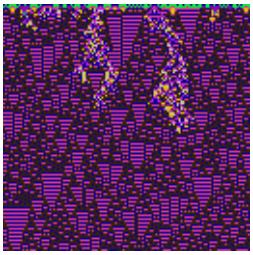
{1 208 710 226 206 842 389 681 960 584 011 973 770 116, 9, 2}



$\to \{3 \to 0.115453, 4 \to 0.884547\}$

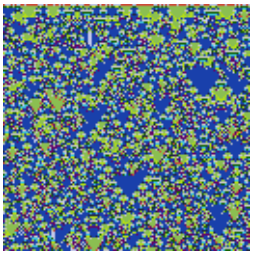
{1 247 196 082 487 162 288 538 300 865 294 248 235 555, 9, 2}

In[4915]:= **HuntCA[1, 10, 200]**



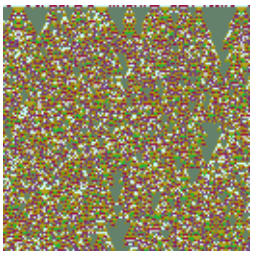
→ {3 → 0.0127476, 4 → 0.987252}

{9 683 487 873 571 432 371 431 545 905, 10, 1}



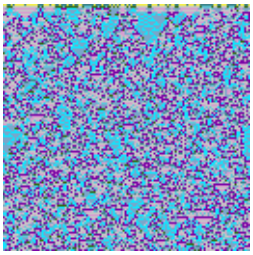
→ {3 → 0.140878, 4 → 0.859122}

{9 706 235 929 575 865 554 413 586 399, 10, 1}



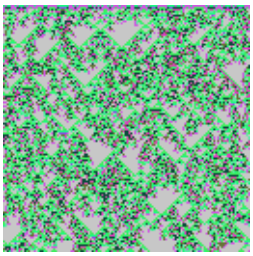
→ {3 → 0.00723331, 4 → 0.992767}

{9 805 776 006 614 595 942 196 459 662, 10, 1}



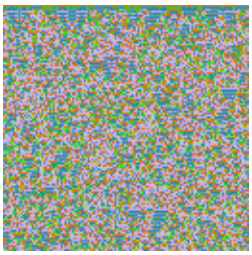
→ {3 → 0.0000497526, 4 → 0.99995}

{9 452 946 742 904 279 239 736 972 253, 10, 1}



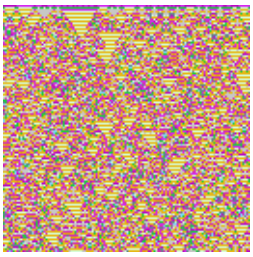
→ {3 → 0.000036334, 4 → 0.999964}

{2 506 533 465 928 065 463 212 226 157, 10, 1}



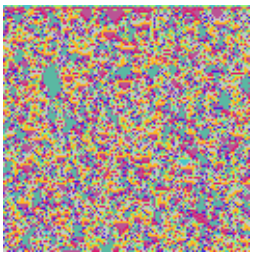
→ {3 → 0.086027, 4 → 0.913973}

{614 390 607 640 311 327 135 267 479, 10, 1}



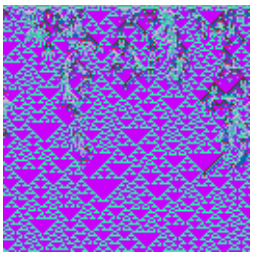
→ {3 → 0.320123, 4 → 0.679877}

{4 051 223 313 870 335 996 292 336 886, 10, 1}



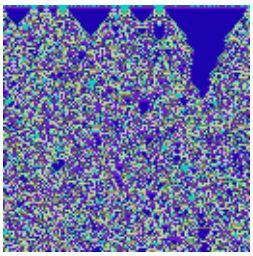
→ $\{3 \to 1.77921 \times 10^{-10}, 4 \to 1.\}$

{9 588 144 289 938 070 229 333 421 493, 10, 1}



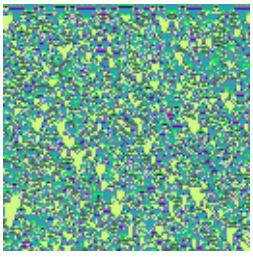
→ $\{3 \to 6.30341 \times 10^{-11}, 4 \to 1.\}$

{9 304 415 959 765 352 971 001 530 572, 10, 1}



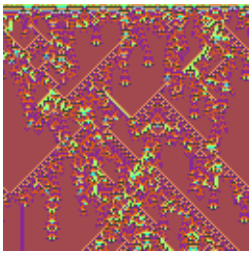
→ $\{3 \to 4.85769 \times 10^{-8}, 4 \to 1.\}$

{9 749 805 169 231 162 369 485 046 660, 10, 1}



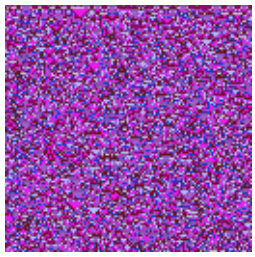
→ {3 → 0.00136545, 4 → 0.998635}

{3 611 883 566 021 161 798 755 258 774, 10, 1}



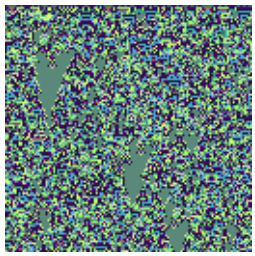
→ $\{3 \to 3.31092 \times 10^{-8}, 4 \to 1.\}$

{830 194 270 335 543 504 611 469 667, 10, 1}



→ {3 → 0.148006, 4 → 0.851994}

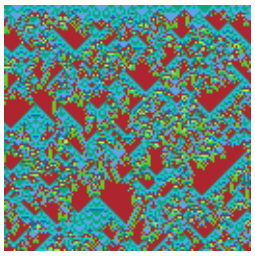
{9 763 167 790 095 071 631 137 559 230, 10, 1}



→ $\{2 \to 2.79208 \times 10^{-9}, 4 \to 1.\}$

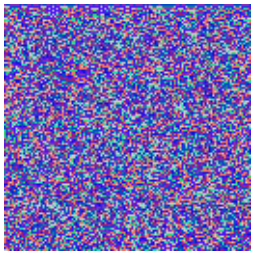
{3 106 797 987 843 203 709 993 145 089, 10, 1}

In[4928]:= **HuntCA[1, 11, 300]**



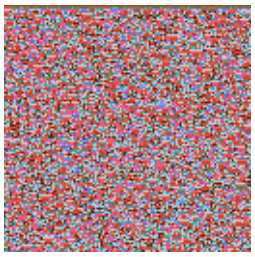
→ $\{3 \to 2.72059 \times 10^{-12}, 4 \to 1.\}$

{65 800 367 042 050 535 414 109 347 211 322, 11, 1}



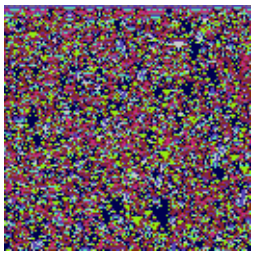
→ {3 → 0.133928, 4 → 0.866072}

{68 528 731 922 747 453 533 841 754 775 071, 11, 1}



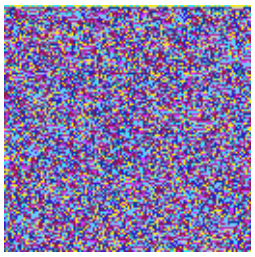
→ {3 → 0.00411751, 4 → 0.995883}

{20 739 251 596 572 178 036 299 812 555 267, 11, 1}



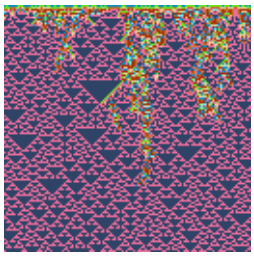
→ {3 → 0.0301967, 4 → 0.969803}

{54 101 792 822 834 216 789 683 078 778 665, 11, 1}



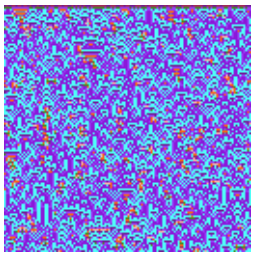
→ {3 → 0.0317671, 4 → 0.968233}

{36 967 248 178 399 506 242 678 634 552 114, 11, 1}



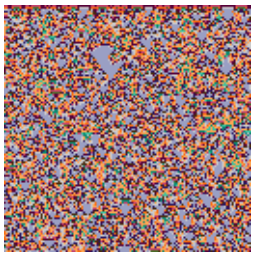
→ $\left\{3 \to 3.2148 \times 10^{-6}, 4 \to 0.999997\right\}$

{150 332 066 249 311 358 941 244 796 618 943, 11, 1}



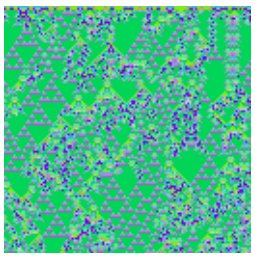
→ {3 → 0.0104868, 4 → 0.989513}

{163 672 538 083 665 381 223 907 938 948 942, 11, 1}



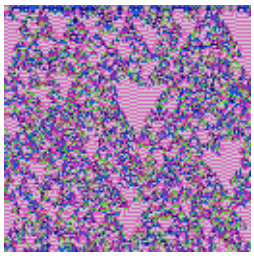
→ {3 → 0.070188, 4 → 0.929812}

{150 574 784 127 728 630 405 992 769 508 510, 11, 1}



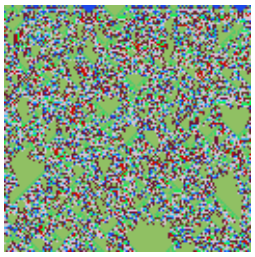
→ $\left\{2 \to 3.64619 \times 10^{-15}, 4 \to 1.\right\}$

{24 621 511 550 399 096 293 643 034 636 399, 11, 1}



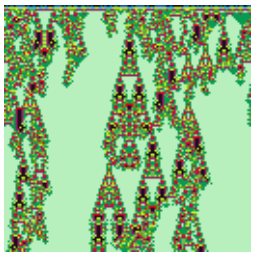
→ {3 → 0.0496504, 4 → 0.95035}

{126 668 066 445 134 680 585 898 937 708 385, 11, 1}



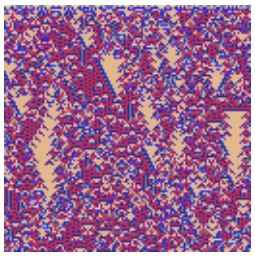
→ {3 → 0.000501042, 4 → 0.999499}

{65 557 669 494 776 798 478 704 652 307 693, 11, 1}



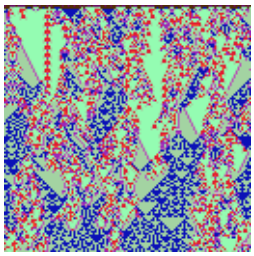
→ $\{2 \to 5.2424 \times 10^{-16}, 4 \to 1.\}$

{187 178 209 656 079 213 070 842 243 962 703, 11, 1}



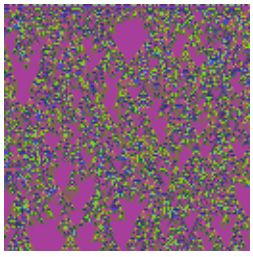
→ $\{3 \to 1.26164 \times 10^{-15}, 4 \to 1.\}$

{39 162 898 601 854 477 697 982 595 657 502, 11, 1}



→ $\{3 \to 2.32885 \times 10^{-16}, 4 \to 1.\}$

{157 572 356 374 651 968 337 212 563 963 647, 11, 1}

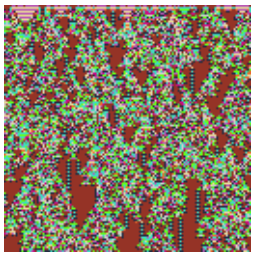


→ {3 → 0.0036935, 4 → 0.996306}

{3 013 827 945 730 792 017 026 675 260 750, 11, 1}

→ {2 → 0.0584229, 4 → 0.941577}

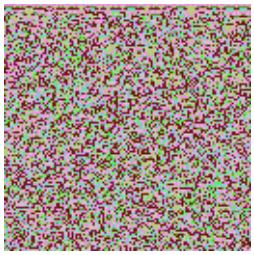
{191 925 775 043 283 599 819 953 841 783 153, 11, 1}



→ $\left\{3 \to 2.71052 \times 10^{-17},\ 4 \to 1.\right\}$

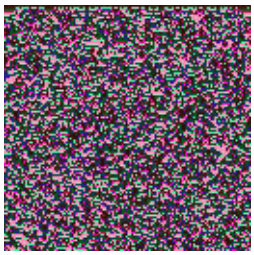
{28 626 366 406 986 548 006 910 527 395 488, 11, 1}

In[4931]:= **HuntCA[1, 11, 300]**



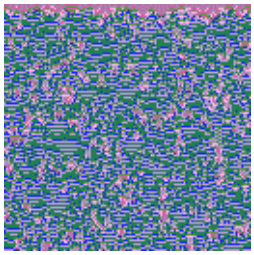
→ {3 → 0.000468536, 4 → 0.999531}

{118 706 532 918 174 541 750 284 404 552 623, 11, 1}



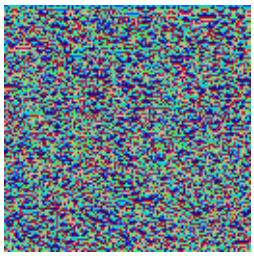
→ {3 → 0.0932717, 4 → 0.906728}

{168 980 589 178 272 903 083 205 073 738 391, 11, 1}



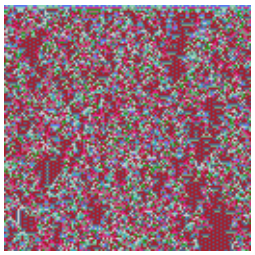
→ {3 → 0.026338, 4 → 0.973662}

{111 999 395 466 501 914 387 927 624 866 134, 11, 1}



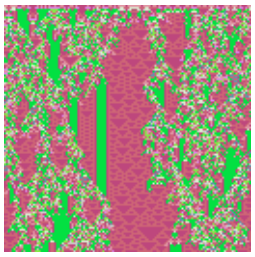
→ {3 → 0.161909, 4 → 0.838091}

{147 585 728 381 830 914 904 488 681 267 058, 11, 1}



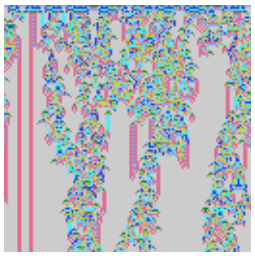
→ $\left\{3 \to 1.8353 \times 10^{-12},\ 4 \to 1.\right\}$

{71 433 747 965 034 167 558 310 305 528 953, 11, 1}



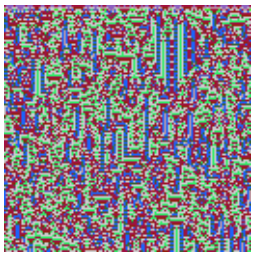
$\to \{3 \to 2.158 \times 10^{-12}, 4 \to 1.\}$

{55 350 684 073 302 362 334 158 137 943 063, 11, 1}



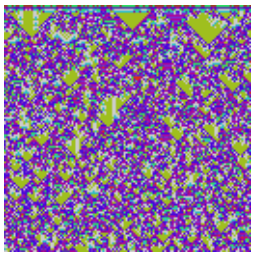
$\to \{3 \to 1.47028 \times 10^{-14}, 4 \to 1.\}$

{33 992 797 467 315 061 654 309 203 712 244, 11, 1}



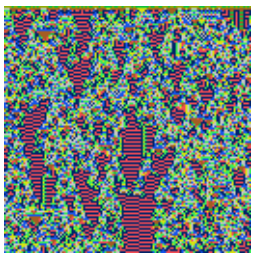
$\to \{3 \to 0.00729539, 4 \to 0.992705\}$

{32 774 152 342 335 762 152 590 663 948 465, 11, 1}



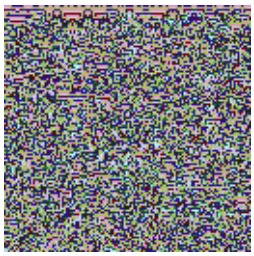
$\to \{3 \to 0.289617, 4 \to 0.710383\}$

{49 872 001 152 940 410 957 743 649 554 152, 11, 1}



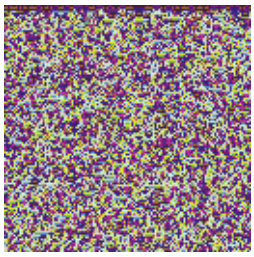
$\to \{3 \to 0.000603239, 4 \to 0.999397\}$

{126 889 434 422 838 808 084 104 923 097 236, 11, 1}



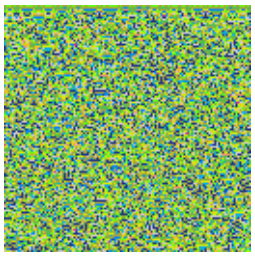
$\to \{3 \to 0.343638, 4 \to 0.656362\}$

{185 600 255 592 593 555 070 274 621 906 589, 11, 1}



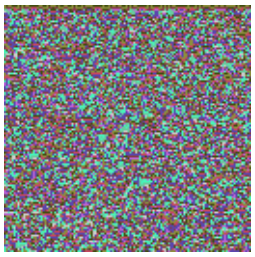
→ {3 → 0.146985, 4 → 0.853015}

{181 062 794 194 747 398 588 036 957 985 715, 11, 1}



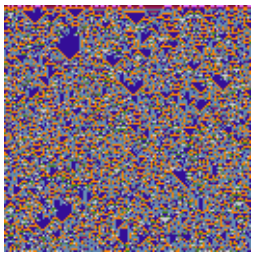
→ {3 → 0.135079, 4 → 0.864921}

{85 134 294 028 824 706 722 406 828 167 689, 11, 1}



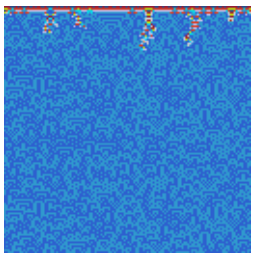
→ {3 → 0.308199, 4 → 0.691801}

{95 583 478 934 628 046 307 652 226 166 092, 11, 1}



→ {2 → 0.00171145, 4 → 0.998289}

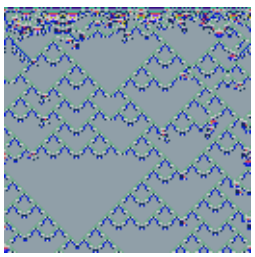
{128 132 036 954 857 432 123 488 998 208 858, 11, 1}



→ $\{2 \to 2.46326 \times 10^{-14}, 4 \to 1.\}$

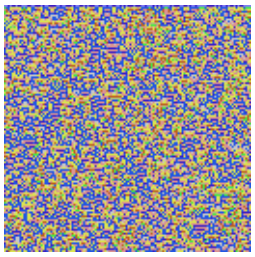
{11 295 597 960 082 551 209 985 879 162 632, 11, 1}

In[4945]:= **HuntCA[1, 11, 300]**



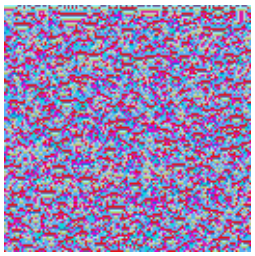
→ {3 → 0.00618735, 4 → 0.993813}

{52 528 724 558 945 725 955 550 804 832 095, 11, 1}



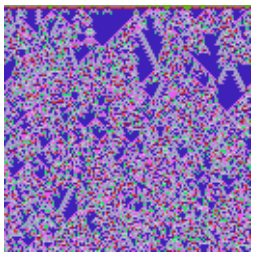
→ {3 → 0.0009776, 4 → 0.999022}

{77 234 952 829 375 980 853 181 137 153 153, 11, 1}



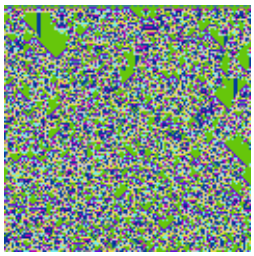
→ {3 → 0.00524057, 4 → 0.994759}

{31 773 648 351 722 315 589 288 247 014 319, 11, 1}



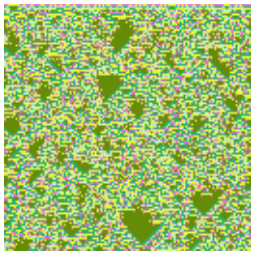
→ {3 → 0.0000968911, 4 → 0.999903}

{130 135 237 241 319 718 837 847 151 417 519, 11, 1}



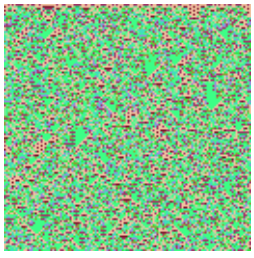
→ {3 → 0.0000898333, 4 → 0.99991}

{109 395 053 725 950 407 427 163 910 509 674, 11, 1}



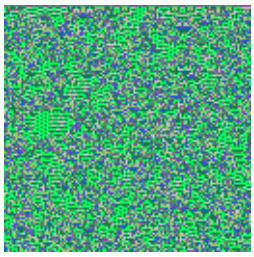
→ $\{3 \to 3.61047 \times 10^{-10}, 4 \to 1.\}$

{126 147 039 385 301 588 060 311 705 793 681, 11, 1}



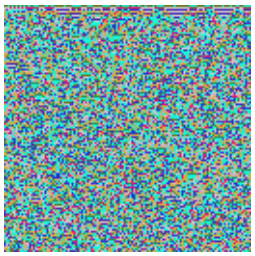
→ {3 → 0.0269376, 4 → 0.973062}

{160 475 030 466 397 374 615 097 977 369 785, 11, 1}



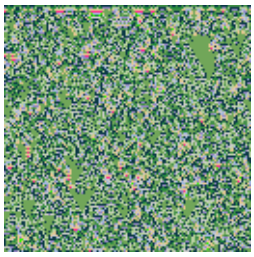
→ $\{3 \to 3.94795 \times 10^{-7}, 4 \to 1.\}$

{170 138 895 575 800 581 369 670 275 525 566, 11, 1}



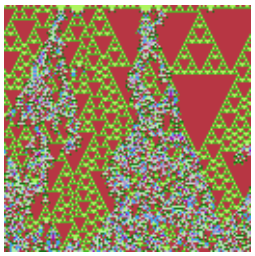
→ {3 → 0.373735, 4 → 0.626265}

{46 866 440 026 576 956 409 297 438 820 925, 11, 1}



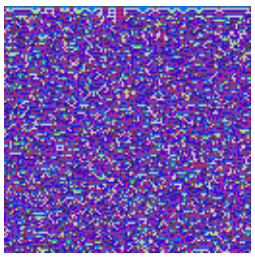
→ {3 → 0.000299027, 4 → 0.999701}

{153 428 061 130 979 680 199 597 090 384 463, 11, 1}



→ $\{3 \to 1.01951 \times 10^{-17}, 4 \to 1.\}$

{22 105 989 241 294 106 093 578 307 214 155, 11, 1}

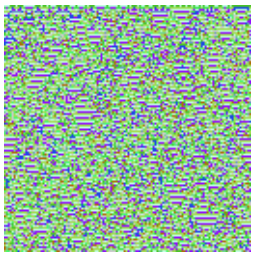


→ {3 → 0.000670092, 4 → 0.99933}

{43 379 444 213 540 412 566 942 287 865 744, 11, 1}

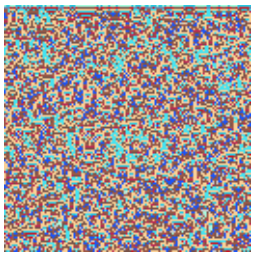
→ $\{3 \to 1.98538 \times 10^{-18}, 4 \to 1.\}$

{21 664 817 782 833 503 770 922 600 144 706, 11, 1}



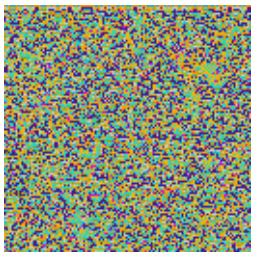
→ {3 → 0.461821, 4 → 0.538179}

{65 050 385 520 378 777 405 771 826 317 940, 11, 1}



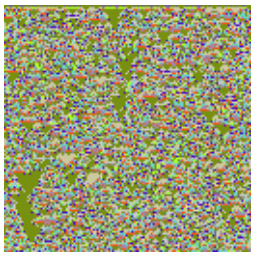
→ {3 → 0.0544552, 4 → 0.945545}

{20 213 943 660 984 829 390 623 134 731 745, 11, 1}



→ {3 → 0.123466, 4 → 0.876534}

{23 444 210 089 271 331 238 280 563 016 800, 11, 1}

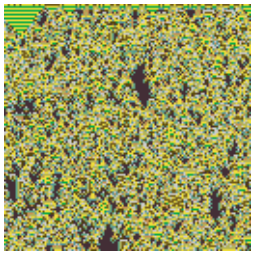


→ {3 → 0.00203197, 4 → 0.997968}

{150 012 112 225 851 173 980 264 715 577 784, 11, 1}

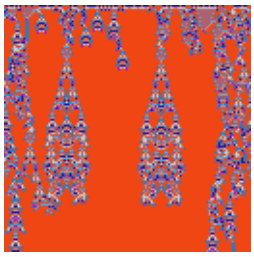
→ {3 → 0.0273746, 4 → 0.972625}

{16 649 674 573 013 576 255 252 642 172 198, 11, 1}



→ $\left\{3 \to 1.03646 \times 10^{-12}, 4 \to 1.\right\}$

{21 031 886 714 955 287 405 108 751 210 106, 11, 1}



→ $\{3 \to 1.63687 \times 10^{-21}, 4 \to 1.\}$

{190 954 694 532 760 121 939 181 851 315 543, 11, 1}

In[4973]:=
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HuntCA[1, 11, 300]
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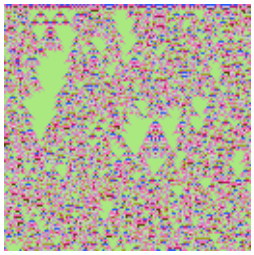
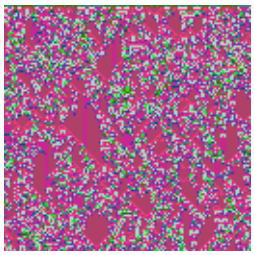


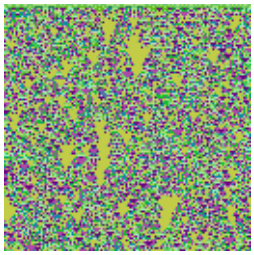
→ $\{3 \to 4.63731 \times 10^{-20}, 4 \to 1.\}$

{174 260 158 151 524 704 286 912 229 202 042, 11, 1}



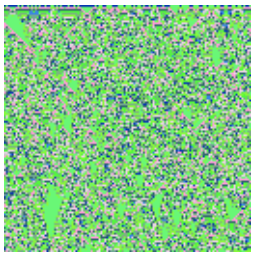
→ $\{3 \to 1.7304 \times 10^{-10}, 4 \to 1.\}$

{118 306 732 692 804 648 612 369 989 621 892, 11, 1}



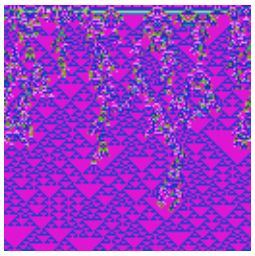
→ $\{3 \to 1.68099 \times 10^{-7}, 4 \to 1.\}$

{183 646 793 101 866 286 002 807 854 298 244, 11, 1}



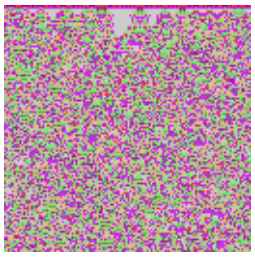
→ $\{3 \to 4.17126 \times 10^{-10}, 4 \to 1.\}$

{147 904 601 969 936 239 628 629 263 417 814, 11, 1}



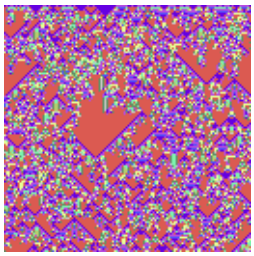
→ $\{3 \to 7.96992 \times 10^{-19}, 4 \to 1.\}$

{31 620 162 935 287 966 117 224 633 969 744, 11, 1}



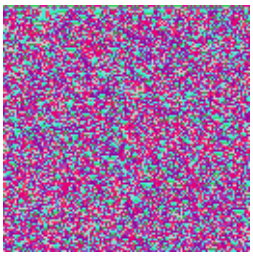
$\to \{3 \to 3.35323 \times 10^{-10}, 4 \to 1.\}$

{97 269 614 827 323 156 154 589 237 854 670, 11, 1}



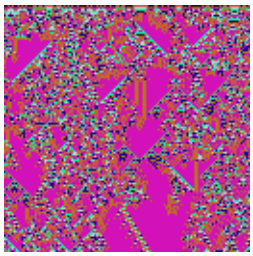
$\to \{3 \to 1.65163 \times 10^{-9}, 4 \to 1.\}$

{171 471 360 500 042 925 315 699 684 562 730, 11, 1}



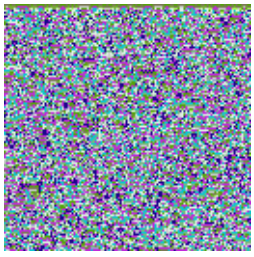
$\to \{3 \to 0.146478, 4 \to 0.853522\}$

{287 082 956 448 499 599 337 596 001 753, 11, 1}



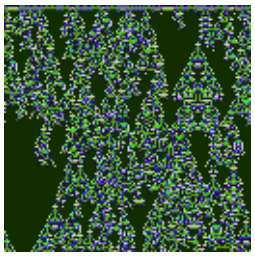
$\to \{3 \to 2.83042 \times 10^{-21}, 4 \to 1.\}$

{5 287 709 206 358 736 405 979 466 881 603, 11, 1}



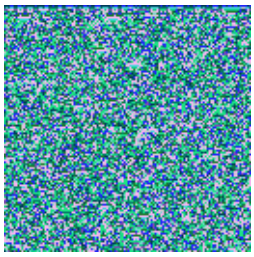
$\to \{3 \to 0.377254, 4 \to 0.622746\}$

{115 389 389 145 608 029 488 925 596 104 912, 11, 1}



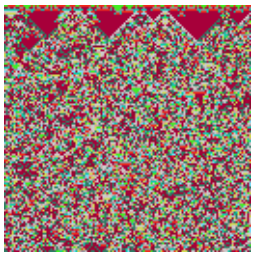
$\to \{3 \to 4.43442 \times 10^{-33}, 4 \to 1.\}$

{25 938 849 356 954 802 867 748 531 124 010, 11, 1}



→ {3 → 0.014838, 4 → 0.985162}

{135 346 706 213 149 375 563 747 622 048 111, 11, 1}

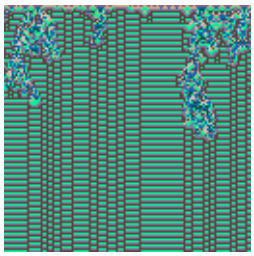


→ {3 → 0.0032602, 4 → 0.99674}

{20 359 980 046 758 683 522 536 600 532 398, 11, 1}

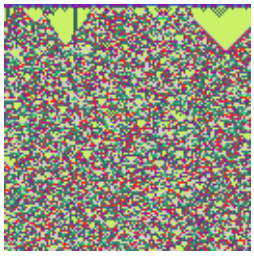
→ $\left\{3 \to 2.8422 \times 10^{-23}, 4 \to 1.\right\}$

{184 618 368 163 397 823 837 624 065 881 328, 11, 1}



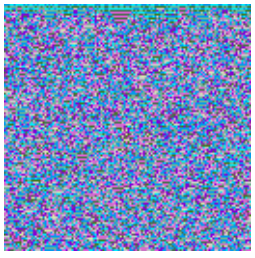
→ {3 → 0.0516801, 4 → 0.94832}

{157 043 307 757 949 028 693 326 062 609 176, 11, 1}



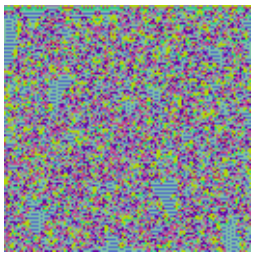
→ {3 → 0.173876, 4 → 0.826124}

{100 923 209 161 667 152 658 418 225 665 609, 11, 1}



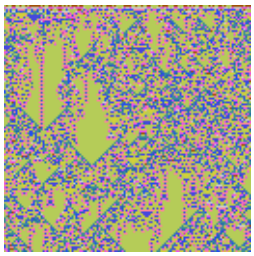
→ {3 → 0.126537, 4 → 0.873463}

{97 867 248 092 589 468 771 745 301 577 065, 11, 1}



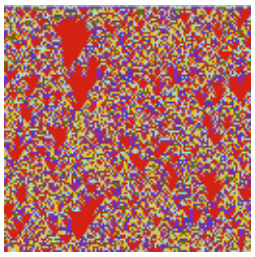
→ {3 → 0.104734, 4 → 0.895266}

{123 111 366 287 512 478 702 091 054 521 431, 11, 1}



→ $\left\{3 \to 1.35666 \times 10^{-18}, 4 \to 1.\right\}$

{112 941 306 122 554 158 950 154 498 461 505, 11, 1}



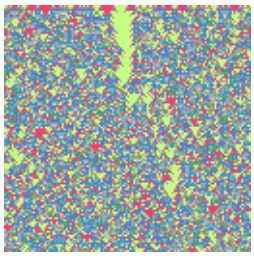
→ $\left\{3 \to 6.79948 \times 10^{-6}, 4 \to 0.999993\right\}$

{49 701 550 776 366 715 349 750 122 310 996, 11, 1}

In[4993]:= **HuntCA[1, 11, 100]**

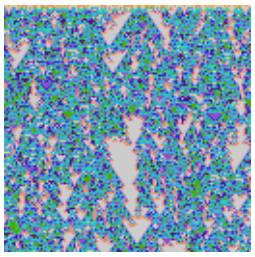
$\to \{3 \to 7.97194 \times 10^{-6}, 4 \to 0.999992\}$

{113 980 399 083 980 405 857 433 345 277 058, 11, 1}



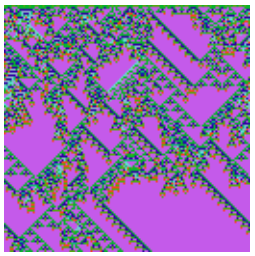
$\to \{3 \to 3.6106 \times 10^{-9}, 4 \to 1.\}$

{107 007 656 381 234 609 610 021 331 578 021, 11, 1}



$\to \{3 \to 1.64744 \times 10^{-12}, 4 \to 1.\}$

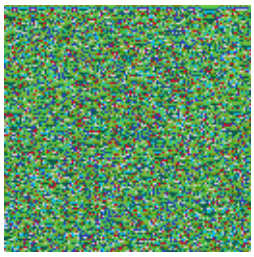
{34 301 040 357 198 299 783 914 479 385 460, 11, 1}



$\to \{3 \to 2.7021 \times 10^{-8}, 4 \to 1.\}$

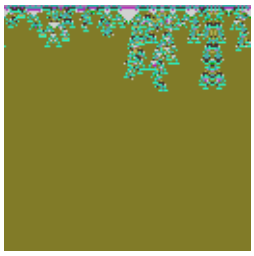
{7 557 999 425 489 548 052 887 543 675 428, 11, 1}

In[5002]:= **HuntCA[1, 12, 400]**



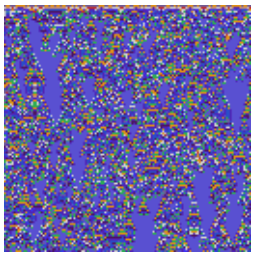
$\to \{3 \to 0.371119, 4 \to 0.628881\}$

{3 183 624 509 470 050 738 177 672 871 262 207 839, 12, 1}



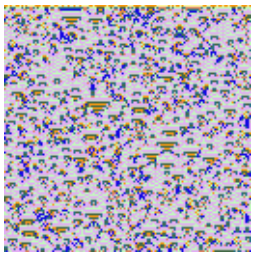
$\to \{3 \to 6.75229 \times 10^{-15}, 4 \to 1.\}$

{4 622 376 889 429 451 013 604 146 420 362 117 295, 12, 1}



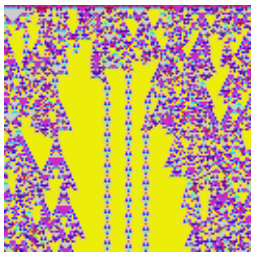
$\to \{3 \to 5.61748 \times 10^{-15}, 4 \to 1.\}$

{2 324 582 992 151 909 235 500 896 079 926 781 567, 12, 1}



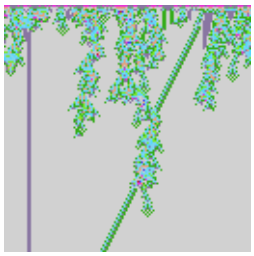
$\to \{3 \to 0.03914, 4 \to 0.96086\}$

{3 872 098 174 353 775 005 256 642 768 209 316 215, 12, 1}



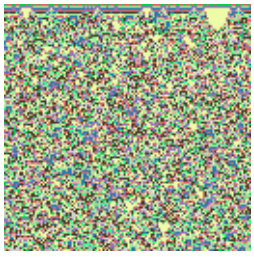
$\to \{3 \to 7.78684 \times 10^{-18}, 4 \to 1.\}$

{2 037 340 001 818 398 999 341 170 953 886 490 112, 12, 1}



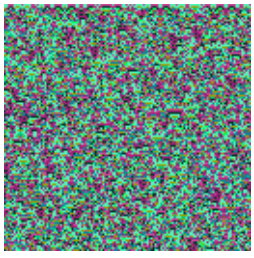
$\to \{2 \to 4.46877 \times 10^{-20}, 4 \to 1.\}$

{4 427 749 714 450 918 972 437 772 285 069 988 671, 12, 1}



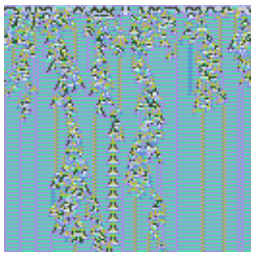
$\to \{3 \to 0.429253, 4 \to 0.570747\}$

{1 708 370 790 519 237 346 082 186 276 717 775 455, 12, 1}



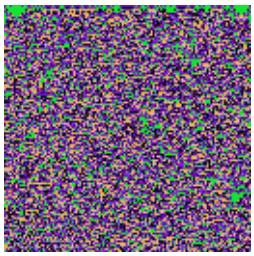
$\to \{3 \to 0.034204, 4 \to 0.965796\}$

{2 376 720 417 142 438 386 033 127 726 597 797 749, 12, 1}



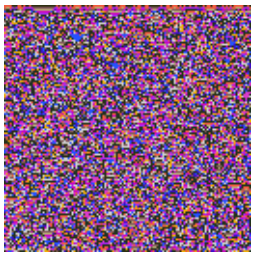
→ {3 → 0.000668163, 4 → 0.999332}

{4 514 973 960 436 332 112 398 025 692 646 137 604, 12, 1}



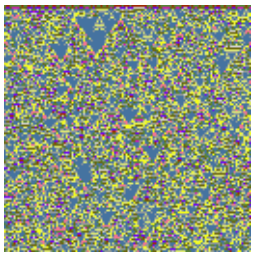
→ {3 → 0.387765, 4 → 0.612235}

{2 041 199 719 679 753 779 617 366 283 455 459 450, 12, 1}



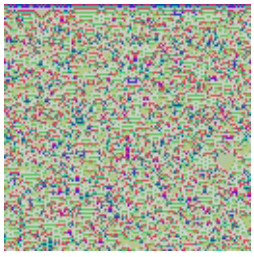
→ {3 → 0.000878986, 4 → 0.999121}

{2 402 045 602 239 059 787 146 538 715 565 307 987, 12, 1}



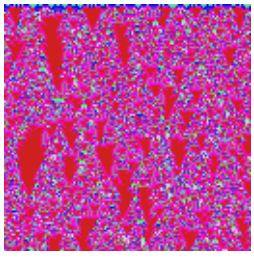
→ $\{3 \to 5.63551 \times 10^{-13}, 4 \to 1.\}$

{2 057 138 996 796 647 111 271 363 681 334 316 915, 12, 1}



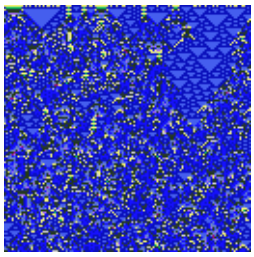
→ {3 → 0.00132717, 4 → 0.998673}

{4 193 651 967 286 648 761 347 234 900 007 355 605, 12, 1}



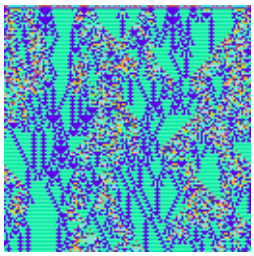
→ $\{3 \to 2.44027 \times 10^{-15}, 4 \to 1.\}$

{4 832 061 841 122 092 870 041 218 161 867 902 899, 12, 1}



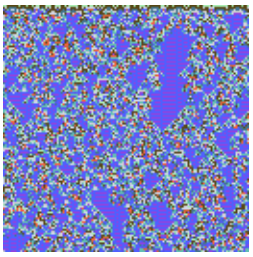
→ {3 → 0.00862596, 4 → 0.991374}

{3 149 267 180 998 950 201 768 565 203 234 016 712, 12, 1}



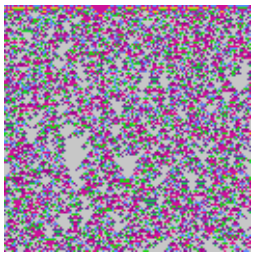
→ $\{3 \to 4.14411 \times 10^{-9}, 4 \to 1.\}$

{2 328 992 361 328 859 753 475 183 766 688 141 981, 12, 1}



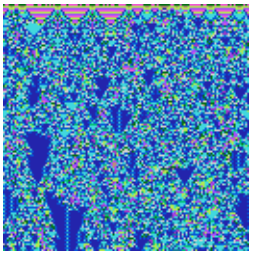
→ $\{3 \to 2.52895 \times 10^{-8}, 4 \to 1.\}$

{914 624 583 945 674 935 792 189 235 014 760 980, 12, 1}



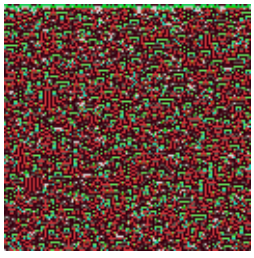
→ $\{3 \to 8.09139 \times 10^{-7}, 4 \to 0.999999\}$

{1 862 312 014 842 455 382 823 995 032 944 428 012, 12, 1}



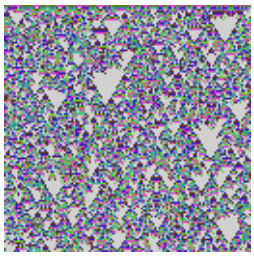
→ $\{2 \to 3.48346 \times 10^{-17}, 4 \to 1.\}$

{473 797 174 317 025 139 429 995 010 213 490 922, 12, 1}



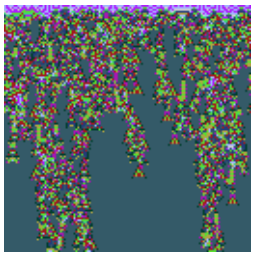
→ {3 → 0.0612323, 4 → 0.938768}

{1 654 294 025 629 199 293 632 656 385 008 347 091, 12, 1}



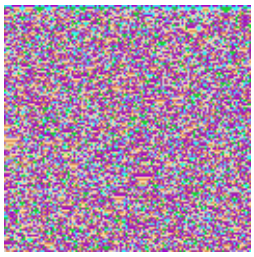
{1 662 709 409 387 306 615 105 670 905 417 028 005, 12, 1}

→ {3 → 0.0000199096, 4 → 0.99998}



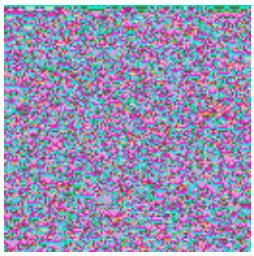
{2 011 403 798 925 234 633 449 787 391 147 582 871, 12, 1}

→ $\{2 \to 8.89417 \times 10^{-20}, 4 \to 1.\}$



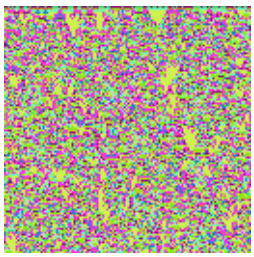
{4 718 438 767 245 372 612 681 017 421 191 819 077, 12, 1}

→ {3 → 0.20379, 4 → 0.79621}



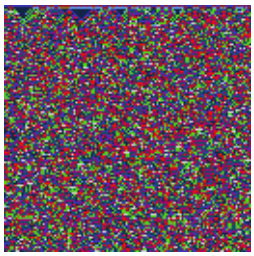
{4 126 298 921 532 798 091 939 198 537 000 495 292, 12, 1}

→ {3 → 0.118656, 4 → 0.881344}



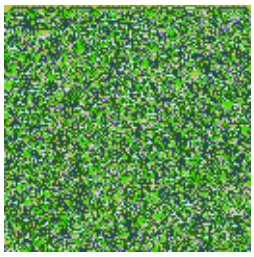
{2 614 444 768 819 620 538 550 534 371 894 545 981, 12, 1}

→ $\{3 \to 2.65911 \times 10^{-6}, 4 \to 0.999997\}$



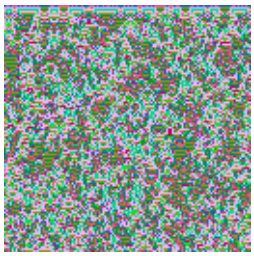
{4 690 404 283 728 992 352 970 539 081 707 065 221, 12, 1}

→ {3 → 0.00120766, 4 → 0.998792}



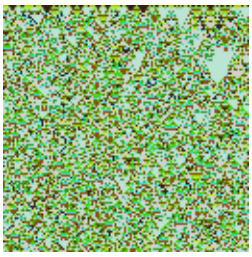
→ {3 → 0.0119256, 4 → 0.988074}

{4 347 222 677 654 469 214 341 341 084 425 736 616, 12, 1}



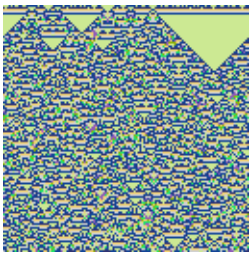
→ {3 → 0.226504, 4 → 0.773496}

{2 184 739 205 550 603 857 643 639 496 301 837 933, 12, 1}



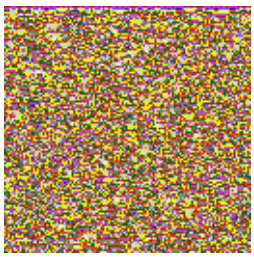
→ {3 → 0.00281073, 4 → 0.997189}

{229 875 758 778 177 924 737 400 909 749 282 333, 12, 1}



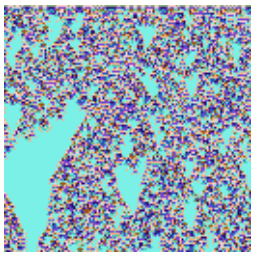
→ {3 → 0.00936813, 4 → 0.990632}

{616 674 602 059 647 015 261 794 979 637 152 673, 12, 1}



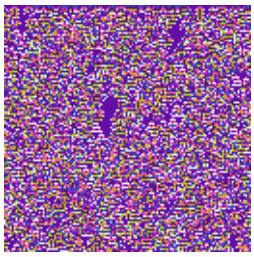
→ {3 → 0.101603, 4 → 0.898397}

{3 788 332 973 218 409 551 904 407 282 262 739 571, 12, 1}



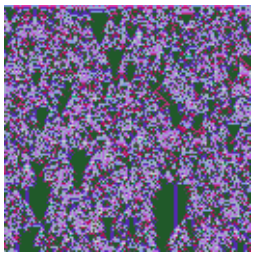
→ {3 → 0.0000120537, 4 → 0.999988}

{1 397 865 929 094 447 824 792 562 982 928 824 708, 12, 1}



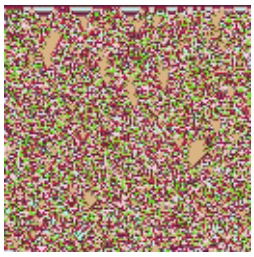
{3 913 936 622 626 119 667 765 991 075 957 243 400, 12, 1}

→ {3 → 0.0000124199, 4 → 0.999988}



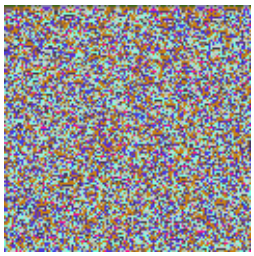
{2 015 613 237 308 183 631 235 616 049 448 229 155, 12, 1}

→ $\{3 \to 4.44615 \times 10^{-25}, 4 \to 1.\}$



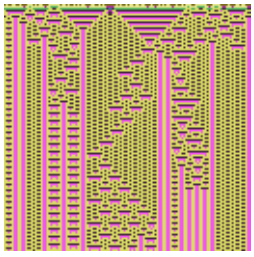
{4 332 806 284 390 475 878 483 848 076 627 385 129, 12, 1}

→ $\{3 \to 3.32537 \times 10^{-8}, 4 \to 1.\}$



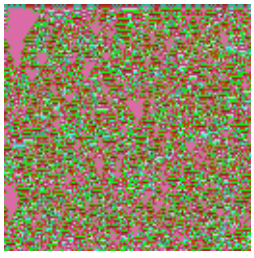
{4 363 773 565 846 311 009 204 171 183 812 787 176, 12, 1}

→ {3 → 0.42556, 4 → 0.57444}



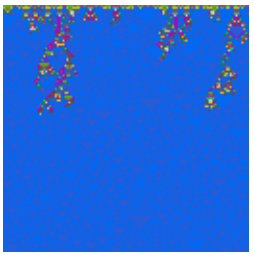
{3 607 650 972 982 675 554 036 459 362 192 429 000, 12, 1}

→ $\{3 \to 8.51045 \times 10^{-11}, 4 \to 1.\}$



{1 085 347 934 558 196 814 912 895 196 405 251 036, 12, 1}

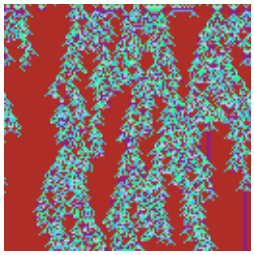
→ {3 → 0.000272814, 4 → 0.999727}



$\to \{3 \to 9.43855 \times 10^{-11}, 4 \to 1.\}$

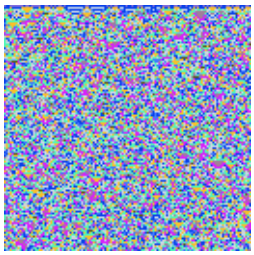
{450 976 774 568 146 814 720 478 827 164 805 219, 12, 1}

In[5041]:= **HuntCA[1, 12, 400]**



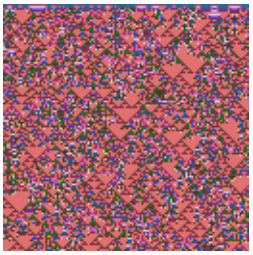
$\to \{3 \to 3.27473 \times 10^{-18}, 4 \to 1.\}$

{2 919 156 978 876 928 856 904 590 022 411 850 355, 12, 1}



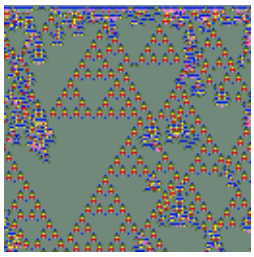
$\to \{3 \to 0.095283, 4 \to 0.904717\}$

{1 451 010 129 510 832 011 519 539 371 034 338 515, 12, 1}



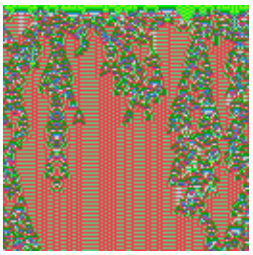
$\to \{3 \to 2.69526 \times 10^{-12}, 4 \to 1.\}$

{419 884 703 632 996 741 335 089 119 465 038 134, 12, 1}



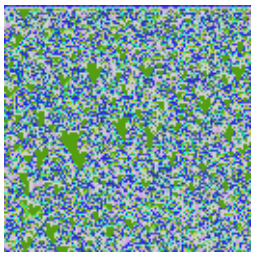
$\to \{2 \to 9.36502 \times 10^{-12}, 4 \to 1.\}$

{1 993 525 211 138 824 764 322 115 347 352 665 908, 12, 1}



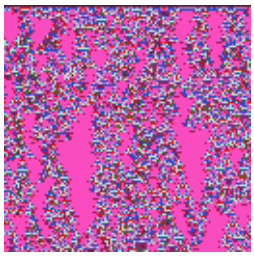
$\to \{3 \to 1.00934 \times 10^{-17}, 4 \to 1.\}$

{188 007 337 183 950 204 337 992 791 334 176 077, 12, 1}



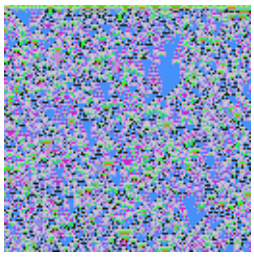
→ {3 → 0.0311809, 4 → 0.968819}

{4 780 248 905 876 274 876 778 131 348 076 797 260, 12, 1}



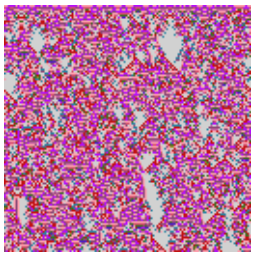
→ $\{3 \to 2.70078 \times 10^{-25}, 4 \to 1.\}$

{2 389 525 100 834 008 359 571 919 696 521 179 321, 12, 1}



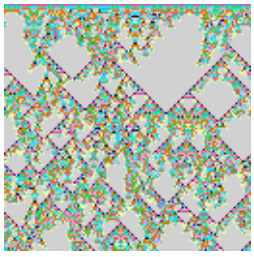
→ $\{3 \to 6.7911 \times 10^{-11}, 4 \to 1.\}$

{1 940 198 335 109 187 827 573 259 531 495 643 233, 12, 1}



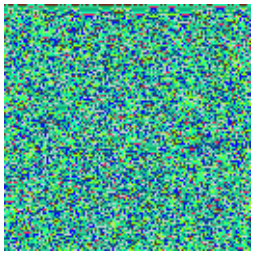
→ {3 → 0.0957857, 4 → 0.904214}

{1 372 584 804 986 012 144 938 530 924 871 645 795, 12, 1}



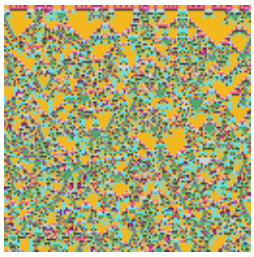
→ $\{3 \to 1.36286 \times 10^{-20}, 4 \to 1.\}$

{4 250 456 265 623 819 835 987 828 289 623 590 188, 12, 1}



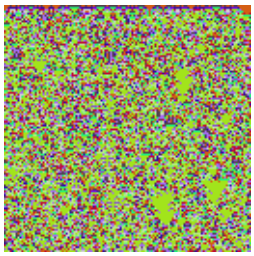
→ {3 → 0.000378649, 4 → 0.999621}

{3 801 278 923 617 100 334 144 409 958 762 329 975, 12, 1}



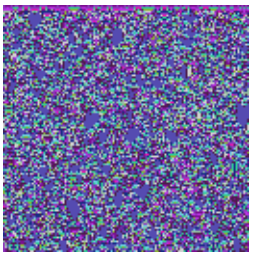
→ $\{3 \to 9.26877 \times 10^{-11}, 4 \to 1.\}$

{4 495 993 170 723 263 276 478 808 793 804 129 364, 12, 1}



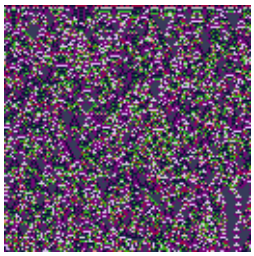
→ $\{3 \to 4.94616 \times 10^{-14}, 4 \to 1.\}$

{2 884 860 435 152 321 193 443 786 904 275 336 220, 12, 1}



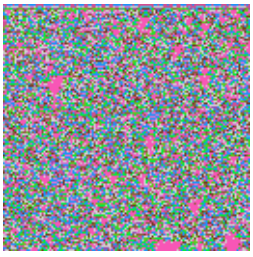
→ {3 → 0.00010294, 4 → 0.999897}

{309 766 645 511 312 816 238 786 269 542 782 765, 12, 1}



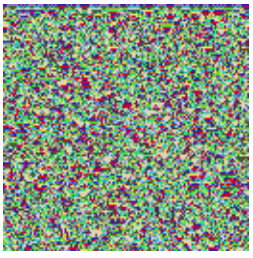
→ $\{3 \to 2.37484 \times 10^{-9}, 4 \to 1.\}$

{4 690 775 421 240 944 801 412 082 592 706 303 625, 12, 1}



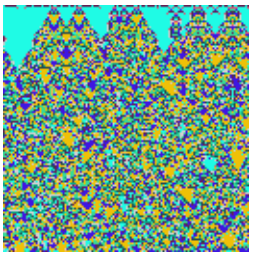
→ {3 → 0.010579, 4 → 0.989421}

{25 848 988 622 182 464 886 410 161 539 590 323, 12, 1}



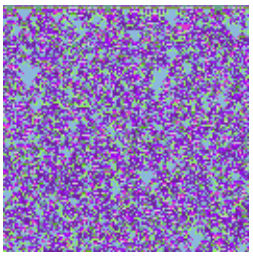
→ {3 → 0.475526, 4 → 0.524474}

{313 126 488 827 086 299 210 700 515 770 745 959, 12, 1}



→ $\{3 \to 6.14392 \times 10^{-9}, 4 \to 1.\}$

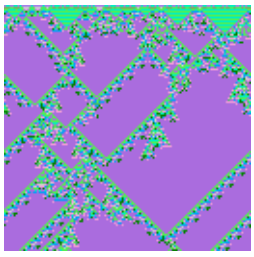
{500 746 645 580 422 187 761 474 731 232 697 940, 12, 1}



→ {3 → 0.122954, 4 → 0.877046}

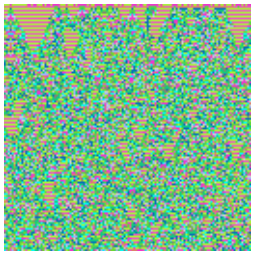
{384 304 127 482 428 355 878 733 797 784 358 190, 12, 1}

In[5081]:= **HuntCA[1, 12, 500]**



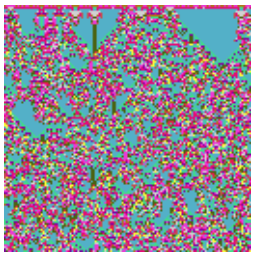
→ $\{2 \to 1.51231 \times 10^{-6}, 4 \to 0.999999\}$

{3 058 456 031 175 036 821 699 223 597 960 679 808, 12, 1}



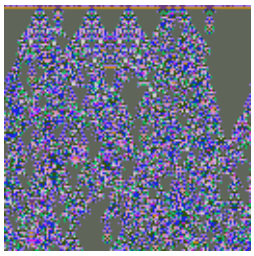
→ {3 → 0.00427143, 4 → 0.995729}

{2 544 082 769 530 840 737 297 538 949 339 793 104, 12, 1}



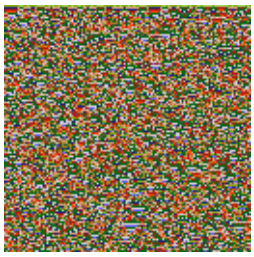
→ $\{2 \to 1.77992 \times 10^{-21}, 4 \to 1.\}$

{3 156 961 304 021 170 305 285 480 534 894 566 834, 12, 1}



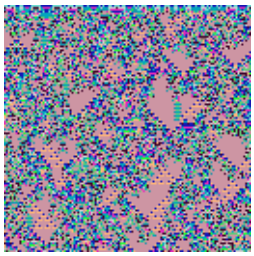
→ $\{3 \to 1.36928 \times 10^{-9}, 4 \to 1.\}$

{2 935 089 338 635 216 622 616 118 032 207 661 464, 12, 1}



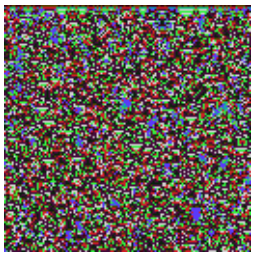
→ {3 → 0.450218, 4 → 0.549782}

{3 348 113 175 520 685 194 038 874 446 114 032 743, 12, 1}



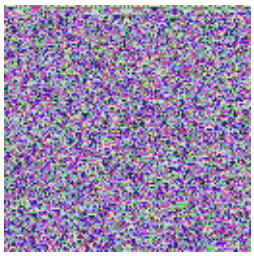
→ $\{3 \to 1.54175 \times 10^{-11}, 4 \to 1.\}$

{4 442 234 357 779 966 606 396 518 293 384 600 530, 12, 1}



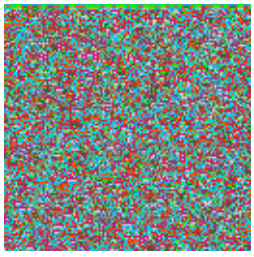
→ {3 → 0.237937, 4 → 0.762062}

{1 153 296 087 825 836 821 256 835 925 452 937 832, 12, 1}



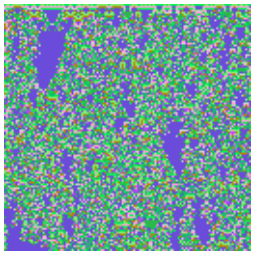
→ {3 → 0.477825, 4 → 0.522175}

{1 793 944 081 574 649 825 705 941 137 514 431 402, 12, 1}



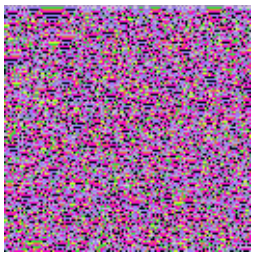
→ {3 → 0.257723, 4 → 0.742277}

{4 410 481 952 422 555 798 118 730 963 973 614 580, 12, 1}



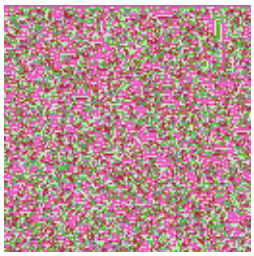
→ $\{3 \to 6.80866 \times 10^{-8}, 4 \to 1.\}$

{4 570 456 193 813 836 370 788 241 148 821 231 946, 12, 1}



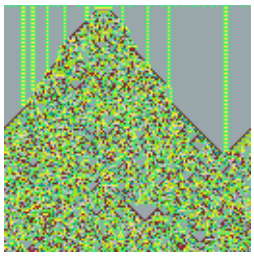
→ {3 → 0.264769, 4 → 0.735231}

{4 296 353 614 575 250 983 831 765 453 312 120 731, 12, 1}



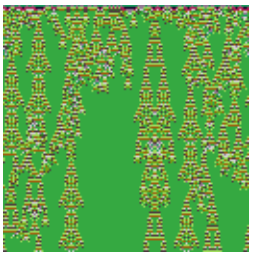
→ {3 → 0.0519329, 4 → 0.948067}

{2 576 325 888 854 622 473 642 307 440 746 191 482, 12, 1}



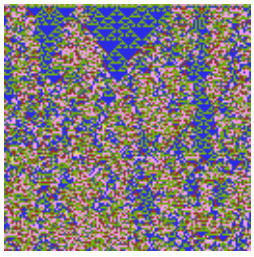
→ {3 → 0.000786508, 4 → 0.999214}

{4 265 887 437 009 802 613 614 990 880 043 799 654, 12, 1}



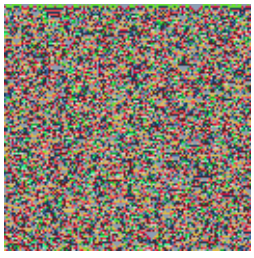
→ $\{2 \to 5.9438 \times 10^{-15}, 4 \to 1.\}$

{781 060 869 332 907 514 784 314 443 714 501 203, 12, 1}



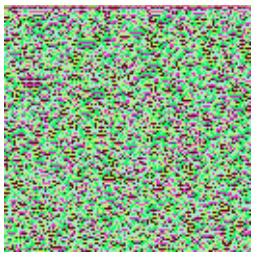
→ $\{3 \to 3.67031 \times 10^{-12}, 4 \to 1.\}$

{1 841 074 151 873 944 400 414 594 980 854 347 790, 12, 1}



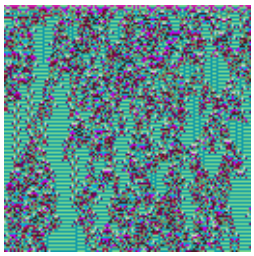
→ {3 → 0.0436599, 4 → 0.95634}

{2 991 856 738 055 452 535 487 498 489 953 972 052, 12, 1}



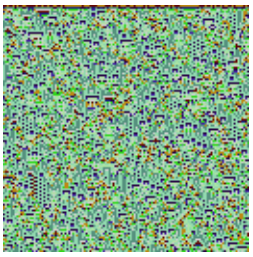
→ {3 → 0.00120763, 4 → 0.998792}

{3 335 818 153 272 301 741 408 133 638 804 864 679, 12, 1}



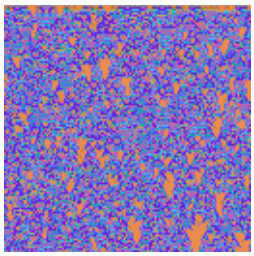
→ {3 → 0.0000642342, 4 → 0.999936}

{1 765 834 335 715 660 008 226 255 469 371 593 474, 12, 1}



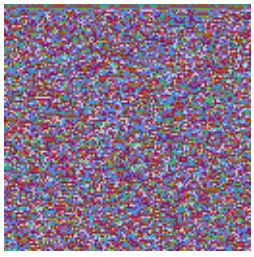
→ $\left\{3 \to 8.18896 \times 10^{-6}, 4 \to 0.999992\right\}$

{999 666 424 944 877 355 545 203 672 143 315 708, 12, 1}



→ {3 → 0.0205957, 4 → 0.979404}

{3 327 078 004 863 799 470 279 172 157 179 372 220, 12, 1}



→ {3 → 0.325776, 4 → 0.674224}

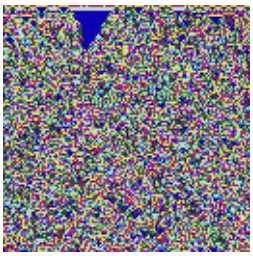
{1 387 918 655 525 286 997 192 904 885 216 351 871, 12, 1}

→ $\left\{3 \to 1.35429 \times 10^{-11}, 4 \to 1.\right\}$

{4 909 351 779 590 744 690 982 921 063 000 123 367, 12, 1}

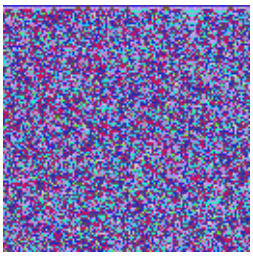
→ $\{3 \to 1.22984 \times 10^{-14}, 4 \to 1.\}$

{1 283 784 228 005 495 850 522 450 931 863 975 000, 12, 1}



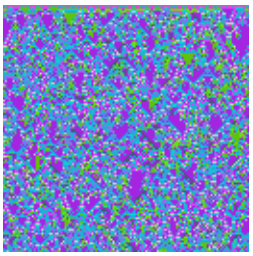
→ {3 → 0.0195956, 4 → 0.980404}

{1 451 158 298 157 951 309 195 594 751 482 185 744, 12, 1}



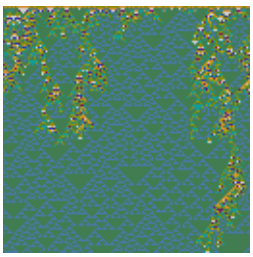
→ {3 → 0.0185697, 4 → 0.98143}

{3 508 602 389 453 806 193 097 432 880 790 532 327, 12, 1}



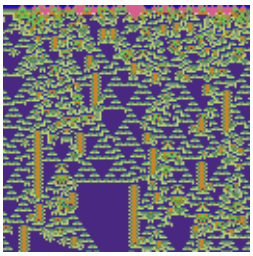
→ {3 → 0.100313, 4 → 0.899687}

{407 083 679 679 763 290 066 323 614 903 817 631, 12, 1}



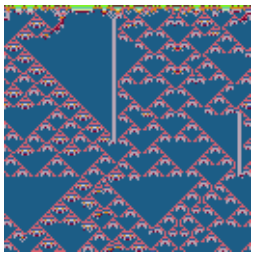
→ $\{3 \to 9.40337 \times 10^{-14}, 4 \to 1.\}$

{3 322 254 899 670 042 575 548 039 210 638 634 274, 12, 1}



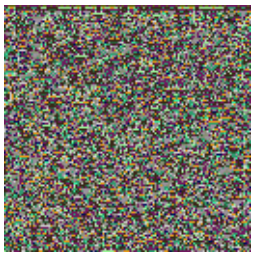
→ $\{3 \to 3.12133 \times 10^{-8}, 4 \to 1.\}$

{3 366 348 609 775 991 561 944 563 473 905 904 519, 12, 1}



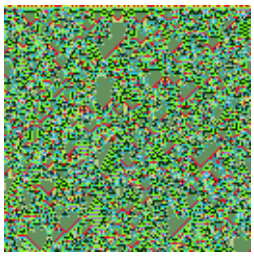
→ $\{3 \to 1.25523 \times 10^{-9}, 4 \to 1.\}$

{4 462 409 648 259 657 012 007 026 312 073 771 583, 12, 1}



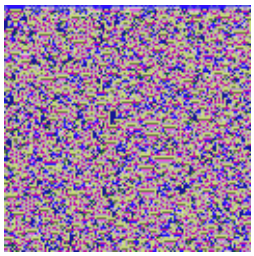
→ $\{3 \to 0.0329766, 4 \to 0.967023\}$

{2 111 878 198 528 565 187 254 918 508 220 088 422, 12, 1}



→ $\{2 \to 1.82687 \times 10^{-6}, 4 \to 0.999998\}$

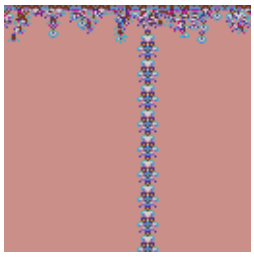
{3 467 696 186 454 370 470 893 979 057 484 596 813, 12, 1}



→ $\{3 \to 0.0303551, 4 \to 0.969645\}$

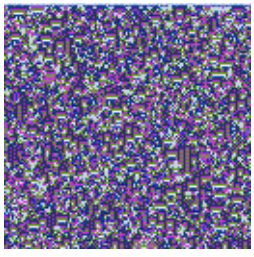
{3 219 587 436 282 698 321 611 319 551 243 333 855, 12, 1}

In[5131]:= **HuntCA[1, 12, 500]**



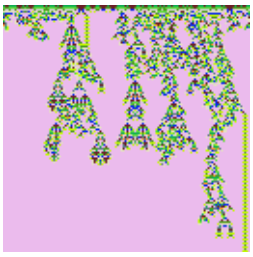
→ $\{2 \to 0.188694, 4 \to 0.811306\}$

{2 326 928 445 937 698 323 414 236 422 914 492 934, 12, 1}



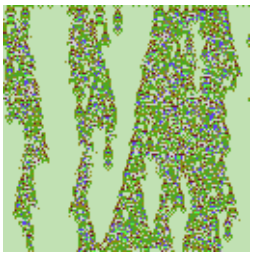
→ $\{3 \to 0.0198381, 4 \to 0.980162\}$

{2 003 654 169 620 021 544 996 262 576 243 141 370, 12, 1}



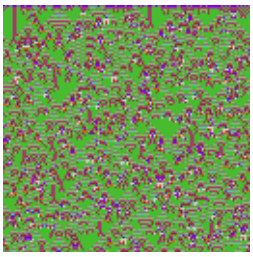
$\to \{3 \to 5.36938 \times 10^{-25}, 4 \to 1.\}$

{1 047 385 438 223 922 898 756 810 823 918 015 952, 12, 1}



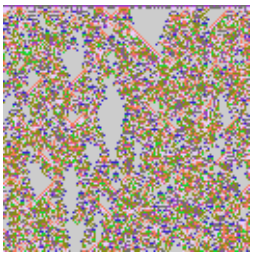
$\to \{3 \to 4.017 \times 10^{-19}, 4 \to 1.\}$

{4 320 619 266 476 257 399 584 626 296 920 802 992, 12, 1}



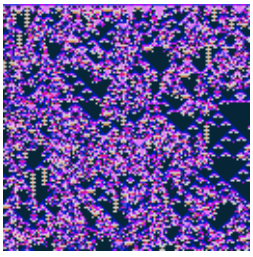
$\to \{3 \to 2.98886 \times 10^{-9}, 4 \to 1.\}$

{2 444 760 171 128 078 547 292 541 875 632 454 725, 12, 1}



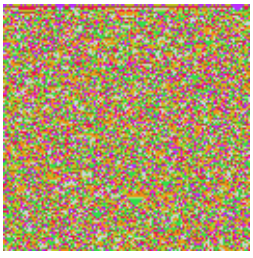
$\to \{3 \to 9.97269 \times 10^{-16}, 4 \to 1.\}$

{2 126 931 450 120 992 154 921 899 325 663 276 002, 12, 1}



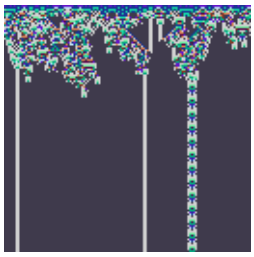
$\to \{3 \to 2.51895 \times 10^{-10}, 4 \to 1.\}$

{4 876 919 765 720 849 702 505 705 668 845 268 471, 12, 1}



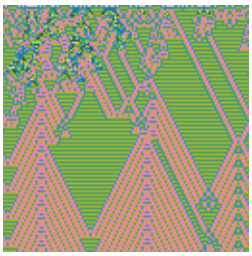
$\to \{3 \to 0.251509, 4 \to 0.748491\}$

{4 369 157 142 966 567 860 039 911 643 926 563 132, 12, 1}



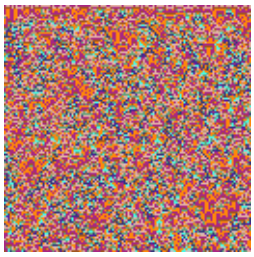
→ {2 → 0.45128, 4 → 0.54872}

{2 455 526 575 190 723 201 244 662 123 774 604 682, 12, 1}



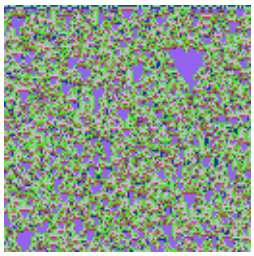
→ $\{3 \to 1.14101 \times 10^{-8}, 4 \to 1.\}$

{104 436 083 916 080 938 901 468 633 947 649 723, 12, 1}



→ {3 → 0.0882832, 4 → 0.911717}

{1 164 630 014 654 934 091 247 866 768 317 874 000, 12, 1}

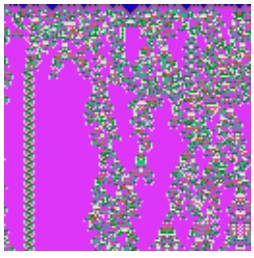


→ {3 → 0.000232863, 4 → 0.999767}

{4 167 114 581 846 575 597 183 194 109 806 583 021, 12, 1}

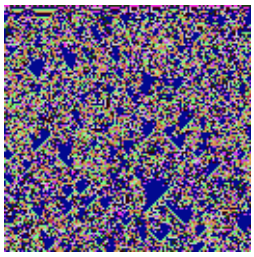
→ {3 → 0.278694, 4 → 0.721306}

{1 055 777 046 438 112 370 631 783 907 596 664 177, 12, 1}



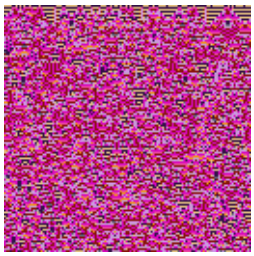
→ $\{3 \to 2.11745 \times 10^{-27}, 4 \to 1.\}$

{4 733 096 969 284 915 270 003 782 773 388 302 024, 12, 1}



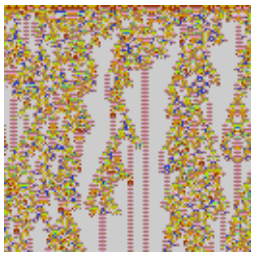
→ $\{3 \to 1.4884 \times 10^{-12}, 4 \to 1.\}$

{4 353 700 570 138 177 659 858 139 839 190 439 269, 12, 1}



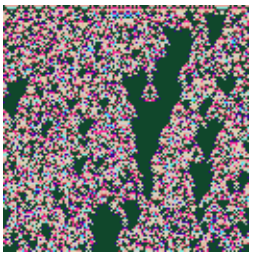
→ $\{3 \to 0.0268294, 4 \to 0.973171\}$

{1 700 426 182 256 011 923 546 131 273 546 037 637, 12, 1}



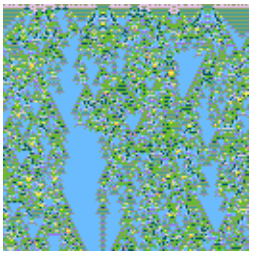
→ $\{2 \to 1.15246 \times 10^{-17}, 4 \to 1.\}$

{1 587 812 797 100 613 302 522 421 853 288 753 821, 12, 1}



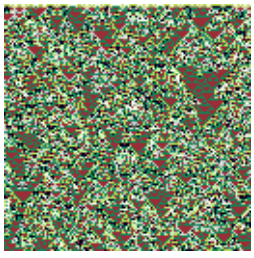
→ $\{3 \to 6.0488 \times 10^{-18}, 4 \to 1.\}$

{427 953 633 306 257 907 352 836 909 776 522 352, 12, 1}



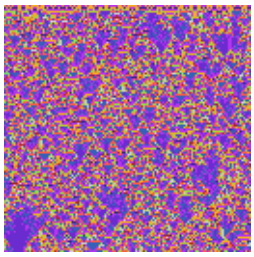
→ $\{3 \to 3.0237 \times 10^{-9}, 4 \to 1.\}$

{592 055 900 705 787 538 405 185 680 260 712 257, 12, 1}



→ $\{3 \to 1.38708 \times 10^{-8}, 4 \to 1.\}$

{2 077 595 008 963 493 382 340 946 218 715 999 862, 12, 1}

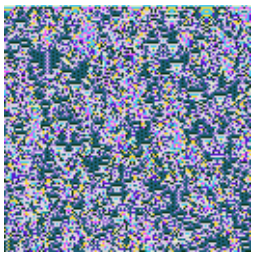


→ {3 → 0.184298, 4 → 0.815702}

{4 161 306 249 103 113 413 341 278 922 571 533 309, 12, 1}

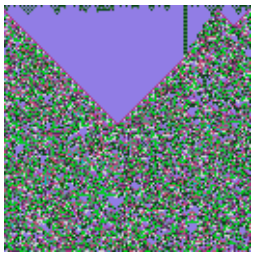
→ {3 → 0.35362, 4 → 0.64638}

{2 689 635 208 258 156 908 780 086 247 160 539 109, 12, 1}



→ {3 → 0.00807607, 4 → 0.991924}

{3 464 381 909 810 378 924 992 424 199 493 297 851, 12, 1}

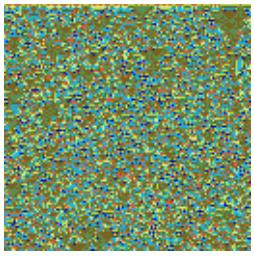


→ {3 → 0.000046346, 4 → 0.999954}

{1 213 887 903 985 817 646 766 797 968 003 998 837, 12, 1}

→ {3 → 0.00245503, 4 → 0.997545}

{3 554 665 232 635 756 293 438 306 927 060 139 035, 12, 1}



→ {3 → 0.12481, 4 → 0.87519}

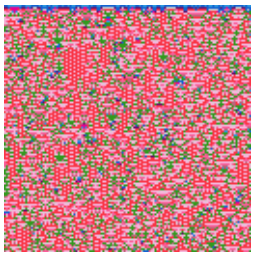
{4 015 935 123 043 278 540 719 690 821 100 978 295, 12, 1}

→ {3 → 0.00417756, 4 → 0.995822}

{4 840 462 450 388 432 582 712 008 230 057 550 137, 12, 1}

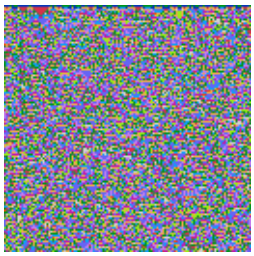
→ $\{3 \to 3.54426 \times 10^{-10}, 4 \to 1.\}$

{4 114 845 120 516 964 686 402 365 473 571 715 958, 12, 1}



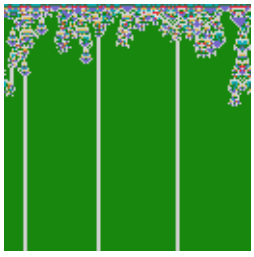
→ {3 → 0.151232, 4 → 0.848768}

{3 238 507 091 438 944 897 358 845 466 585 619 938, 12, 1}



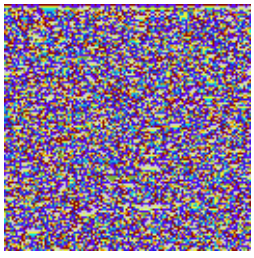
→ {3 → 0.130651, 4 → 0.869349}

{3 441 954 552 273 980 123 810 113 394 898 191 523, 12, 1}



→ {2 → 0.0189815, 4 → 0.981018}

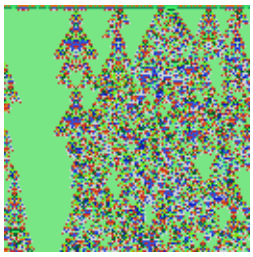
{3 389 428 614 522 212 299 493 989 393 123 190 092, 12, 1}



→ {3 → 0.219643, 4 → 0.780357}

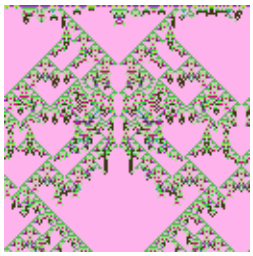
{3 761 646 209 519 410 135 505 451 657 938 544 291, 12, 1}

In[5165]:= **HuntCA[1, 13, 500]**



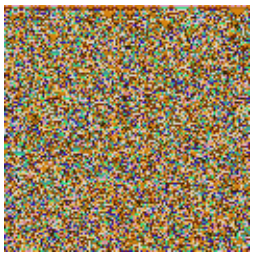
$\to \{3 \to 2.942 \times 10^{-21}, 4 \to 1.\}$

{99 242 998 156 468 296 716 042 135 090 393 992 964 077, 13, 1}



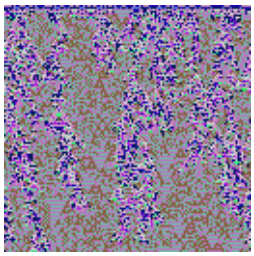
$\to \{3 \to 8.56403 \times 10^{-10}, 4 \to 1.\}$

{30 235 228 829 942 738 476 096 753 221 841 410 568 993, 13, 1}



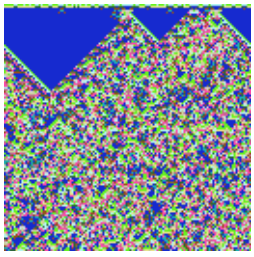
$\to \{3 \to 0.224065, 4 \to 0.775935\}$

{56 411 080 349 499 089 187 496 099 531 199 005 357 129, 13, 1}



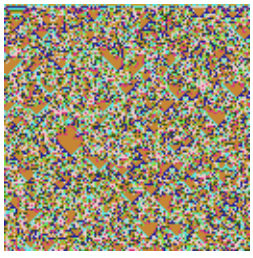
$\to \{3 \to 0.080857, 4 \to 0.919143\}$

{156 776 788 825 747 280 160 695 099 480 093 511 078 193, 13, 1}



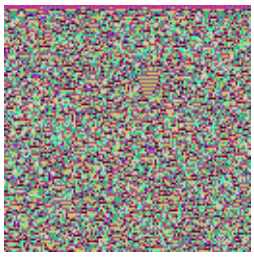
$\to \{3 \to 5.70756 \times 10^{-8}, 4 \to 1.\}$

{131 990 619 157 494 140 827 079 768 507 534 706 209 060, 13, 1}



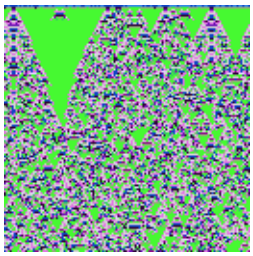
$\to \{3 \to 0.14504, 4 \to 0.85496\}$

{10 442 909 199 479 614 545 117 360 727 846 236 703 888, 13, 1}



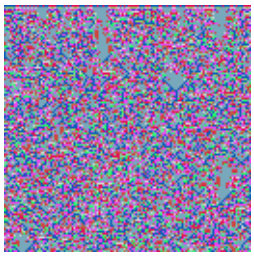
$\to \{3 \to 5.61074 \times 10^{-6}, 4 \to 0.999994\}$

{113 142 806 523 670 156 834 010 151 844 288 560 603 737, 13, 1}



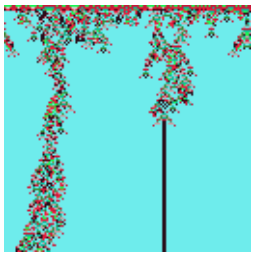
$\to \{3 \to 1.3047 \times 10^{-15}, 4 \to 1.\}$

{20 693 269 812 300 239 531 517 575 135 149 033 774 556, 13, 1}



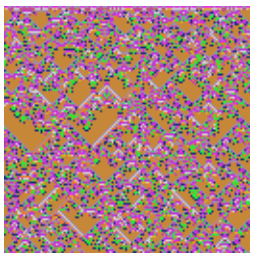
$\to \{3 \to 0.000259943, 4 \to 0.99974\}$

{132 527 481 320 043 594 301 007 369 678 132 868 555 883, 13, 1}



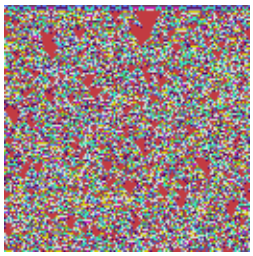
$\to \{2 \to 1.95153 \times 10^{-14}, 4 \to 1.\}$

{159 905 700 948 677 175 176 392 165 576 909 906 680 832, 13, 1}



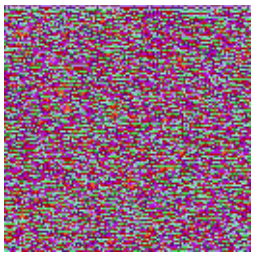
$\to \{3 \to 2.93193 \times 10^{-6}, 4 \to 0.999997\}$

{88 237 536 241 688 058 841 112 384 904 138 636 889 578, 13, 1}



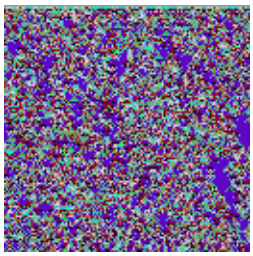
$\to \{3 \to 0.197513, 4 \to 0.802487\}$

{44 425 815 274 819 774 188 872 818 781 913 203 173 080, 13, 1}



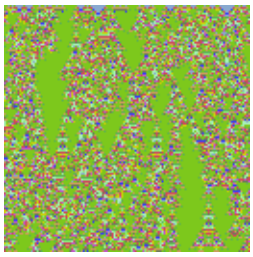
→ {3 → 0.484948, 4 → 0.515052}

{105 024 117 146 625 702 696 118 980 311 225 846 882 605, 13, 1}



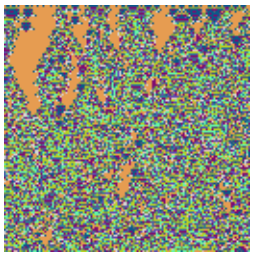
→ {3 → 0.000127279, 4 → 0.999873}

{14 192 162 157 622 354 717 397 281 725 469 249 976 203, 13, 1}



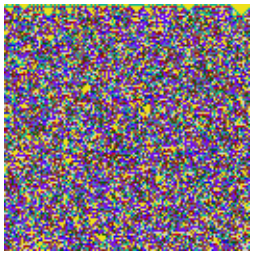
→ $\left\{2 \to 6.65183 \times 10^{-17}, 4 \to 1.\right\}$

{81 416 532 578 360 486 896 721 262 623 356 975 247 287, 13, 1}



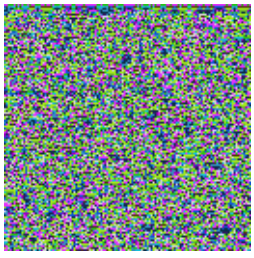
→ $\left\{3 \to 5.92643 \times 10^{-18}, 4 \to 1.\right\}$

{95 467 245 391 450 289 095 255 565 089 150 253 981 674, 13, 1}



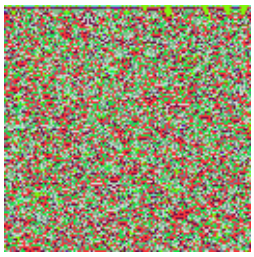
→ {3 → 0.00819008, 4 → 0.99181}

{55 602 842 688 435 465 030 441 686 799 583 374 559 198, 13, 1}



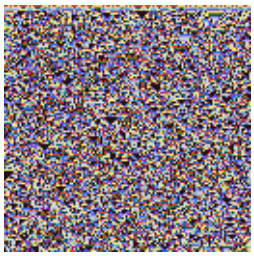
→ {3 → 0.0251675, 4 → 0.974832}

{104 838 843 865 685 936 475 795 257 131 379 615 586 108, 13, 1}



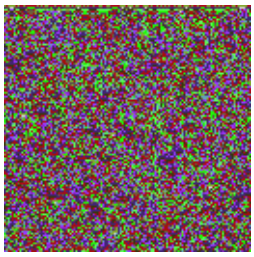
→ {3 → 0.36878, 4 → 0.63122}

{159 176 479 822 927 281 064 329 618 833 685 841 075 778, 13, 1}



→ {3 → 0.000250255, 4 → 0.99975}

{146 896 323 013 645 855 592 070 577 392 258 081 375 144, 13, 1}



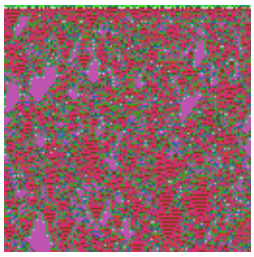
→ {3 → 0.392298, 4 → 0.607702}

{3 771 967 805 257 509 678 607 721 315 358 749 257 059, 13, 1}

In[5180]:= **HuntCA[1, 13, 500]**

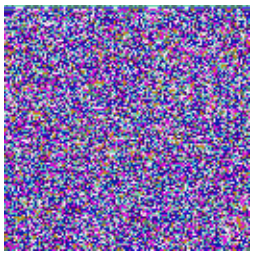
→ $\left\{2 \to 1.51595 \times 10^{-19}, 4 \to 1.\right\}$

{99 384 908 964 066 022 244 825 088 901 912 417 579 256, 13, 1}



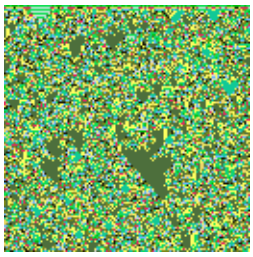
→ $\left\{3 \to 3.84878 \times 10^{-7}, 4 \to 1.\right\}$

{120 523 381 076 351 738 203 864 639 979 479 386 351 385, 13, 1}



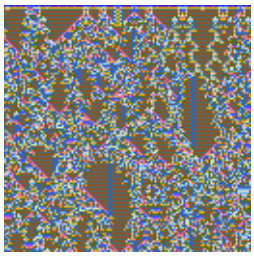
→ {3 → 0.350958, 4 → 0.649042}

{15 542 898 865 221 308 263 331 463 381 679 427 969 465, 13, 1}



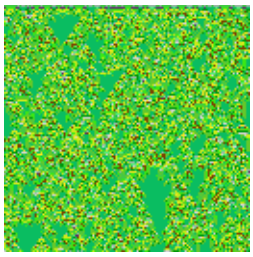
→ {3 → 0.412233, 4 → 0.587767}

{14 676 877 248 216 242 003 718 737 427 739 223 755 293, 13, 1}



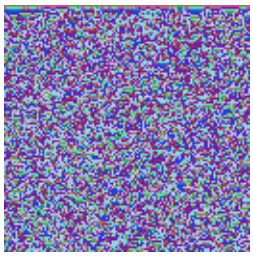
→ {3 → 0.000613412, 4 → 0.999387}

{126 107 177 781 477 530 280 109 848 964 882 760 091 504, 13, 1}



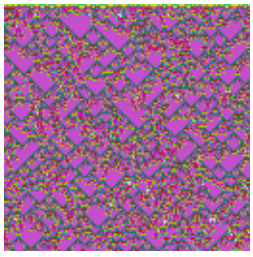
→ $\left\{3 \to 1.62965 \times 10^{-13}, 4 \to 1.\right\}$

{35 129 145 361 468 029 768 652 493 929 467 024 305 361, 13, 1}



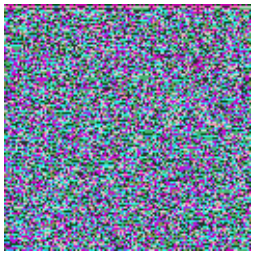
→ {3 → 0.293862, 4 → 0.706138}

{20 435 876 698 374 736 898 100 359 229 596 893 368 105, 13, 1}



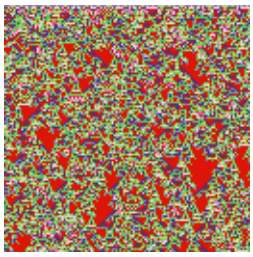
→ {3 → 0.0136931, 4 → 0.986307}

{12 245 691 129 306 294 572 779 415 596 128 513 572 284, 13, 1}



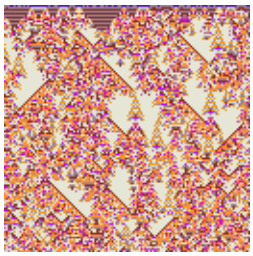
→ {3 → 0.00214694, 4 → 0.997853}

{140 520 393 496 654 072 459 651 300 967 172 692 789 806, 13, 1}



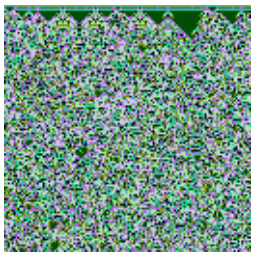
$\to \left\{3 \to 2.58999 \times 10^{-11},\ 4 \to 1.\right\}$

{55 869 496 271 211 651 860 790 052 487 514 715 012 713, 13, 1}



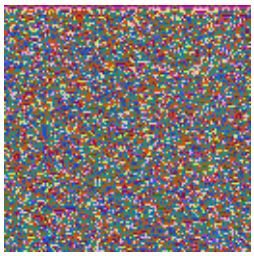
$\to \left\{3 \to 1.20509 \times 10^{-18},\ 4 \to 1.\right\}$

{22 620 745 513 230 368 981 993 118 340 545 025 428 693, 13, 1}



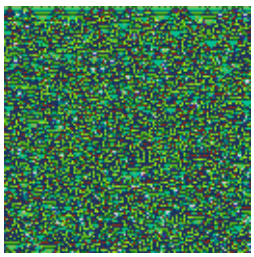
$\to \{3 \to 0.0276347,\ 4 \to 0.972365\}$

{132 950 322 177 949 492 444 561 161 271 820 807 282 797, 13, 1}



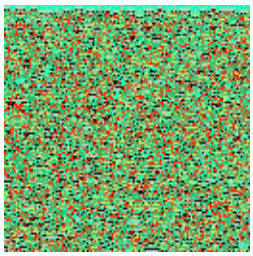
$\to \{3 \to 0.0188936,\ 4 \to 0.981106\}$

{138 621 207 543 486 212 103 433 942 646 180 389 483 993, 13, 1}



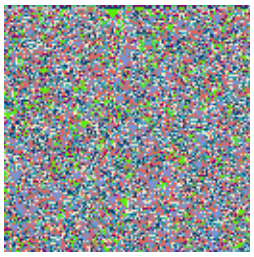
$\to \{3 \to 0.0365205,\ 4 \to 0.96348\}$

{148 739 394 524 401 772 297 837 513 495 473 707 278 301, 13, 1}



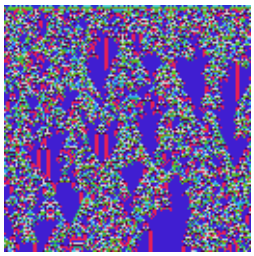
$\to \{3 \to 0.0361339,\ 4 \to 0.963866\}$

{99 091 186 241 987 424 846 976 900 064 639 508 790 637, 13, 1}



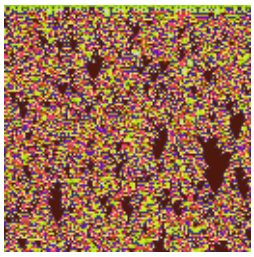
→ {3 → 0.0865597, 4 → 0.91344}

{59 250 925 119 299 794 302 067 519 642 493 148 702 685, 13, 1}



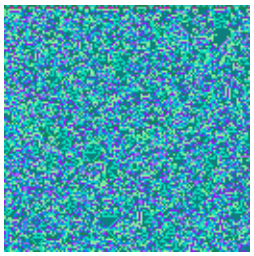
→ $\{3 \to 9.94893 \times 10^{-24}, 4 \to 1.\}$

{127 079 474 184 538 084 128 206 639 667 216 971 647 066, 13, 1}



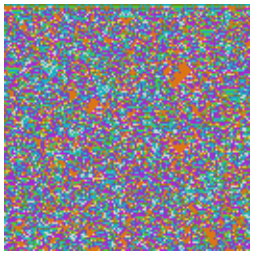
→ $\{3 \to 1.83966 \times 10^{-12}, 4 \to 1.\}$

{130 904 038 639 935 622 803 857 425 687 040 067 079 359, 13, 1}



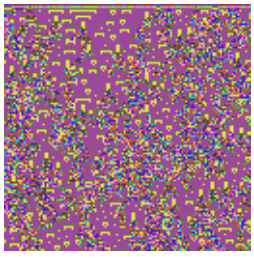
→ {3 → 0.00405638, 4 → 0.995944}

{30 141 332 149 041 190 573 471 046 348 019 078 938 840, 13, 1}



→ {3 → 0.00673999, 4 → 0.99326}

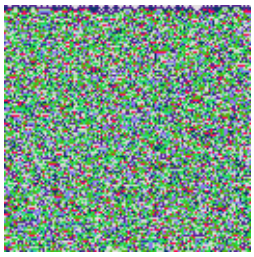
{68 310 024 173 713 265 794 177 442 712 722 630 108 258, 13, 1}



→ {3 → 0.0120049, 4 → 0.987995}

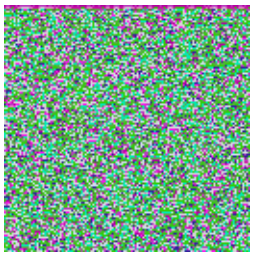
{124 577 297 543 627 901 778 202 779 235 476 784 105 093, 13, 1}

In[5197]:= **HuntCA[1, 13, 500]**



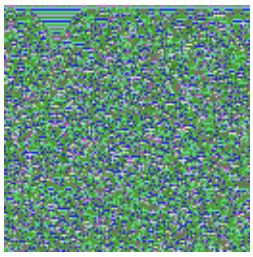
→ {3 → 0.0862379, 4 → 0.913762}

{1 494 377 036 033 379 107 472 849 347 642 747 275 379, 13, 1}



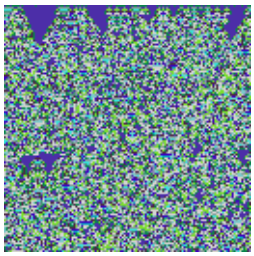
→ {3 → 0.00111611, 4 → 0.998884}

{65 837 806 205 454 629 179 942 427 480 966 941 564 820, 13, 1}



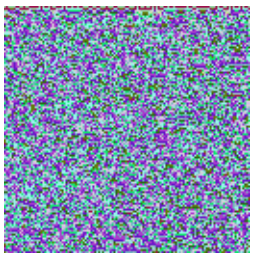
→ {3 → 0.00788073, 4 → 0.992119}

{76 269 875 379 916 584 127 876 777 578 023 972 289 570, 13, 1}



→ {3 → 0.312896, 4 → 0.687104}

{123 370 167 785 769 581 371 161 255 637 633 622 660 226, 13, 1}

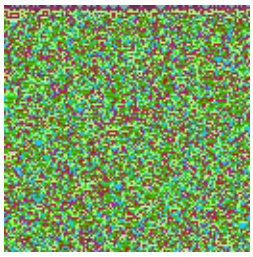


→ {3 → 0.481925, 4 → 0.518075}

{79 697 825 238 750 275 330 149 554 732 125 163 972 147, 13, 1}

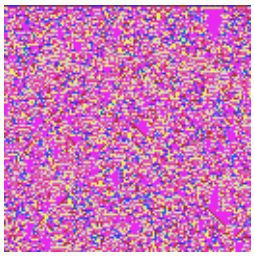
→ $\{2 \to 2.99884 \times 10^{-8}, 4 \to 1.\}$

{63 902 381 120 094 774 438 253 053 301 236 684 519 109, 13, 1}



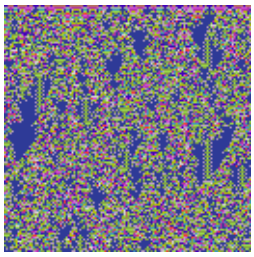
→ {3 → 0.00139467, 4 → 0.998605}

{73 152 870 403 413 372 182 881 278 638 819 894 696 121, 13, 1}



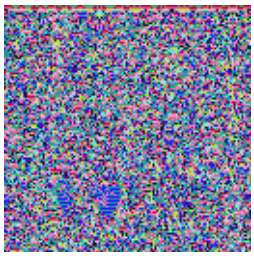
→ $\left\{3 \to 6.9325 \times 10^{-11}, 4 \to 1.\right\}$

{156 803 700 660 595 289 230 714 051 532 186 873 041 693, 13, 1}



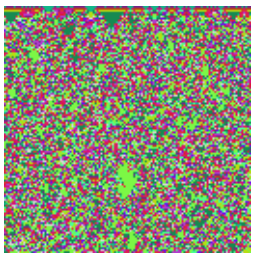
→ $\left\{2 \to 5.10411 \times 10^{-6}, 4 \to 0.999995\right\}$

{124 161 214 367 469 358 546 565 229 582 699 530 333 389, 13, 1}



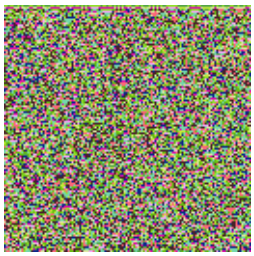
→ {3 → 0.0383851, 4 → 0.961615}

{7 170 738 803 551 368 810 948 090 787 482 990 799 325, 13, 1}



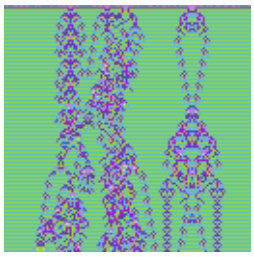
→ {3 → 0.0000125195, 4 → 0.999987}

{138 053 092 651 608 240 707 215 520 674 274 613 296 313, 13, 1}



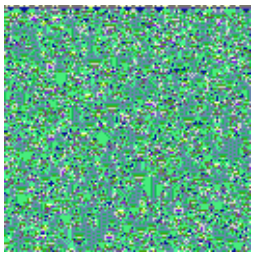
→ {3 → 0.0324986, 4 → 0.967501}

{136 146 577 687 066 354 990 812 628 104 687 690 474 976, 13, 1}



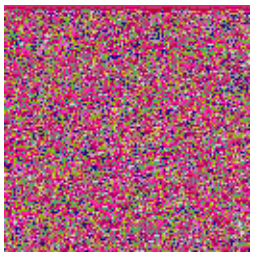
$\to \left\{3 \to 6.82289 \times 10^{-8},\ 4 \to 1.\right\}$

{100 768 508 438 747 295 440 176 254 647 622 379 165 505, 13, 1}



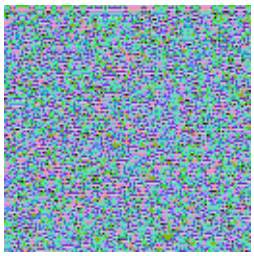
$\to \{3 \to 0.433122,\ 4 \to 0.566878\}$

{131 315 208 774 042 318 551 821 535 723 810 806 198 619, 13, 1}



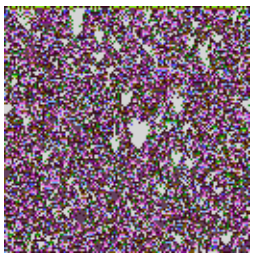
$\to \{3 \to 0.350089,\ 4 \to 0.649911\}$

{61 242 784 629 427 913 559 256 963 644 642 108 807 544, 13, 1}



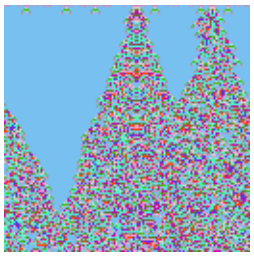
$\to \{3 \to 0.166484,\ 4 \to 0.833516\}$

{5 243 261 779 110 915 932 426 007 973 397 653 639 566, 13, 1}



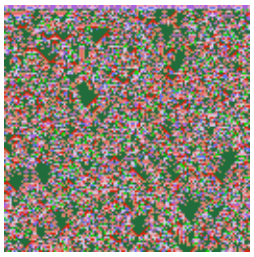
$\to \{3 \to 0.081443,\ 4 \to 0.918557\}$

{74 911 703 065 612 456 022 433 749 034 517 002 222 976, 13, 1}



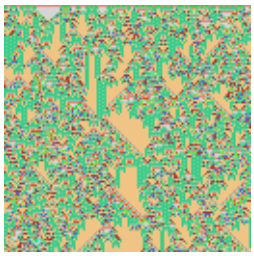
$\to \left\{3 \to 2.68714 \times 10^{-18},\ 4 \to 1.\right\}$

{45 795 463 558 235 049 642 822 584 227 332 911 502 535, 13, 1}



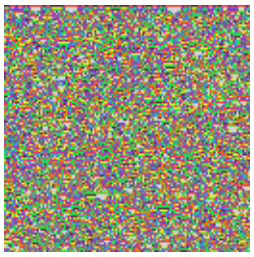
→ {3 → 0.418493, 4 → 0.581507}

{18 834 519 499 499 086 329 200 873 566 629 859 372 780, 13, 1}



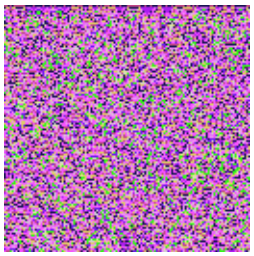
→ $\{3 \to 9.07964 \times 10^{-14}, 4 \to 1.\}$

{132 943 066 283 337 635 043 461 321 329 133 272 475 900, 13, 1}



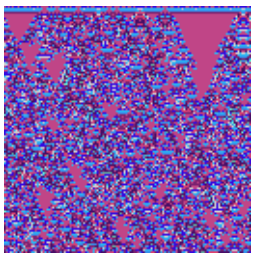
→ {3 → 0.41756, 4 → 0.58244}

{24 857 696 343 100 380 867 233 283 035 207 612 330 049, 13, 1}



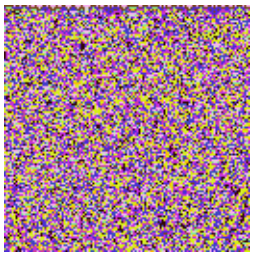
→ {3 → 0.26892, 4 → 0.73108}

{66 251 061 925 182 062 520 613 918 276 471 021 756 580, 13, 1}



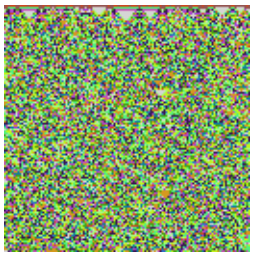
→ $\{3 \to 9.69712 \times 10^{-9}, 4 \to 1.\}$

{136 805 966 722 078 564 709 231 332 963 295 526 174 519, 13, 1}



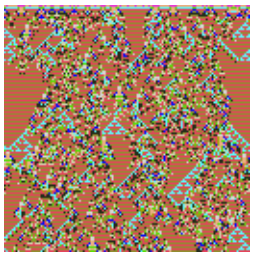
→ {3 → 0.000325751, 4 → 0.999674}

{92 457 419 612 159 810 437 341 163 549 641 940 926 583, 13, 1}



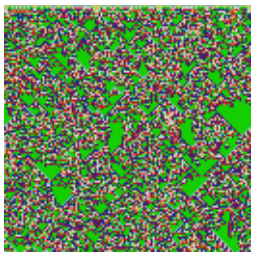
→ {3 → 0.0686574, 4 → 0.931343}

{47 125 220 715 378 241 898 017 050 574 575 248 721 624, 13, 1}



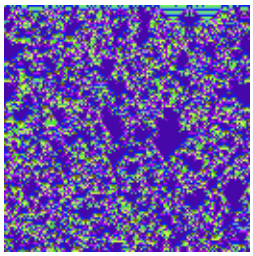
→ $\{3 \to 1.78221 \times 10^{-23}, 4 \to 1.\}$

{69 923 971 899 507 339 069 700 589 407 999 952 642 860, 13, 1}



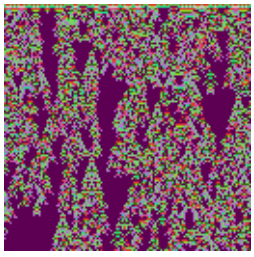
→ {3 → 0.0011631, 4 → 0.998837}

{132 499 376 697 020 960 921 340 914 080 281 267 041 999, 13, 1}



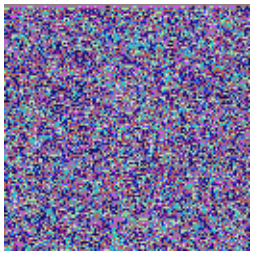
→ $\{3 \to 2.30737 \times 10^{-12}, 4 \to 1.\}$

{35 014 283 915 728 677 657 876 181 482 906 443 850 357, 13, 1}



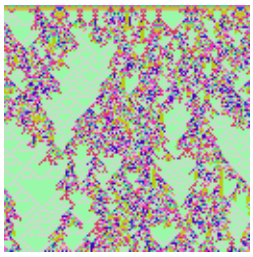
→ $\{3 \to 1.47166 \times 10^{-11}, 4 \to 1.\}$

{133 892 375 898 401 605 019 635 538 242 079 018 284 531, 13, 1}



→ {3 → 0.0101289, 4 → 0.989871}

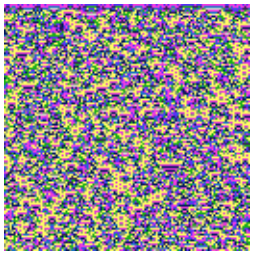
{52 416 312 282 522 512 627 000 697 064 223 540 344 943, 13, 1}



→ $\{3 \to 9.55189 \times 10^{-10}, 4 \to 1.\}$

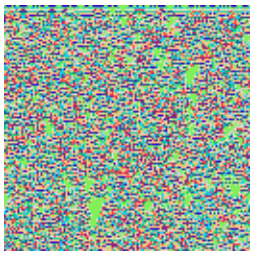
{98 636 982 036 609 683 317 060 849 348 037 053 340 639, 13, 1}

In[5230]:= **HuntCA[1, 13, 500]**



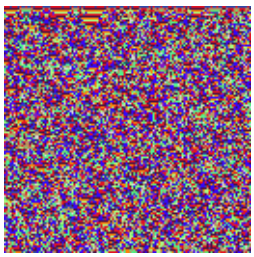
→ {3 → 0.0806118, 4 → 0.919388}

{36 978 905 191 674 972 997 379 614 924 270 782 149 480, 13, 1}



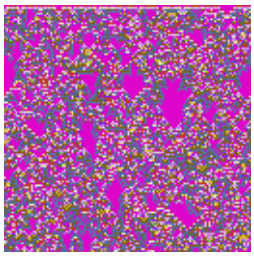
→ {3 → 0.000997316, 4 → 0.999003}

{75 863 064 540 699 872 702 813 189 092 120 676 372 403, 13, 1}



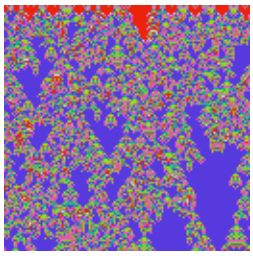
→ {3 → 0.262279, 4 → 0.737721}

{115 667 229 275 089 637 882 601 349 280 124 218 429 526, 13, 1}



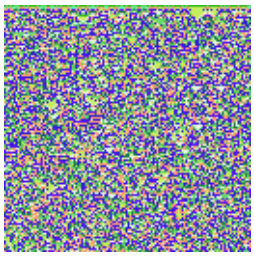
→ $\{3 \to 2.88582 \times 10^{-9}, 4 \to 1.\}$

{109 410 208 698 519 042 057 662 926 031 879 610 984 189, 13, 1}



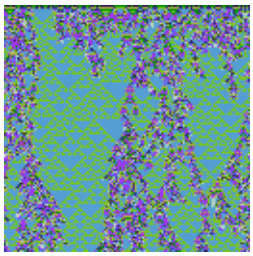
→ $\{3 \to 2.94164 \times 10^{-14}, 4 \to 1.\}$

{41 229 732 773 379 174 038 724 590 567 971 707 895 745, 13, 1}



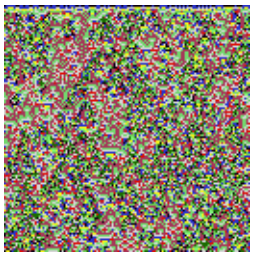
→ {3 → 0.0357819, 4 → 0.964218}

{127 076 921 760 414 224 280 194 599 172 476 295 336 431, 13, 1}



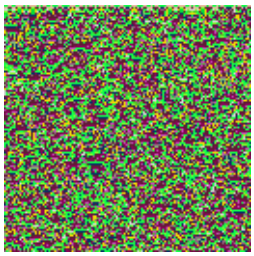
→ $\{3 \to 3.04683 \times 10^{-13}, 4 \to 1.\}$

{29 851 419 122 112 002 352 151 950 452 372 723 929 711, 13, 1}



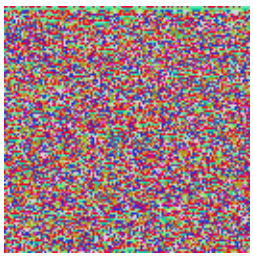
→ {3 → 0.00537911, 4 → 0.994621}

{33 921 248 689 992 807 239 092 916 915 715 834 454 441, 13, 1}



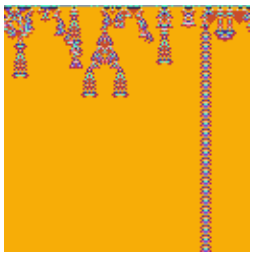
→ {3 → 0.130028, 4 → 0.869972}

{102 743 411 887 555 725 250 116 594 593 609 141 587 730, 13, 1}



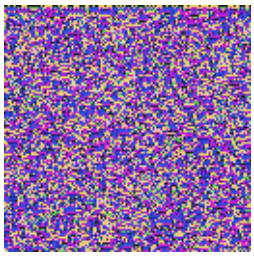
→ {3 → 0.0265208, 4 → 0.973479}

{95 303 205 656 748 805 059 617 567 321 705 581 919 194, 13, 1}



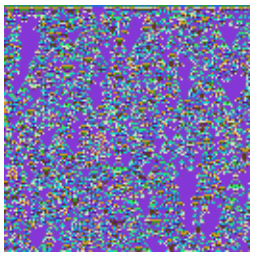
→ $\{2 \to 1.95662 \times 10^{-9}, 4 \to 1.\}$

{90 682 208 904 061 287 593 394 310 102 791 870 737 394, 13, 1}



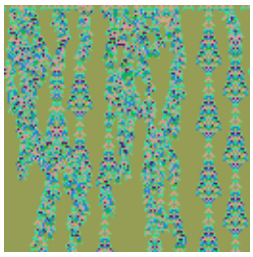
$\to \{3 \to 2.22359 \times 10^{-6}, 4 \to 0.999998\}$

{3 796 545 856 721 010 297 830 039 558 032 337 184 236, 13, 1}



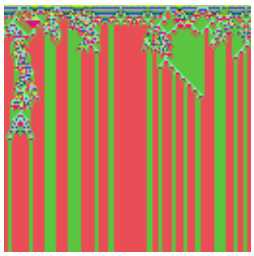
$\to \{3 \to 3.70115 \times 10^{-13}, 4 \to 1.\}$

{23 310 725 303 249 823 392 801 503 042 305 622 331 898, 13, 1}



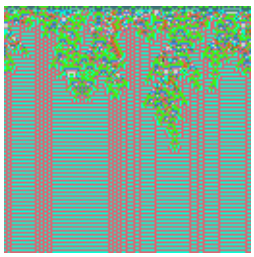
$\to \{2 \to 3.22441 \times 10^{-11}, 4 \to 1.\}$

{80 367 842 742 116 297 714 884 737 503 617 202 997 068, 13, 1}



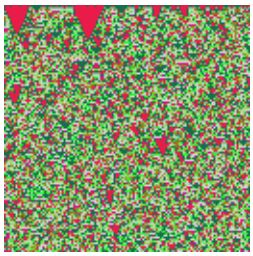
$\to \{2 \to 3.56621 \times 10^{-9}, 4 \to 1.\}$

{107 074 386 974 467 672 936 286 929 353 733 132 601 874, 13, 1}



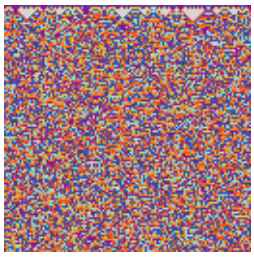
$\to \{3 \to 2.41058 \times 10^{-12}, 4 \to 1.\}$

{102 237 322 322 427 101 673 772 805 946 920 371 321 460, 13, 1}



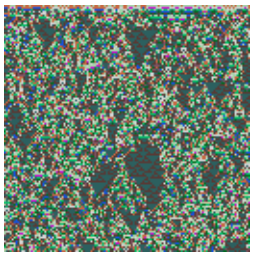
$\to \{3 \to 0.0011502, 4 \to 0.99885\}$

{54 417 355 491 189 803 476 697 480 098 113 843 692 219, 13, 1}



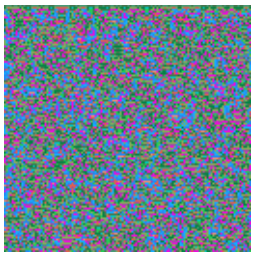
→ {3 → 0.389312, 4 → 0.610688}

{146 187 302 067 787 097 111 670 659 483 192 512 324 102, 13, 1}



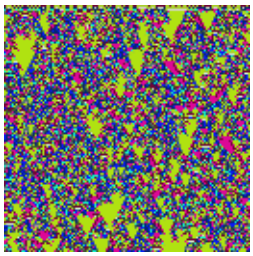
→ {3 → 0.000346863, 4 → 0.999653}

{94 654 883 432 861 963 687 687 683 924 720 008 926 011, 13, 1}



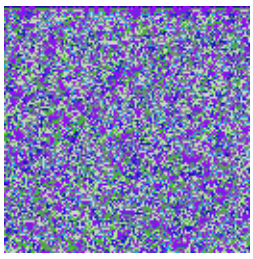
→ {3 → 0.0154102, 4 → 0.98459}

{124 763 925 634 040 701 443 008 170 594 682 882 686 045, 13, 1}



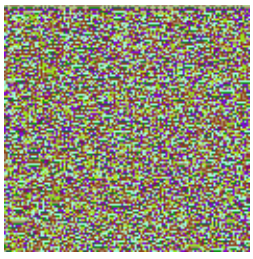
→ $\left\{3 \to 1.59102 \times 10^{-20}, 4 \to 1.\right\}$

{88 663 581 301 291 460 660 543 322 410 966 901 184 388, 13, 1}



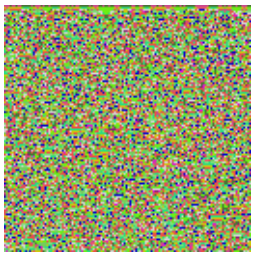
→ {3 → 0.150544, 4 → 0.849456}

{50 239 344 594 284 040 829 771 252 889 905 095 831 358, 13, 1}



→ {3 → 0.0361917, 4 → 0.963808}

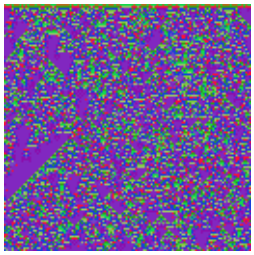
{12 006 150 168 678 012 089 508 765 724 692 312 016 692, 13, 1}



→ {3 → 0.0107139, 4 → 0.989286}

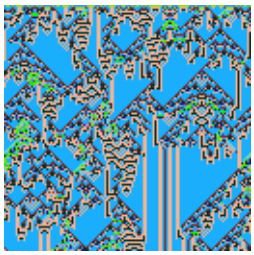
{156 356 731 087 400 307 376 852 342 285 156 468 925 508, 13, 1}

In[5251]:= **HuntCA[1, 13, 200]**



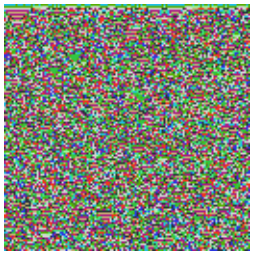
→ $\{3 \to 7.52576 \times 10^{-6}, 4 \to 0.999992\}$

{152 713 903 736 964 182 439 220 485 476 385 439 829 331, 13, 1}



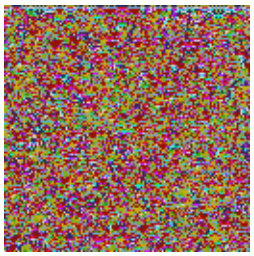
→ $\{3 \to 4.72759 \times 10^{-19}, 4 \to 1.\}$

{9 640 493 843 766 538 210 055 489 285 985 904 689 611, 13, 1}



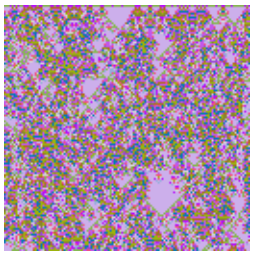
→ {3 → 0.378063, 4 → 0.621937}

{55 251 474 083 283 379 545 529 556 957 059 738 443 819, 13, 1}



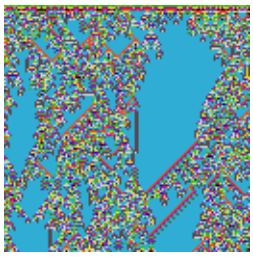
→ {3 → 0.359491, 4 → 0.640509}

{79 871 923 404 081 230 050 581 486 855 030 916 719 594, 13, 1}



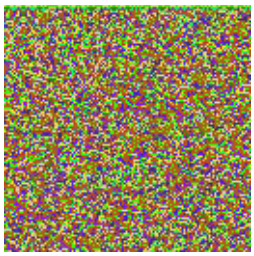
→ $\{3 \to 1.87784 \times 10^{-10}, 4 \to 1.\}$

{40 045 395 620 463 373 582 688 095 865 488 655 467 132, 13, 1}



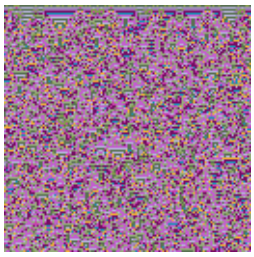
$\to \left\{3 \to 5.23674 \times 10^{-25},\ 4 \to 1.\right\}$

{44 450 771 445 203 147 846 749 581 491 818 292 931 006, 13, 1}



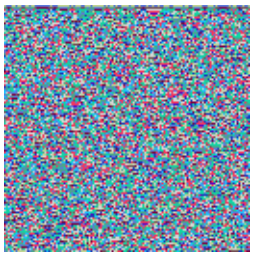
$\to \{3 \to 0.112877,\ 4 \to 0.887123\}$

{158 394 737 167 844 287 992 276 647 712 850 363 720 581, 13, 1}



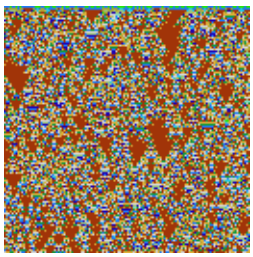
$\to \{3 \to 0.283654,\ 4 \to 0.716346\}$

{134 868 540 673 828 543 726 727 319 574 059 378 492 873, 13, 1}



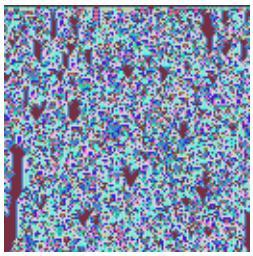
$\to \{3 \to 0.0632966,\ 4 \to 0.936703\}$

{46 148 312 918 893 402 990 665 863 243 839 438 437 488, 13, 1}



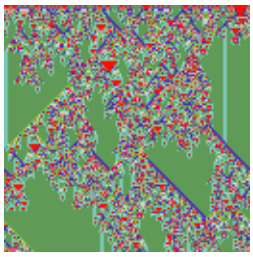
$\to \left\{3 \to 3.72049 \times 10^{-7},\ 4 \to 1.\right\}$

{52 437 200 742 948 966 641 384 573 544 580 747 466 098, 13, 1}



$\to \{3 \to 0.000108677,\ 4 \to 0.999891\}$

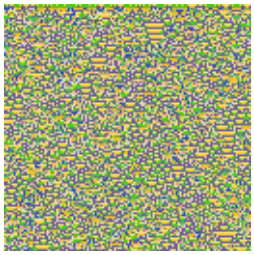
{83 340 758 448 593 173 381 614 182 599 997 152 819 083, 13, 1}



→ $\{3 \to 9.60795 \times 10^{-11}, 4 \to 1.\}$

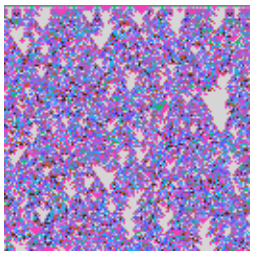
{26 046 329 620 918 624 379 215 969 285 749 564 107 486, 13, 1}

In[5276]:= **HuntCA[1, 13, 200]**



→ $\{3 \to 0.00025522, 4 \to 0.999745\}$

{146 902 749 132 177 566 937 092 906 205 079 055 646 105, 13, 1}

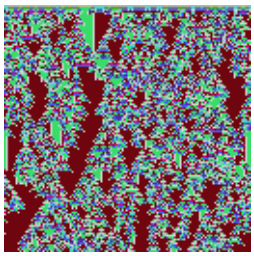


→ $\{3 \to 5.51594 \times 10^{-9}, 4 \to 1.\}$

{44 844 820 314 719 376 799 992 603 164 795 445 525 598, 13, 1}

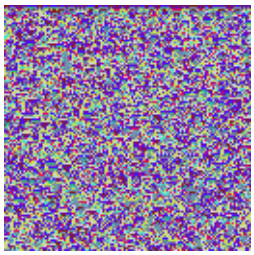
→ $\{3 \to 8.74262 \times 10^{-14}, 4 \to 1.\}$

{159 062 582 833 281 238 234 594 439 977 538 154 454 136, 13, 1}



→ $\{3 \to 3.09989 \times 10^{-31}, 4 \to 1.\}$

{141 693 002 163 799 767 405 445 407 403 691 554 731 014, 13, 1}

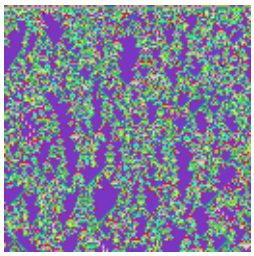


→ $\{3 \to 0.357461, 4 \to 0.642539\}$

{3 284 060 954 439 538 733 005 059 807 693 809 416 576, 13, 1}

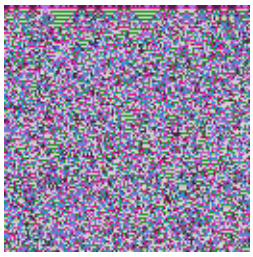
→ {3 → 0.000899003, 4 → 0.999101}

{123 422 490 375 037 455 076 055 255 775 006 820 708 334, 13, 1}



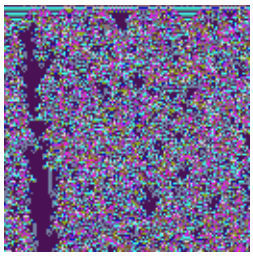
→ $\{3 \to 9.7658 \times 10^{-7}, 4 \to 0.999999\}$

{147 997 799 032 214 588 170 325 786 795 287 997 634 559, 13, 1}



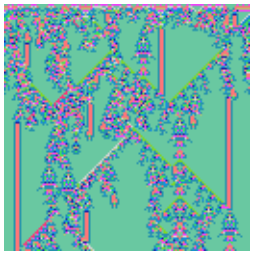
→ {3 → 0.0422285, 4 → 0.957771}

{56 332 914 964 927 402 182 235 611 272 994 295 821 224, 13, 1}



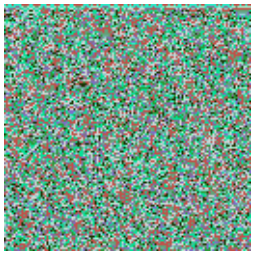
→ $\{3 \to 2.30394 \times 10^{-13}, 4 \to 1.\}$

{98 992 052 129 953 338 767 216 186 534 936 125 134 700, 13, 1}



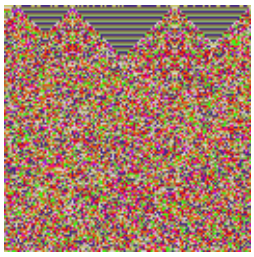
→ $\{3 \to 1.58829 \times 10^{-21}, 4 \to 1.\}$

{26 988 579 987 390 253 364 213 109 395 030 864 144 438, 13, 1}



→ {3 → 0.359151, 4 → 0.640849}

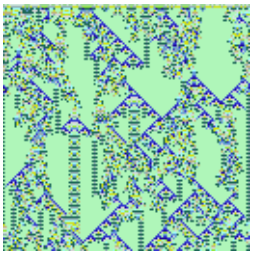
{156 831 879 303 330 360 970 648 560 339 763 188 664 152, 13, 1}



→ {3 → 0.2085, 4 → 0.7915}

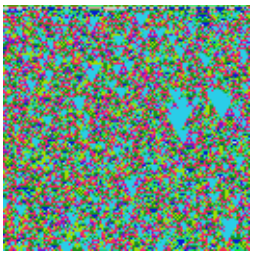
{106 478 817 088 888 946 245 381 957 504 253 393 762 993, 13, 1}

In[5300]:= **HuntCA[1, 14, 200]**



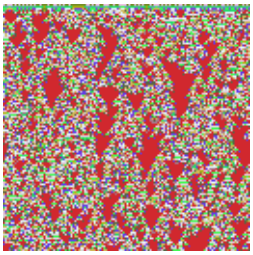
→ $\{3 \to 2.66636 \times 10^{-12}, 4 \to 1.\}$

{1 394 325 240 005 955 012 161 853 184 680 734 010 642 688 333, 14, 1}



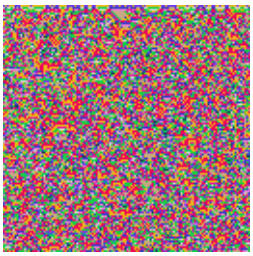
→ {3 → 0.0468394, 4 → 0.953161}

{6 537 071 249 164 321 410 275 529 168 607 566 935 524 605 034, 14, 1}



→ $\{3 \to 2.64142 \times 10^{-18}, 4 \to 1.\}$

{6 469 640 751 541 187 733 794 591 430 969 530 947 874 356 865, 14, 1}

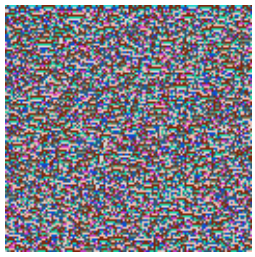


→ {3 → 0.0142411, 4 → 0.985759}

{5 916 922 560 044 891 177 204 316 408 206 599 148 044 031 303, 14, 1}

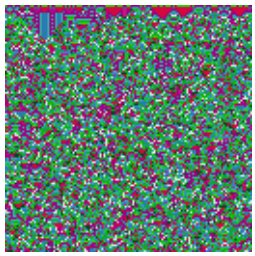
→ {3 → 0.0178049, 4 → 0.982195}

{1 257 875 053 310 544 857 161 908 551 533 555 172 088 518 145, 14, 1}



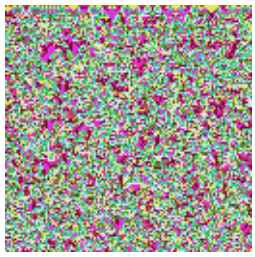
→ {3 → 0.343756, 4 → 0.656244}

{3 293 530 368 003 699 380 663 716 144 713 923 434 932 976 148, 14, 1}



→ {3 → 0.00110336, 4 → 0.998897}

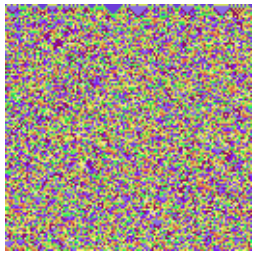
{2 715 440 480 584 698 025 983 381 218 428 104 454 370 554 387, 14, 1}



→ {3 → 0.303392, 4 → 0.696608}

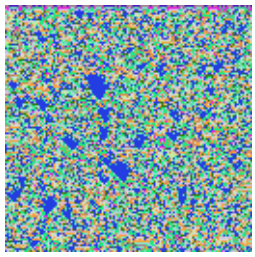
{2 298 742 243 915 377 891 061 698 056 068 394 398 518 085 606, 14, 1}

In[5302]:= **HuntCA[1, 14, 200]**



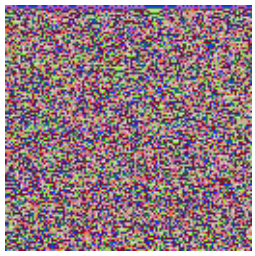
→ {3 → 0.153657, 4 → 0.846343}

{2 339 259 734 739 915 382 998 164 293 672 361 643 059 169 542, 14, 1}



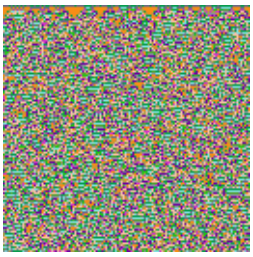
→ $\left\{3 \to 5.96258 \times 10^{-6}, 4 \to 0.999994\right\}$

{1 858 352 849 099 131 439 640 198 791 092 379 634 819 375 353, 14, 1}



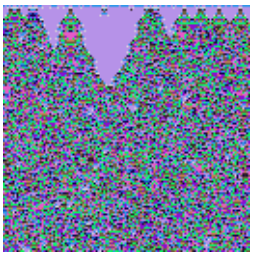
→ {3 → 0.177079, 4 → 0.822921}

{5 390 518 844 131 044 821 788 850 388 781 947 613 939 358 566, 14, 1}



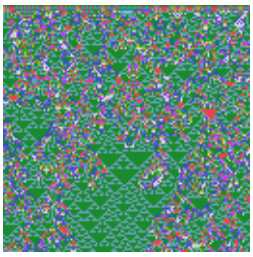
→ {3 → 0.325699, 4 → 0.674301}

{4 156 628 423 066 742 897 036 965 052 949 673 612 294 856 197, 14, 1}



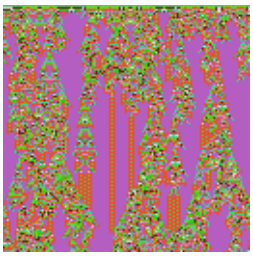
→ $\left\{3 \to 1.09137 \times 10^{-17}, 4 \to 1.\right\}$

{6 683 328 142 252 176 552 168 259 285 992 011 890 026 556 076, 14, 1}



→ {3 → 0.0000281975, 4 → 0.999972}

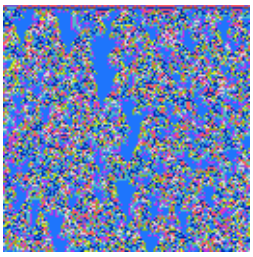
{3 752 610 331 026 283 326 783 388 896 321 662 490 535 140 465, 14, 1}



→ $\left\{2 \to 7.92152 \times 10^{-24}, 4 \to 1.\right\}$

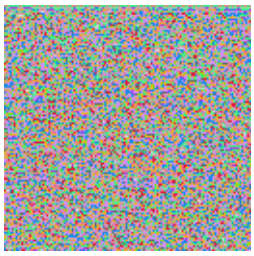
{3 329 347 984 649 734 426 771 198 647 570 565 348 143 518 176, 14, 1}

In[5305]:= **HuntCA[1, 14, 200]**



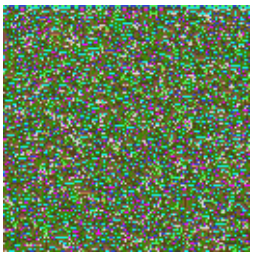
→ $\left\{3 \to 9.9167 \times 10^{-15}, 4 \to 1.\right\}$

{1 955 215 184 181 843 770 368 930 670 556 661 429 991 609 042, 14, 1}



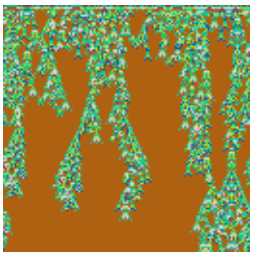
→ {3 → 0.0695533, 4 → 0.930447}

{608 436 913 989 700 292 386 986 000 942 076 746 269 759 077, 14, 1}



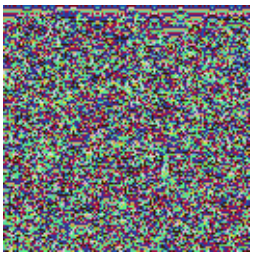
$\to \{3 \to 3.63393 \times 10^{-8}, 4 \to 1.\}$

{3 598 042 074 928 295 717 261 416 308 722 996 835 897 873 209, 14, 1}



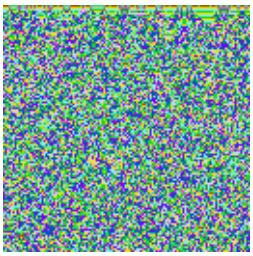
$\to \{2 \to 2.89386 \times 10^{-16}, 4 \to 1.\}$

{5 848 470 572 145 749 559 445 514 788 244 103 796 068 326 065, 14, 1}



$\to \{3 \to 0.171639, 4 \to 0.828361\}$

{4 408 749 272 177 799 553 695 391 876 988 589 564 665 388 996, 14, 1}

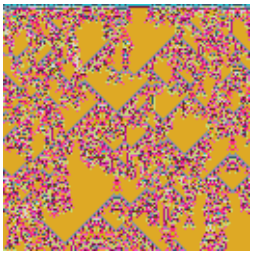


$\to \{3 \to 0.0139893, 4 \to 0.986011\}$

{6 944 806 667 270 388 741 109 881 659 144 628 528 912 798 876, 14, 1}

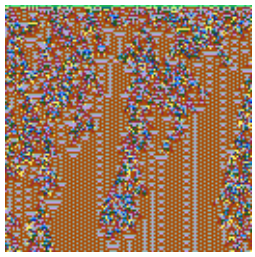
$\to \{3 \to 2.86328 \times 10^{-12}, 4 \to 1.\}$

{4 907 399 734 353 272 848 494 038 254 054 069 571 479 598 881, 14, 1}



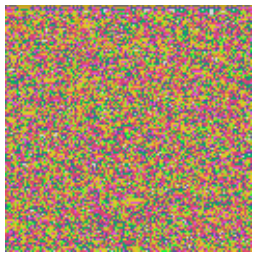
$\to \{3 \to 6.08942 \times 10^{-21}, 4 \to 1.\}$

{4 008 128 104 133 267 804 930 402 085 069 465 413 901 753 866, 14, 1}



→ {3 → 0.0000894243, 4 → 0.999911}

{2 063 850 678 658 703 322 976 745 028 917 188 088 675 076 709, 14, 1}



→ {3 → 0.0133138, 4 → 0.986686}

{4 455 481 489 800 647 145 552 029 344 697 655 932 177 992 914, 14, 1}

→ {3 → 0.252367, 4 → 0.747633}

{3 826 421 174 370 170 746 885 037 701 563 576 053 609 068 403, 14, 1}