<!DOCTYPE html>

<html>

<head>

<title></title>

</head>

<body style="color: rgb(0, 0, 0); background-color: rgb(255, 255, 255);">

<h1>Simulating forest fire spread with cellular automata</h1>

<p style="text-align: justify;">A cellular automaton is a discrete model of computation in which each cell in an array is updated according to a set of rules that take into account the state of neighboring cells. Cellular automata have been used for many purposes, including modeling physical systems and creating art. In this project, we will use cellular automata to model forest fires.</p>

<p style="text-align: justify;">&nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp;GIF1</p>

<p>In our simulation, each cell represents an area of land that can be on fire, not on fire or burned. The states &quot;on fire&quot;, &quot;burned&quot; and &quot;not on fire&quot; are represented by three different colors: red for &quot;on fire&quot;, brown for &quot;burned&quot; and green for &quot;not on fire&quot;. The simulation starts with some areas of land already burning (represented by red cells), and then fire spreads throughout the grid according to specific rules.</p>

</body>

</html>