```
function Morass(X, Y, P) = {
  traverse X and Y using a sliding
    window P.inputWinSize and P.stepSize
  apply P.analyzeWinType
  for each chunk pair (A, B):
    (aF, bF) = (FFT(A), FFT(B))
    aFc = complex_conjugate(aF)
    cross = aFc .* bF
    n = normalize(cross)
      // dividing each matrix cell
      // by its magnitude
    t = IFFT(n)
    c = findCentroid(t, P)
     x = A shifted by c.x and multiplied by
       c.mag * P.ampMod + (1 - P.ampMod)
     apply P.synthesizeWinType for window of size
       inputWinSize * P.synthesizeWinAmt
     add to output buffer
     perform overlap-add
}
```