FIX: BarcodeReader Misses One or More Barcodes on an Image Containing Multiple Adjacent Barcodes

The Atalasoft BarcodeReader can sometimes get "confused" by multiple barcodes which are a bit too close to each other... this can result in missed barcodes on a page even though the barcode images are completely valid and should have read.

Here are two sample methods (meant to be used together) to perform an iterative read:

```
///<summary>
/// The DotImage barcode reading engine may get confused by
multiple barcodes in too-close proximity
/// to each other... this method will use an iterative process to try and
read what it can, then
/// hide the codes it found and re-read to see if more barcodes can be
found...
///
/// It will continue looping until no new barcodes are found.
///</summary>
///<param name="image"></param>
///<param name="options"></param>
///<param name="useThresholding"></param>
///<returns></returns>
privateBarCode[] ReadAllBarcodesFromImage(AtalaImage image, ReadOpts
options, bool useThresholding)
{
 // Doing this ensures we are not modifying the image object that was
passed in
  AtalaImage imgCopy = (AtalaImage)image.Clone();
  List<BarCode> allCodes = newList<BarCode>();
  // the first pass uses an unaltered image so just do that first
  BarCode[] codes = PerformRead(imgCopy, options, useThresholding);
```

```
// Now, we will set up the Canvas which we will "white out" found
barcodes from the previous run
   Canvas c = newCanvas(imgCopy);
  // iterate the results, doing the whilteout.. then try re-reading to see
if we get more results
  while (codes != null && codes.Length > 0)
  {
     foreach (var bc in codes)
    {
       // Ok, we have a barcode... add it to the return list
      allCodes.Add(bc);
       // this code will write out a white rectangle over the location of
the found barcode in the image supplied...
        // that will allow the engine to have a new, fresh view of the
page where the already found codes are not present
      c.DrawRectangle(bc.BoundingRect, newSolidFill(Color.White));
    }
    // once again, we do a read.. if we end up not finding results
we're done
     // if we find any new barcodes, we'll repeat the process, adding
barcodes to the already found ones
     codes = PerformRead(imgCopy, options, useThresholding);
  }
  // this is no longer needed, so clean up after ourselves
  imgCopy.Dispose();
```

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```
return allCodes.ToArray();
}
///<summary>
/// We need this method because even though we're updating the
image directly the engine needs a new, updated copy
///</summary>
///<param name="image"></param>
///<param name="options"></param>
///<param name="useThresholding"></param>
///<returns></returns>
privateBarCode[] PerformRead(AtalaImage image, ReadOpts options, bool
useThresholding)
{
   BarCode[] results = null;
  using (BarCodeReader reader = newBarCodeReader(image,
useThresholding))
  {
    results = reader.ReadBars(options);
 }
  return results;
}
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```

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