## diffDecoder

decodes the previously encoded image.

```
function [ decodedImg ] = diffDecoder( encodedVector, columns )
  encodedVector: nxl vector with the image differential-encoded
   columns: the amount of columns in the original image.
% ouput:
    decodedImg: a NxR image decoded from the encodedVector.
% Reshape the vector into a matrix, so we can do column-wise operations.
encodedImg = reshape(encodedVector, [], columns);
decodedImg = zeros(size(encodedImg));
                                       %Placeholder
for colIndex = 1: columns
                                        %Loop over all columns.
    if colIndex == 1
                                        %Reference value at the start of the rows,
        decodedImg(:, 1) = encodedImg(:,1);
    else
                                        %Take the last value and add the difference
        decodedImg(:, colIndex) = decodedImg(:, colIndex - 1) + encodedImg(:, colI
    end
end
decodedImg = uint8(decodedImg);
                                      %the encodedVector was type 'double' to su
```

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