



Fragment-Based Image Completion

RHODES UNIVERSITY
Where leaders learn



- Project Aim:**
- 1) To develop an automatic image completion plug-in to realistically fill in background regions once portions of an image have been removed
 - 2) Implement this technique as a plug-in for the GNU Image Manipulation Package (GIMP)

Fast Approximation Phase:



Drori, Cohen-Or & Yeshuran (2003)

Source Image



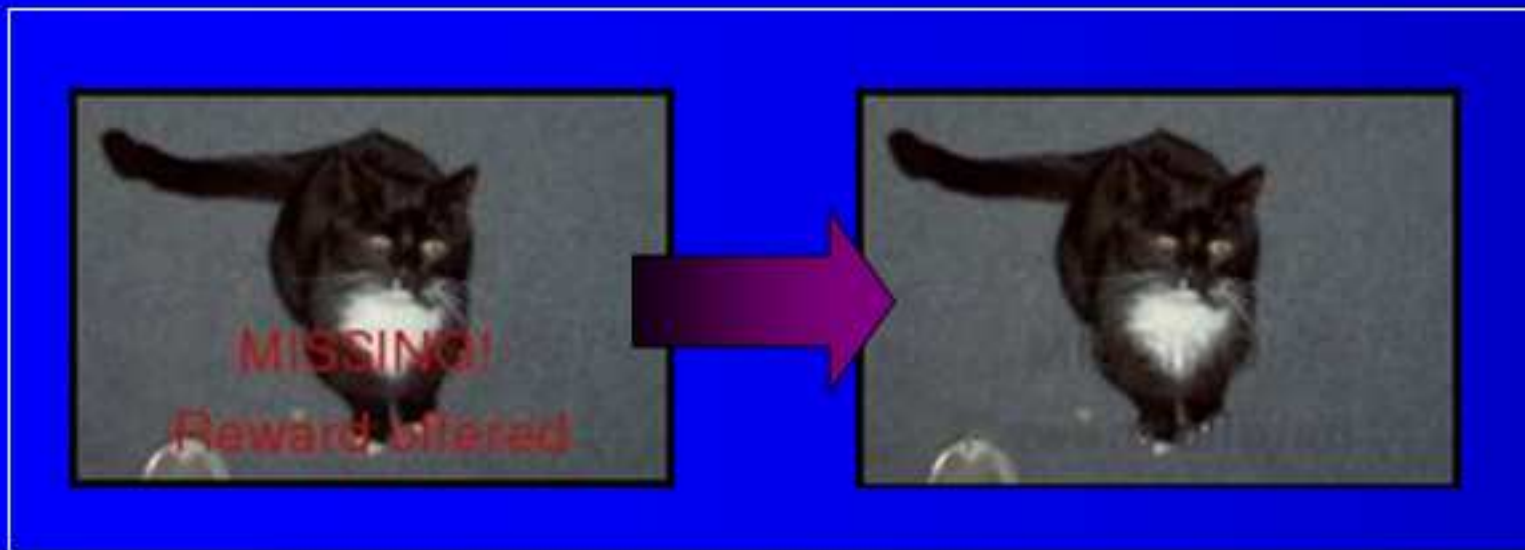
Inverse matte:
specifies regions
to be removed



**Repeated blurring, shrinking and
expanding makes the boundary
colours converge to fill the gap**



**Result: the unknown
region is filled with
approximate colours**

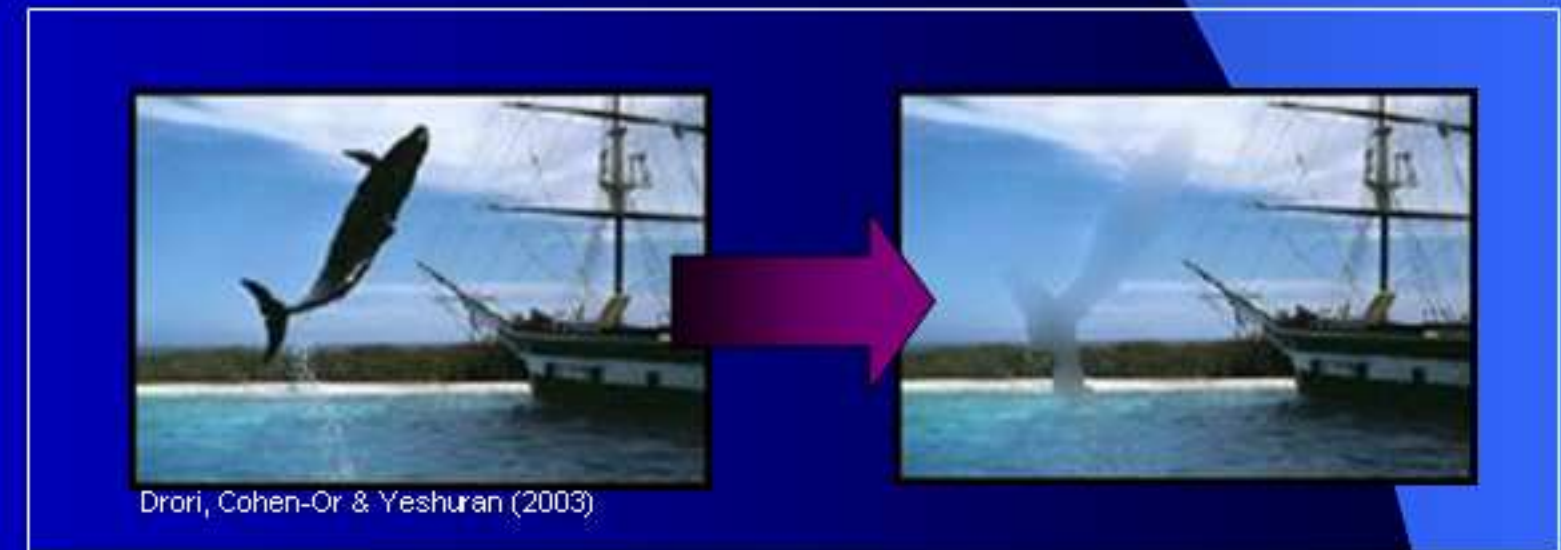


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Drori, Cohen-Or & Yeshuran (2003)

Next Phase:

Use detail from known regions of the image to reproduce realistic texture in the unknown regions.

