Texture Mapping

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Texture Patch

 http://www.mathworks.com/matlabcentral/fileexchange/28106texture-patch

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• Show a 3D triangulated mesh (patch) with a texture

patcht(FF,VV,TF,VT,I,Options);

```
inputs,
```

FF: Face list 3 x N with vertex indices

VV: Vertices 3 x M

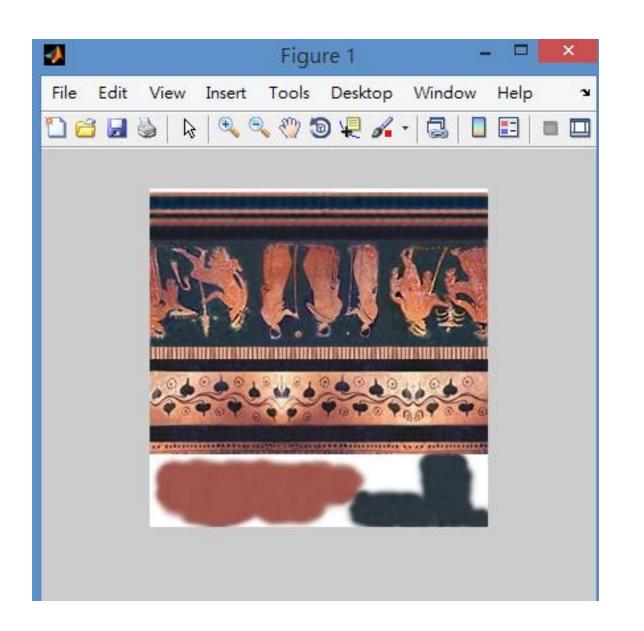
TF: Texture list 3 x N with texture vertex indices

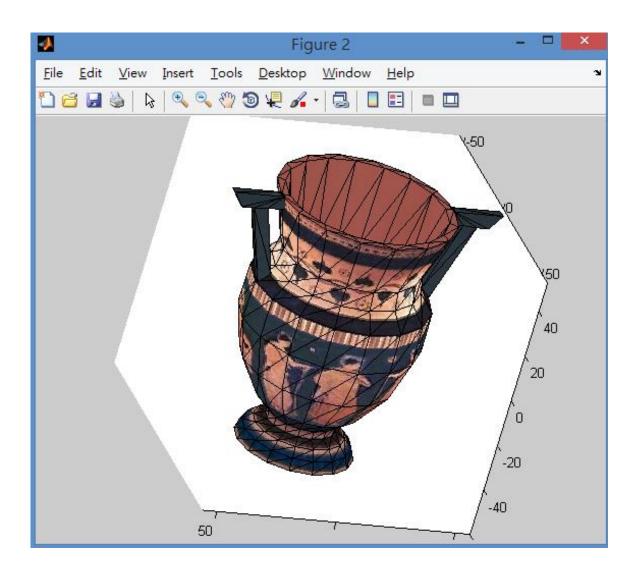
VT : Texture Coordinates s 2 x K, range must be [0..1] or real pixel positions

I: The texture-image RGB [O x P x 3] or Grayscale [O x P]

Options: Structure with options for the textured patch such as EdgeColor, EdgeAlpha see help "Surface Properties::

Functions"





Implement

```
im = imread('woody.png');
[V,F] = load_mesh('woody.obj');
patcht(F,V,F,[max(V(:,2))-V(:,2) V(:,1)],im);
axis equal
```



Expected Function

- resultImage = textureMapping(image ,S ,T)
- image 就一張圖,S和T各是nx6維的陣列,S和T的每一項是三角形三個點的座標(x1,y1,x2,y2,x3,y3)