

## painting and drawing programs

### uses of the brush in UP

- real paint brushes have certain properties, like size, shape, type of bristle
- in a program like UP, the concept of brush can be more general
- a selected area or object can become the "paint" that is applied when you use the brush

### uses of the brush, continued

- you can vary the object painted by the brush using other options in the Brush menu
- by varying the grid specifications via the Grid option in the toolbar you can control the density of the painted objects
- to convert back to a "regular" brush, choose the Brush panel in the tools window and select "Factory Shape"

## outline

- exploring Ultimate Paint (UP)
  - drawing
  - uses of the brush
  - fun filters
- concepts and applications
  - representing colours and images digitally
  - compressing image files
- applying the concepts
  - creating your own filters
  - choosing file formats for saving images

### brush example

- draw a circle
- select the circle using the "cut " option of the toolbar (indicated by a dotted rectangle, lasso or magic wand)
- customize the brush: on the main UP toolbar, choose **Brush -> Get Selection -> No Background**
- choose the dotted freehand brush
- the brush now draws circles!

*(details may vary with different versions)*

## fun filters

- paint programs provide some simple and fun filters to play with, e.g., under "Image" and then "Filter" or "Fun" in Ultimate Paint; use the options in the tools window

## concepts: colour in paint programs

- in UP, colours can be selected from a palette
- alternatively, colours can be specified by selecting the red (r), blue (b), and green (g) intensities
- intensities range from 0 to 255
- this is the same RGB colour coding as used in HTML

## colour intensities

- r, g, b all 0's represents black (no colour)
- r, g, b all 255's represents white
- r, g, b all the same is a shade of grey
- note that red and green make yellow
  - see Figure 1.4, page 9, of text

## references

- freeware version of UP:  
<http://www.ultimatepaint.com/download.php>
- Jemima Periera's color wheel:  
[www.ficml.org/jemimap/style/color/wheel.html](http://www.ficml.org/jemimap/style/color/wheel.html)