Computer Graphics Lab 01-

Gimp Basics

# Reference:

1. <https://www.youtube.com/playlist?list=PLqazFFzUAPc4vITMJaF3Fnqh3pccSMnC4>
2. <https://www.youtube.com/watch?v=EZ31eCNMk8U>
3. <https://www.youtube.com/watch?v=fSxdHrO0zfU>
4. <https://www.youtube.com/watch?v=5mZBK69qDPc>
5. <https://docs.gimp.org/2.10/en/filters.html>

# Tools

**GIMP** image processing tool, an be downloaded from

<https://www.gimp.org/downloads/>

# Labs

| **Lab ID** | 1-1 |
| --- | --- |
| **Goal** | Recognize the main UI of GIMP |
| **Steps** | <https://www.youtube.com/watch?v=F4vf2pIC0q0&list=PLqazFFzUAPc4vITMJaF3Fnqh3pccSMnC4&index=2> |

| **Lab ID** | 1-2 |
| --- | --- |
| **Goal** | Changing Colors |
| **Steps** | <https://www.youtube.com/watch?v=BRH6lNLE2M4&list=PLqazFFzUAPc4vITMJaF3Fnqh3pccSMnC4&index=3> |

| **Lab ID** | 1-3 |
| --- | --- |
| **Goal** | Use selection tools |
| **Steps** | <https://www.youtube.com/watch?v=Z2w_IFU_He4&list=PLqazFFzUAPc4vITMJaF3Fnqh3pccSMnC4&index=6> |

| **Lab ID** | 1-4 |
| --- | --- |
| **Goal** | Use layers |
| **Steps** | <https://www.youtube.com/watch?v=P9NbpqW8m6Y&list=PLqazFFzUAPc4vITMJaF3Fnqh3pccSMnC4&index=7> |

| **Lab ID** | 1-5 |
| --- | --- |
| **Goal** | -Scale and rotate tools in GIMP  - transform tool |
| **Steps** | <https://www.youtube.com/watch?v=ewVUxvTfK9Q&list=PLqazFFzUAPc4vITMJaF3Fnqh3pccSMnC4&index=9>  <https://www.youtube.com/watch?v=mLYbS2GT-xc&list=PLqazFFzUAPc4vITMJaF3Fnqh3pccSMnC4&index=15> |

| **Lab ID** | 1-6 |
| --- | --- |
| **Goal** | Transparency tools |
| **Steps** | <https://www.youtube.com/watch?v=HqOZSkjB0kw&list=PLqazFFzUAPc4vITMJaF3Fnqh3pccSMnC4&index=10> |

| **Lab ID** | 1-7 |
| --- | --- |
| **Goal** | Path tool |
| **Steps** | <https://www.youtube.com/watch?v=8vUAg8WwDXI&list=PLqazFFzUAPc4vITMJaF3Fnqh3pccSMnC4&index=12> |

| **Lab ID** | 1-9 |
| --- | --- |
| **Goal** | Case study of GIMP tools |
| **Steps** | <https://www.youtube.com/watch?v=EZ31eCNMk8U>  **(note:please download used images referenced in the video description)**  Source : Clock : [https://www.pexels.com/photo/antique-...](https://www.youtube.com/redirect?event=video_description&redir_token=QUFFLUhqbjUxNkN1Wmh2TFQyZy1nOXpGRzJwb1EyMGhoQXxBQ3Jtc0tsa2JQNUUyRkh5OUZ6YjZMRnhVWFpVbUp1YlRBbV9FZFVxSWdBYlFVSEw4YzFNNkpTaklTWGF4bTd2VHNQazRMSGVBNFh1VkhfdDFvUUNrQmx1TGRMX3ZrY0dGNWNQRkpyems4X1FWSTVLbW1YOHpzMA&q=https%3A%2F%2Fwww.pexels.com%2Fphoto%2Fantique-architecture-classic-clock-280248%2F)​  Mountains : [https://www.pexels.com/photo/landscap...](https://www.youtube.com/redirect?event=video_description&redir_token=QUFFLUhqbHl3a3RGdnI1bzVfNGVza0kxQkFpWG9LeXYtZ3xBQ3Jtc0ttaGxwdUc5ZEZkYU02RDBOR2RsM2VLQ1RYSnZiZl82MDB3cjVOUHh0NE5zSUpvY2REUFNCZi03bl9jYjQ3RWxVdmlPXzhiQmFBZ0d0OVoyS0lLaG9qbDFCNWhlR3pzOS1RbWxiZ3R3TUlGUk5vOXprMA&q=https%3A%2F%2Fwww.pexels.com%2Fphoto%2Flandscape-photography-of-mountains-covered-in-snow-691668%2F)​  Sea : [https://www.pexels.com/photo/landscap...](https://www.youtube.com/redirect?event=video_description&redir_token=QUFFLUhqbXA0dFdhQThiZFRJYXJrdThmdGJsenJod1JVQXxBQ3Jtc0tuVHZ5cm5ueTBQUGhRSWVjNjNXTTRaZ0I4TzE2T3BVTU1vNWRtLThuLTd0QjhmcmI2N2YyU3RWNmRYNTd4NzdDdVhRSWRNeGxBWXRPQzVLSmhQTEZzdkV2ZzBsZC1GR1c3cGQtSUFDQjh5Q01tM0Jkbw&q=https%3A%2F%2Fwww.pexels.com%2Fphoto%2Flandscape-photograph-of-body-of-water-1001682%2F)​  Clouds : [http://pngimg.com/download/4331](https://www.youtube.com/redirect?event=video_description&redir_token=QUFFLUhqbGRMSHYycm9qY0JLNmdOTzFXLWhqUlJYV0xEZ3xBQ3Jtc0trS2dreENrbnFscGkxREZpWXpGRjlaN2xBbmk2WngyeHZIZDJjTU4wSlQ5SUVyMHFMa2QtOUZjSDVPTktBOGY1TDY0T2tDdDZKS3NVWGVWYXpLS1dsUHhjZ0ZTdEkyUkc5X0tqVlJrUk1vNFpZZDRTbw&q=http%3A%2F%2Fpngimg.com%2Fdownload%2F4331)​  Water Splash : [https://www.dropbox.com/s/2tspqkjyqle...](https://www.youtube.com/redirect?event=video_description&redir_token=QUFFLUhqbk1aMnlQcGg5WlFRaUFqV0I4SUFJSTYxU2g5d3xBQ3Jtc0tuQWJQS1RCcElfczdBdFJfcE13b1p5cmRmSWdibGNtVFVwTFZSSW5oT0Z6b0NFREowU1B1aGIxaXVaN1dORkVRRlNkb0tFS1E5MERxRUdRaVVvOV9yYUltdU9uMzdKSWdIV3BSb2NTWi1nMHhHdnlsaw&q=https%3A%2F%2Fwww.dropbox.com%2Fs%2F2tspqkjyqlexyog%2Fsplash.png%3Fdl%3D0)​ |

| **Lab ID** | 1-10 |
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| **Goal** | Filters in GIMP |
| **Steps** | Glow, Photocopy, and old images  <https://www.youtube.com/watch?v=5mZBK69qDPc>  Blur:  <https://docs.gimp.org/2.10/en/gimp-filter-gaussian-blur.html>  Pixelize  <https://docs.gimp.org/2.10/en/gimp-filter-pixelize.html>  Antialias  <https://docs.gimp.org/2.10/en/gimp-filter-antialias.html>  Sharpen:  <https://docs.gimp.org/2.10/en/gimp-filter-unsharp-mask.html>  Grid  <https://docs.gimp.org/2.10/en/gimp-filter-grid.html>  Web slice  <https://docs.gimp.org/2.10/en/python-fu-slice.html>  Waves  <https://docs.gimp.org/2.10/en/script-fu-waves-anim.html> |