



SNS COLLEGE OF TECHNOLOGY

Coimbatore – 641 029

An Autonomous Institution



DEPARTMENT OF CIVIL ENGINEERING

19CET303 – 3D PRINTING

III YEAR / V SEMESTER

UNIT II :Design Sketching for 3D Printing



Syllabus



**Introduction To
3D Printing**

**Design Sketching
for 3D Printing**

Fusion 360

3D Scanning

**Applications Of
3D Printing**



UNIT II :Design Sketching for 3D Printing



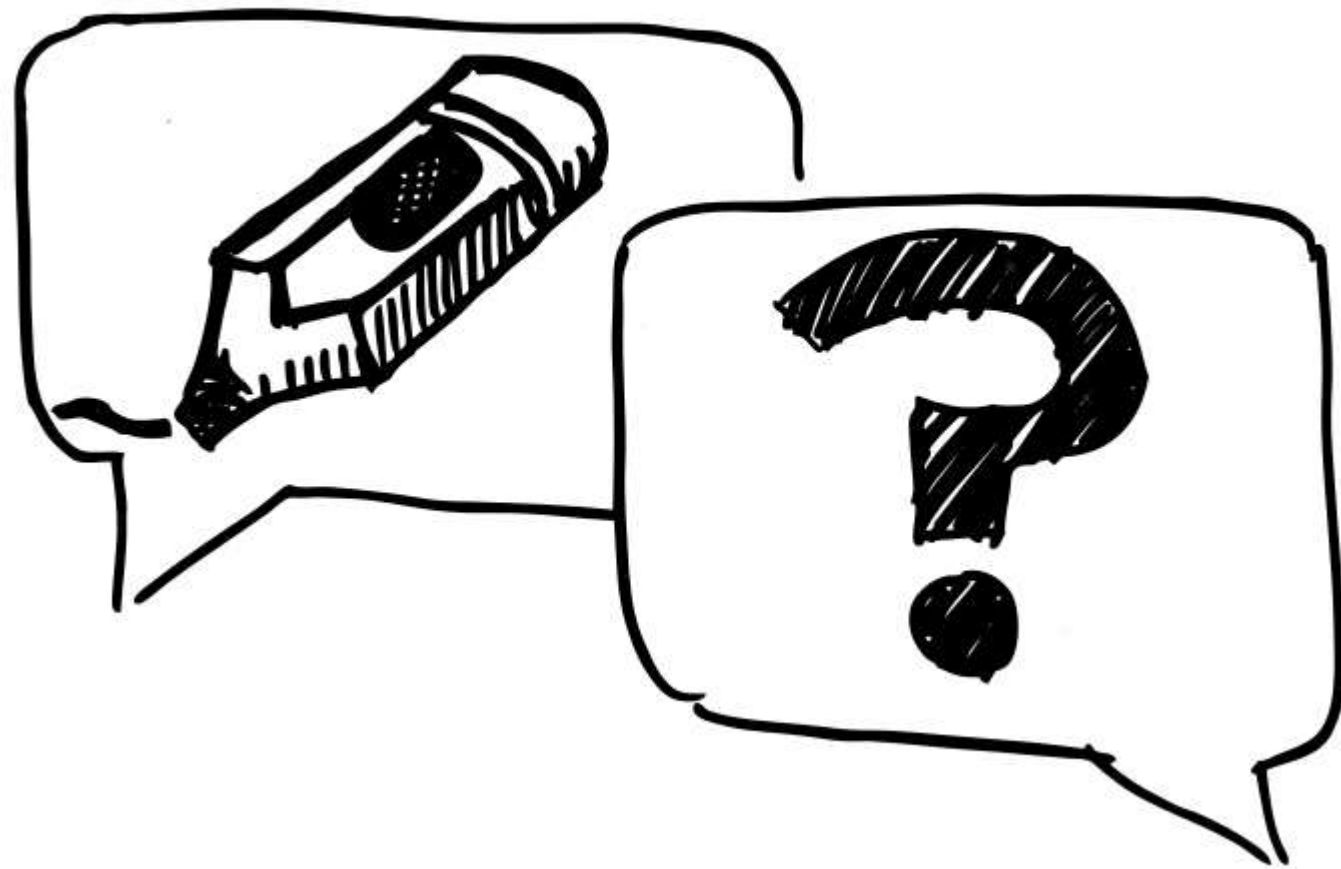
1. Introduction to Sketching – Importance of sketching
2. Sketchbook basics - Tools in sketch book
3. Drawing lines and shapes in Sketchbook
4. Tinkercad – Tools in tinkercard
5. 3D Modeling using Tinkercad
6. Working demonstration.



SKETCHING



WHAT IS A SKETCH?



- ✓ a rough drawing representing the chief features of an object or scene and often made as a preliminary study.
- ✓ a tentative draft
- ✓ a brief description or outline.



Why do we sketch?



TO THINK



TO DOCUMENT



TO EXPERIMENT

WHY WE SKETCH



TO EXPLAIN +
COMMUNICATE



TO FIND THE
RIGHT DESIGN



IMPORTANCE OF SKETCHING



Rapid Concept Development

Basic Composition or Layout

Client Communication and Approval

Visual Exploration

Refining Visual Solutions

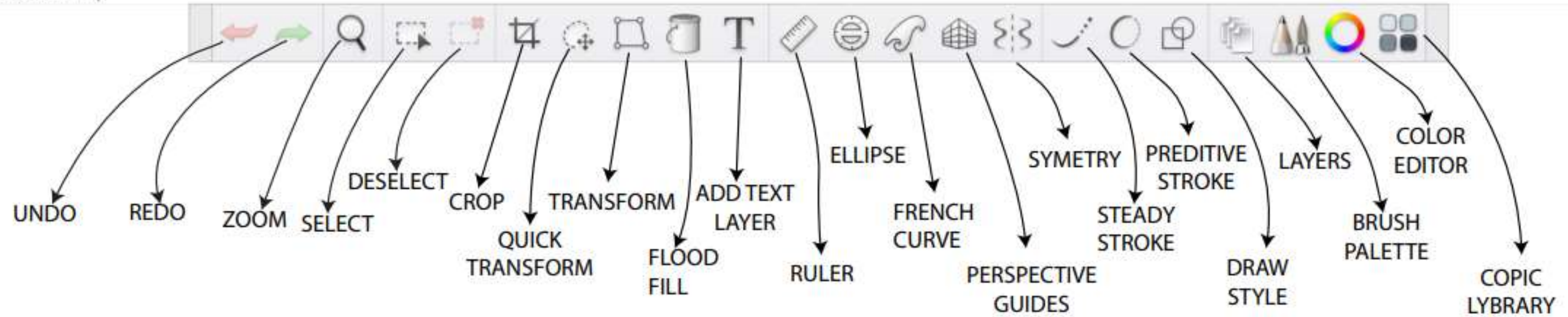
**SAVES
TIME**



SKETCHBOOK BASICS

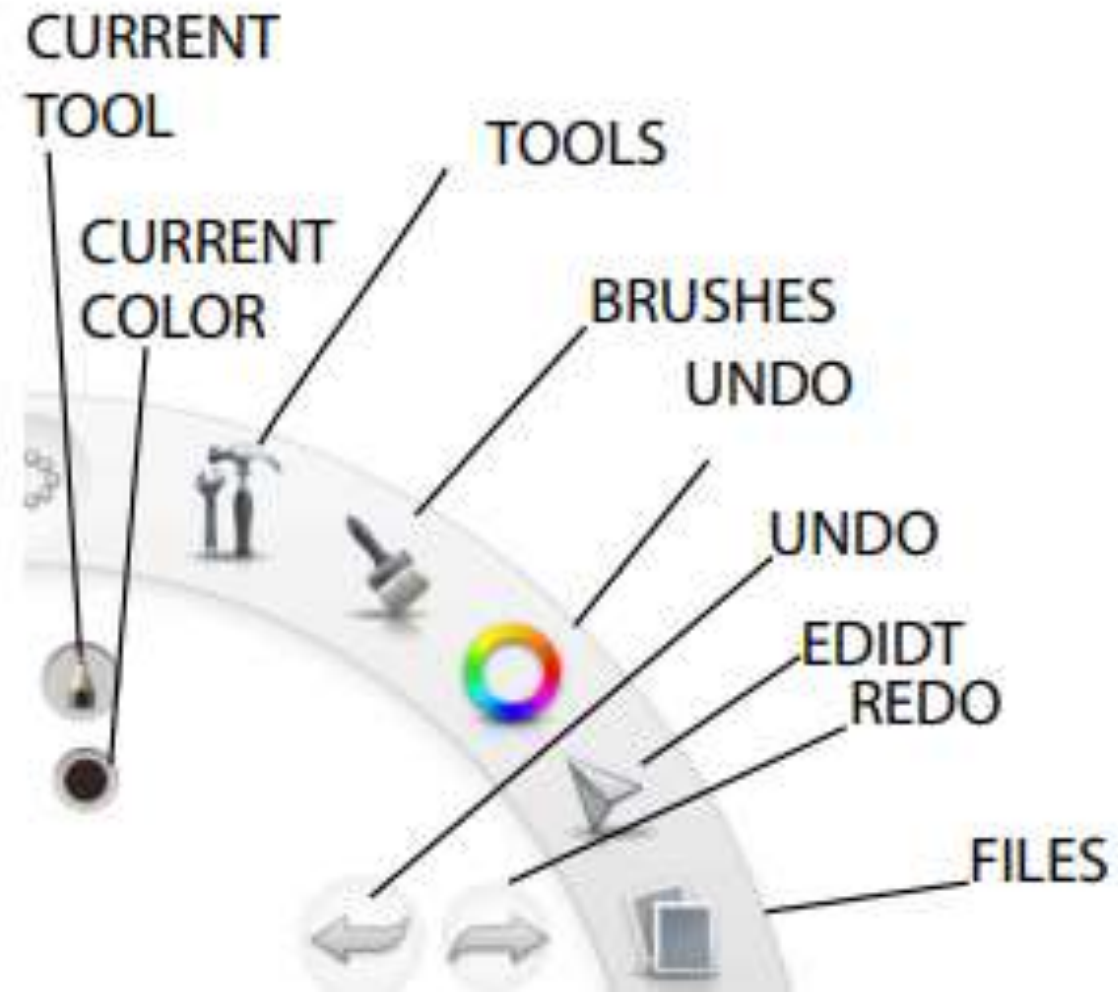


Autodesk SketchBook - Untitled @ 100.0% - Pro Subscription
File Edit Image Window My Account Help





SKETCHBOOK BASICS

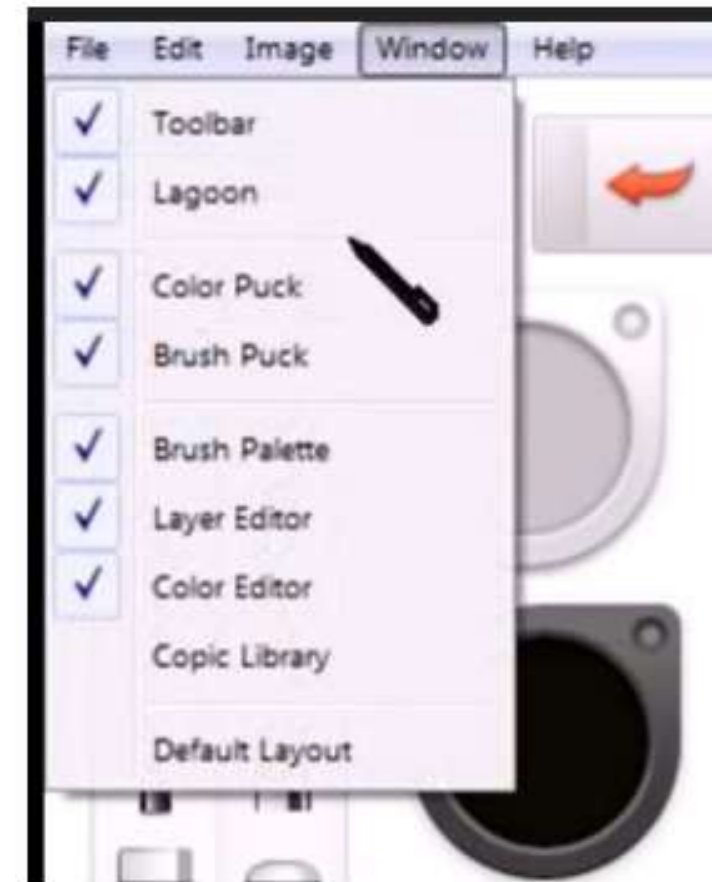
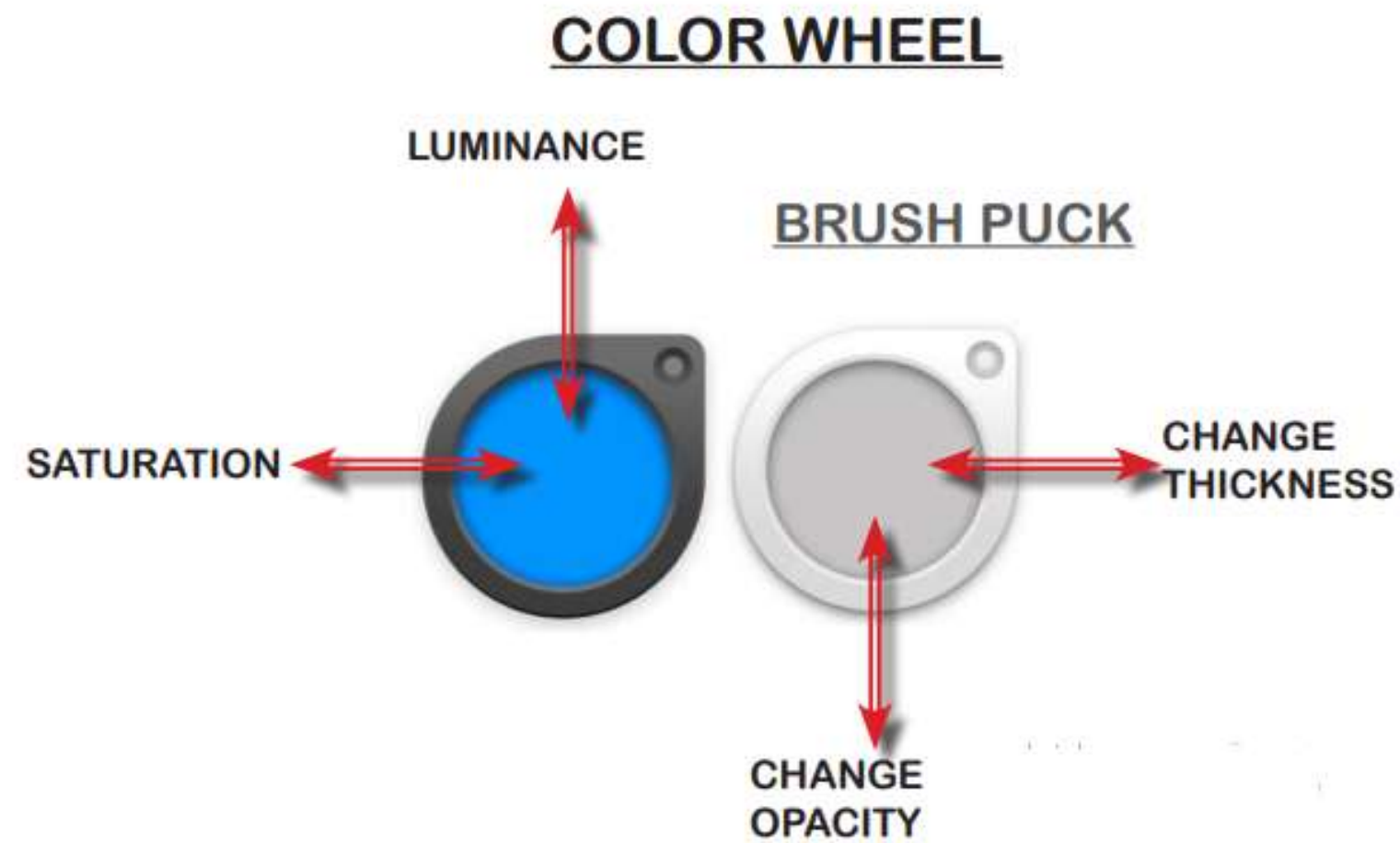


LAGOON





SKETCHBOOK BASICS





1. **Brush Puck** - Use it to change brush opacity and size without having to open **Brush Properties**

- In the menu bar along the top, select **Window > Brush Puck**.
- To close the puck, tap the circle at the top right of it.

Changing brush opacity with the Brush Puck

Use the **O** key to change the amount of paint applied by a brush. Tap a brush, then press-hold the **O** key, as you drag up to increase a brush's opacity or down to decrease it.

Resizing a brush with the Brush Puck

To access the puck if not visible, select **Window > Brush Puck**. Hold down the **B** key or tap while in the puck and drag to the right to increase a brush's size or left to decrease it.

To change brush size and opacity with the puck, in **Edit > Preferences > Brush**, select **Change both brush size and opacity** and tap **OK**.

