



Queensland Architecture in Miniature

Developed by Michelle Brown, 2023



State Library
of Queensland



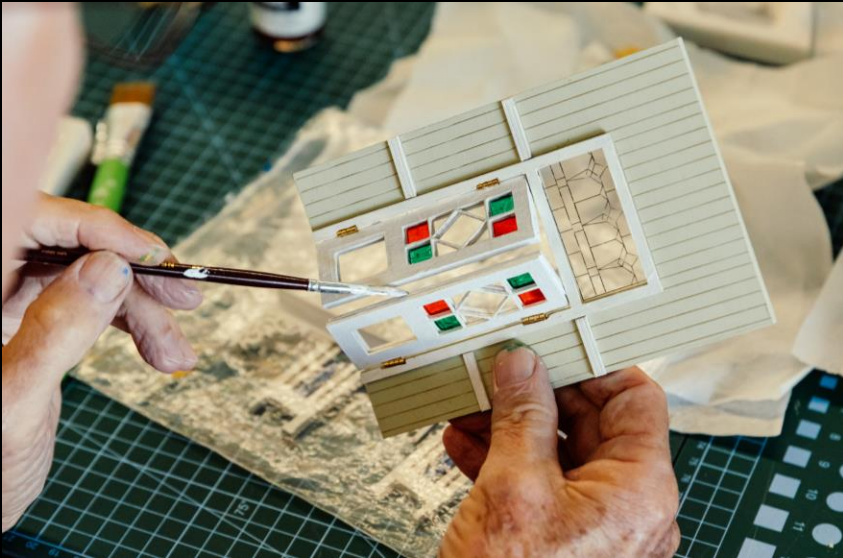
Queensland
Government



Acknowledgement of Country

We acknowledge Aboriginal and Torres Strait Islander peoples and their continuing connection to land and as custodians of stories for millennia. We respectfully acknowledge the land on which we all meet today, and pay our respects to elders past, present and emerging.

WORKSHOP SUMMARY



Fretwork, breezeblocks, casement windows, VJ walls and hardwood floors; there's a lot to love about Queensland architecture.

Join us as we dive into State Library of Queensland's collections and bring to life the rich histories of the houses around us through digital fabrication techniques such as laser cutting and engraving and create a miniature piece of QLD architecture with our book nook design.

This journey will see you:

- getting inspired by Queensland architecture through the enormous wealth of the collections here at State Library of Queensland.
- learning to create vector files suitable for the laser cutter in free and open-source software (Inkscape).
- completing a laser cutter induction, so you can come back and make more!
- laser cutting your files
- assembling some of your creation

Session 1

- Research
- Introduction to Inkscape
- File setup
- Design

Session 2

- Laser demo
- Laser induction
- Design
- Cutting

Session 3

- Laser cutting
- Choosing colour, prepping and painting
- Stain glass window design and cutting

Session 4

- Painting
- Assembly
- All finishings

SESSION OVERVIEW

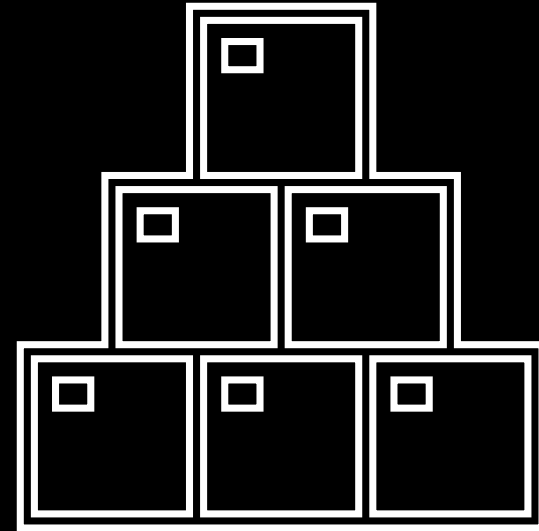


TOOLS

- Small brushes
- Palettes (painting)
- Bags for sorting pieces
- Pipettes (glue/paint)
- Skewers (gluing/painting)
- Tweezers
- Masking tape
- Exacto knives
- Computers running Inkscape
- USB sticks
- Laser Cutter
- Inkscape design software

Cutting Materials (per participant)

- An A2 sheet 4mm plywood (outer Nook)
- An A4 sheet 0.5mm thick craft card (optional)
- An A4 sheet 1.5 to 2mm ply (building up rails, doors and for breezeways)
- An A5 sheet 0.7mm PETG film or 1.5mm acrylic (windows and door panes)
- Tacky craft glue / UHU or Gorilla glue
- Gouache paint
- Watercolour paint
- Acrylic paint colours
- Acrylic medium (gloss and matte)
- Sharpies or other coloured pens (for stained-glass painting)



MATERIALS

HEALTH & SAFETY



For all workshops at The Edge we like to familiarise participants with:

- Exit points
- Lab Risk Assessments
- Laser safe operating procedure (SOP)
- Any other SOP

SESSION ONE



Session Overview

Welcome

- Check in and get set up on a computer
- Why did you sign up? what are you hoping to get out of this series?
- SLQ account logins

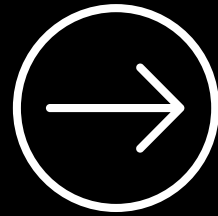
Overview of workshop

- Be inspired by State Library's collections and research and reference resources.
- Learn the basics of Inkscape and vector design.
- Choose from our templates or start to create your own designs for a heritage archway, back window casement, stained-glass window, swinging door casements and the fretwork breezeway.

End goals of session

- An idea for the final design of your book nook
- A basic understanding of using Inkscape to edit our template files and design our own items
- Started on the design for your individual design pieces

LET'S GET
STARTED

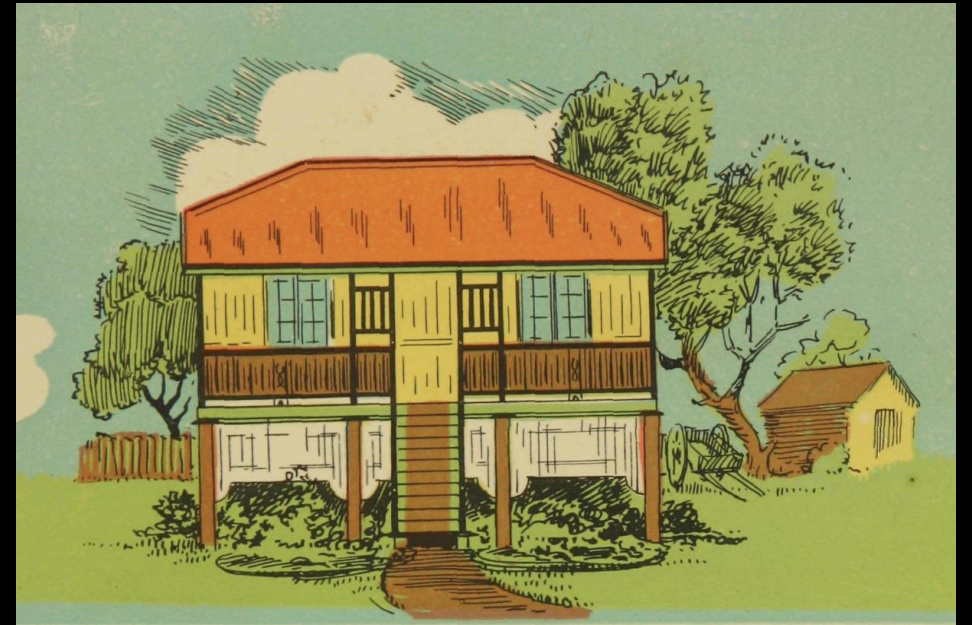


One Search

The John Oxley Library holds a vast collection of drawings, manuscripts, design plans, house plans, building designs and related materials with links to built heritage and architecture in Queensland. View a selection of them with digitised drawings, images and digital stories with architects as they talk about their work.



LINK



STATE
LIBRARY
COLLECTIONS

RESEARCH AND DESIGN

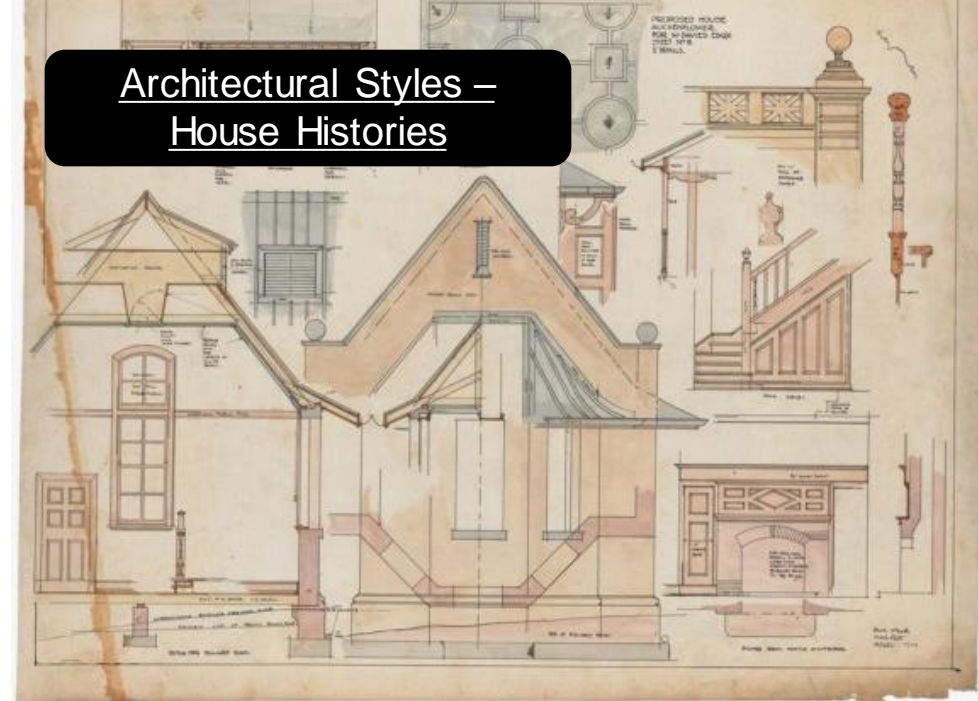
What defines a Queenslander?

Wikipedia - *'The quintessential Queenslander is a single detached house made of timber with a corrugated iron roof located on a separate block of land.[1] They are all high-set, single-storey dwellings with a characteristic veranda that extends around the house to varying extents but never entirely surrounds it. In later years, many have been renovated to enclose part or all of these verandas to create extra bedrooms. The under-house area is often also enclosed to provide extra living area to these houses, which leads to the common misconception that an authentic Queenslander has two storeys.'* [https://en.wikipedia.org/wiki/Queenslander_\(architecture\)](https://en.wikipedia.org/wiki/Queenslander_(architecture))

Built Heritage Collection



Architectural Styles –
House Histories



Corley Explorer





ARCHITECTURAL FEATURES

Let's get familiar with some of the terms used to describe internal architecture, with some specific references to Queenslander style.

- Fretwork
- Picture Rails
- Dado/Belt Rails
- Wainscoting
- Ironwork
- Breezeways
- Hall arches
- Architraves
- Cornices
- Skirting boards

Checkout some of these links for more info and inspiration;

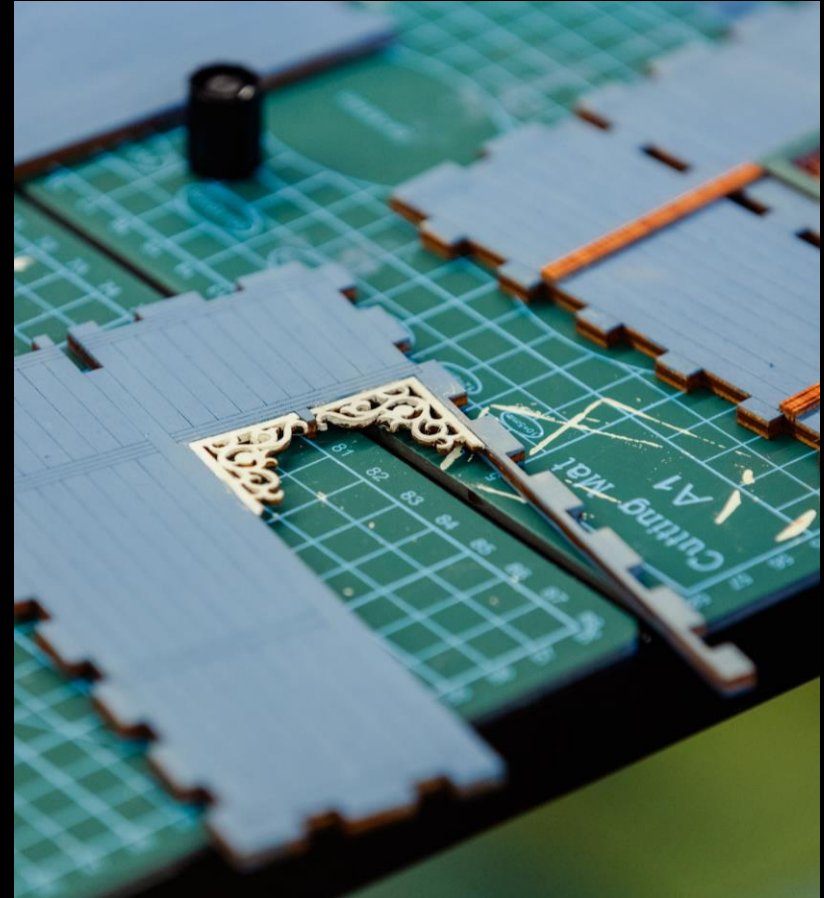
[House Histories](#)

[Catalogues of Queenslanders 1920-1930](#)

[Federation Homes website](#)

[Renovating Queenslander blog](#)

[Our Pinterest board](#)



FURTHER LINKS








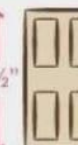
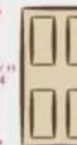


MINIATURE SCALE

Miniature scale varies, there are several standard sizes and you can buy or create items to suit the different sizing.

Standardized sizes for modern dollhouses include 1:6, 1:12, 1:16, 1:24, and 1:48, while antique houses are often a custom size.

Book nooks exist on any kind of scale, but most are on a scale of 1:24 or close to. Our Queenslander book nooks are close to 1:24, more like 1:23 scale, which means we can find designs or buy items at that scale for our nook.

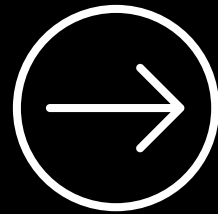
What Furniture Scale is Right for My Dollhouse?

scale	1:6	1:12	1:16	1:24	1:48
measurement equivalent	1" miniature size = 6" life size	1" miniature size = 12" or 1ft life size	1" miniature size = 16" life size or 3/4" = 1ft	1" miniature size = 24" life size or 1" = 2ft	1" miniature size = 48" life size or 1" = 4ft
typical chair size*	6" 	3" 	2 1/4" 	1 1/2" 	3/4" 
door size*	15" 	7 1/2" 	5 1/2" 	3 3/4" 	1 7/8" 
notable dollhouse	Barbie®	Queen Mary's & referenced in Gulliver's Travels	WWII Era & Petite Princess	Playmobil® & 3D Puzzle Houses	S or O Railroad Scale
* measurements are approximate	scales available at... 				



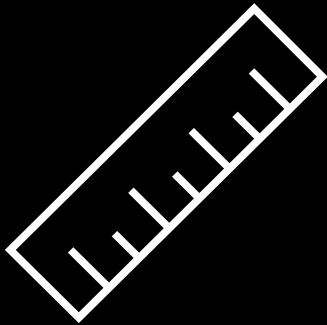
[Image reference link](#)

THE BASICS OF VECTOR DESIGN



Inkscape 101

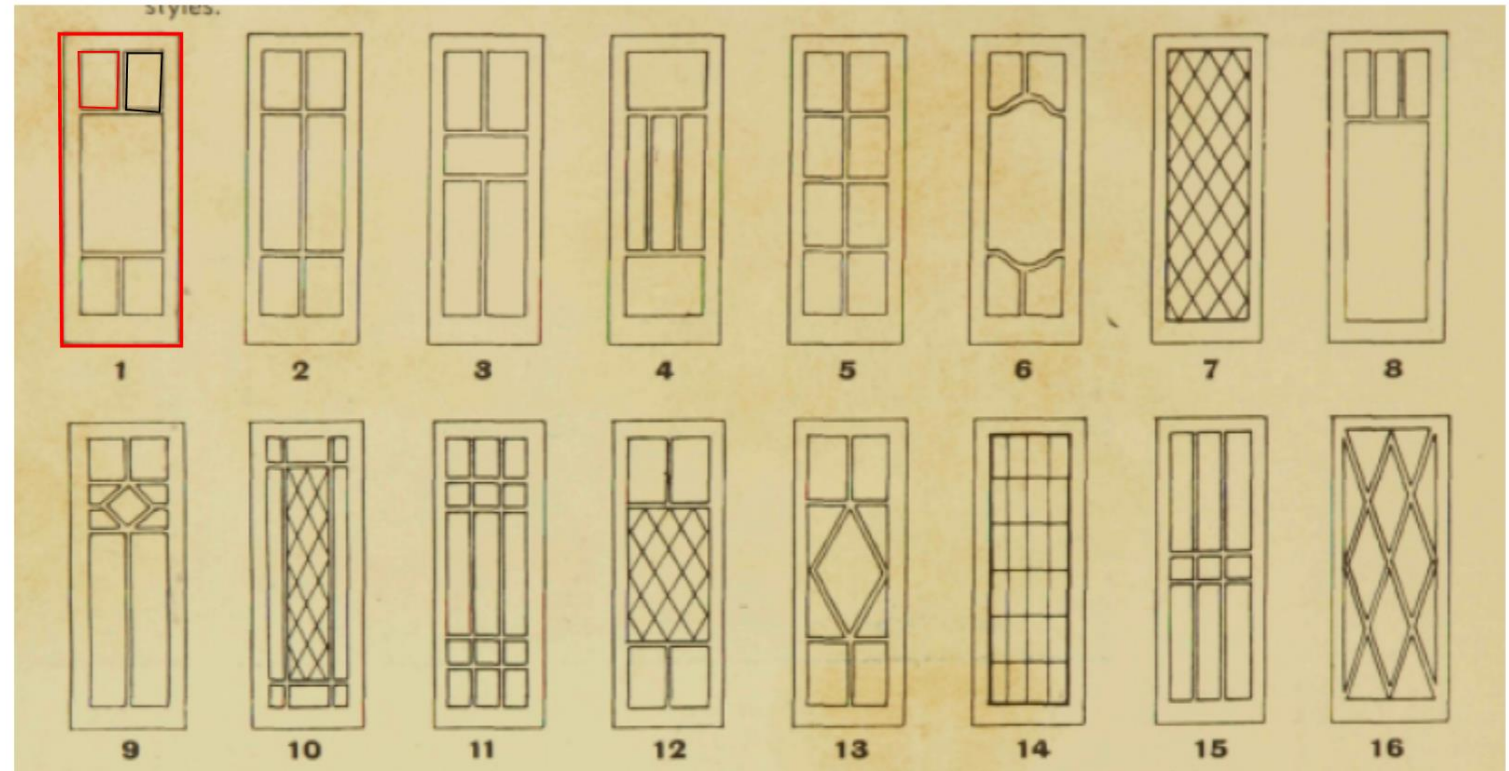
INKSCAPE TIPS



- Most important - check the size of your document and make sure you are working in A2 landscape and millimeters
- Remember to group and ungroup as needed
- Keeping your 'parts' assigned to different layers can help
- Naming your layers will help keep you organised

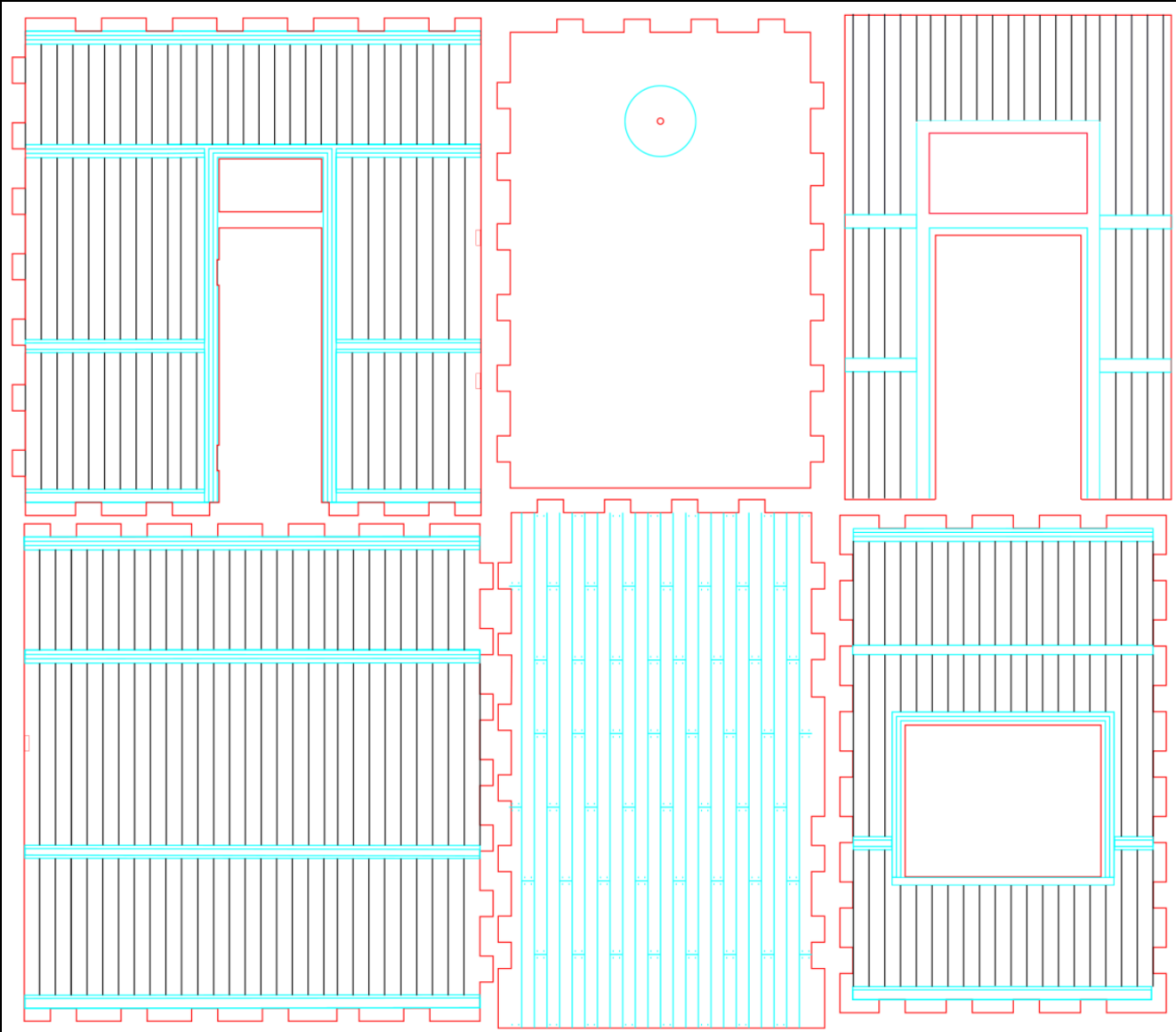
CREATING VECTORS

We're going to screenshot an image of the designs from the 99 Everyday homes catalogue, like these casement windows, to trace with our pen and shape tools to practice creating vector designs.



NOOK DESIGN TEMPLATES

We provide you with a pre-cut design for your nook. If you feel you have the skills and ambition between sessions you can alter the design to be a different, however you may need to come to The Edge outside of the workshop sessions to test cutting after you complete the laser induction. Staff are here to help during Open lab.



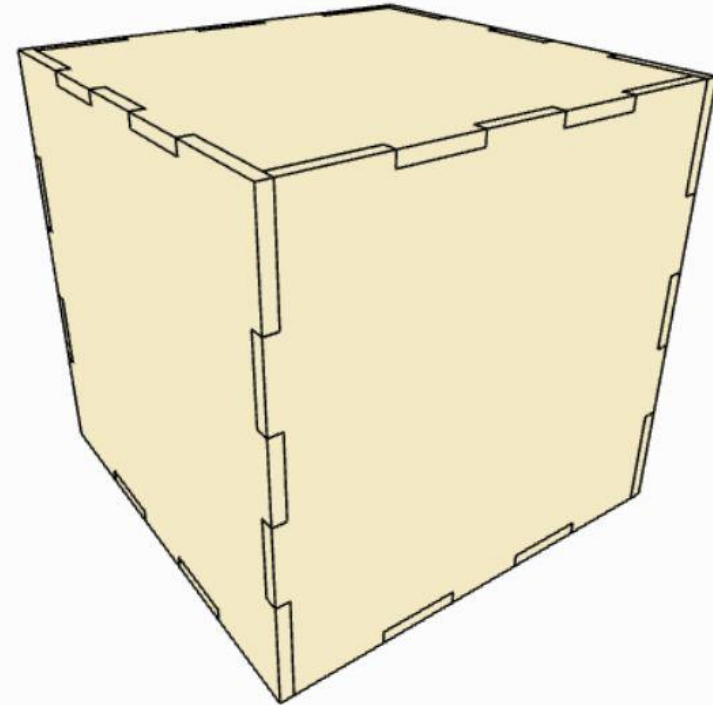
BOX TEMPLATES

Many users of the laser cutters use box making programs that are free and available online.

Examples include:

<https://www.festi.info/boxes.py/>

<https://www.makercase.com/#/>





CHOOSING OUR ACCENT DESIGNS

- Hall archway
- Breezeway
- Door paneling
- Stained glass window
- Window casements

HOMEWORK

Download Inkscape and practice! Grab the files from the Wiki and have a play around.

Next session we'll undertake a laser induction and can test cut any of the files you create between sessions.



SESSION TWO



Session Overview

Welcome

- Check in and get set up on a computer
- Why did you sign up? what are you hoping to get out of this series?
- SLQ account logins

Overview of workshop

- Laser cutter demonstration
- Laser cutter induction
- Continue working on vector designs, start cutting any of your own designs

End goals of session

- Completed a laser induction with the ability to book and use the lasers at The Edge
- Chosen or completed the design elements for your nook

SESSION THREE



Session Overview

Welcome

- Check in and get set up on a computer
- Why did you sign up? what are you hoping to get out of this series?
- SLQ account logins

Overview of workshop

- Laser cutting
- Choosing colour, prepping and painting
- Stain glass window design and cutting

End goals of session

- Have all your components cut
- Colours decided and painting underway, hopefully getting one coat finalised during the session

SESSION FOUR



Session Overview

Welcome

- Check in and get set up on a computer
- Why did you sign up? what are you hoping to get out of this series?
- SLQ account logins

Overview of workshop

- Painting
- Assembly
- All finishings

End goals of session

- Your Queenslander book nook finished!
- Some furniture and accessories assembled for the nook
- 3D printer induction if time permits

THANKS FOR
ATTENDING

Please complete our survey that
will be sent out via Eventbrite.

Contact us on
appliedcreativity@slq.qld.gov.au





**Queensland
Government**

slq.qld.gov.au