

OVERVIEW

- 1. Joinery Construction Process**
- 2. Considerations in Selecting a Joint**
- 3. Glue and Adhesives**
- 4. Joint Reinforcements**
- 5. Wood Movement**
- 6. Survey of Joinery**
- 7. The Project**

Joinery Construction Process

- 1. Select Joint**
- 2. Select Tools/Method**
- 3. Prepare Stock**
- 4. Cut & Fit**
- 5. Assembly**
- 6. Repair Mistakes**

Considerations in Selecting a Joint

- **The Application**
- **Design Aesthetics**
- **Ease of Construction**
- **Tools Available**
- **Skill Level**

Glue and Adhesives

Glue Surface Area

- Large is Better
- End vs. Long Grain

Glue Types & Selection

Discuss Characteristics

Joint Reinforcements

Used when inadequate glue surface exists or extra strength required

- **Nails/Brads**
- **Screws**
- **Bolts & Nuts**
- **Splines/Keys**
- **Dowels**
- **Biscuits**
- **Metal Brackets**

Wood Movement

- **Caused by Changes in Moisture**
- **Proportional to Wood Size**
- **Double Cross-Grain vs. With Grain**
- **Problems for Cross-Grain Joinery**
- **Dealing with Movement**

Survey of Joinery

Review SketchUp Models

These are Representative Samples

Many Orientations and Variations Possible

The Project

- **Review Project Design**
- **Introduction to Tools**

Now Build it!