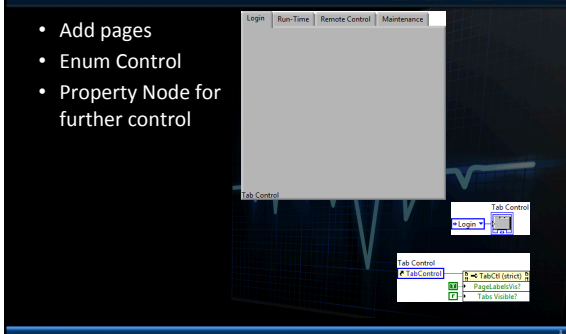# Virtuel Instrumenation: LabVIEW Introduction 7

Esben Søvsø Szocska Hansen, MSc
Email: esben@mr.au.dk, Tlf.: +45 222384018
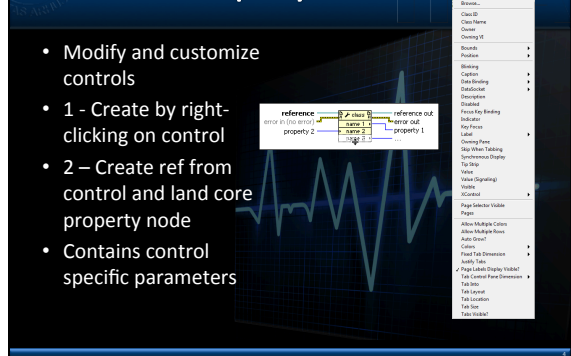
Useful tools and structures in LabVIEW

Tab Control

- Add pages
- Enum Control
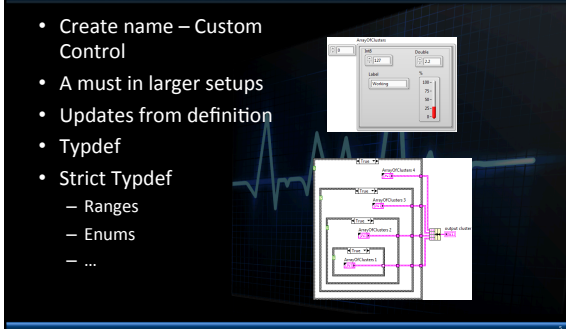- Property Node for further control

Property Node

- Modify and customize controls
- 1 - Create by right-clicking on control
- 2 – Create ref from control and land core property node
- Contains control specific parameters

Typ Def

- Create name – Custom Control
- A must in larger setups
- Updates from definition
- Typdef
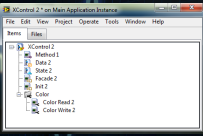- Strict Typdef
  - Ranges
  - Enums
  - …

7.1– Tablet Machine

- 7.1.1 – Tablet Custom Control
- 7.1.2 – Tablet Machine
- *7.1.3 – Temperature alert and date alert

XControl

- Used for design of more complex custom control
- Dynamic run-time and edit-time behavior
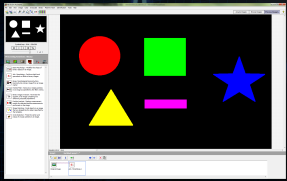- Script like control and indicator

7.2– XControl

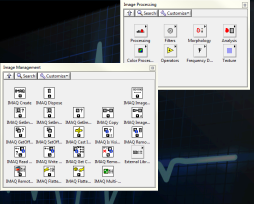- 7.2.1 – Xcontrol – Temperature to Pressure modification

NI Vision Assistant

- Rapid prototyping of vision control systems and image processing
- Easy to implement
- Script to LabVIEW VI compiler

NI IMAQ toolbox

- Adv. functions for image processing and vision systems
- LabVIEW memory
  - Use error wire to control processing steps
  - Input image will be replaced in processing steps unless else stated

7.3– IMAQ

- 7.3.1 – Tablet Example One
- 7.3.2 – Tablet Example Two