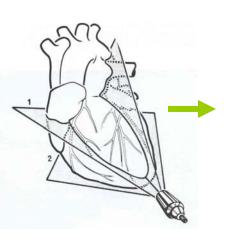
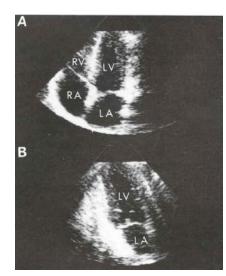
Introduction

- Echocardiography: common diagnostic modality for assessing the structure and function of the heart
 - Inexpensive
 - Non-invasive
 - Widely used
- Imaging the heart in several different planes (Views)
- Consists of chronological order of video segments of views
- We focus on: Trans-Thoracic Echo (TTE)



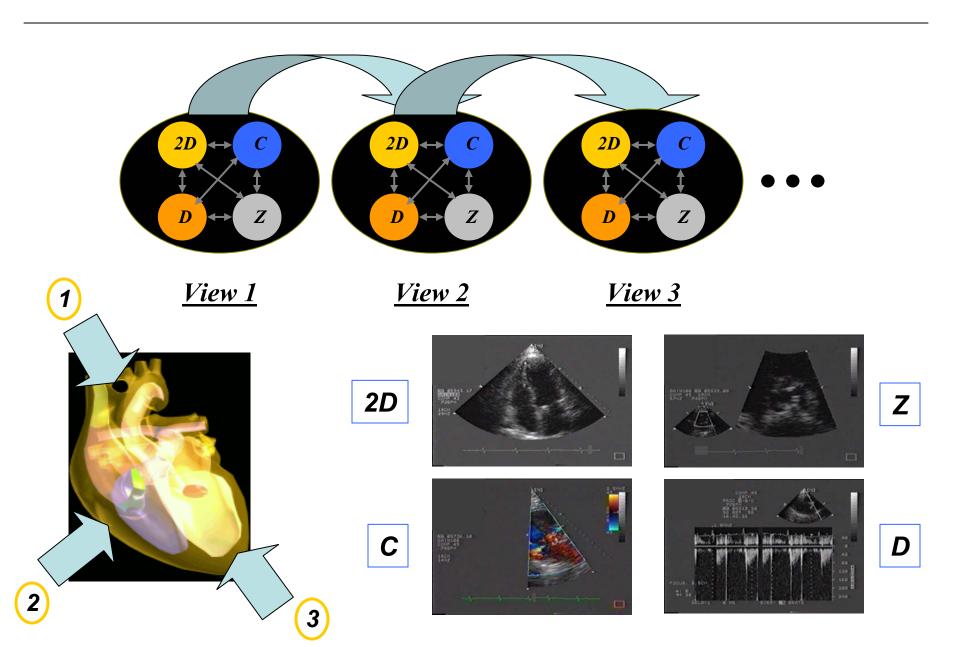
Acquisition Procedure





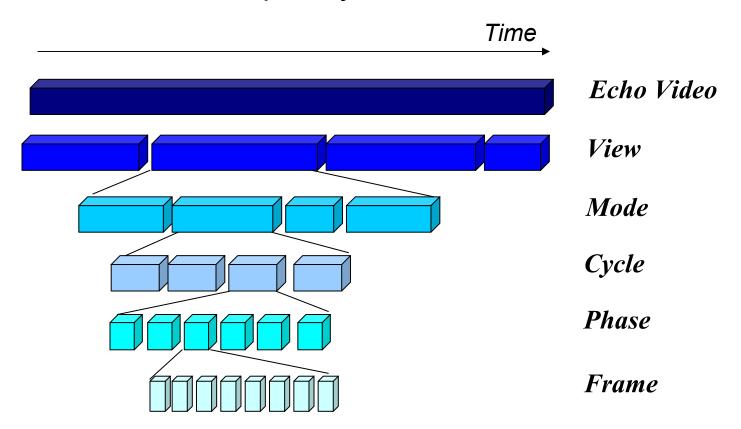
Views

Production Model of Echo



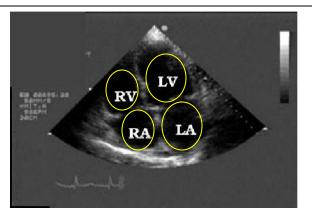
Temporal Structure of Echo

- Echocardiogram video is well structured in time
- Is consisted of conceptually well-defined units

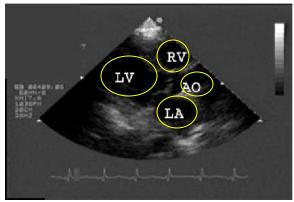


Spatial Structure of Echo

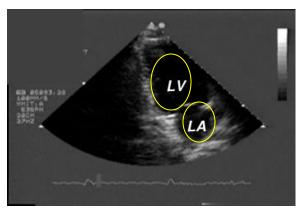
- Well defined spatial structure in the different views
- Think of heart in each view as an object consisted of certain sub-parts (chambers)
- Spatial arrangement of subparts are unique to the view
- Different views have partial structural overlap



A4C



PLA



A2C