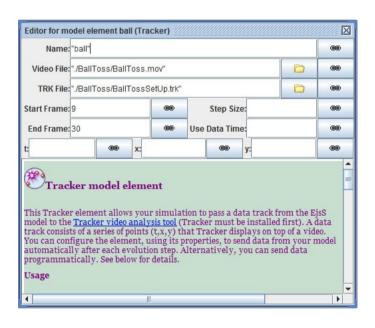


Sending EjsS data to Tracker



- In EjsS: Tracker element
- In Tracker: data track (automatic)

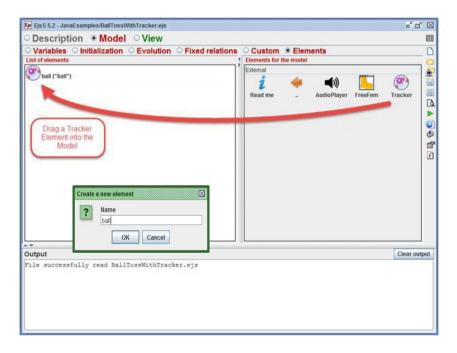
Useful resources:

Tracker Help: data track

EjsS example: Ball Toss with Tracker



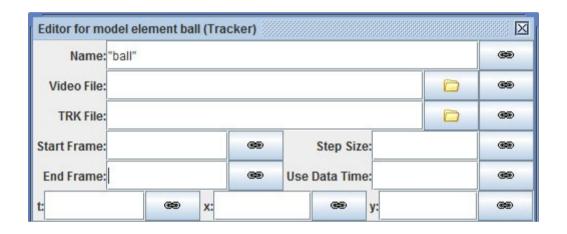
Create Tracker Element in EjsS



- Model Elements page
- External models
- Drag icon to create element
- Assign a name to the element—in this case "ball"



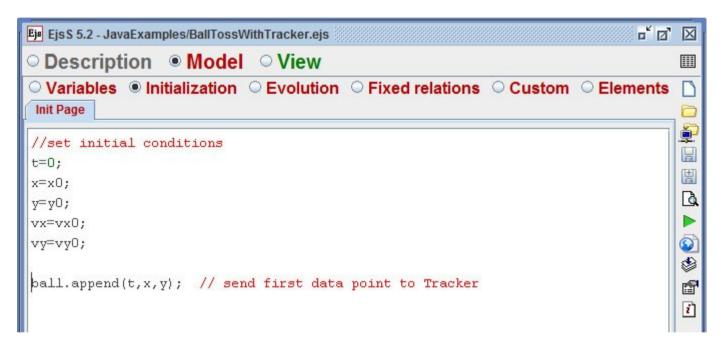
Enter a name for the data track



- Dbl-click the element to open property editor
- Name must be in quotes—here "ball"
- Name is assigned to the data track in Tracker
- Name may be same as element name
- Other properties will be set later



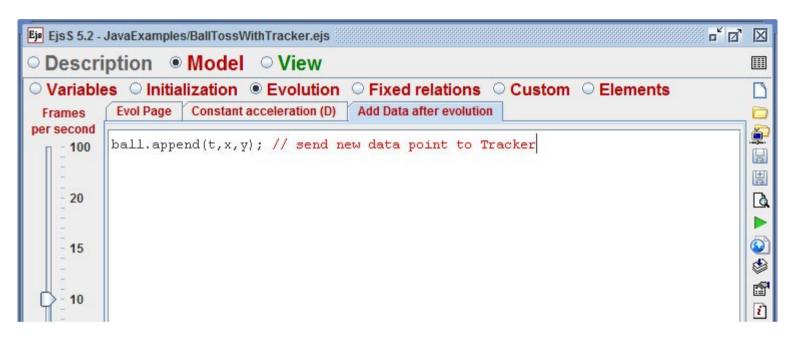
Append initial data to element



- · Click to add new page in Initialization if needed
- Call method append(t, x, y) on element "ball"



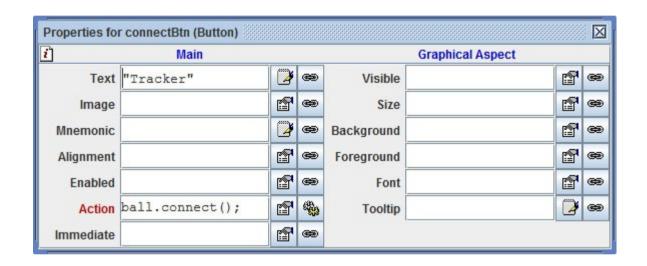
Append data to element after ODE step



Right-click to add new page in Model/Evolution Call method append(t, x, y) on element "ball"



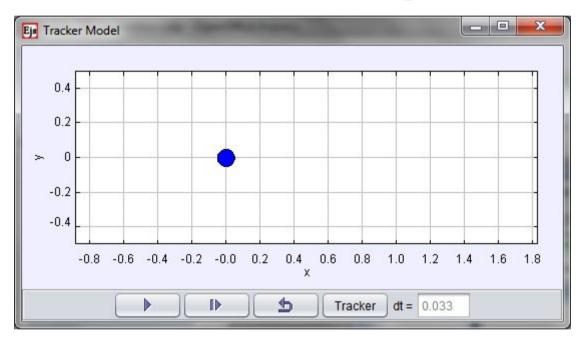
Add button to connect to Tracker



- · Create button in View page by dragging to a panel
- Dbl-click button to open property editor
- Button Text must be in quotes
- Button Action is connect() method
- Call connect() method on element "ball"



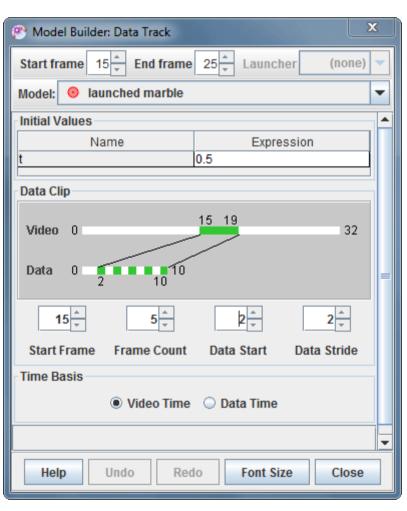
Initial testing



- Connect button should create a data track in Tracker
- Step forward button should append data
- Play button should append more data
- Reset button should reset data track



Data track settings



- Video start frame
- Frame count
- Data start index
- Data stride
- Time basis
- Set in model builder



Comparing data tracks with videos

- Video Calibrate scale
 - Set origin, adjust angle
 - Set clip start to first frame of interest
 - Set frame rate or frame dt
 - Set other clip properties if desired

Track • Set properties in model builder

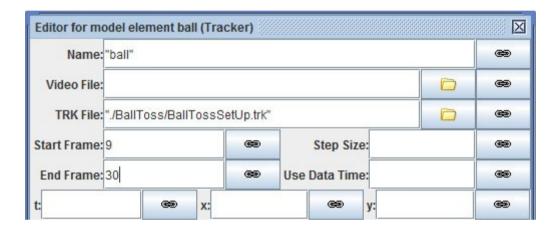


Saving video settings in TRK file

- Delete the data track before saving
- Save TRK file with same or similar name to EjsS model/element
- Undo in Tracker to restore data track if desired



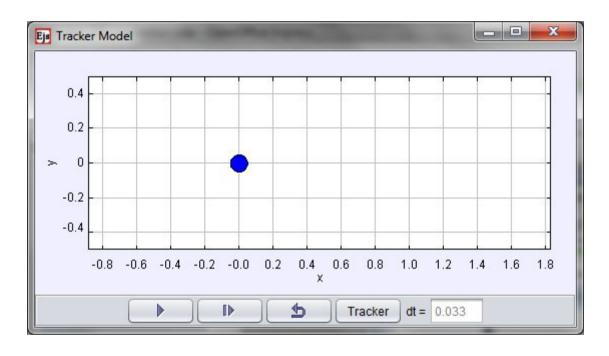
Using TRK and video in EjsS tracker element



- Copy both TRK file and video to EjsS source folder
- Check that copied TRK opens video
- Open tracker element in EjsS
- Use "open" button to set TRK file path
- Copy data track settings to EjsS element
- · No need to enter video file path when using TRK



Final testing



- Connect button should open the calibrated video and create the data track
- Other buttons as before