

The background features a faint, stylized illustration of a robotic arm on the left, reaching towards a stack of blocks. The blocks are numbered 1, 2, and 3, and some have text like 'HELLO' and 'WORLD'. The ROS logo is visible in the bottom left corner. The text 'Week1.1' is prominently displayed on the left side of the slide.

Week1.1

Finding out what's  
happening -  
ROS Nodes

# ROS Nodes – Inspection commands

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Setup ROS Environment in a new terminal

```
source <path_to_ROS_workspace>/devel/setup.bash
```

- Several ways to proceed forward

List currently running nodes on the terminal

```
roscall list
```

Visual representation of the ROS “node graph”

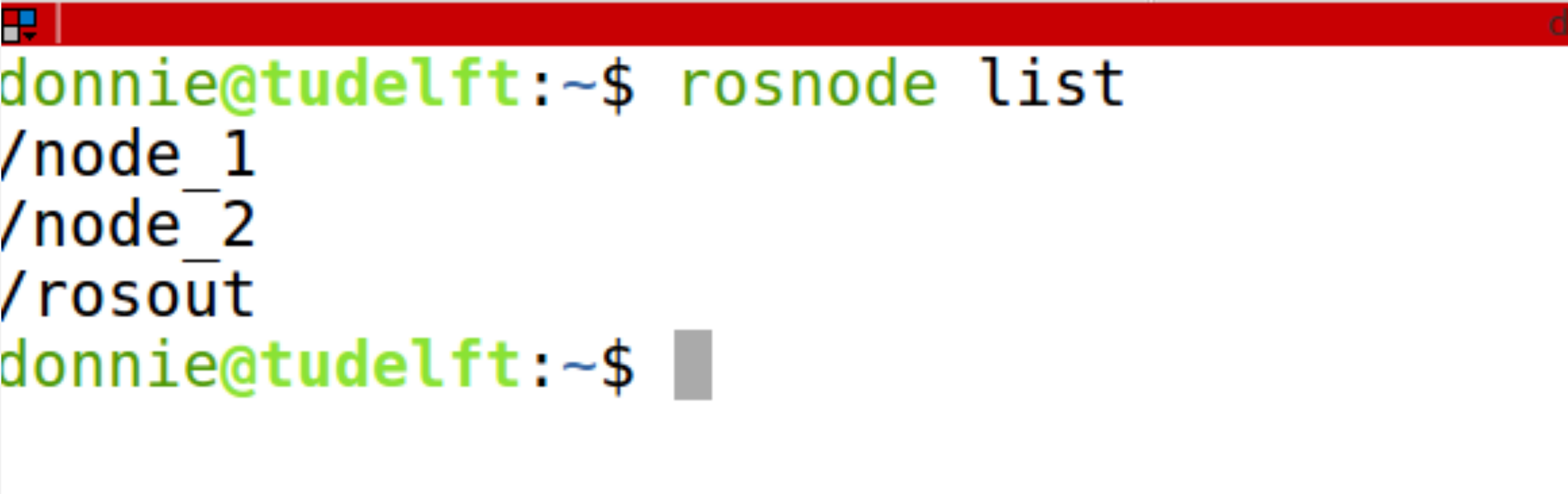
```
rqt_graph
```

Node specific information on the terminal

```
roscall info <node_name>
```

# Command - rosnode list

---

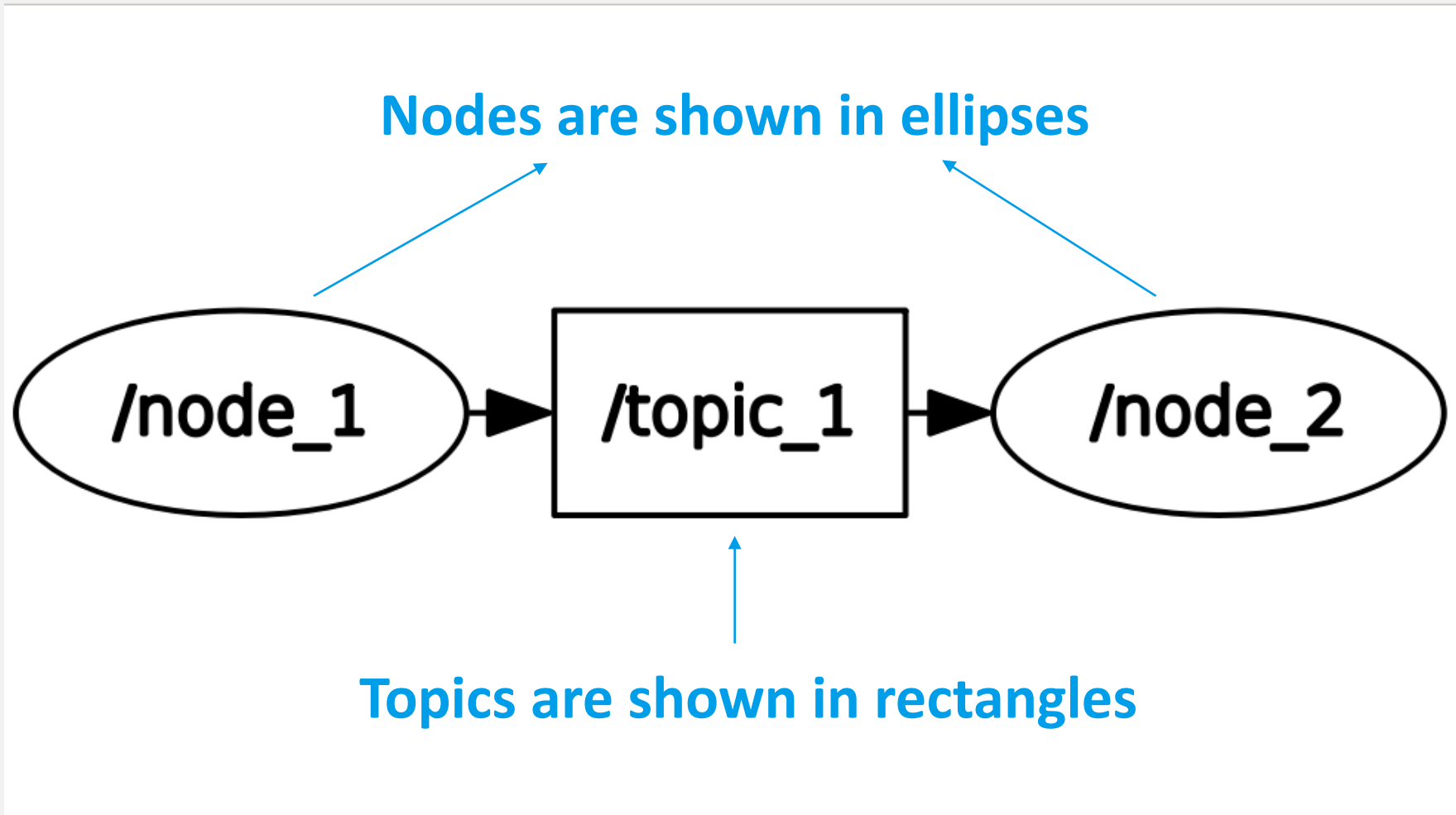


```
donnie@tudelft:~$ rostopic list
/node_1
/node_2
/rosout
donnie@tudelft:~$
```

List currently running nodes on the terminal

# Command – rqt\_graph

---



# Command – rosnode info <node name>

```
donnie@tudelft:~$ rosnode info /node_1
```

```
-----  
Node [/node_1]  
Publications:  
* /rosout [rosgraph_msgs/Log]  
* /topic_1 [std_msgs/String]  
  
Subscriptions: None  
  
Services:  
* /node_1/get_loggers  
* /node_1/set_logger_level
```

## Topics and Services

```
contacting node http://tudelft:35439/ ...  
Pid: 3874  
Connections:  
* topic: /topic_1  
  * to: /node_2  
  * direction: outbound  
  * transport: TCPROS  
* topic: /rosout  
  * to: /rosout  
  * direction: outbound  
  * transport: TCPROS
```

## Interactions with other nodes

```
donnie@tudelft:~$ rosnode info /node_2
```

```
-----  
Node [/node_2]  
Publications:  
* /rosout [rosgraph_msgs/Log]  
  
Subscriptions:  
* /topic_1 [std_msgs/String]  
  
Services:  
* /node_2/get_loggers  
* /node_2/set_logger_level
```

```
contacting node http://tudelft:34711/ ...  
Pid: 3922  
Connections:  
* topic: /rosout  
  * to: /rosout  
  * direction: outbound  
  * transport: TCPROS  
* topic: /topic_1  
  * to: /node_1 (http://tudelft:35439/)  
  * direction: inbound  
  * transport: TCPROS
```