

Embedding Maths in Xfig

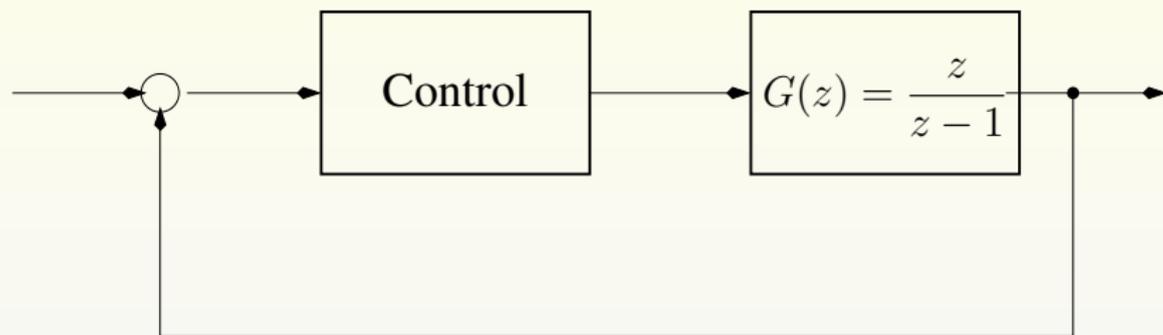
Kannan M. Moudgalya
kannan@iitb.ac.in
IIT Bombay

Talk to a Teacher Project
<http://spoken-tutorial.org>
National Mission on Education through ICT
<http://www.sakshat.ac.in>
9 February 2011



Talk to a Teacher

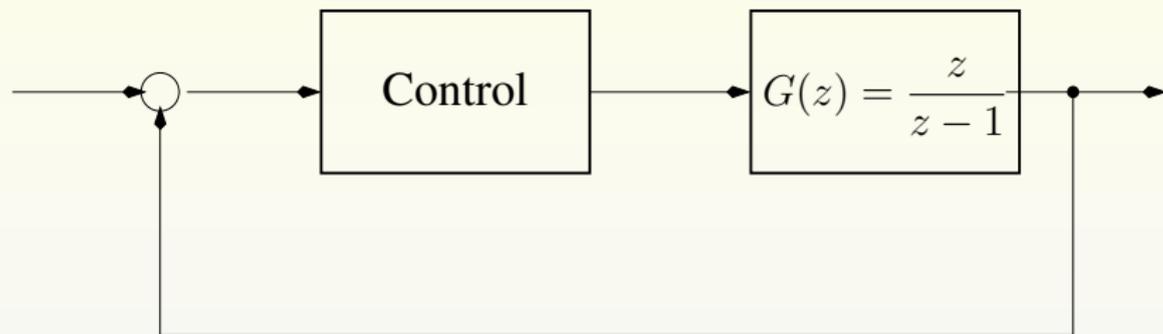
Will Explain how to Create this Figure



- ▶ **Observe the mathematical expression in the second block**



Will Explain how to Create this Figure

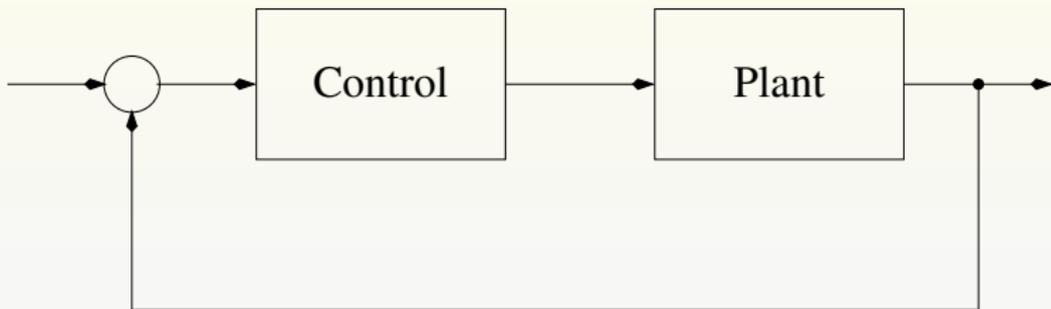


- ▶ Observe the mathematical expression in the second block
- ▶ You can embed any mathematical expression after learning this tutorial



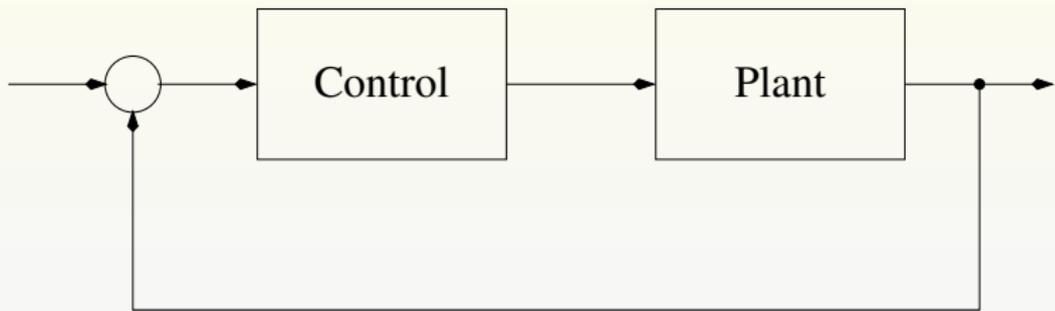
Pre-requisite: Feedback Spoken Tutorial

- ▶ We shall create the figure in the previous slide, starting from



Pre-requisite: Feedback Spoken Tutorial

- ▶ We shall create the figure in the previous slide, starting from

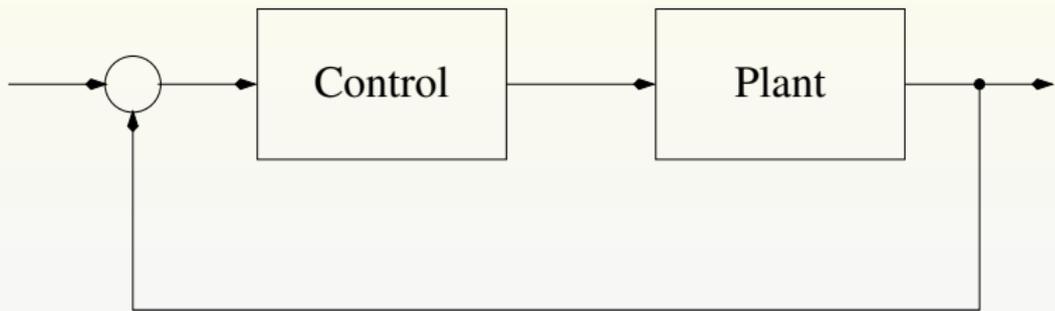


- ▶ which was created in the spoken tutorial on Feedback Diagrams through Xfig



Pre-requisite: Feedback Spoken Tutorial

- ▶ We shall create the figure in the previous slide, starting from



- ▶ which was created in the spoken tutorial on **Feedback Diagrams through Xfig**
- ▶ **You should learn this tutorial before starting the current one**



Required Software

- ▶ I am using Xfig, Version 3.2, patch level 5



Required Software

- ▶ I am using Xfig, Version 3.2, patch level 5
- ▶ You also need \LaTeX , and a familiarity with it



Required Software

- ▶ I am using Xfig, Version 3.2, patch level 5
- ▶ You also need \LaTeX , and a familiarity with it
- ▶ You also need image cropping software



Required Software

- ▶ I am using Xfig, Version 3.2, patch level 5
- ▶ You also need \LaTeX , and a familiarity with it
- ▶ You also need image cropping software
 - ▶ **pdfcrop works on Linux and Mac OS X**



Required Software

- ▶ I am using Xfig, Version 3.2, patch level 5
- ▶ You also need \LaTeX , and a familiarity with it
- ▶ You also need image cropping software
 - ▶ pdfcrop works on Linux and Mac OS X
 - ▶ **We will cover it in this tutorial**



Required Software

- ▶ I am using Xfig, Version 3.2, patch level 5
- ▶ You also need \LaTeX , and a familiarity with it
- ▶ You also need image cropping software
 - ▶ pdfcrop works on Linux and Mac OS X
 - ▶ We will cover it in this tutorial
 - ▶ Briss is said to work on Windows also, but not covered in this tutorial



Let us go to Xfig



Briss: Another Pdffcrop Software

- ▶ **The software briss can also be used to crop the white space**



Briss: Another Pdffcrop Software

- ▶ The software **briss** can also be used to crop the white space
- ▶ It is supposed to work on Linux, Mac OS X and also Windows



Briss: Another Pdffcrop Software

- ▶ The software **briss** can also be used to crop the white space
- ▶ It is supposed to work on Linux, Mac OS X and also Windows
- ▶ I have checked its working in Mac OS X



Briss: Another Pdffcrop Software

- ▶ The software **briss** can also be used to crop the white space
- ▶ It is supposed to work on Linux, Mac OS X and also Windows
- ▶ I have checked its working in Mac OS X
- ▶ **But we will not demonstrate it here**



We have an Assignment for you

- ▶ **Make the diagram created in this tutorial more symmetric and beautiful**



We have an Assignment for you

- ▶ **Make the diagram created in this tutorial more symmetric and beautiful**
- ▶ **Try out different mathematical expressions**



We have an Assignment for you

- ▶ **Make the diagram created in this tutorial more symmetric and beautiful**
- ▶ **Try out different mathematical expressions**
- ▶ **Try out other options, such as flip and rotate, not covered in the spoken tutorial**



We have an Assignment for you

- ▶ **Make the diagram created in this tutorial more symmetric and beautiful**
- ▶ **Try out different mathematical expressions**
- ▶ **Try out other options, such as flip and rotate, not covered in the spoken tutorial**
- ▶ **Try to build different diagrams**



We have an Assignment for you

- ▶ **Make the diagram created in this tutorial more symmetric and beautiful**
- ▶ **Try out different mathematical expressions**
- ▶ **Try out other options, such as flip and rotate, not covered in the spoken tutorial**
- ▶ **Try to build different diagrams**
- ▶ **Explore the library**



We have an Assignment for you

- ▶ Make the diagram created in this tutorial more symmetric and beautiful
- ▶ Try out different mathematical expressions
- ▶ Try out other options, such as flip and rotate, not covered in the spoken tutorial
- ▶ Try to build different diagrams
- ▶ Explore the library
- ▶ Do an internet search and locate information relevant to Xfig



Relevant Learning Material

- ▶ Useful learning material is available at <http://spoken-tutorial.org>
- ▶ The concept of spoken tutorials is explained in **What is a Spoken Tutorial**
- ▶ You may learn \LaTeX using the spoken tutorials available here
- ▶ The tutorial on **Mathematical Typesetting** explains how to create maths in \LaTeX
- ▶ The tutorial on **Tables and Figures** explains how to place figures, of the type created in this tutorial, into documents
- ▶ This website has a lot of useful information, including, **Xfig tutorials**



Funding Support

- ▶ **Spoken Tutorial is a part of the Talk to a Teacher project**



Funding Support

- ▶ Spoken Tutorial is a part of the Talk to a Teacher project
- ▶ Supported by the National Mission on Education through ICT (NMEICT), MHRD, Government of India



Funding Support

- ▶ Spoken Tutorial is a part of the Talk to a Teacher project
- ▶ Supported by the National Mission on Education through ICT (NMEICT), MHRD, Government of India
- ▶ More information on this mission is available at <http://spoken-tutorial.org/NMEICT-Intro>



Welcome your Participation/Feedback

- ▶ We welcome your participation and also feedback



Welcome your Participation/Feedback

- ▶ We welcome your participation and also feedback
- ▶ Thanks for joining

