CS213 Assignment 2

Introduction to Beamer

Omkar D Jadhav

Department of Computer Science and Engineering
IIT Dharwad
Email: 190010029@iitdh.ac.in

September 2020

Usage of Overlays

Stepwise viewing

A. Using pause method on lists:

- This section uses pause method to view content stepwise

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Usage of Overlays

Stepwise viewing

A. Using pause method on lists:

- This section uses pause method to view content stepwise
- Presentor is supposed to click a button to move to next content.

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Usage of Overlays

Stepwise viewing

A. Using pause method on lists:

- This section uses pause method to view content stepwise
- Presentor is supposed to click a button to move to next content.
- It could be used for any sort of content like figures,lists etc.

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Usage of Overlays

Stepwise viewing

A. Using pause method on lists:

- This section uses pause method to view content stepwise
- Presentor is supposed to click a button to move to next content.
- It could be used for any sort of content like figures,lists etc.
- Next slide will use pause method on figures and blocks.

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Usage of Overlays

Stepwise viewing

B. Using pause method on figures and blocks:

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Usage of Overlays

Stepwise viewing

B. Using pause method on figures and blocks:

Usage of Overlays

Stepwise viewing

B. Using pause method on figures and blocks:

Usage of Overlays

Stepwise viewing

B. Using pause method on figures and blocks:

Dummy block

This is a dummy block.

Usage of Overlays

Stepwise viewing

B. Using pause method on figures and blocks:

Dummy block

This is a dummy block.

Alert block

This is an alert block.

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Usage of Overlays

Stepwise viewing

C. Using onslide method for text.

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Usage of Overlays

Stepwise viewing

C. Using onslide method for text.

This section is meant to show usage of onslide

I will disappear after next 2 slides

I will stay till the end

I will disappear right after this slide

I will stay till the end

The end

भारतीय प्रौद्योगिकी संस्थान धारवाड

Indian Institute of Technology Dharwad

Usage of Overlays

Stepwise viewing

C. Using onslide method for text.

This section is meant to show usage of onslide
I will disappear after next 2 slides
I will stay till the end
I will disappear right after this slide
I will stay till the end
The end

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Usage of Overlays

Stepwise viewing

C. Using onslide method for text.

This section is meant to show usage of onslide
I will disappear after next 2 slides
I will stay till the end
I will disappear right after this slide
I will stay till the end
The end

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Usage of Overlays

Stepwise viewing

C. Using onslide method for text.

This section is meant to show usage of onslide
I will disappear after next 2 slides
I will stay till the end
I will disappear right after this slide
I will stay till the end
The end

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Usage of Overlays

Stepwise viewing

C. Using onslide method for text.

This section is meant to show usage of onslide

I will disappear after next 2 slides

I will stay till the end

I will disappear right after this slide

I will stay till the end

The end

भारतीय प्रौद्योगिकी संस्थान धारवाड

Indian Institute of Technology Dharwad

Usage of Overlays

Stepwise viewing

C. Using onslide method for text.

This section is meant to show usage of onslide

I will disappear after next 2 slides

I will stay till the end

I will disappear right after this slide

I will stay till the end

The end

Usage of Overlays

Stepwise viewing

C. Using onslide method on figures and blocks:

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Usage of Overlays

Stepwise viewing

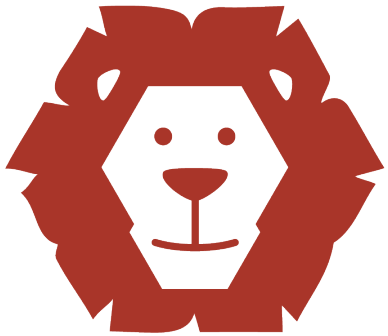
C. Using onslide method on figures and blocks:

Usage of Overlays

Stepwise viewing

C. Using onslide method on figures and blocks:

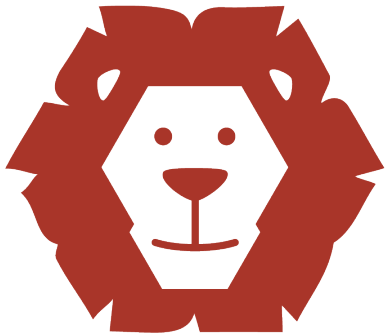
C. Using onslide method on figures and blocks:



Dummy block

This is a dummy block. I will disappear next.

C. Using onslide method on figures and blocks:



Alert block

This is an alert block.

Usage of Overlays

Replace commands

A. Using only command:

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Usage of Overlays

Replace commands

A. Using only command:

Hello, only command has been applied to me.

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Usage of Overlays

Replace commands

A. Using only command:

I am similar to visible command but I don't take up additional space

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Usage of Overlays

Replace commands

A. Using only command:

For example: *Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.*

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Usage of Overlays

Replace commands

A. Using only command:

Next commands to be explored are visible and invisible commands:

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Usage of Overlays

Replace commands

A. Using only command:

Done.

B. Using visible and invisible command

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Usage of Overlays

Replace commands

A. Using only command:

Done.

B. Using visible and invisible command

Hello, visible command has been applied to me. I will be invisible after 1 skip

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Usage of Overlays

Replace commands

A. Using only command:

Done.

B. Using visible and invisible command

As you can see, previous text disappeared but it still takes up the space given to it.

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Usage of Overlays

Replace commands

A. Using only command:

Done.

B. Using visible and invisible command

As you can see, previous text disappeared but it still takes up the space given to it.

In this way,visible is different than only.

भारतीय प्रौद्योगिकी संस्थान धारवाड

Indian Institute of Technology Dharwad

Usage of Overlays

Replace commands

A. Using only command:

Done.

B. Using visible and invisible command

As you can see, previous text disappeared but it still takes up the space given to it.

In this way,visible is different than only.

In the next slide we will see the Usage of Highlighting.

॥ सा विद्या या विमुक्तये ॥

भारतीय प्रौद्योगिकी संस्थान धारवाड

Indian Institute of Technology Dharwad

Usage of Overlays

Highlighting commands

- The command alert has been applied to the word Highlighted .

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Usage of Overlays

Highlighting commands

- The command alert has been applied to the word Highlighted .
- We can also use normal color command to highlight.

Usage of Overlays

Highlighting commands

- The command alert has been applied to the word Highlighted .
- We can also use normal color command to highlight.
- This way we can customise alerts with any colours, be it Blue, Green or any colour.

Alert!

Sometimes alertblock is used instead of alert command.

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Usage of Overlays

Highlighting commands

- The command alert has been applied to the word Highlighted .
- We can also use normal color command to highlight.
- This way we can customise alerts with any colours, be it Blue, Green or any colour.

Alert!

Sometimes alertblock is used instead of alert command.

Usage of Overlays

Highlighting commands

- The command alert has been applied to the word Highlighted .
- We can also use normal color command to highlight.
- This way we can customise alerts with any colours, be it Blue, Green or any colour.

Alert!

Sometimes alertblock is used instead of alert command.

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Usage of Hyperlinks

- **In this slide we see inclusion of hyperlinks**
- This link leads to IIT Dharwad website.
- We could also use url command if no url description is needed.
- `www.iitdh.ac.in`
- Hyperlinks can be used to go to different slides like following.

▸ Stepwise viewing

▸ Replace commands

▸ Highlight commands

In this slide we see usage of columns and blocks

- This is the first of the three columns present
- Any column can contain any sort of content.
- 2nd column contains blocks.
- 3rd column contains an image.

Block

This is a sample block inside a column.

Alert Block

This is an alert block inside a column.

Further slides include concepts which have been covered already in LaTeX assignment.

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Figures and Tables

Figures: Figures have been used throughout the document. For example this slide.

Tables: Following are some tables with multirows and multicolumns.

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Figures and Tables

Figures: Figures have been used throughout the document. For example this slide.

Tables: Following are some tables with multirows and multicolumns.

Year	Countries		
	India	Afghanistan	Bangladesh
2000	1.8	1.9	1.4
2005	1.5	1.9	1.4
2006	1.4	2.0	1.3
2007	1.5	2.0	1.3
2008	1.4	2.0	1.3
2009	1.4	2.0	1.3

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Continuation of tables, Transitions

<table>
<tr><td colspan="3" rowspan="2">Nested multicol-multirow</td><td>A</td><td>B</td></tr>
<tr><td>C</td><td>D</td></tr>
<tr><td>E</td><td>F</td><td colspan="3">multicol</td></tr>
<tr><td colspan="5">G</td></tr>
</table>

Transitions: Many of the slides have transitions attached to them.

In the next slide we have Mathematics section.

Mathematics section

Theorem 1

If q^2 is divisible by 3, so is q.

Theorem 2

$\sqrt{3}$ is irrational.

Proof.

Suppose not; i.e., suppose $\sqrt{3} \in \mathbb{Q}$. Then $\exists$ m,n $\in \mathbb{Z}$ with m and n relatively prime and $\sqrt{3} = \frac{m}{n}$. Then $3n^2 = m^2$.Thus m^2 is divisible by 3 so by Theorem 1 ,m is also.

Mathematics section

Theorem 1

If q^2 is divisible by 3, so is q.

Theorem 2

$\sqrt{3}$ is irrational.

Proof.

Suppose not; i.e., suppose $\sqrt{3} \in \mathbb{Q}$. Then $\exists$ m,n $\in \mathbb{Z}$ with m and n relatively prime and $\sqrt{3} = \frac{m}{n}$. Then $3n^2 = m^2$.Thus m^2 is divisible by 3 so by Theorem 1 ,m is also.
By definition,m = 3k for some k $\in \mathbb{Z}$. Hence $m^2 = 9k^2 = 3n^2$ and so $3k^2 = n^2$. Thus n^2 is divisible by 3 and again by Theorem 1,n is also divisible by 3. But m,n are relatively prime, a contradiction. Thus $\sqrt{3} \notin \mathbb{Q}$. □

Multiline equation (with step viewing)

$$\cos 2\theta = $$

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Multiline equation (with step viewing)

$$\cos 2\theta = \cos^2\theta - \sin^2\theta$$

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Multiline equation (with step viewing)

$$\begin{aligned} \cos 2\theta &= \cos^2\theta - \sin^2\theta \\ &= 2\cos^2\theta - 1 \end{aligned}$$

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Mathematics section

Multiline equation (with step viewing)

$$\begin{aligned} \cos 2\theta &= \cos^2\theta - \sin^2\theta \\ &= 2\cos^2\theta - 1 \\ &= 1 - 2\sin^2\theta \end{aligned}$$

Next slide shows explicit use of lists with step viewing

॥ सा विद्या या विमुक्तये ॥

भारतीय प्रौद्योगिकी संस्थान धारवाड

Indian Institute of Technology Dharwad

Lists

Itemize, Enumerate, Description

Itemize

Enumerate

Description

Lists

Itemize, Enumerate, Description

Itemize

- This is the start of the list

Enumerate

1. This is the start of the list

Description

First This is the start of the list

Lists

Itemize, Enumerate, Description

Itemize

- This is the start of the list
- In this type of list items have bullet points with them.

Enumerate

1. This is the start of the list
2. In this type of list items have numbering with them.

Description

First This is the start of the list

Second In this type of list items have title attached with them.

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Lists

Itemize, Enumerate, Description

Itemize

- This is the start of the list
- In this type of list items have bullet points with them.
- It is also called unordered list.

Enumerate

1. This is the start of the list
2. In this type of list items have numbering with them.
3. It is also called ordered list.

Description

First This is the start of the list

Second In this type of list items have title attached with them.

Third It is also called Descriptive list.

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Lists

Itemize, Enumerate, Description

Itemize

- This is the start of the list
- In this type of list items have bullet points with them.
- It is also called unordered list.
- This is the end of the list

Enumerate

1. This is the start of the list
2. In this type of list items have numbering with them.
3. It is also called ordered list.
4. This is the end of the list

Description

First This is the start of the list

Second In this type of list items have title attached with them.

Third It is also called Descriptive list.

Fourth This is the end of the list

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

Thank You!

भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad