# beamer examples
## created with beamer 3.x

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# Teil I

## Tutorial

# Contents

## What Are Prime Numbers?

A prime number is a number that has exactly two divisors.

# What Are Prime Numbers?

## Definition

A prime number is a number that has exactly two divisors

## Example

- 2 is prime (two divisors: 1 and 2).
- 3 is prime (two divisors: 1 and 3).
- 4 is not prime (three divisors: 1, 2, and 4).

# What Are Prime Numbers?

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# What Are Prime Numbers?

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# There Is No Largest Prime Number

The proof uses *reductio ad absurdum*.

### Theorem

*There is no largest prime number.*

### Beweis.

1. Suppose $p$ were the largest prime number.

4. Thus $q + 1$ is also prime and greater than $p$. □

# There Is No Largest Prime Number
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# What's Still To Do?

### Answered Questions

How many primes are there?

### Open Questions

Is every even number the sum of two primes?

# What's Still To Do?

- ▶ Answered Questions
  - ▶ How many primes are there?
- ▶ Open Questions
  - ▶ Is every even number the sum of two primes?

# What's Still To Do?

### Answered Questions

How many primes are there?

### Open Questions

Is every even number the sum of two primes? [1]

# An Algorithm For Finding Primes Numbers.

```cpp
int main (void)
{
  std::vector<bool> is_prime (100, true);
  for (int i = 2; i < 100; i++)
    if (is_prime[i])
      {
        std::cout << i << " ";
        for (int j = i; j < 100;
             is_prime [j] = false, j+=i);
      }
  return 0;
}
```

# An Algorithm For Finding Primes Numbers.

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{
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        for (int j = i; j < 100;
             is_prime [j] = false, j+=i);
      }
 return 0;
}
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```cpp
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    if (is_prime[i])
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        std::cout « i « " ";
        for (int j = i; j < 100;
             is_prime [j] = false, j+=i);
      }
 return 0;
}
```

Note the use of std::.

# Teil II

## Howtos

# Contents

How To Uncover Things Piecewise

Uncovering an Enumeration Piecewise
Hilighting the Current Item in an Enumeration
Changing Symbol Before an Enumeration
Uncovering Piecewise

► First point.

► First point.

How To Uncover Things Piecewise

Uncovering an Enumeration Piecewise
Hilighting the Current Item in an Enumeration
Changing Symbol Before an Enumeration
Uncovering Piecewise

- ▶ First point.
- ▶ Second point.

- ▶ First point.
- ▶ Second point.

How To Uncover Things Piecewise

Uncovering an Enumeration Piecewise
Hilighting the Current Item in an Enumeration
Changing Symbol Before an Enumeration
Uncovering Piecewise

- ▶ First point.
- ▶ Second point.
- ▶ Third point.

- ▶ First point.
- ▶ Second point.
- ▶ Third point.

How To Uncover Things Piecewise

Uncovering an Enumeration Piecewise
Hilighting the Current Item in an Enumeration
Changing Symbol Before an Enumeration
Uncovering Piecewise

- ▶ First point.
- ▶ Second point.
- ▶ Third point.

- ▶ First point.
- ▶ Second point.
- ▶ Third point.

- ▶ First point.
- ▶ Second point.

How To Uncover Things Piecewise

Uncovering an Enumeration Piecewise
Hilighting the Current Item in an Enumeration
Changing Symbol Before an Enumeration
Uncovering Piecewise

- ▶ First point.
- ▶ Second point.
- ▶ Third point.

- ▶ First point.
- ▶ Second point.
- ▶ Third point.

- ▶ First point.
- ▶ Second point.
- ▶ Third point.

How To Uncover Things Piecewise

Uncovering an Enumeration Piecewise
Hilighting the Current Item in an Enumeration
Changing Symbol Before an Enumeration
Uncovering Piecewise

- First point.

or

- First point.

How To Uncover Things Piecewise

Uncovering an Enumeration Piecewise
**Hilighting the Current Item in an Enumeration**
Changing Symbol Before an Enumeration
Uncovering Piecewise

- ► First point.
- ► Second point.

or

- ► First point.
- ► Second point.

How To Uncover Things Piecewise

Uncovering an Enumeration Piecewise
**Hilighting the Current Item in an Enumeration**
Changing Symbol Before an Enumeration
Uncovering Piecewise

- ► First point.
- ► Second point.
- ► Third point.

or

- ► First point.
- ► Second point.
- ► Third point.

How To Uncover Things Piecewise

Uncovering an Enumeration Piecewise
Hilighting the Current Item in an Enumeration
Changing Symbol Before an Enumeration
Uncovering Piecewise

g a ballot  First point.

and

g a ballot  First point.

How To Uncover Things Piecewise

Uncovering an Enumeration Piecewise
Hilighting the Current Item in an Enumeration
Changing Symbol Before an Enumeration
Uncovering Piecewise

► First point.

g a ballot Second point.

and

► First point.

g a ballot Second point.

How To Uncover Things Piecewise

Uncovering an Enumeration Piecewise
Hilighting the Current Item in an Enumeration
Changing Symbol Before an Enumeration
Uncovering Piecewise

- ▶ First point.
- ▶ Second point.

g a ballot  Third point.

and

- ▶ First point.
- ▶ Second point.

g a ballot  Third point.

How To Uncover Things Piecewise

Uncovering an Enumeration Piecewise
Hilighting the Current Item in an Enumeration
Changing Symbol Before an Enumeration
Uncovering Piecewise

In the following example, more and more items become "checked"from slide to slide:

g a ballot  First point.

- ► Second point.
- ► Third point.

How To Uncover Things Piecewise

Uncovering an Enumeration Piecewise
Hilighting the Current Item in an Enumeration
Changing Symbol Before an Enumeration
Uncovering Piecewise

In the following example, more and more items become "checked"from
slide to slide:

g a ballot  First point.

g a ballot  Second point.

► Third point.

How To Uncover Things Piecewise

Uncovering an Enumeration Piecewise
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In the following example, more and more items become "checked"from slide to slide:

g a ballot  First point.

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How To Uncover Things Piecewise

Uncovering an Enumeration Piecewise
Hilighting the Current Item in an Enumeration
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In the following example, more and more items become "checked"from slide to slide:

g a ballot  First point.

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How To Uncover Things Piecewise

Uncovering an Enumeration Piecewise
Hilighting the Current Item in an Enumeration
Changing Symbol Before an Enumeration
Uncovering Piecewise

Uncovering Tagged Formulas Piecewise

$$A = B \tag{1}$$

How To Uncover Things Piecewise

Uncovering an Enumeration Piecewise
Hilighting the Current Item in an Enumeration
Changing Symbol Before an Enumeration
Uncovering Piecewise

Uncovering Tagged Formulas Piecewise

$$A = B \tag{1}$$
$$= C \tag{2}$$

How To Uncover Things Piecewise

Uncovering an Enumeration Piecewise
Hilighting the Current Item in an Enumeration
Changing Symbol Before an Enumeration
Uncovering Piecewise

Uncovering Tagged Formulas Piecewise

$$A = B \tag{1}$$
$$= C \tag{2}$$
$$= D \tag{3}$$

How To Uncover Things Piecewise

Uncovering an Enumeration Piecewise
Hilighting the Current Item in an Enumeration
Changing Symbol Before an Enumeration
Uncovering Piecewise

## Uncovering a Table Rowwise

| Class | A | B | C | D |
|-------|---|---|---|---|
| X     | 1 | 2 | 3 | 4 |

How To Uncover Things Piecewise

Uncovering an Enumeration Piecewise
Hilighting the Current Item in an Enumeration
Changing Symbol Before an Enumeration
Uncovering Piecewise

## Uncovering a Table Rowwise

| Class | A | B | C | D |
|-------|---|---|---|---|
| X | 1 | 2 | 3 | 4 |
| Y | 3 | 4 | 5 | 6 |

How To Uncover Things Piecewise

Uncovering an Enumeration Piecewise
Hilighting the Current Item in an Enumeration
Changing Symbol Before an Enumeration
Uncovering Piecewise

## Uncovering a Table Rowwise

| Class | A | B | C | D |
|-------|---|---|---|---|
| X     | 1 | 2 | 3 | 4 |
| Y     | 3 | 4 | 5 | 6 |
| Z     | 5 | 6 | 7 | 8 |

How To Uncover Things Piecewise

Uncovering an Enumeration Piecewise
Hilighting the Current Item in an Enumeration
Changing Symbol Before an Enumeration
Uncovering Piecewise

Uncovering a Table Columnwise

| Class | A |
|-------|---|
| X | 1 |
| Y | 3 |
| Z | 5 |

How To Uncover Things Piecewise

Uncovering an Enumeration Piecewise
Hilighting the Current Item in an Enumeration
Changing Symbol Before an Enumeration
Uncovering Piecewise

## Uncovering a Table Columnwise

| Class | A | B |
|-------|---|---|
| X | 1 | 2 |
| Y | 3 | 4 |
| Z | 5 | 6 |

How To Uncover Things Piecewise

Uncovering an Enumeration Piecewise
Hilighting the Current Item in an Enumeration
Changing Symbol Before an Enumeration
Uncovering Piecewise

## Uncovering a Table Columnwise

| Class | A | B | C |
|-------|---|---|---|
| X | 1 | 2 | 3 |
| Y | 3 | 4 | 5 |
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Hilighting the Current Item in an Enumeration
Changing Symbol Before an Enumeration
Uncovering Piecewise

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| X | 1 | 2 | 3 | 4 |
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| Z | 5 | 6 | 7 | 8 |

# Teil III

## Building a Presentation

# Contents

3  Creating Overlays

# Contents

**3** Creating Overlays

**4** Structuring a Presentation: The Interactive Global Structure

# Contents

# Contents

**3** Creating Overlays

**4** Structuring a Presentation: The Interactive Global Structure

**5** Structuring a Presentation: The Local Structure

**6** Animations, Sounds, and Slide Transitions

# Contents

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

▶ Shown from first slide on.

▶ Shown from first slide on.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

- ▶ Shown from first slide on.
- ▶ Shown from second slide on.
  - ▶ Shown from second slide on.

- ▶ Shown from first slide on.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

- ► Shown from first slide on.
- ► Shown from second slide on.
  - ► Shown from second slide on.
  - ► Shown from third slide on.
- ► Shown from third slide on.

- ► Shown from first slide on.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

- ► Shown from first slide on.
- ► Shown from second slide on.
  - ► Shown from second slide on.
  - ► Shown from third slide on.
- ► Shown from third slide on.
- ► Shown from fourth slide on.

Shown from fourth slide on.

- ► Shown from first slide on.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

- ▶ Shown from first slide on.
- ▶ Shown from second slide on.
  - ▶ Shown from second slide on.
  - ▶ Shown from third slide on.
- ▶ Shown from third slide on.
- ▶ Shown from fourth slide on.

Shown from fourth slide on.

- ▶ Shown from first slide on.
- ▶ Shown from fifth slide on.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

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Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

**This line is bold on all three slides. This line is bold only on the second slide.** This line is bold only on the third slide.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

**This line is bold on all three slides.** This line is bold only on the second slide. **This line is bold only on the third slide.**

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

This line is inserted only on slide 1.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

This line is inserted only on slide 2.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

Shown on first slide.

Shown on all slides.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

Shown on first slide. Shown on second and third slide.

- ▶ Still shown on the second and third slide.

Shown on all slides.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

Shown on first slide. Shown on second and third slide.

- ▶ Still shown on the second and third slide.

Shown on all slides.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

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Shown from slide 4 on. Shown on all slides.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

Same effect as the following command. Same effect as the previous command.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

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Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

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Creating Overlays

Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

Shown on 1, 2 Shown on 1, 2, 4

Creating Overlays

Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

Shown on 1, 2 Shown on 1, 2, 4

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

Shown on 3, 4 Shown on 3, 5

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

Shown on 3, 4 Shown on 1, 2, 4

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

Shown 5, 6, 7, ... Shown on 3, 5

Creating Overlays

Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

- ► First item.
- ► Second item.
- ► Third item.
- ► Fourth item.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

- First item.

- Second item.

- Third item.

- Fourth item.

Creating Overlays

Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

- First item.

- Second item.

- **Third item.**

- Fourth item.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

- ▶ First item.

- ▶ Second item.

- ▶ Third item.

- ▶ Fourth item.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

**1** The first and main point.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

1 The first and main point.
2 The second point.

Creating Overlays

Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

0. A zeroth point, shown at the very end.

1. The first and main point.

2. The second point.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
**Environments with Overlay Specifications**
Dynamically Changing Text or Images
Advanced Overlay Specifications

## A Theorem on Infinite Sets

### Theorem

*There exists an infinite set.*

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

## A Theorem on Infinite Sets

### Theorem

*There exists an infinite set.*

### Example

The set of natural numbers is infinite.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
**Environments with Overlay Specifications**
Dynamically Changing Text or Images
Advanced Overlay Specifications

# A Theorem on Infinite Sets

### Theorem

*There exists an infinite set.*

### Beweis.

This follows from the axiom of infinity. □

### Example

The set of natural numbers is infinite.

Creating Overlays

Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
**Environments with Overlay Specifications**
Dynamically Changing Text or Images
Advanced Overlay Specifications

This line is always shown.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
**Environments with Overlay Specifications**
Dynamically Changing Text or Images
Advanced Overlay Specifications

This line is always shown.  This line is inserted on slide 2.

Creating Overlays

Structuring a Presentation: The Interactive Global Structure

Structuring a Presentation: The Local Structure

Animations, Sounds, and Slide Transitions

Adding Notes

The Pause Commands

Commands with Overlay Specifications

Environments with Overlay Specifications

Dynamically Changing Text or Images

Advanced Overlay Specifications

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Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

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Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

Some text for the first slide.

Possibly several lines long.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

Replacement on the second slide.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

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Possibly several lines long.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

Replacement on the second slide. Supressed for handout.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

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Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

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Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

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Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

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Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

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Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

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Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

- ▶ Apple

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

- ► Apple
- ► Peach

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

- ► Apple
- ► Peach
- ► Plum

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

- ► Apple
- ► Peach
- ► Plum
- ► Orange

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

- Apple

- Peach

- Plum

- Orange

- Apple

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

- Apple
- Peach
- Plum
- Orange

- Apple
- Peach

Creating Overlays

Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

- ► Apple
- ► Peach
- ► Plum
- ► Orange

- ► Apple
- ► Peach
- ► Plum

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes
The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

- ► Apple
- ► Peach
- ► Plum
- ► Orange

- ► Apple
- ► Peach
- ► Plum
- ► Orange

Creating Overlays

Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

- ► Apple
- ► Peach
- ► Plum
- ► Orange

- ► Apple
- ► Peach
- ► Plum
- ► Orange

- ► This is important.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

- ► Apple
- ► Peach
- ► Plum
- ► Orange

- ► Apple
- ► Peach
- ► Plum
- ► Orange

- ► This is important.
- ► We want to highlight this and this.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

The Pause Commands
Commands with Overlay Specifications
Environments with Overlay Specifications
Dynamically Changing Text or Images
Advanced Overlay Specifications

- Apple
- Peach
- Plum
- Orange

- Apple
- Peach
- Plum
- Orange

- This is important.
- We want to highlight this and this.
- What is the matrix?

Creating Overlays
**Structuring a Presentation: The Interactive Global Structure**
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

Adding Hyperlinks and Buttons

► First item.

► Jump to second slide

Creating Overlays
**Structuring a Presentation: The Interactive Global Structure**
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

Adding Hyperlinks and Buttons

- ► First item.

- ► Second item.

▸ Jump to second slide

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

Adding Hyperlinks and Buttons

- ► First item.
- ► Second item.
- ► Third item.

► Jump to second slide

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

Adding Hyperlinks and Buttons

► First item.

► Jump to second slide

Creating Overlays
**Structuring a Presentation: The Interactive Global Structure**
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

Adding Hyperlinks and Buttons

► First item.

► Second item.

► Jump to second slide

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

Adding Hyperlinks and Buttons

- ► First item.
- ► Second item.
- ► Third item.

► Jump to second slide

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

Adding Hyperlinks and Buttons

## Theorem

...

▸▸ Skip proof

Creating Overlays
**Structuring a Presentation: The Interactive Global Structure**
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

Adding Hyperlinks and Buttons

## Theorem

...

## Beweis.

...

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
**Structuring a Presentation: The Local Structure**
Animations, Sounds, and Slide Transitions
Adding Notes

Itemizations, Enumerations, and Descriptions
Block Environments
Theorem Environments
Framed and Boxed Text
Splitting a Frame into Multiple Columns

There are three important points:

1. A first one,

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
**Structuring a Presentation: The Local Structure**
Animations, Sounds, and Slide Transitions
Adding Notes

Itemizations, Enumerations, and Descriptions
Block Environments
Theorem Environments
Framed and Boxed Text
Splitting a Frame into Multiple Columns

There are three important points:

1. A first one,
2. a second one with a bunch of subpoints,
   - first subpoint. (Only shown from second slide on!).

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
**Structuring a Presentation: The Local Structure**
Animations, Sounds, and Slide Transitions
Adding Notes

Itemizations, Enumerations, and Descriptions
Block Environments
Theorem Environments
Framed and Boxed Text
Splitting a Frame into Multiple Columns

There are three important points:

1. A first one,

2. a second one with a bunch of subpoints,
   - first subpoint. (Only shown from second slide on!).
   - second subpoint added on third slide.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
**Structuring a Presentation: The Local Structure**
Animations, Sounds, and Slide Transitions
Adding Notes

Itemizations, Enumerations, and Descriptions
Block Environments
Theorem Environments
Framed and Boxed Text
Splitting a Frame into Multiple Columns

There are three important points:

1. A first one,

2. a second one with a bunch of subpoints,
   - ▶ first subpoint. (Only shown from second slide on!).
   - ▶ second subpoint added on third slide.
   - ▶ third subpoint added on fourth slide.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
**Structuring a Presentation: The Local Structure**
Animations, Sounds, and Slide Transitions
Adding Notes

Itemizations, Enumerations, and Descriptions
Block Environments
Theorem Environments
Framed and Boxed Text
Splitting a Frame into Multiple Columns

There are three important points:

1. A first one,
2. a second one with a bunch of subpoints,
   - first subpoint. (Only shown from second slide on!).
   - second subpoint added on third slide.
   - third subpoint added on fourth slide.
3. and a third one.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
**Structuring a Presentation: The Local Structure**
Animations, Sounds, and Slide Transitions
Adding Notes

Itemizations, Enumerations, and Descriptions
Block Environments
Theorem Environments
Framed and Boxed Text
Splitting a Frame into Multiple Columns

► This is shown from the first slide on.

► This is shown from the first slide on.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

Itemizations, Enumerations, and Descriptions
Block Environments
Theorem Environments
Framed and Boxed Text
Splitting a Frame into Multiple Columns

- ▶ This is shown from the first slide on.
- ▶ This is shown from the second slide on.

- ▶ This is shown from the first slide on.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
**Structuring a Presentation: The Local Structure**
Animations, Sounds, and Slide Transitions
Adding Notes

Itemizations, Enumerations, and Descriptions
Block Environments
Theorem Environments
Framed and Boxed Text
Splitting a Frame into Multiple Columns

- ► This is shown from the first slide on.
- ► This is shown from the second slide on.
- ► This is shown from the third slide on.
- ► This is shown from the first slide on.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

Itemizations, Enumerations, and Descriptions
Block Environments
Theorem Environments
Framed and Boxed Text
Splitting a Frame into Multiple Columns

- This is shown from the first slide on.
- This is shown from the second slide on.
- This is shown from the third slide on.
- This is shown from the first slide on.
- This is shown from the fourth slide on.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
**Structuring a Presentation: The Local Structure**
Animations, Sounds, and Slide Transitions
Adding Notes

Itemizations, Enumerations, and Descriptions
Block Environments
Theorem Environments
Framed and Boxed Text
Splitting a Frame into Multiple Columns

short   Some text.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
**Structuring a Presentation: The Local Structure**
Animations, Sounds, and Slide Transitions
Adding Notes

Itemizations, Enumerations, and Descriptions
Block Environments
Theorem Environments
Framed and Boxed Text
Splitting a Frame into Multiple Columns

short  Some text.

longest label  Some text.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
**Structuring a Presentation: The Local Structure**
Animations, Sounds, and Slide Transitions
Adding Notes

Itemizations, Enumerations, and Descriptions
Block Environments
Theorem Environments
Framed and Boxed Text
Splitting a Frame into Multiple Columns

short  Some text.

longest label  Some text.

long label  Some text.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
**Structuring a Presentation: The Local Structure**
Animations, Sounds, and Slide Transitions
Adding Notes

Itemizations, Enumerations, and Descriptions
Block Environments
Theorem Environments
Framed and Boxed Text
Splitting a Frame into Multiple Columns

### Definition

A set consists of elements.

### Wrong Theorem

$1 = 2$.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
**Structuring a Presentation: The Local Structure**
Animations, Sounds, and Slide Transitions
Adding Notes

Itemizations, Enumerations, and Descriptions
Block Environments
Theorem Environments
Framed and Boxed Text
Splitting a Frame into Multiple Columns

## Definition

A set consists of elements.

## Wrong Theorem

$1 = 2$.

## Example

The set $\{1, 2, 3, 5\}$ has four elements.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
**Structuring a Presentation: The Local Structure**
Animations, Sounds, and Slide Transitions
Adding Notes

Itemizations, Enumerations, and Descriptions
Block Environments
**Theorem Environments**
Framed and Boxed Text
Splitting a Frame into Multiple Columns

# A Theorem on Infinite Sets

### Theorem

*There exists an infinite set.*

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
**Structuring a Presentation: The Local Structure**
Animations, Sounds, and Slide Transitions
Adding Notes

Itemizations, Enumerations, and Descriptions
Block Environments
**Theorem Environments**
Framed and Boxed Text
Splitting a Frame into Multiple Columns

# A Theorem on Infinite Sets

### Theorem

*There exists an infinite set.*

### Beweis.

This follows from the axiom of infinity. □

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
**Structuring a Presentation: The Local Structure**
Animations, Sounds, and Slide Transitions
Adding Notes

Itemizations, Enumerations, and Descriptions
Block Environments
**Theorem Environments**
Framed and Boxed Text
Splitting a Frame into Multiple Columns

# A Theorem on Infinite Sets

### Theorem
*There exists an infinite set.*

### Beweis.
This follows from the axiom of infinity.                                    □

### Example (Natural Numbers)
The set of natural numbers is infinite.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
**Structuring a Presentation: The Local Structure**
Animations, Sounds, and Slide Transitions
Adding Notes

Itemizations, Enumerations, and Descriptions
Block Environments
Theorem Environments
**Framed and Boxed Text**
Splitting a Frame into Multiple Columns

## beamer examples

## Matthias Pospiech

Typesetting a postit:

Place me somewhere!

Theorem

$A = B$.

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
**Structuring a Presentation: The Local Structure**
Animations, Sounds, and Slide Transitions
Adding Notes

Itemizations, Enumerations, and Descriptions
Block Environments
Theorem Environments
Framed and Boxed Text
Splitting a Frame into Multiple Columns

Two
lines.

One line (but aligned).

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
**Animations, Sounds, and Slide Transitions**
Adding Notes

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Slide Transitions

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Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
**Animations, Sounds, and Slide Transitions**
Adding Notes

Animations Created by Showing Slides in Rapid Succession
Slide Transitions

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Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
**Animations, Sounds, and Slide Transitions**
Adding Notes

Animations Created by Showing Slides in Rapid Succession
Slide Transitions

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Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
**Animations, Sounds, and Slide Transitions**
Adding Notes

Animations Created by Showing Slides in Rapid Succession
Slide Transitions

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Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
**Animations, Sounds, and Slide Transitions**
Adding Notes

Animations Created by Showing Slides in Rapid Succession
Slide Transitions

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Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
**Animations, Sounds, and Slide Transitions**
Adding Notes

Animations Created by Showing Slides in Rapid Succession
Slide Transitions

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Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
**Animations, Sounds, and Slide Transitions**
Adding Notes

Animations Created by Showing Slides in Rapid Succession
Slide Transitions

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Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
**Animations, Sounds, and Slide Transitions**
Adding Notes

Animations Created by Showing Slides in Rapid Succession
Slide Transitions

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Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
**Animations, Sounds, and Slide Transitions**
Adding Notes

Animations Created by Showing Slides in Rapid Succession
Slide Transitions

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Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
**Animations, Sounds, and Slide Transitions**
Adding Notes

Animations Created by Showing Slides in Rapid Succession
Slide Transitions

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Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
**Animations, Sounds, and Slide Transitions**
Adding Notes

Animations Created by Showing Slides in Rapid Succession
Slide Transitions

# Flying Theorems (You Really Shouldn't!)

### Theorem

*This theorem flies out.*

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

Animations Created by Showing Slides in Rapid Succession
Slide Transitions

## Flying Theorems (You Really Shouldn't!)

### Theorem

*This theorem flies out.*

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
**Animations, Sounds, and Slide Transitions**
Adding Notes

Animations Created by Showing Slides in Rapid Succession
Slide Transitions

# Flying Theorems (You Really Shouldn't!)

### Theorem

*This theorem flies out.*

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
**Animations, Sounds, and Slide Transitions**
Adding Notes

Animations Created by Showing Slides in Rapid Succession
Slide Transitions

## Flying Theorems (You Really Shouldn't!)

heorem

*his theorem flies out.*

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

Animations Created by Showing Slides in Rapid Succession
Slide Transitions

## Flying Theorems (You Really Shouldn't!)

orem

*theorem flies out.*

*in.*

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
**Animations, Sounds, and Slide Transitions**
Adding Notes

Animations Created by Showing Slides in Rapid Succession
Slide Transitions

## Flying Theorems (You Really Shouldn't!)

em

*eorem flies out.*

*es in.*

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
**Animations, Sounds, and Slide Transitions**
Adding Notes

Animations Created by Showing Slides in Rapid Succession
Slide Transitions

# Flying Theorems (You Really Shouldn't!)

*rem flies out.*

*flies in.*

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
**Animations, Sounds, and Slide Transitions**
Adding Notes

Animations Created by Showing Slides in Rapid Succession
Slide Transitions

# Flying Theorems (You Really Shouldn't!)

*m flies out.*

*m flies in.*

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
Animations, Sounds, and Slide Transitions
Adding Notes

Animations Created by Showing Slides in Rapid Succession
Slide Transitions

## Flying Theorems (You Really Shouldn't!)

*flies out.*

*rem flies in.*

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
**Animations, Sounds, and Slide Transitions**
Adding Notes

Animations Created by Showing Slides in Rapid Succession
Slide Transitions

# Flying Theorems (You Really Shouldn't!)

*es out.*

em

*eorem flies in.*

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
**Animations, Sounds, and Slide Transitions**
Adding Notes

Animations Created by Showing Slides in Rapid Succession
Slide Transitions

# Flying Theorems (You Really Shouldn't!)

*out.*

orem

*theorem flies in.*

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
**Animations, Sounds, and Slide Transitions**
Adding Notes

Animations Created by Showing Slides in Rapid Succession
Slide Transitions

## Flying Theorems (You Really Shouldn't!)

_ut._

heorem

_his theorem flies in._

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
**Animations, Sounds, and Slide Transitions**
Adding Notes

Animations Created by Showing Slides in Rapid Succession
Slide Transitions

## Flying Theorems (You Really Shouldn't!)

### Theorem

*This theorem flies in.*

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
**Animations, Sounds, and Slide Transitions**
Adding Notes

Animations Created by Showing Slides in Rapid Succession
Slide Transitions

# Flying Theorems (You Really Shouldn't!)

### Theorem

*This theorem flies in.*

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
**Animations, Sounds, and Slide Transitions**
Adding Notes

Animations Created by Showing Slides in Rapid Succession
Slide Transitions

# Flying Theorems (You Really Shouldn't!)

### Theorem

*This theorem flies in.*

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
**Animations, Sounds, and Slide Transitions**
Adding Notes

Animations Created by Showing Slides in Rapid Succession
Slide Transitions

Slide Transitions only work in full screen mode in Acrobat Reader !

Example (examples for Slide Transitions)

This line is shown on each slide of slide transitions

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
**Animations, Sounds, and Slide Transitions**
Adding Notes

Animations Created by Showing Slides in Rapid Succession
Slide Transitions

Slide Transitions only work in full screen mode in Acrobat Reader !

### Example (examples for Slide Transitions)

This line is shown on each slide of slide transitions

Creating Overlays
Structuring a Presentation: The Interactive Global Structure
Structuring a Presentation: The Local Structure
**Animations, Sounds, and Slide Transitions**
Adding Notes

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### Example (examples for Slide Transitions)

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- Eggs

- Eggs
- Plants

- ▶ Eggs
- ▶ Plants
- ▶ Animals

[Goldbach, 1742] Christian Goldbach.
A problem we should try to solve before the ISPN '43 deadline,
*Letter to Leonhard Euler*, 1742.