

# Beamer template for Leiden University

A minimal example showcasing the options



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**Universiteit  
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A section  
With a subsection

# There Is No Largest Prime Number

The proof uses *reductio ad absurdum*.

## Theorem

*There is no largest prime number.*

## Proof.

1. Suppose  $p$  were the largest prime number.
2. Consider the number  $q = p + 1$ .
3. But  $q$  is not prime, since it is divisible by  $p$ .
4. But  $q + 1$  is greater than 1, thus divisible by some prime number not in the first  $p$  numbers. □

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1. Suppose  $p$  were the largest prime number.
2. Let  $q$  be the product of the first  $p$  numbers.
  
4. But  $q + 1$  is greater than 1, thus divisible by some prime number not in the first  $p$  numbers. □

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## Proof.

1. Suppose  $p$  were the largest prime number.
2. Let  $q$  be the product of the first  $p$  numbers.
3. Then  $q + 1$  is not divisible by any of them.
4. But  $q + 1$  is greater than 1, thus divisible by some prime number not in the first  $p$  numbers. □

# Block colors

A block

With text

An alert block

With text

An example block

- ▶ An item
- ▶ And another one