

# A nice beamer theme

Some thoughts

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Today

# A sample frame

Did we get what we wanted?

# 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.
- 3.
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. □