

# The `linkedthm` Package

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## Overview

`linkedthm` is a LaTeX package that connects theorem-like environments to their corresponding proofs using hyperlinks. It helps readers navigate between statements and their justifications in a convenient and visually clear way.

## Basic Usage

Load the package:

```
\usepackage{linkedthm}
```

Define a base environment:

```
\newtheorem{theorem}{Theorem}
```

Declare the linked version:

```
\DeclareLinkedTheorem{linkedtheorem}{theorem}{Theorem}
```

Use in document:

**Theorem 1.** *Let  $x \in \mathbb{R}$ . Then  $x^2 \geq 0$ .* [\[Proof\]](#)

**Theorem 1** [\[Return\]](#). Let  $x \in \mathbb{R}$ . Then  $x^2 \geq 0$ .

*Proof.* The square of a real number is always non-negative. □

## Features

- Hyperlinked ‘[\[Proof\]](#)’ text at the end of each theorem
- Hyperlinked ‘[\[Return\]](#)’ at the start of the proof
- Proof begins by restating the theorem, with matching labels
- You can declare your own linked environments with `\DeclareLinkedTheorem`

## Dependencies

- amsthm
- xparse
- hyperref

## License

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