Publishing

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Publishing to GitHub - Step-by-Step Instructions

This guide walks you through publishing your Lewis Common Knowledge formalization to
GitHub.

Prerequisites

1. **GitHub account** - Create one at https://github.com if you don't have one
2. **Git installed** - Check with `git --version` in your terminal
3. **GitHub CLI (optional)** - Makes some steps easier: https://cli.github.com/

Option 1: Using GitHub Web Interface (Easiest)

Step 1: Create a New Repository

1. Go to https://github.com/new
2. Fill in:
   - **Repository name:** `lewis-common-knowledge-lean4`
   - **Description:** "Machine-verified formalizations of Lewis's theory of common
     knowledge in Lean 4"
   - **Visibility:** Public (recommended for academic work)
   - **DO NOT** initialize with README (we already have one)
3. Click "Create repository"

Step 2: Upload Your Files

On your computer:

```bash
cd lewis-common-knowledge-lean4

# Initialize git repository
git init

# Add all files
git add .

# Create first commit
git commit -m "Initial commit: Complete formalization of Lewis's common knowledge
theory"

# Add your GitHub repository as remote (replace YOUR_USERNAME)
git remote add origin
  https://github.com/YOUR_USERNAME/lewis-common-knowledge-lean4.git

# Push to GitHub
git branch -M main
git push -u origin main
```

Step 3: Verify Upload

1. Go to your repository:
   `https://github.com/YOUR_USERNAME/lewis-common-knowledge-lean4`
2. Check that all files are there
3. Verify the README displays correctly

Option 2: Using GitHub CLI (Faster)

```bash
cd lewis-common-knowledge-lean4                2

# Login to GitHub (first time only)
gh auth login
```