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USD Development Environment Setup

Working Configuration

• Platform: macOS 15.5 ARM64 (Apple Silicon)

• Python: 3.10.13 in virtual environment

• **USD**: usd-core 25.5.1 (pip-installed)

• TBB Fix: oneTBB 2021.9.0 for compatibility

USD Environment Setup

Quick Start

1. Create virtual environment:

```
python3 -m venv .usd_env
source .usd_env/bin/activate
```

2. Install Python dependencies:

```
pip install -r requirements.txt
```

3. Fix TBB compatibility (ARM Mac only):

```
# Download compatible TBB version
wget
https://github.com/uxlfoundation/oneTBB/releases/download/v2021.9.0/on
eapi-tbb-2021.9.0-mac.tgz
tar -xzf oneapi-tbb-2021.9.0-mac.tgz
sudo cp -r oneapi-tbb-2021.9.0/lib/* /opt/homebrew/lib/
# Set library path (add to your shell profile)
export DYLD_LIBRARY_PATH="/opt/homebrew/lib:$DYLD_LIBRARY_PATH"
```

4. Verify installation:

```
python test_usd_fix.py
```

5. Start developing:

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```
source start_usd_artist.sh
python create_geometry.py
```

Troubleshooting

If you get TBB symbol errors, ensure the library path is set:

```
export DYLD_LIBRARY_PATH="/opt/homebrew/lib:$DYLD_LIBRARY_PATH"
```

System Requirements

- macOS with Apple Silicon (ARM64)
- Python 3.10+
- Homebrew installed
- Git for repository management

File Structure

After setup, your project should look like: