Bahá'í Star Package Test

High Resolution METAFONT Implementation

Bahá'í Nine-Pointed Star Package
Version 0.2 Test Document

METAFONT Implementation with Multiple Resolutions

September 16, 2025

1 Introduction

This document demonstrates the Bahá'í nine-pointed star package using METAFONT with multiple resolution support. The package provides high-quality rendering at various scales through precompiled bitmap fonts at different resolutions:

- 600 DPI (standard)
- 1200 DPI (2× resolution)
- 2400 DPI (4× resolution)
- 4800 DPI (8× resolution)

2 Basic Usage

The star command: ✹
Multiple stars: ✹ ✹ ✹
Unicode input: ✹ (should render identically)

3 Size Scaling Tests

3.1 Font Size Scaling

Tiny: ✹
Script: ✹
Footnote: ✹
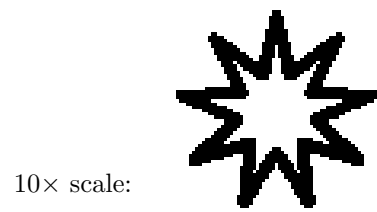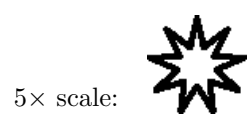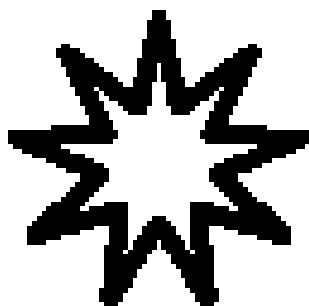Small: ✹
Normal: ✹
Large: ✹
Larger: ✹
LARGE: ✹
Huge: ✹
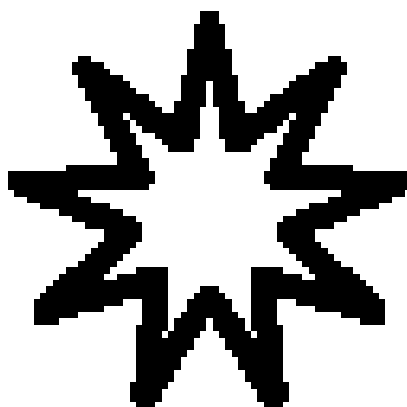HUGE: ✹

3.2 Manual Scaling Tests

2× scale: ✹

5× scale:

10× scale:

3.3 Large Scale Testing

$15\times$ scale (should use higher resolution font):

$20\times$ scale:

4 Typography Integration

4.1 Text Integration

The star works inline with text � seamlessly.
    In **bold text** � **formatting**.
    In *italic text* � *styling*.
    In SMALL CAPS � TEXT.

4.2 Mathematical Context

In math mode: $* + * = 2*$
    As superscript: $E = mc^{�des}$
    As subscript: $H_{�des} O$

4.3 List Usage

Using star as bullet points:

- ✵ First spiritual principle

- ✵ Second spiritual principle

- ✵ Third spiritual principle

  Numbered list with stars:

1. Unity of God ✵

2. Unity of Prophets ✵

3. Unity of Humanity ✵

5 Accessibility Features

The package includes accessibility support through the `accsupp` package. When text is copied from the PDF, the star symbol ✵ should copy as the proper Unicode character U+1F7D9 (✵).

Test copying this text: "The Bahá'í star ✵ represents the nine-pointed star."

6 Spacing and Positioning

Before✵after (no spaces)

Before ✵ after (with spaces)

Multiple: ✵✵✵ (consecutive)

Spaced: ✵ ✵ ✵ (separated)

7 Version Information

- Package: bahai-star v0.2

- Implementation: METAFONT with multiple resolutions

- Unicode support: U+1F7D9 (✵)

- Dependencies: newunicodechar, accsupp

- Compatibility: pdfLaTeX, XeLaTeX, LuaLaTeX

✵

Test completed successfully