

Lucknow Lattice Postcard Generator

(Process map)

Typography: Courier, Noto Sans Devanagari, Noto Nastaliq Urdu

Inspired by: The architectural heritage of Lucknow, India

Overview

Lucknow Lattice is a generative typography web application that celebrates the architectural heritage of Lucknow, India. The project transforms trilingual text (English, Hindi, and Urdu) into pixel-art style posters using geometric patterns inspired by four distinct architectural eras of the city.

The tool allows users to create personalized postcards that blend traditional craftsmanship aesthetics with modern generative design, creating a unique visual language that honors Lucknow's rich multicultural history.

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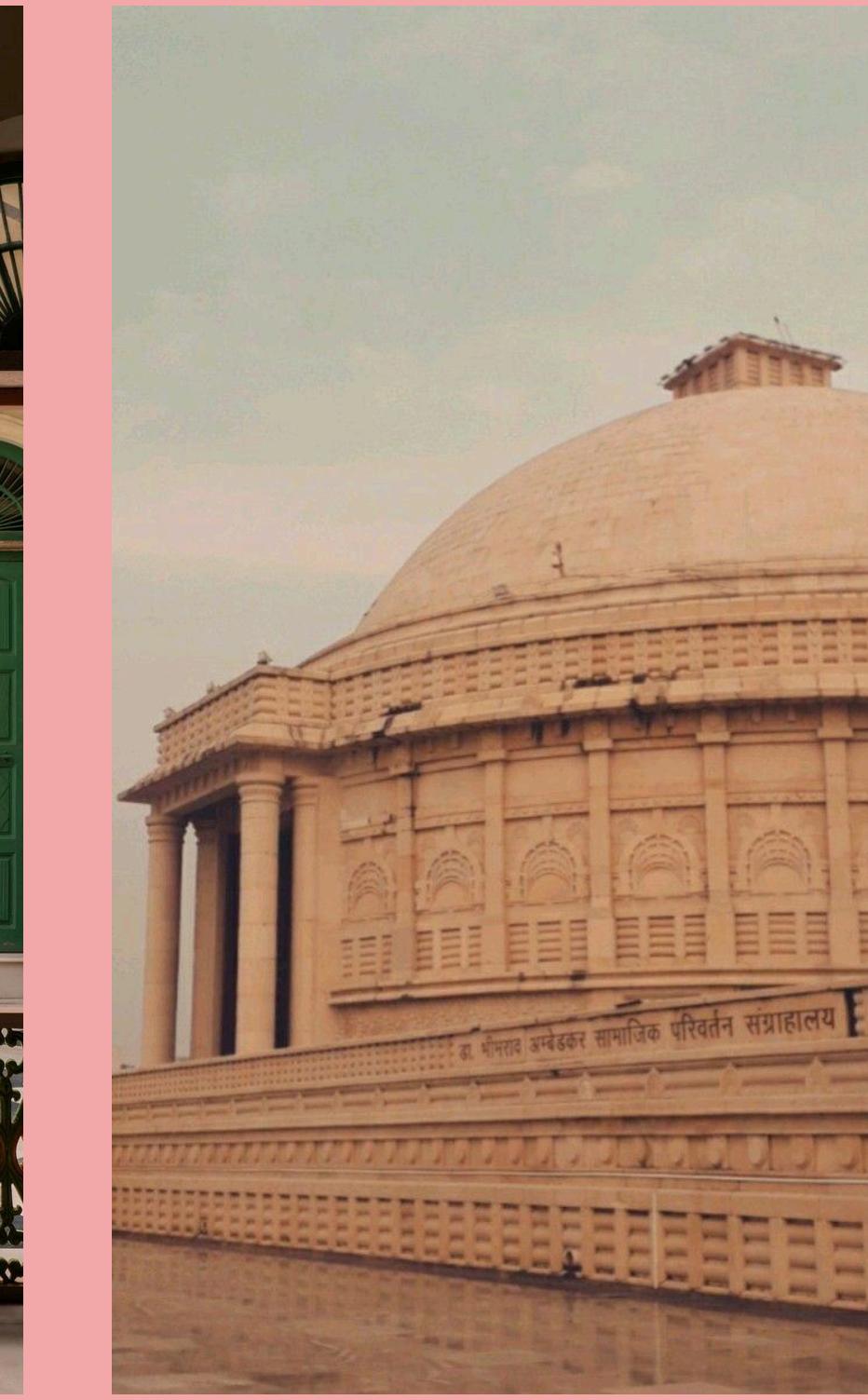
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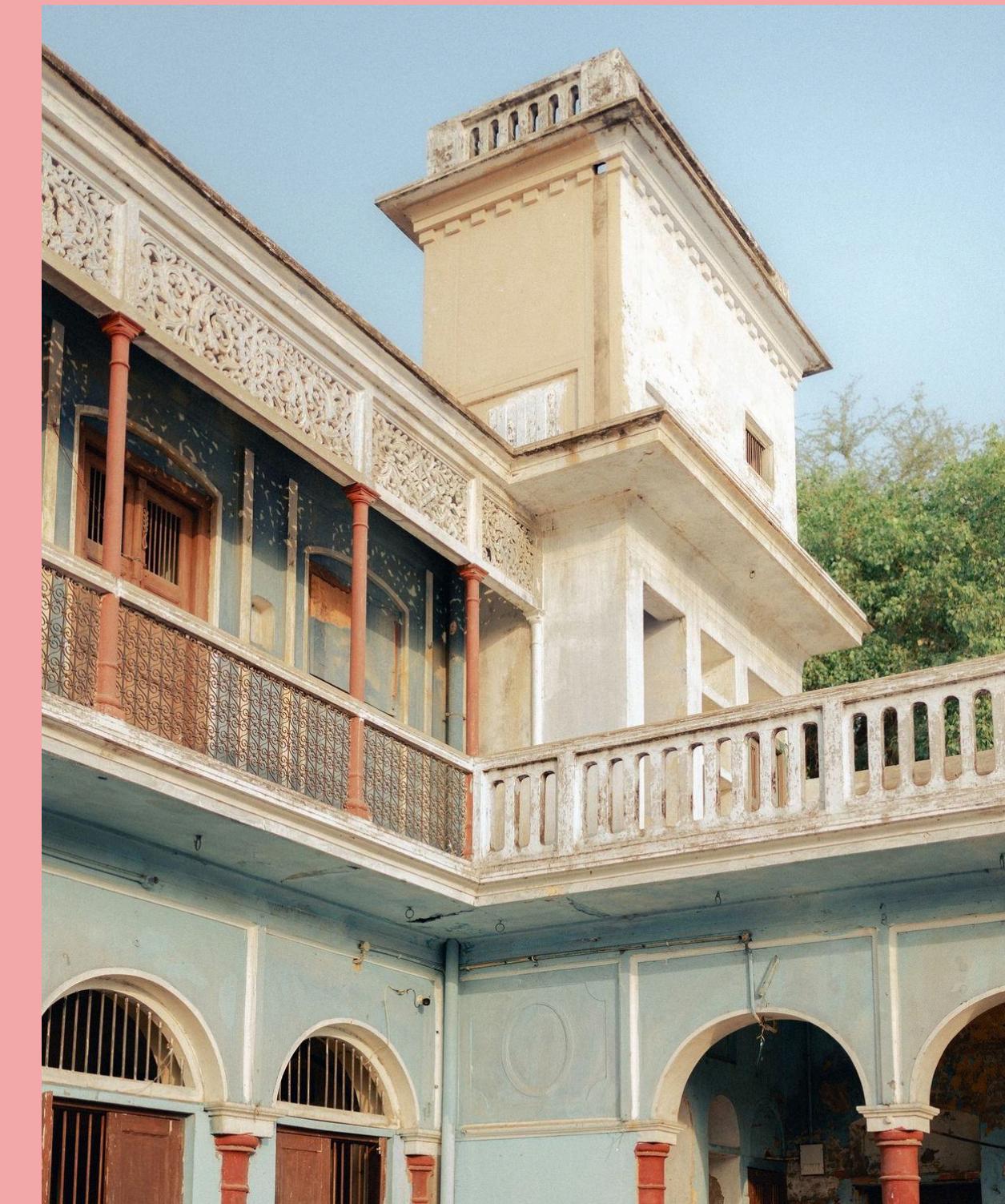
ISLAMIC/MUGHAL



COLONIAL



INDO GRECAN



CONTEMPORARY

Approach, Process

Exploring the city and finding a connection with type, interactivity, dynamism

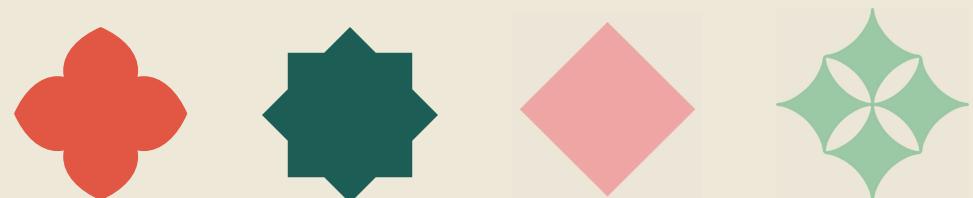
The challenge was to translate the intricate geometric patterns found in Lucknow's historic monuments into a modern, interactive format that could serve as both an educational resource and a creative tool.

1. RESEARCH & PATTERN ANALYSIS

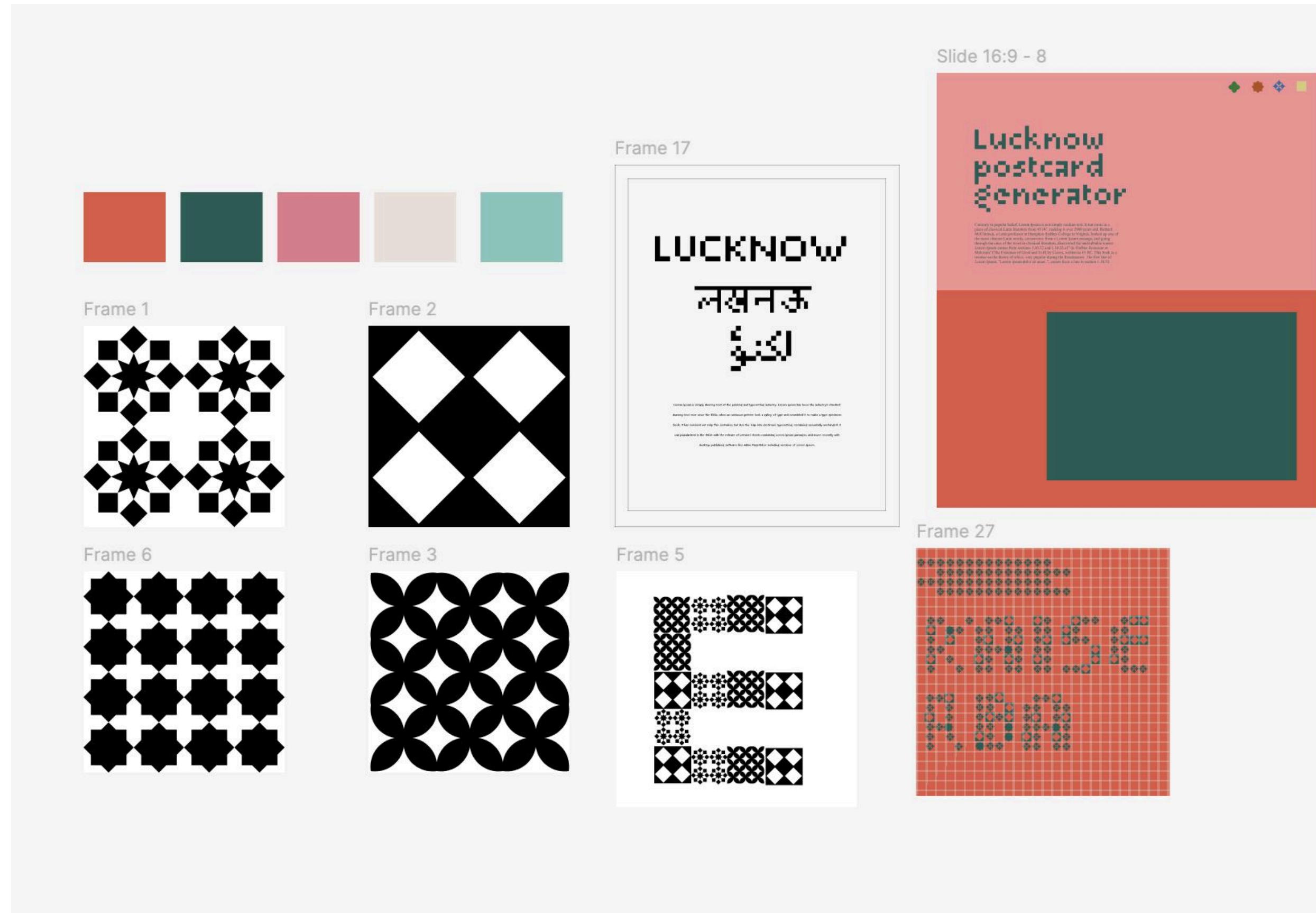
The project began with extensive research into Lucknow's architectural history, identifying four distinct stylistic periods that shaped the city's visual identity. Each era contributed unique geometric vocabularies that were documented and analyzed for their essential forms.

2. PATTERN TO ARCHITECTURE MAPPING

Four signature patterns emerged which were lightly simplified and tested, each representing a different architectural era and corresponding neighborhood:



Approach, Process



Lucknow Lattice serves as more than a design tool—it's a digital preservation effort that documents and celebrates the geometric vocabulary of Lucknow's architecture.

By mapping patterns to specific neighborhoods and heritage sites, the project creates an educational bridge between traditional craftsmanship and digital design.

Features

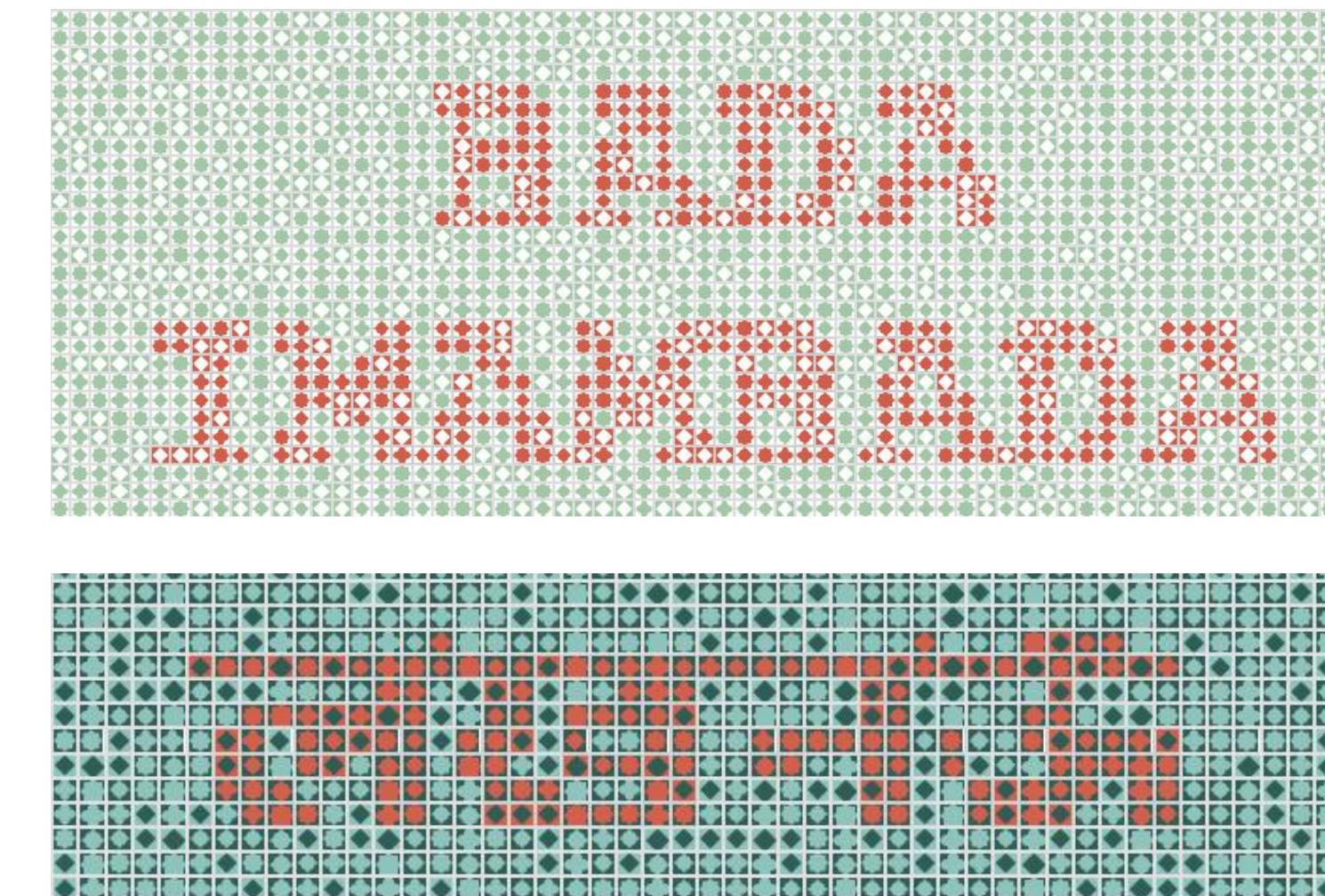
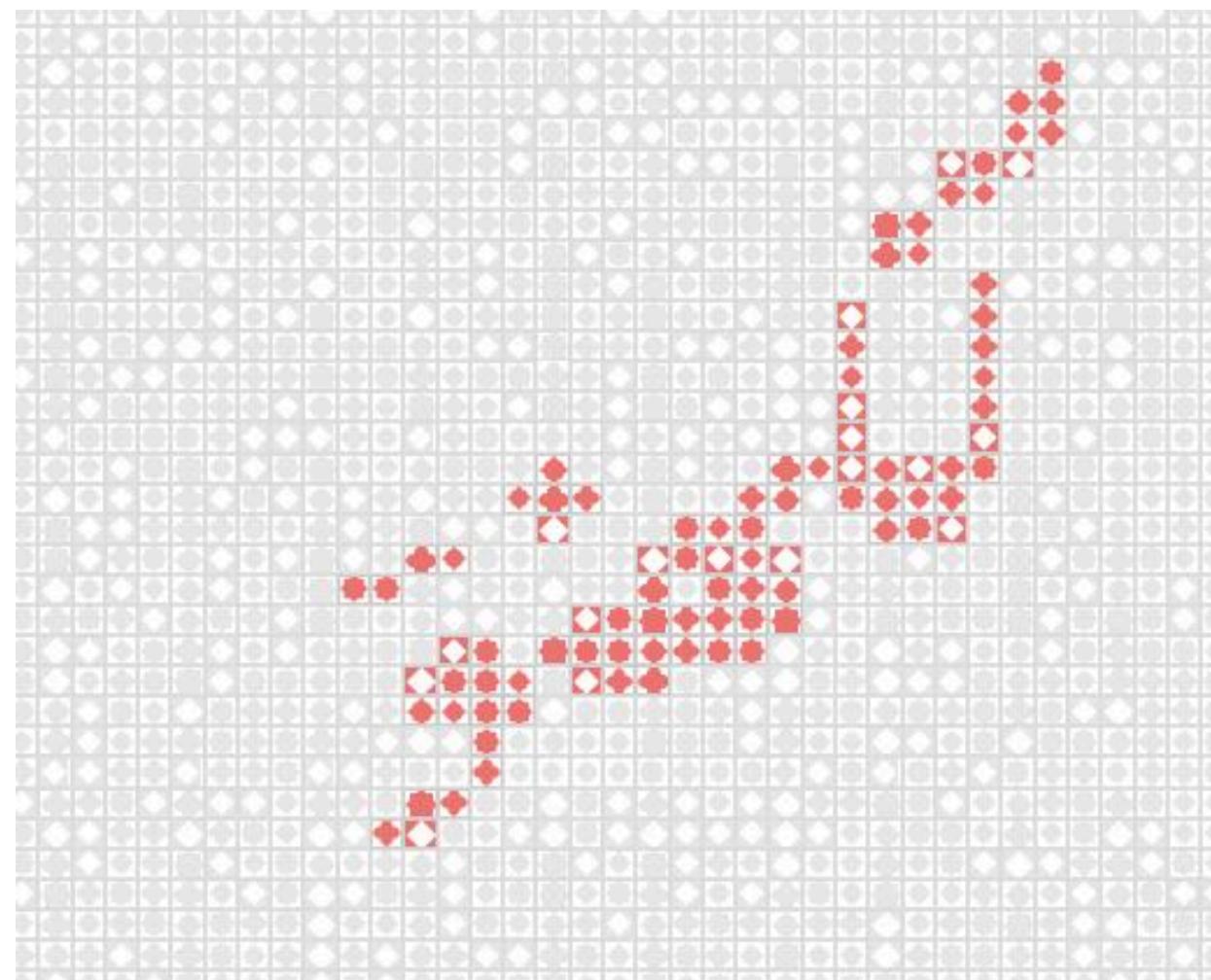
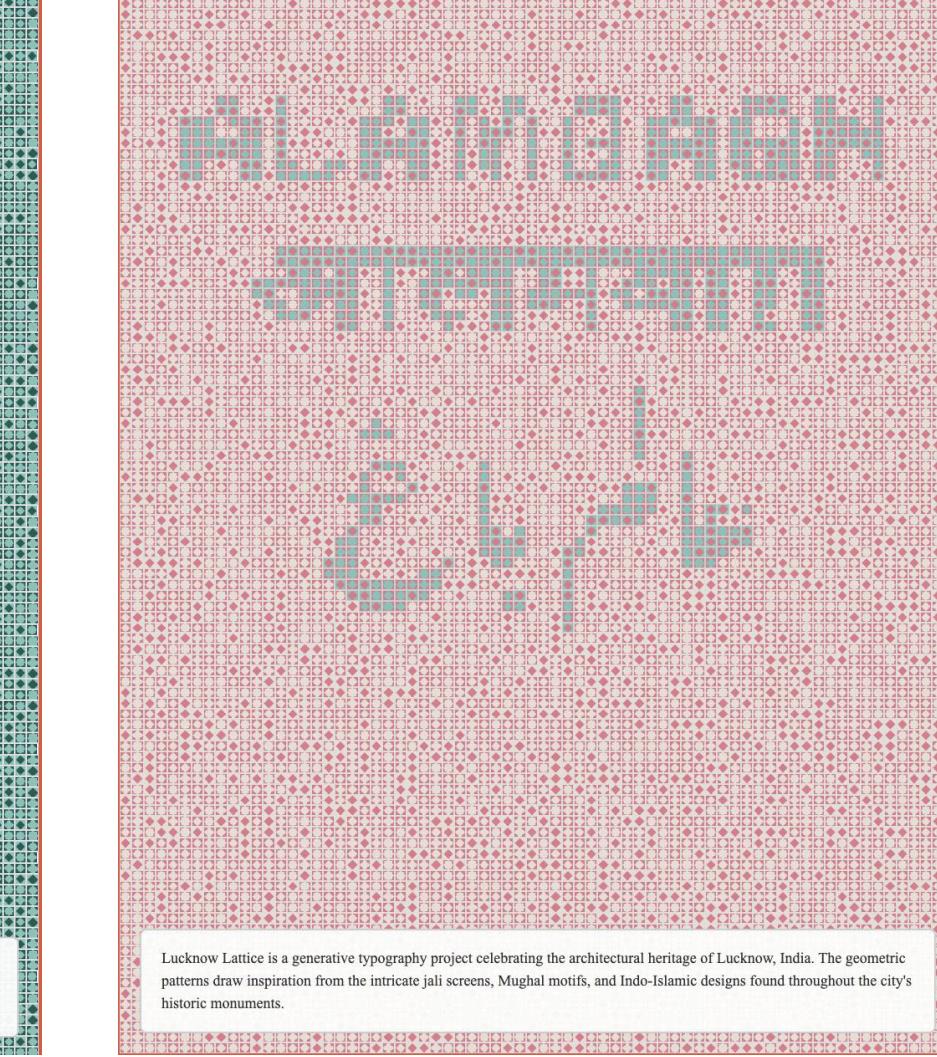
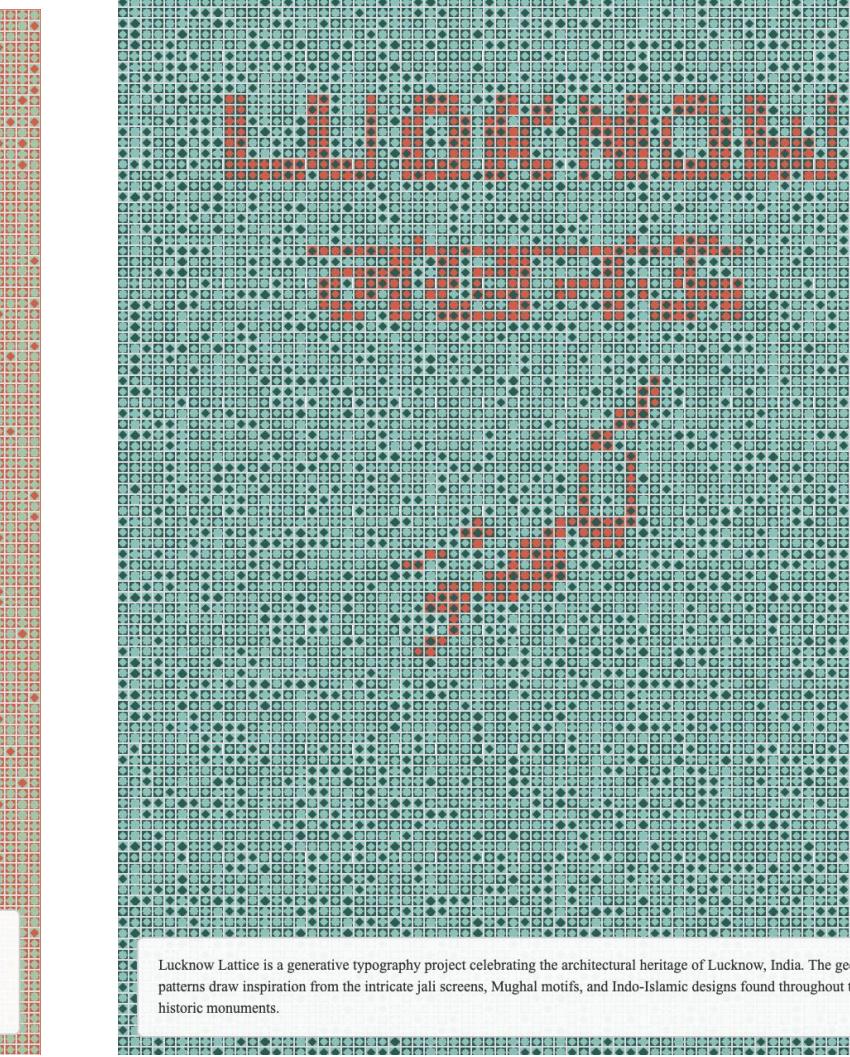
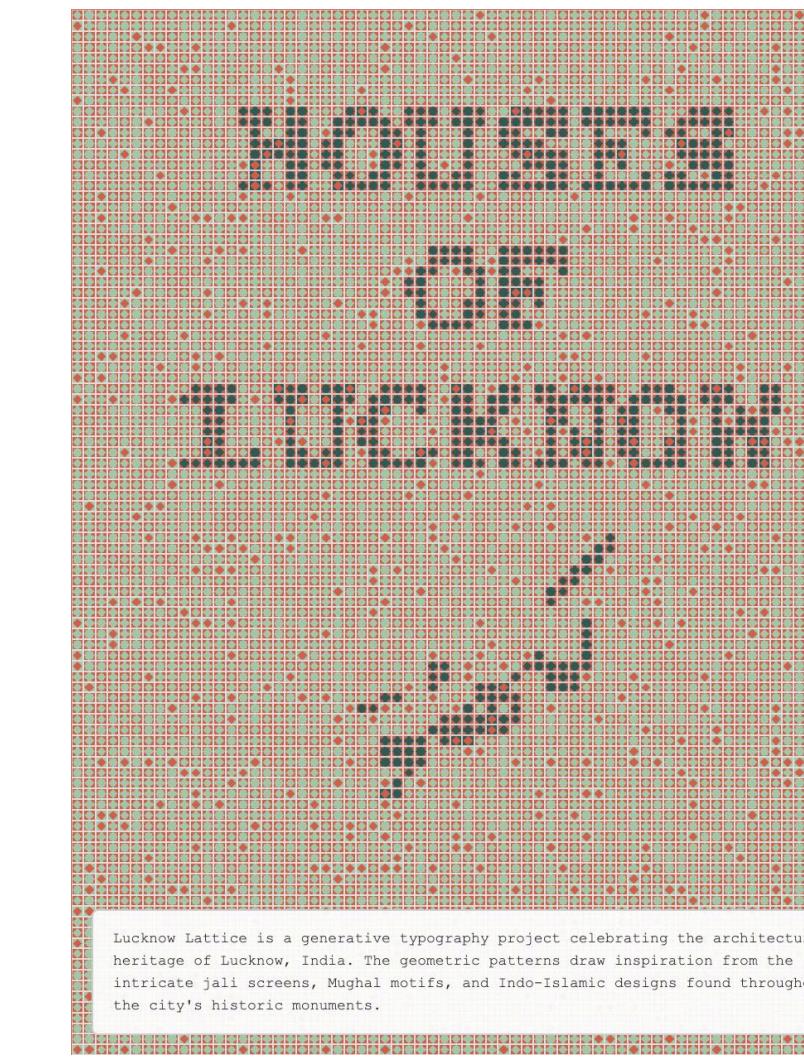
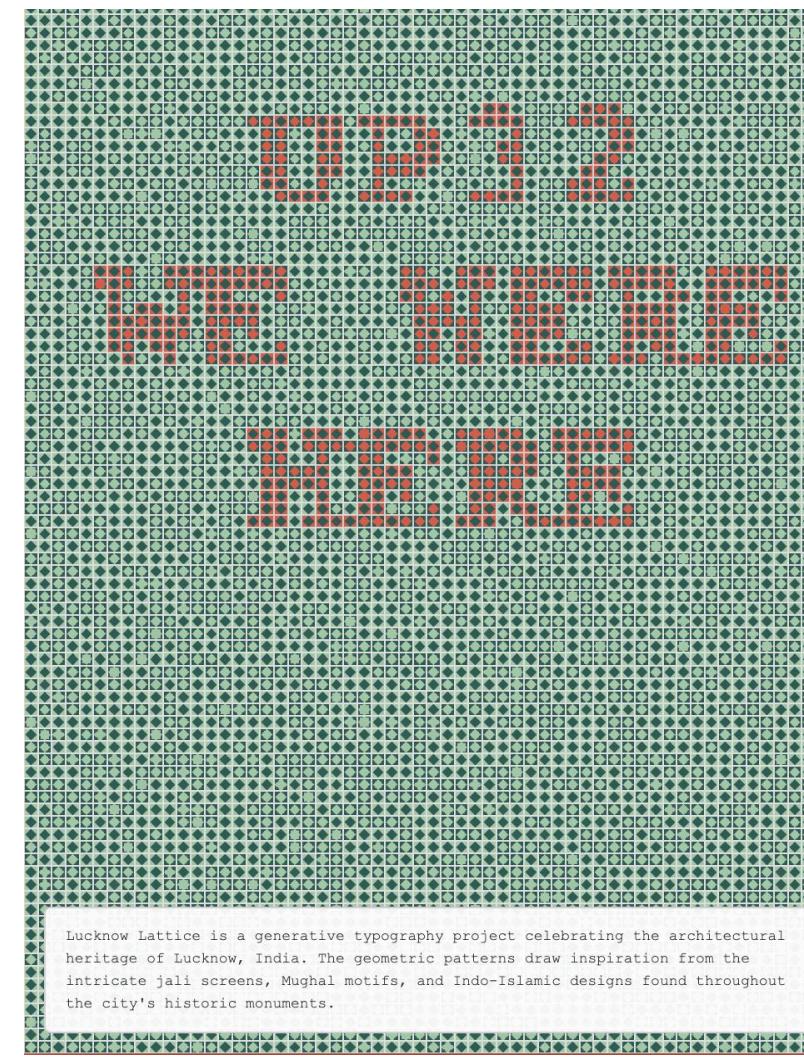
3. Trilingual Typography System

A key feature of the project is its support for three scripts that reflect Lucknow's linguistic heritage: English (Latin script), Hindi (Devanagari script), and Urdu (Nastaliq script). The pixel rendering system was developed to accurately represent each script's unique characteristics while maintaining visual harmony.

4. Interactive Features

The final application includes animated background patterns, customizable color schemes, adjustable pixel density, pattern mixing controls, and an interactive banner with hover effects that respond to user interaction.





The inclusion of all three scripts (English, Hindi, and Urdu) acknowledges Lucknow's syncretic culture, known as Ganga-Jamuni Tehzeeb, which blends Hindu and Muslim traditions into a unique cultural identity.