

Biochrome-Dyed Hair

A Sustainable Fashion Material



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- 1. Toxic dyes harm people, ecosystems, and supply chains.**
- 2. The hair industry generates massive chemical waste.**
- 3. Dyed hair could be used for people suffering from hair loss as a safe alternative**
- 4. Social Relavance by providing safe options for individuals with hair loss**



THE PROBLEM



Laetitia Ky
Photo: Laetitia Ky



Zanele Muholi
Photo: Hlonipha, Cassilhaus



Nick Cave/Soundsuit
Photo: Hayward Gallery



Zsotia Kollar
Photos Zsotia Kollar

Research Inspirations for the Project³

INTRODUCING

- Pigments produced by fruits and/or living organisms
- Requires minimal water + energy
- Safe, biodegradable, non-toxic
- Bonds naturally to keratin fibers (found in hair, skin, nails)



BIOCHROMES

Madder

Madder roots produce warm reds and oranges, historically used for dyeing wool and cotton, creating a rich palette for various textiles.



Black Walnut

Black walnut hulls yield rich browns, ideal for dyeing wool and linen, offering deep tones that enhance the beauty of natural fibers.



Beet Root

Beet root tubers provide vibrant pinks and purples, frequently used in dyeing cotton and silk, resulting in soft, eye-catching hues for fabrics.

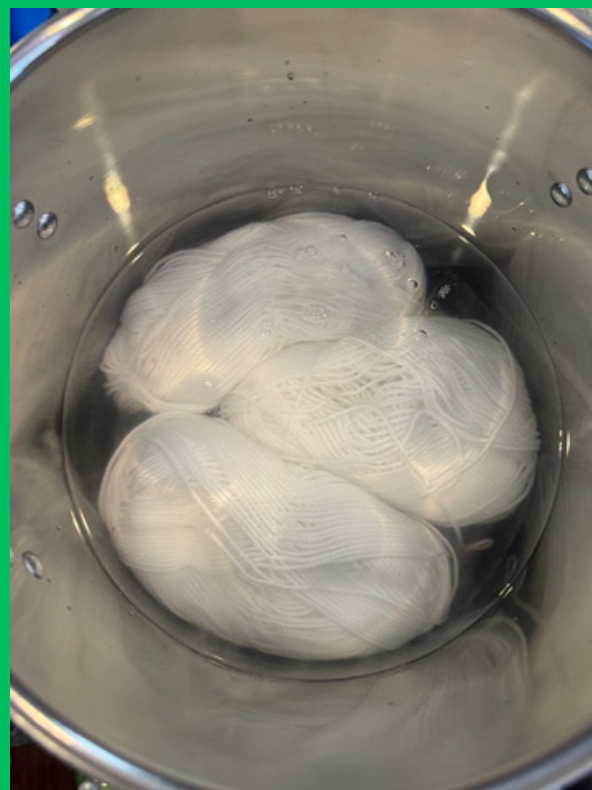




Initial



Alum



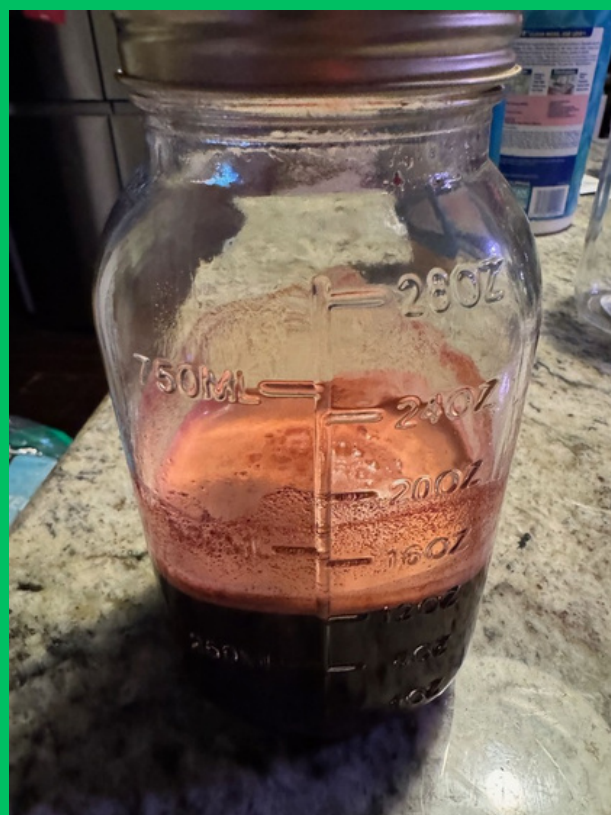
Scour Cotton



Apply to black
and blond
unprocessed
hair

(barely saw anything)

gwor



Madder



Black Walnut



Beet Root

Create Natural Hairstyle Wigs Using Natural Dyes from Yarn

Advantages

Cultural Representation

Promotes **authentic expression** of heritage, empowering individuals to embrace their natural beauty and cultural identity.

Safe & Non-Toxic

Made from **non-toxic materials**, ensuring a sensory-friendly experience for all, minimizing irritation and enhancing comfort.

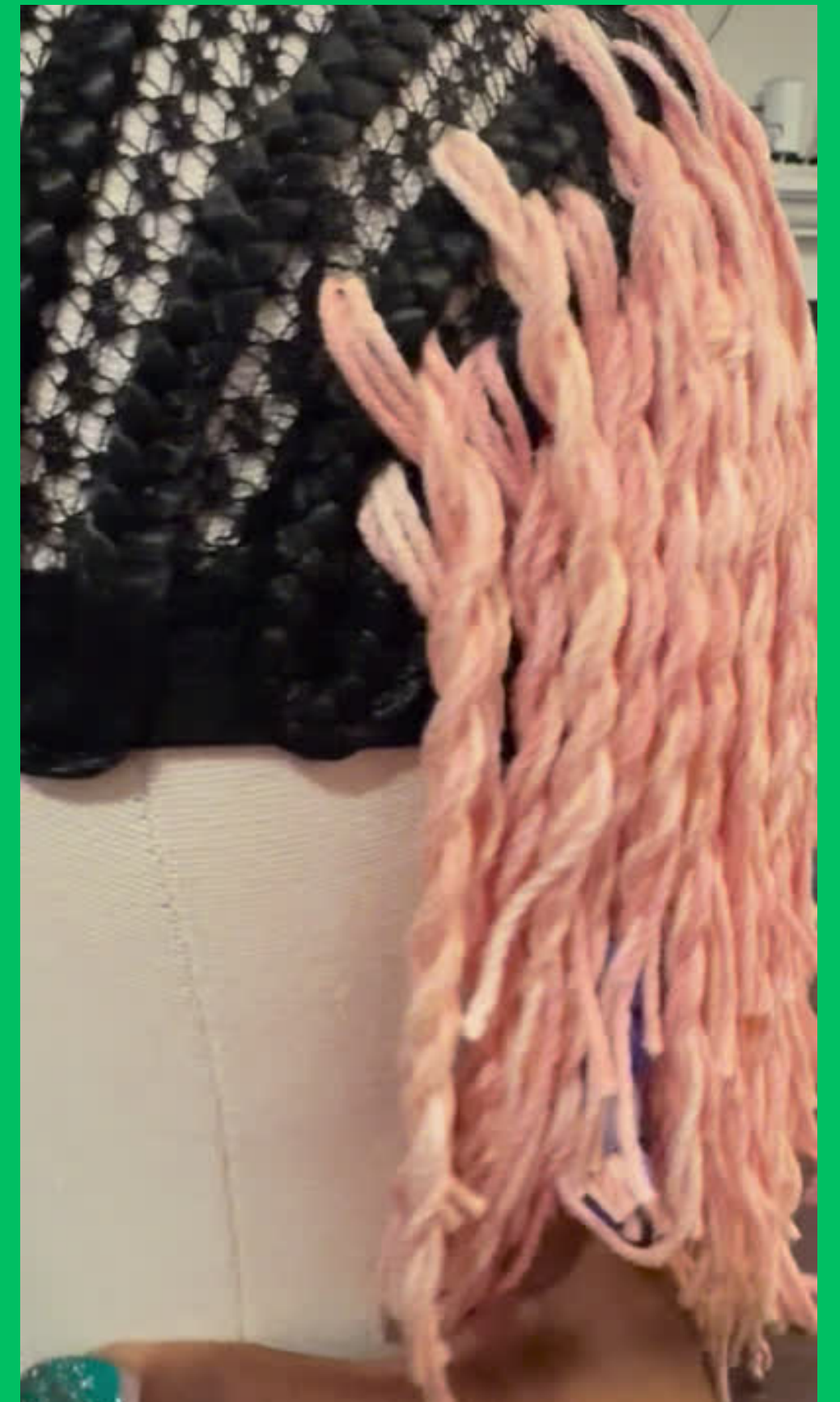
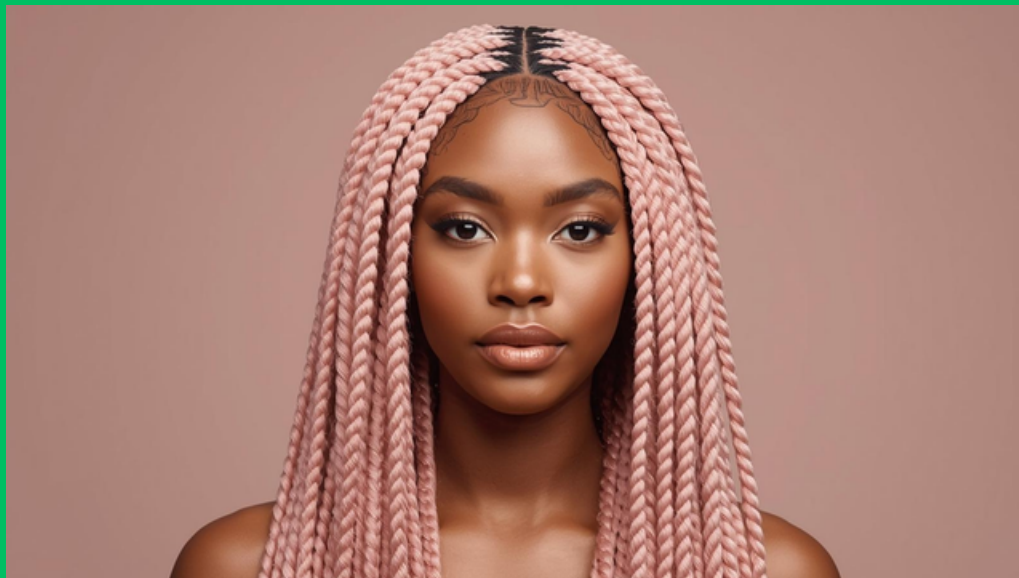
Sustainable Design

Crafted with **eco-friendly practices**, supporting ethical production that respects the environment and promotes sustainability.

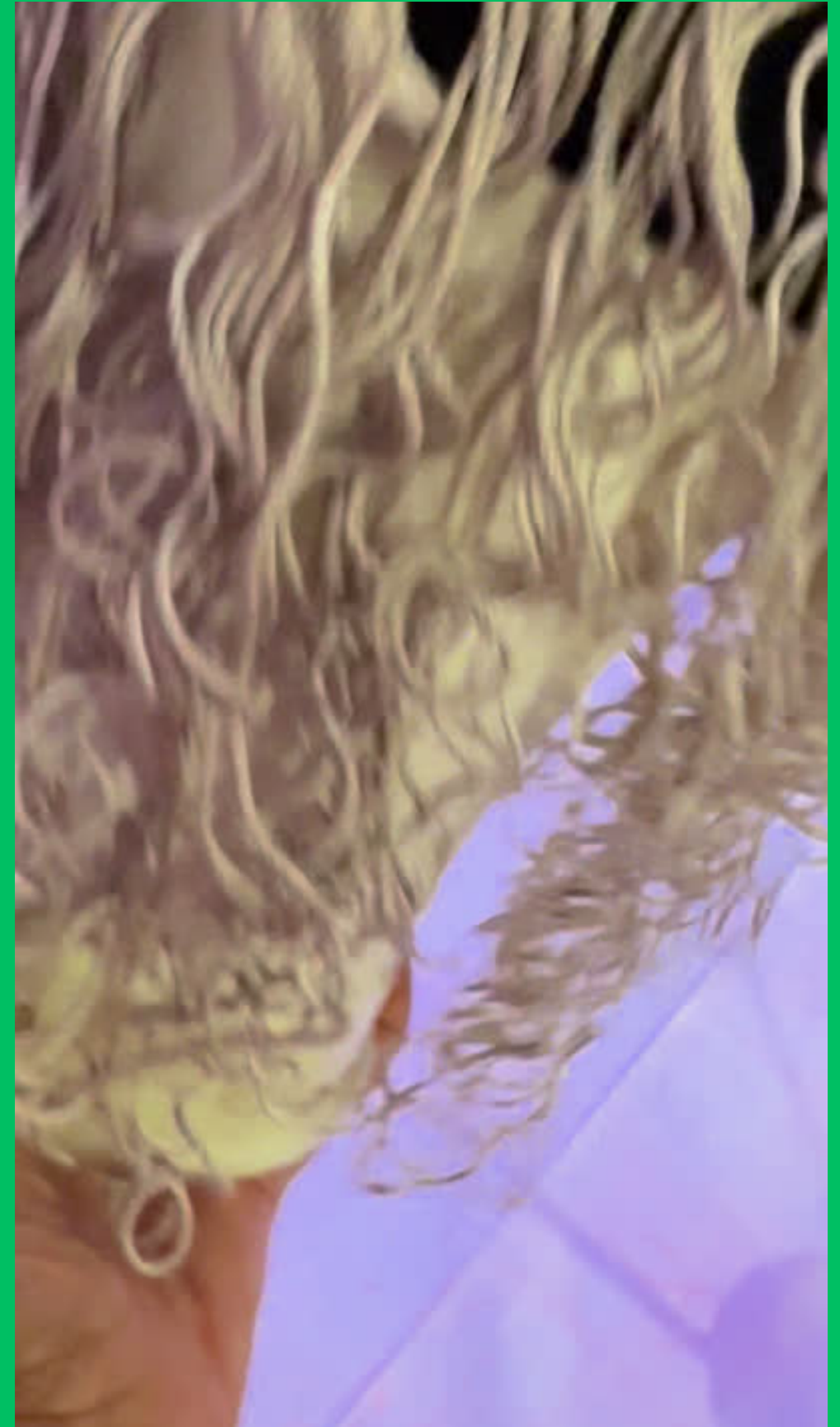
Accessible & Affordable

Provides **affordable options** for everyone, making high-quality, natural-style wigs accessible to a diverse audience.

Madder



Black Walnut



Finishing Project

1. Finish both wigs (redye (madder/black walnut yarns and make two more skeins of yarn for each wig
2. Create a full natural hair wig line from natural dyes. Add 3-4 more natural dyes such as onion peel, spirula/alfalfa, turmeric, and/or beet root.
3. Use 100% wool yarn

Inspiration Pictures for Wigs made from Yarns

