

BEYOND BLUE

**EXPLORING DENIM THROUGH
MODULAR, SUSTAINABLE,
AVANT GARDE PERSPECTIVES.**

**ZANDER
WEBSTER
25-03-2025**

Confidential

Copyright ©

Iaac

Institute for
advanced
architecture
of Catalonia



DENIM RECONNAISSANCE.

DENIM WASTE

“STUDIES INDICATE THAT 2.16 MILLION TONS OF WASTE IS GENERATED FROM JEANS ANNUALLY. EVEN IN EU COUNTRIES WHERE INFRASTRUCTURE FOR COLLECTING OLD CLOTHES EXISTS, ONLY 35 PER CENT TO 50 PER CENT OF THIS VOLUME IS COLLECTED BACK FOR RECYCLING. “

The Need for Denim Recycling and its Challenges, Sulagna Saha
<https://www.fibre2fashion.com/industry-article/9474/the-need-for-denim-recycling-and-its-challenges>

Confidential

Copyright ©



<https://www.achtung-mode.com/back-to-the-roots/>

CANADIAN TUXEDO

Dictionary

Definitions from [Oxford Languages](#) · [Learn more](#)



Canadian tuxedo

noun **HUMOROUS • NORTH AMERICAN**

a denim jacket worn with a pair of jeans.

"if you can wear denim to the office, then you can wear a Canadian tuxedo"

Confidential

Copyright ©



<https://www.yahoo.com/entertainment/did-kendrick-lamar-s-canadian-tuxedo-15300610.html?gucounter=1>

BEYOND BLUE



Confidential

Copyright ©



DEVELOPMENT



SKETCH



CLO 3D



PHYSICAL

DEVELOPMENT



SKETCH



CLO 3D



PHYSICAL .

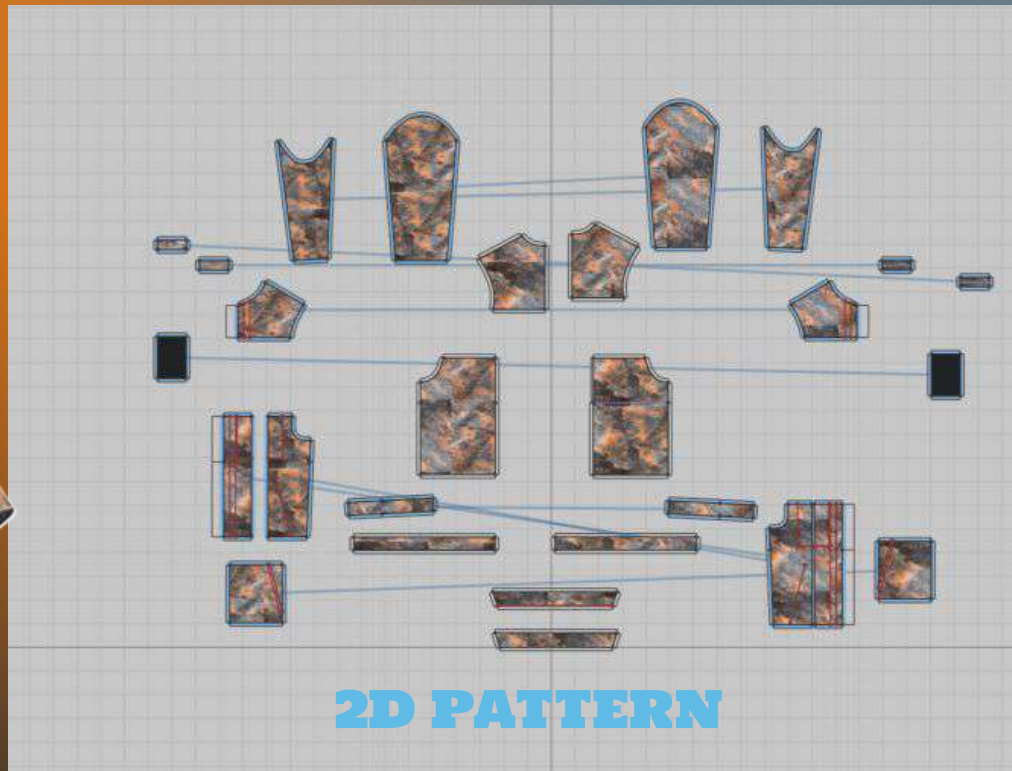
DIGITAL DESIGN / CLO 3D



SIMULATION

Confidential

Copyright ©



2D PATTERN

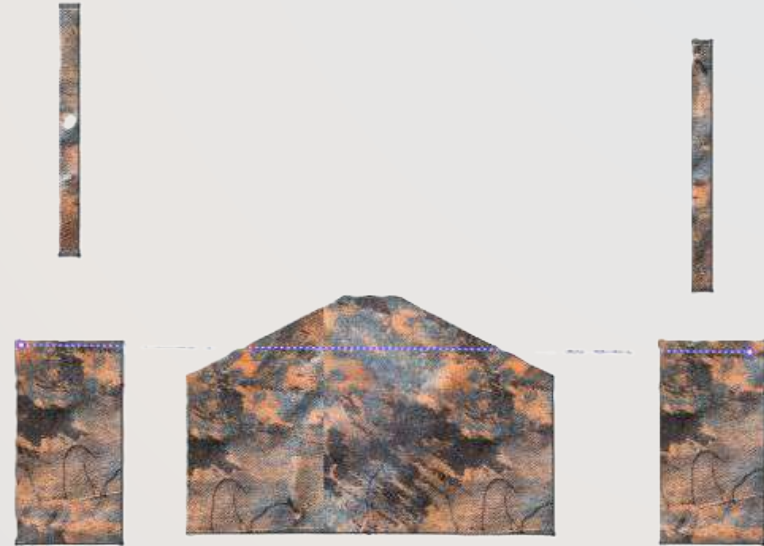
DIGITAL DESIGN / CLO 3D



SIMULATION

Confidential

Copyright ©

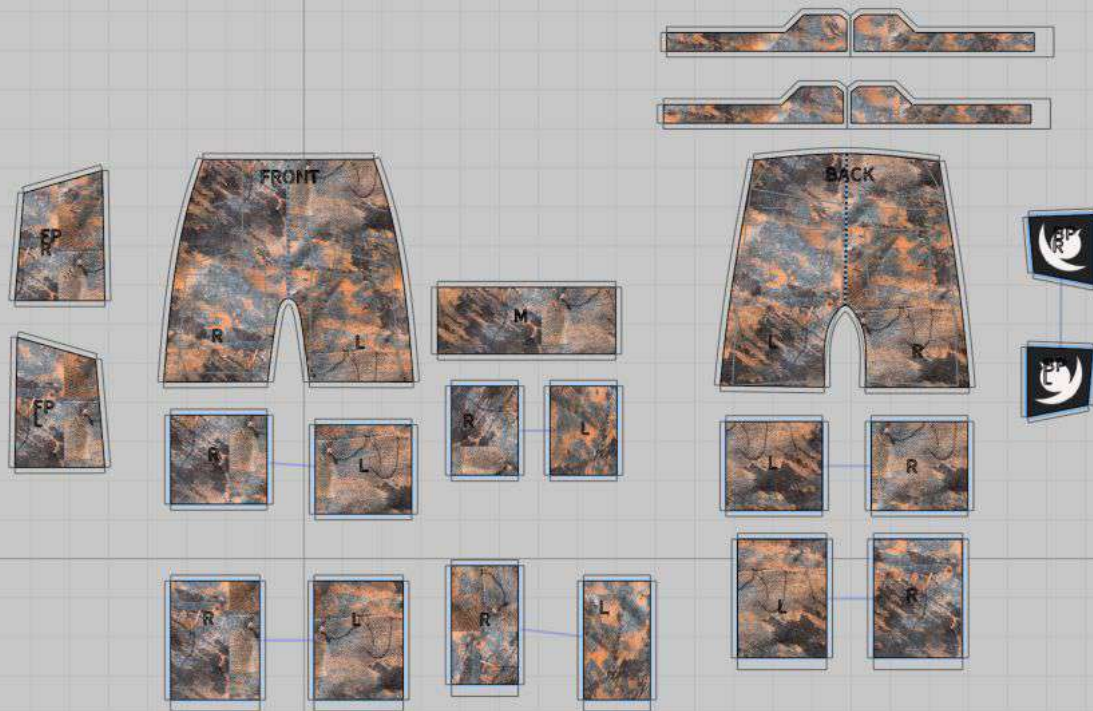


2D PATTERN

DIGITAL DESIGN / CLO 3D



SIMULATION



2D PATTERN

MODULARITY



MODULARITY



MODULARITY



DIGITAL FABRICATION

Product Name: all patterns.zprj
 Fabric: V1_Woven_Denim_Raw
 Width: 51.181" (1300mm)
 Length: 0.63yd(576.338mm)
 Direction: 1-way
 Placed Pieces: 8/60
 Consumption : 83.4694%
 Wastage : 16.5306%
 Number of Garments : 1
 Grade: Nil



Product Name: all patterns.zprj
 Fabric: V1_Woven_Denim_Raw
 Width: 51.181" (1300mm)
 Length: 0.79yd(725.586mm)
 Direction: 1-way
 Placed Pieces: 8/60
 Consumption : 78.687%
 Wastage : 21.313%
 Number of Garments : 1
 Grade: Nil



Product Name: all patterns.zprj
 Fabric: V1_Woven_Denim_Raw
 Width: 51.181" (1300mm)
 Length: 0.69yd(630.287mm)
 Direction: 1-way
 Placed Pieces: 8/60
 Consumption : 46.2507%
 Wastage : 53.7493%
 Number of Garments : 1
 Grade: Nil



Product Name: all patterns.zprj
 Fabric: V1_Woven_Denim_Raw
 Width: 51.181" (1300mm)
 Length: 0.97yd(884.269mm)
 Direction: 1-way
 Placed Pieces: 8/60
 Consumption : 76.4501%
 Wastage : 23.5499%
 Number of Garments : 1
 Grade: Nil



PATTERN NESTING

DIGITAL FABRICATION

Product Name: all patterns.zprj
 Fabric: V1_Woven_Denim_Raw
 Width: 51.181" (1300mm)
 Length: 0.94yd(862.896mm)
 Direction: 1-way
 Placed Pieces: 8/60
 Consumption : 80.9144%
 Wastage : 19.0856%
 Number of Garments : 1
 Grade: Nil



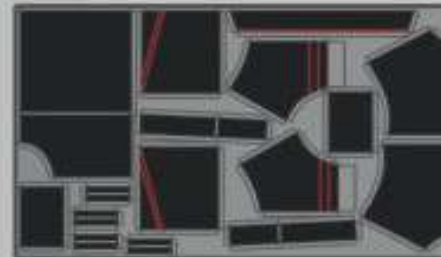
Product Name: all patterns.zprj
 Fabric: V1_Woven_Denim_Raw
 Width: 51.181" (1300mm)
 Length: 0.59yd(539.12mm)
 Direction: 1-way
 Placed Pieces: 8/60
 Consumption : 76.3354%
 Wastage : 23.6646%
 Number of Garments : 1
 Grade: Nil



Product Name: all patterns.zprj
 Fabric: V1_Woven_Denim_Raw
 Width: 51.181" (1300mm)
 Length: 0.89yd(812.446mm)
 Direction: 1-way
 Placed Pieces: 8/60
 Consumption : 73.4245%
 Wastage : 26.5755%
 Number of Garments : 1
 Grade: Nil



Product Name: all patterns.zprj
 Fabric: V1_Woven_Denim_Raw
 Width: 51.181" (1300mm)
 Length: 0.82yd(749.909mm)
 Direction: 1-way
 Placed Pieces: 8/60
 Consumption : 82.3218%
 Wastage : 17.6782%
 Number of Garments : 1
 Grade: Nil



PATTERN NESTING

WORKFLOW

LASER CUT PATTERNS





Confidential

Copyright ©

BIO-MATERIAL PAINT / COATINGS



◀ **UNWASHED**

**AGAR BIO LEATHER /
PURPLE MICA
PIGMENT**

WASHED ➤



BIO-MATERIAL PAINT / COATINGS



◀ **UNWASHED**

**AGAR BIO-LEATHER /
INDIGO, BURNT
SIENNA PIGMENT,
CHARCOAL**

WASHED ▶





**INSPIRATION/ RUSTY
METALLIC PATINA**



**AGAR BIO-LEATHER /
INDIGO, BURNT SIENNA PIGMENT,
TWO LAYERS /AFTER WASHING
MACHINE.**



BIO-MATERIAL PAINT / COATINGS

**QUILTED GELATINE/AGAR
SOFT BIO-LEATHER/PLASTIC**



GELATINE RIGID BIO PLASTIC



**GELATINE AND AGAR AGAR BASED BIO-PLASTIC FOR
PACKAGING UTILIZING DENIM WASTE. WATER DISSOLVABLE**

RECYCLED DENIM



Confidential

Copyright ©

RECYCLED DENIM BIO-MATERIAL GARMENT BAG



Canadian Tuxedo



Exploring the cultural and fashion implications

Modular Clothing



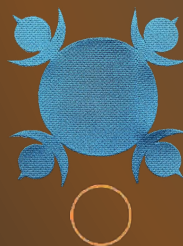
Versatile denim pieces that can be mixed and matched.

Denim Recycle



Initiatives to repurpose and reduce denim waste.

END



Brand Development

Improving the tools and techniques of my brand.



Digital Design

Utilizing Clo3d to iterate and create samples



Bio-Material

Exploring sustainable materials for denim painting and coatings.