

Louisa Reilly

WHY SHOULD WE CARE?

Interior design styles are difficult to explain without a frame of reference

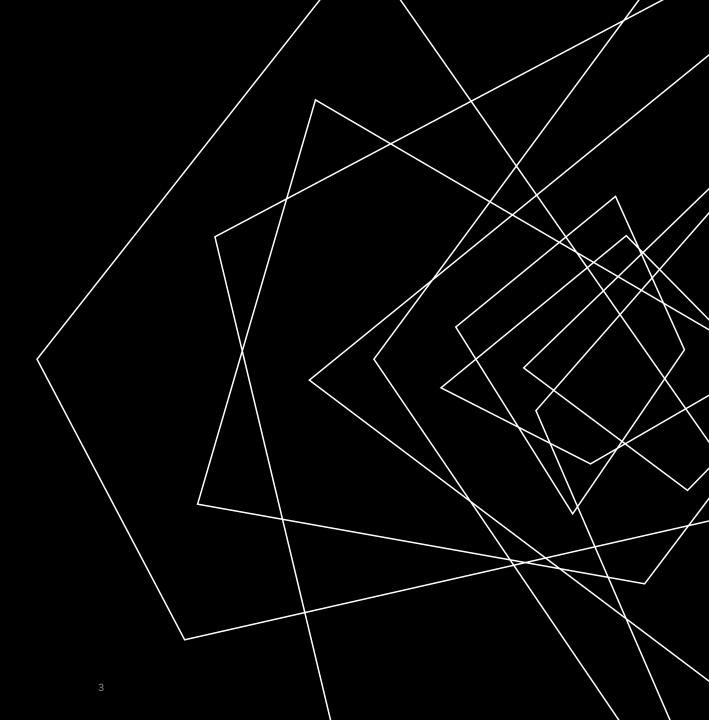
Aid communication between interior designers and their clientele

Bohemian Rustic

Contemporary Scandinavian

Industrial Traditional

Modern Translational



Bohemian Rustic

Contemporary Scandinavian

Industrial Traditional

Modern Translational



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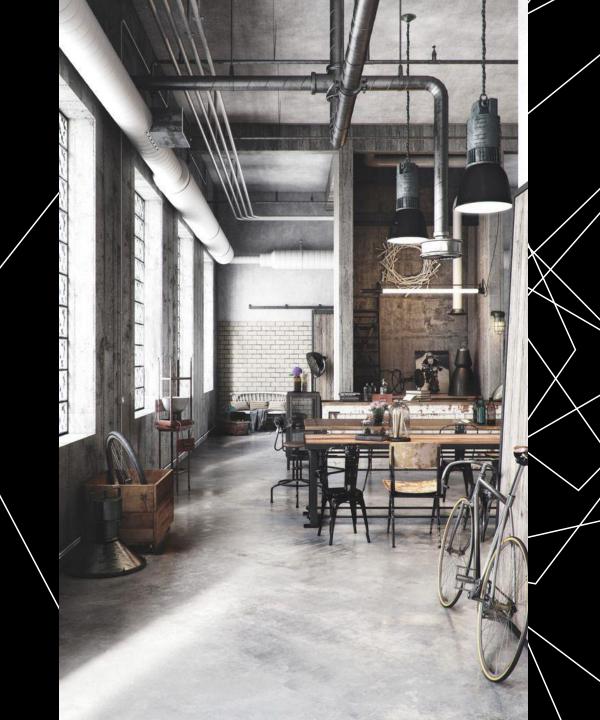


Bohemian Rustic

Contemporary Scandinavian

<u>Industrial</u> Traditional

Modern Translational



Bohemian Rustic

Contemporary Scandinavian

Industrial Traditional

Modern Translational

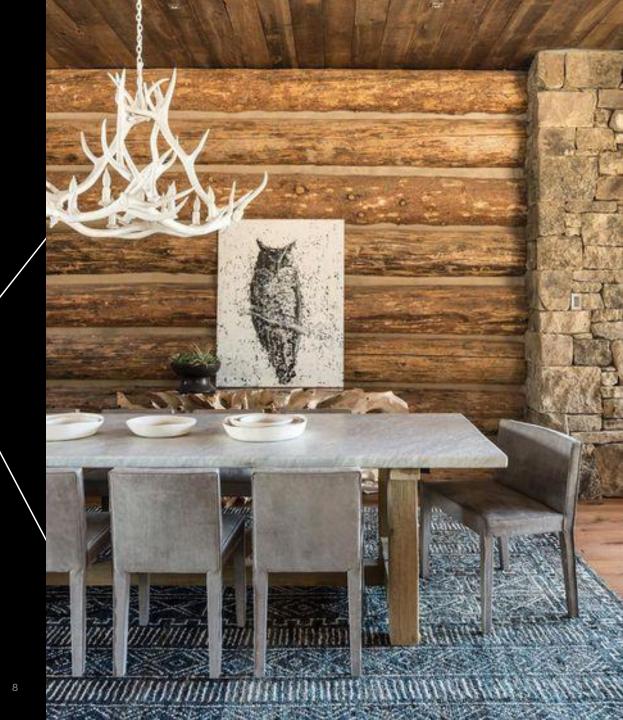


Bohemian Rustic

Contemporary Scandinavian

Industrial Traditional

Modern Translational



Bohemian Rustic

Contemporary <u>Scandinavian</u>

Industrial Traditional

Modern Translational



Bohemian Rustic

Contemporary Scandinavian

Industrial <u>Traditional</u>

Modern Translational



Bohemian Rustic

Contemporary Scandinavian

Industrial Traditional

Modern <u>Translational</u>





TRANSLATIONAL





Combination of traditional and modern/ contemporary

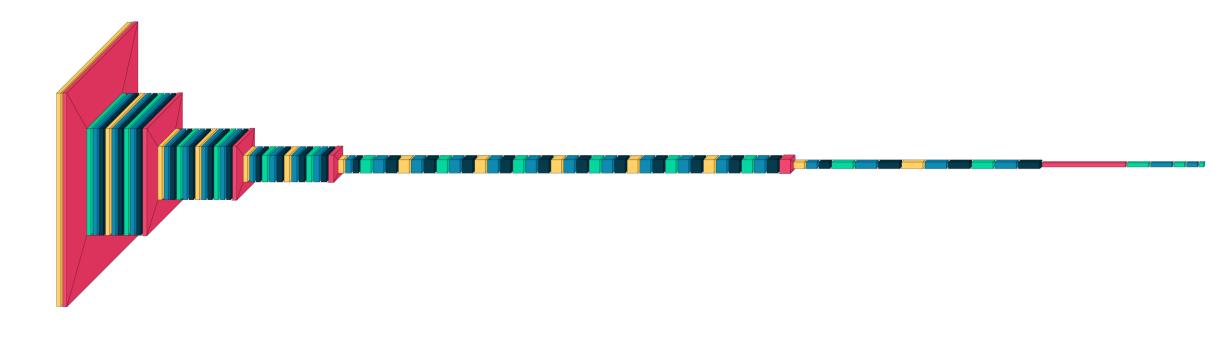
Many other classes have elements of each other incorporated into the design



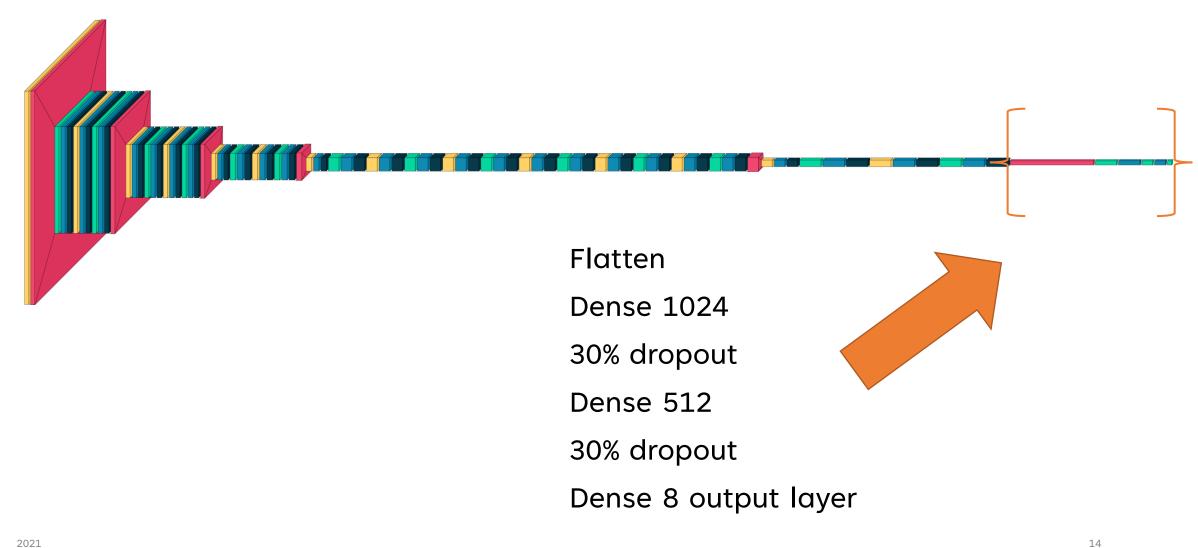




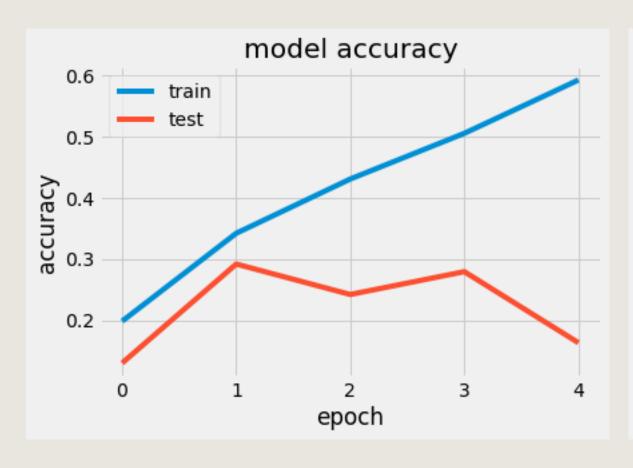
MOBILENET BASE AND NOVEL NN

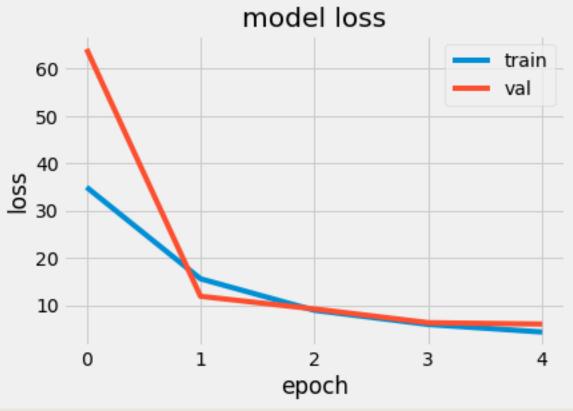


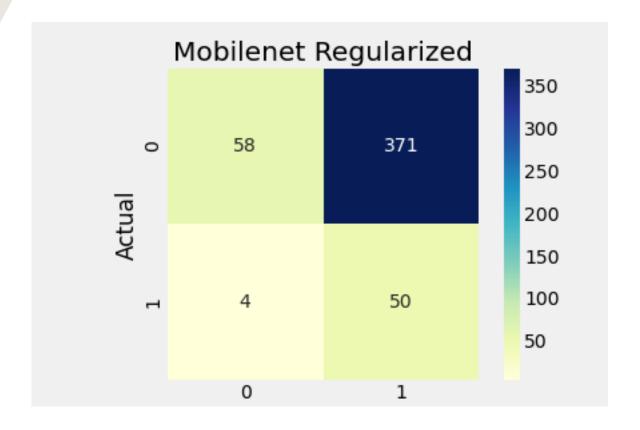
MOBILENET BASE AND NOVEL NN



NN TRAINING AND OVERFITTING







GUESSING ONE CLASS?

For Modern Style, 0 = not modern, 1 = is modern



Conclusions

Model is overfitting

Dropout and L2 regularization not help

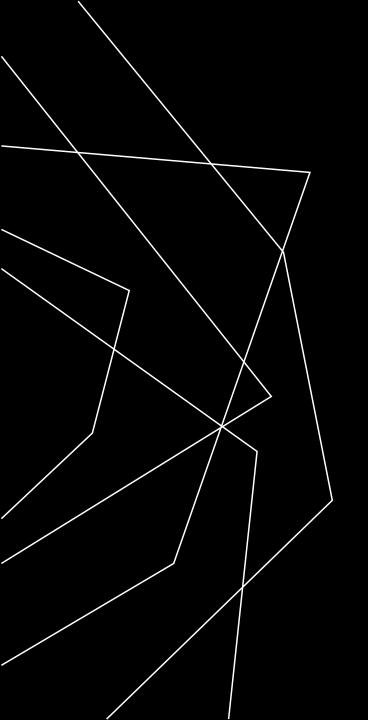
Default is to guess modern style

Future Work

Scrape more data

Image augmentation

Fluid Classes



THANK YOU

Any Questions?

ABOUT THE DATASET

~300 pictures per class

Some pictures in multiple classes

A lot of overlap in styles



BOHEMIAN









INDUSTRIAL



e growth



