

Exploring 3D Scanning for the Creation of Digital Cultural Heritage Collections

JD Schaumberg
Anna Proctor
Jenny Johnson

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INDIANA UNIVERSITY-PURDUE
UNIVERSITY INDIANAPOLIS

Introduction

IUPUI University Library

- Urban Campus right in the center of downtown Indianapolis, Indiana

Civic Engagement-university mission

- Work with Cultural Heritage and Community Organizations to create digital collections
- 80 digital collections

Digital Collections

Audio



Video



Negatives

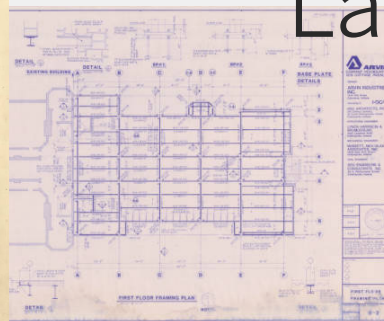
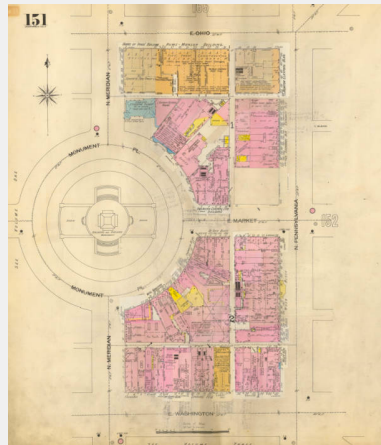
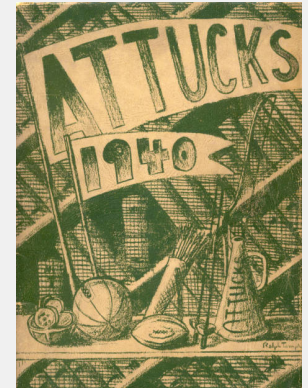
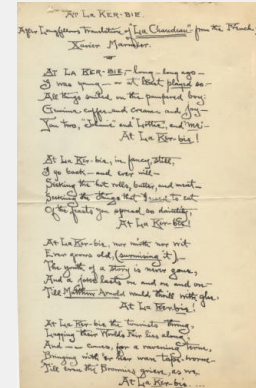
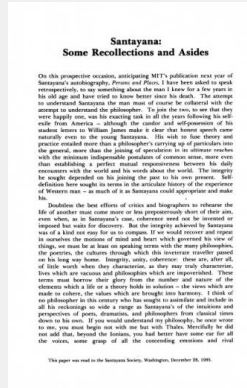


Photographs



Digital Collections

Text-Based



Large Format

CONTENTdm

Search

Search Advanced Search

Results 17 of 10000

Home >> Indianapolis Motor Speedway Collection >> #12 Car in Pits on Race Day, 1946

Reference URL Share Add tags Comment

#12 Car in Pits on Race Day, 1946

[View Description](#)



Description

Title #12 Car in Pits on Race Day, 1946

Date 1946

Established Metadata Standards and Best Practices for Digitization

Object Description

Title [Cream Silk Dress](#)

Object ID [96.14.ab](#)

Subject [Textiles -- History](#)
[Clothing and dress](#)

Description [Material is cream silk woven with net gathered on silk ribbon fully bodice \(B\) has wide neckline dou fastened with 3 buttons, net inse inserts with 4 ribbon rosettes ea](#)

Date [\[between 1849 and 1865\]](#)

Type [Dress](#)
[Clothing for women](#)

Condition [Excellent](#)

Notes from the Curator [- Colors: cream, pink, green](#)

Conner Prairie Collection [Permanent Collection](#)

Owning Institution [Conner Prairie](#)

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Have Questions? [Visit: <http://www.connerprairie.c>](#)

Funding [Funding provided by an Institute](#)

Digital Publisher [IUPUI University Library](#)

Digital Collection [The Conner Prairie Historic Clothi](#)

Digital Date [2009-08-17](#)

Originals as PHOTOGRAPHS ⁱ

	Master	Access	Thumbnail
File Format	TIFF	JPEG	JPEG
Bit Depth	8 bit grayscale 24 bit color	8 bit grayscale 24 bit color	8 bit grayscale 24 bit color
Spatial Resolution	300-800 ppi, or 3000 to 5000 pixels across the long dimension	150 ppi	96 ppi
Spatial Dimensions	100% of original	600 pixels across the long dimension	150-200 pixels across the long dimension

Originals as MAPS

	Master	Access	Thumbnail
File Format	TIFF	JPEG	JPEG
Bit Depth	8 bit grayscale 24 bit color	8 bit grayscale 24 bit color	8 bit grayscale 24 bit color
Spatial Resolution	3000 pixels across the long dimension, or 300-400 ppi	150 ppi	96 ppi
Spatial Dimensions	100% of original	600 pixels across the long dimension	150-200 pixels across the long dimension

3D Digitization- 2009 Pilot Project

Conner Prairie Interactive History Park



3D Digitization in 2015



**American
Red Cross**

Celebrating a Century
in Indiana



Benjamin Harrison Presidential Site
Championing the values and legacy of the 23rd President

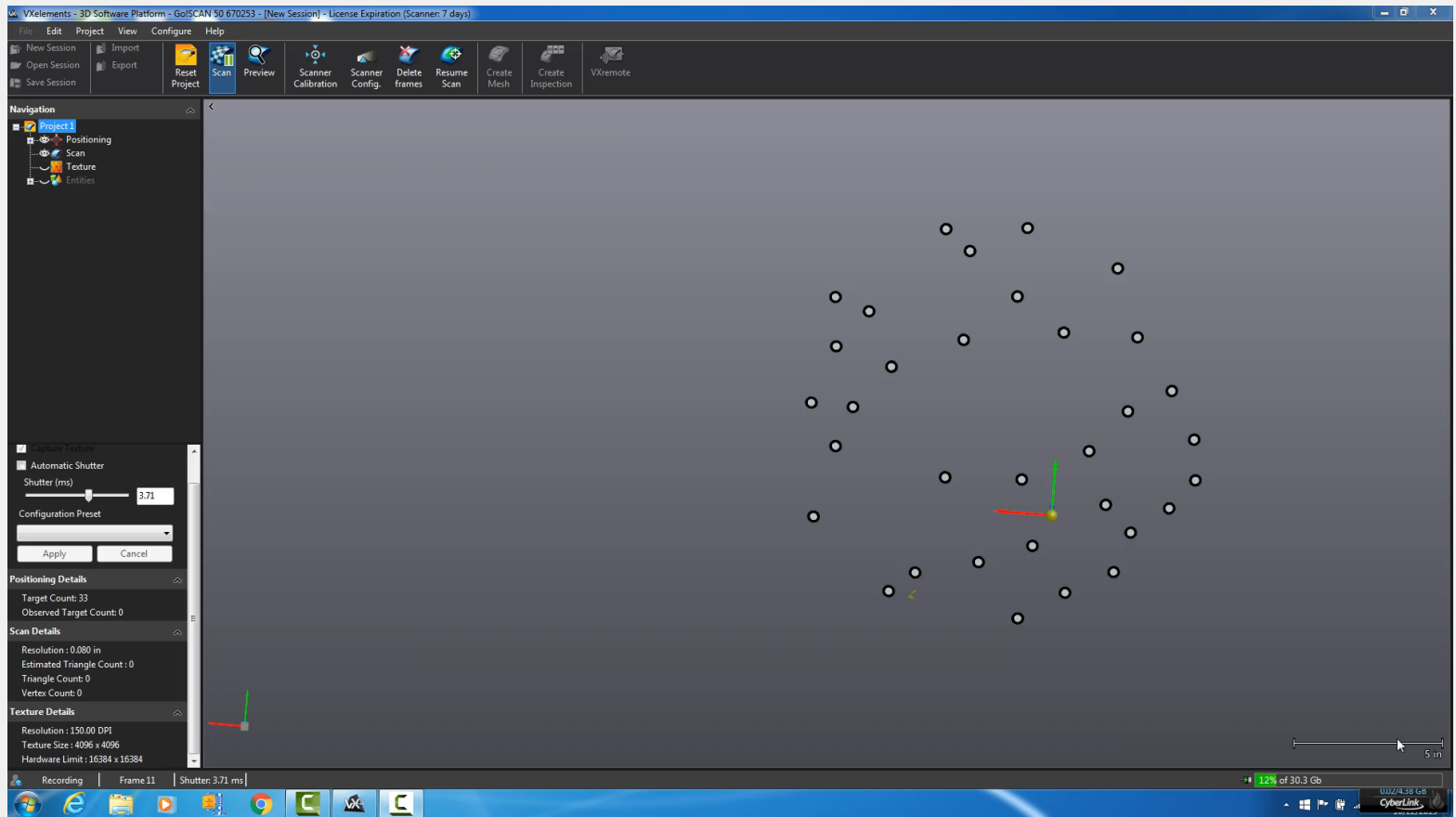
Tagged Image File Format vs. Standard Tessellation Language



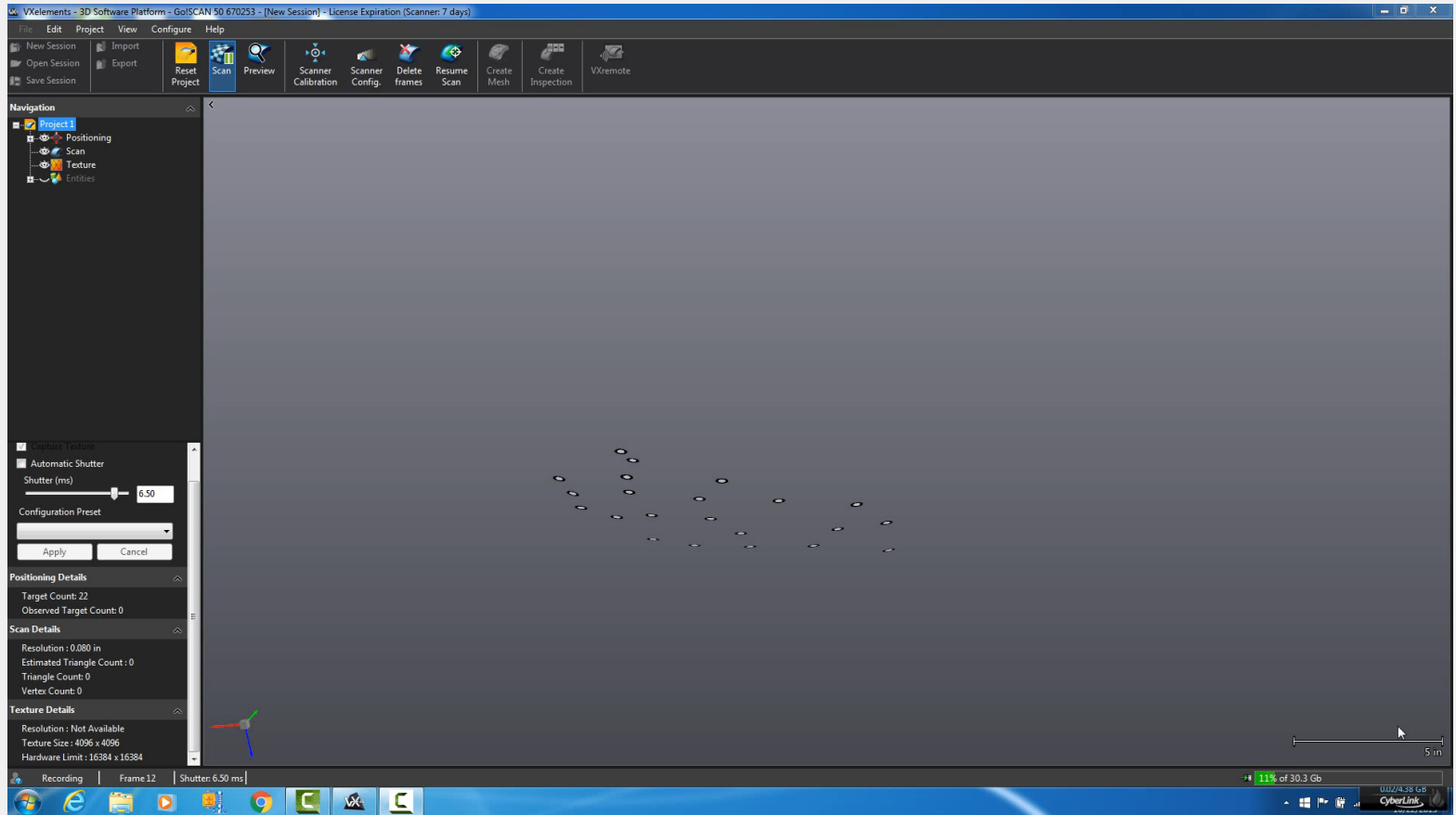
- Tiff is a collection of 2D points.
- Stl is a collection of 3D points
- Stl Formats are foundation of a 3D model.



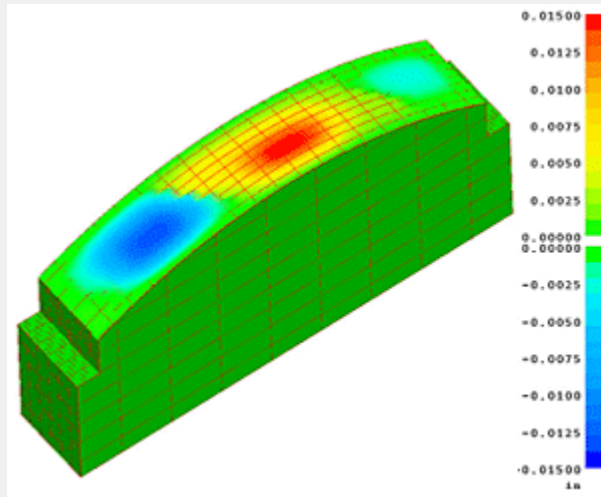
Scanning Demo



Scanning Demo



Benefits of 3D Digitization



- Comparative analysis
- Education and research
- 3D printing

