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SA
3D

Stéphane Agullo

Spatial 3D Artist · SA3D

sa3d.fr

RADIANCE FIELD — DATASETS

Real-world captures and synthetic scenes, with source images, camera poses and point clouds.

Capture.
Compose. Share.

Six datasets for radiance field research, compression and quality assessment.

VERSAILLES

Aerial Heritage Capture

Aerial capture of the Queen's Hamlet at Versailles, reconstructed as radiance fields.

LES TANINS

Synthetic Architectural Interior

Synthetic interior in Bordeaux, exploring furnished spaces, materials and lighting.

SERENITY

Atmospheric Diorama

Synthetic diorama exploring volumetric fog, atmospheric lighting and fine details.

HAUSSMANN

Low-Texture Interior

Synthetic white interior testing low-texture reconstruction and point-cloud initialization.

UV CUBE

Geometric Reconstruction

Synthetic UV checker cube testing geometric fidelity, volume reconstruction and distortions.

BIKE

Product Visualization

Synthetic bicycle testing thin structures, metallic surfaces and fine details.



RADIANCE FIELD DATASETS

Real-world captures and synthetic scenes.
For research, compression and quality assessment.

SOURCE DATA & RECONSTRUCTIONS

Images, camera poses, point clouds and PLY files.
Reconstruction tools and settings documented.

RESEARCH & SHARING

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Render · Capture · Compose · Interior · Lab · Dataset · Experience

SPATIAL 3D ARTIST
linkedin.com/in/stephaneagullo

Stéphane Agullo · SA3D

hello@sa3d.fr · sa3d.fr

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DATASET — VERSAILLES

Real-world capture with source images, camera poses and point clouds.

Capture.
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Aerial capture of the Queen's Hamlet at Versailles, reconstructed as radiance fields.

CAPTURE & PROCESSING

315 photographs · DJI Inspire 2 / Zenmuse X7 · Alignment: RealityScan 2.2 · Point-cloud densification: LichtFeld Studio 0.5.4

RECONSTRUCTION

Spirula Studio v2026.11.12 · 3M Gaussians · SH2 · 90k steps · PPISP · Bilateral grid · Calibration correction: Accurate · Floater suppression: Moderate · White background

DATASET CONTENTS

Documentation, photographs, camera poses, point clouds and a PLY reconstruction.

SOURCES

Palace of Versailles · 2018

LICENSE & USAGE

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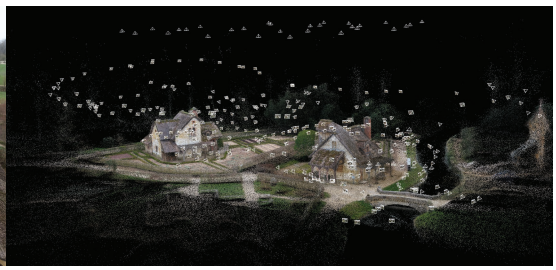
VISUALIZATION & DOWNLOAD

https://superspl.at/scene/abd75280 · https://sa3d.fr/sa3d_dataset_versailles.zip

CONTACT

hello@sa3d.fr · https://sa3d.fr





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DATASET — LES TANINS

Synthetic scene with source images, camera poses and point clouds.

Capture.
Compose. Share.

Synthetic interior in Bordeaux, exploring furnished spaces, materials and lighting.

CAPTURE & PROCESSING

1,231 renders with alpha · 3ds Max / Corona Renderer · Camera poses & initial point clouds generated using custom 3ds Max tools

RECONSTRUCTION

LichtFeld Studio 0.5.5 dev20261118 · 3M Gaussians · SH2 · 123k steps · Exposure correction · Random background · Mip filter

DATASET CONTENTS

Documentation, rendered images, camera poses, point clouds and a PLY reconstruction.

SOURCES

3D design: MIND - ADN FAMILY

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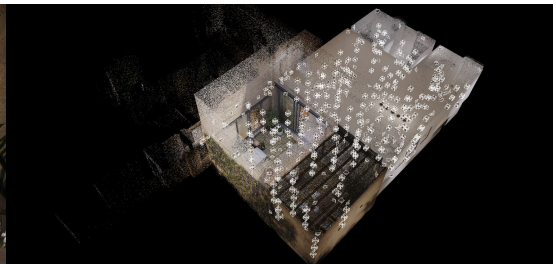
VISUALIZATION & DOWNLOAD

https://superspl.at/scene/a952cfb9 · https://sa3d.fr/sa3d_dataset_les_tanins.zip

CONTACT

hello@sa3d.fr · https://sa3d.fr





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DATASET — SERENITY

Synthetic scene with source images, camera poses and point clouds.

Capture.
Compose. Share.

Synthetic diorama exploring volumetric fog, atmospheric lighting and fine details.

CAPTURE & PROCESSING

261 renders with alpha · 3ds Max / Corona Renderer · Camera poses & initial point clouds generated using custom 3ds Max tools

RECONSTRUCTION

LichtFeld Studio 0.5.5 dev20261118 · 3M Gaussians · SH2 · 30k steps · Exposure correction · Random background · Mip filter

DATASET CONTENTS

Documentation, rendered images, camera poses, point clouds and a PLY reconstruction.

SOURCES

Source assets: Chaos Cosmos

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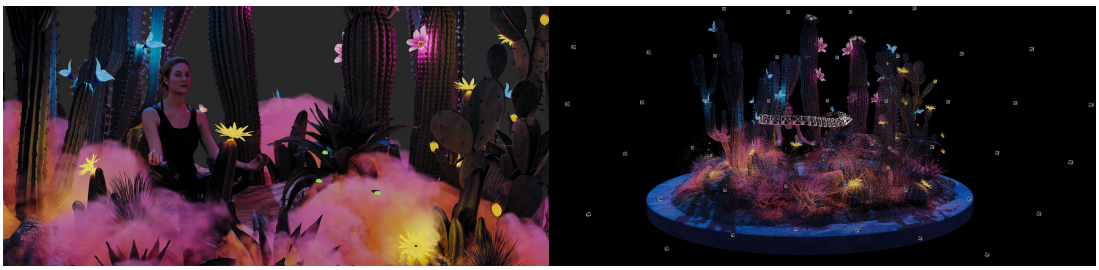
VISUALIZATION & DOWNLOAD

https://superspl.at/scene/32a3f0c2 · https://sa3d.fr/sa3d_dataset_serenity.zip

CONTACT

hello@sa3d.fr · https://sa3d.fr



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DATASET — HAUSSMANN

Synthetic scene with source images, camera poses and point clouds.

Capture.
Compose. Share.

Synthetic white interior testing low-texture reconstruction and point-cloud initialization.

CAPTURE & PROCESSING

644 renders with alpha · 3ds Max / Corona Renderer · Camera poses & initial point clouds generated using custom 3ds Max tools

RECONSTRUCTION

LichtFeld Studio 0.5.5 dev20261118 · 3M Gaussians · SH2 · 64k steps · Exposure correction · Random background · Mip filter

DATASET CONTENTS

Documentation, rendered images, camera poses, point clouds and a PLY reconstruction.

SOURCES

Source scene: Design Connected

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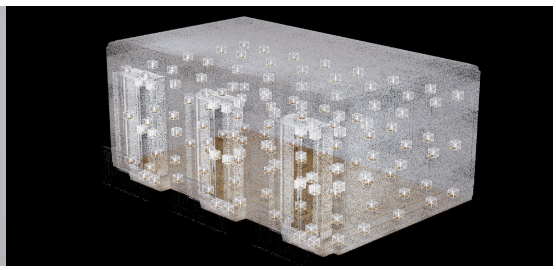
VISUALIZATION & DOWNLOAD

https://superspl.at/scene/d5cac1c1 · https://sa3d.fr/sa3d_dataset_haussmann.zip

CONTACT

hello@sa3d.fr · https://sa3d.fr





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DATASET — UV CUBE

Synthetic scene with source images, camera poses and point clouds.

Capture.
Compose. Share.

Synthetic UV checker cube testing geometric fidelity, volume reconstruction and distortions.

CAPTURE & PROCESSING

162 renders with alpha · 3ds Max / Corona Renderer · Camera poses & initial point clouds generated using custom 3ds Max tools

RECONSTRUCTION

LichtFeld Studio 0.5.5 dev20261118 · 3M Gaussians · SH2 · 30k steps · Exposure correction · Random background · Mip filter

DATASET CONTENTS

Documentation, rendered images, camera poses, point clouds and a PLY reconstruction.

SOURCES

UV checker texture: byValle

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VISUALIZATION & DOWNLOAD

https://superspl.at/scene/aa0f8c2e · https://sa3d.fr/sa3d_dataset_uv_cube.zip

CONTACT

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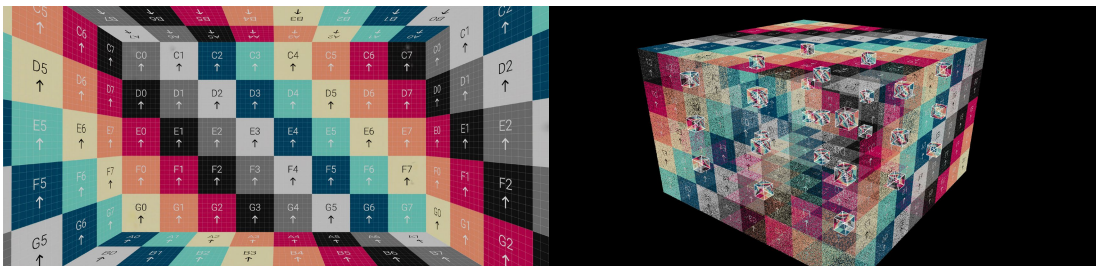

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DATASET — BIKE

Synthetic scene with source images, camera poses and point clouds.

Capture. Compose. Share.

Synthetic bicycle testing thin structures, metallic surfaces and fine details.

CAPTURE & PROCESSING

361 renders with alpha · 3ds Max / Corona Renderer · Camera poses & initial point clouds generated using custom 3ds Max tools

RECONSTRUCTION

LichtFeld Studio 0.5.5 dev20261118 · 3M Gaussians · SH2 · 36k steps · Exposure correction · Random background · Mip filter

DATASET CONTENTS

Documentation, rendered images, camera poses, point clouds and a PLY reconstruction.

SOURCES

Source assets: Chaos Cosmos

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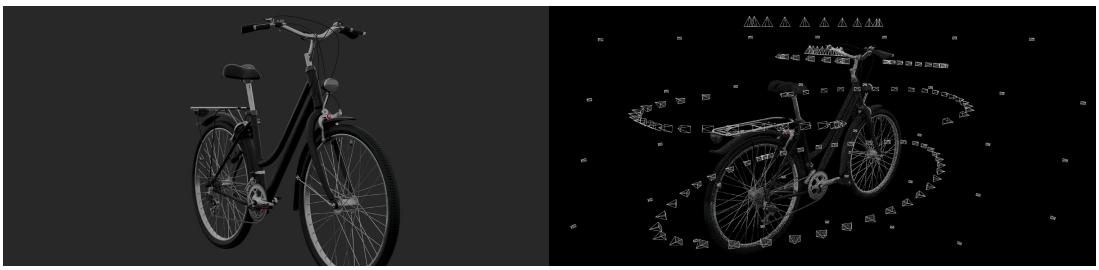
VISUALIZATION & DOWNLOAD

https://superspl.at/scene/2c661882 · https://sa3d.fr/sa3d_dataset_bike.zip

CONTACT

hello@sa3d.fr · https://sa3d.fr



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