



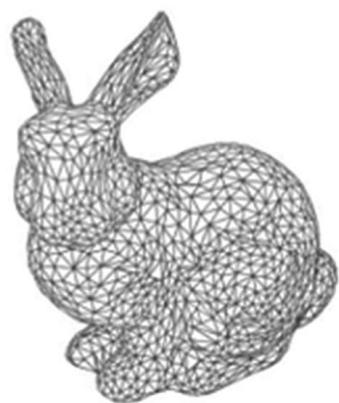
POWERFULL CAD OPTIMIZATION
SOFTWARE



PIXYZ STUDIO

PROCESS HEAVY AND COMPLEX 3D DATA COMBINING **SPEED AND EFFICIENCY**

OPTIMIZATION ALGORITHMS



RAW CAD INPUT

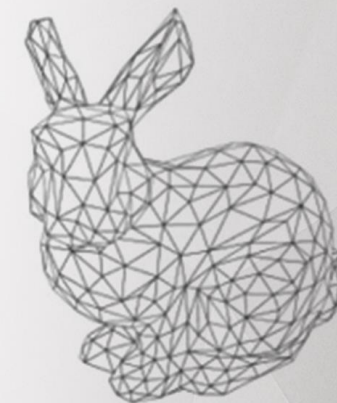
HIGH QUALITY MESH

OPTIMUM POLY COUNT

COMPLEX AND
HEAVY MODELS

LOW MEMORY
USAGE

AUTOMATIC FAST TREATMENT



OPTIMIZED CAD



CAD FORMAT COMPATIBILITY

Collaborate easily with your partners without worrying about format compatibility. PIXYZ STUDIO deals with : CATIA, IGES, STEP, SolidWorks, CREO, ALIAS, JT FBX, 3DXML, OBJ, DAE, 3DS, STL, ...



NATIVE HIERARCHY

Access to the original Product Hierarchy and use dedicated functions to optimize it



HISTORY MANAGEMENT

Keep the entire history of your treatments thanks to PiXYZ Studio's dynamic modifier stack, iterate and fine-tune only necessary parts

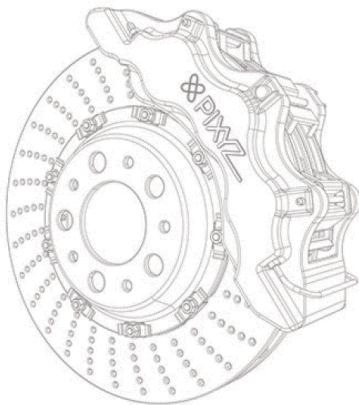


POWERFUL ALGORITHMS

Take the best out of your CAD data in your optimization process with powerful algorithms: tessellation, CAD topology correction, decimation, healing...



TESSELLATION



MESH REPAIR &
DEFEATURING



HIDDEN REMOVAL



LOD AUTOMATIC GENERATION



PROXY MESH CREATION

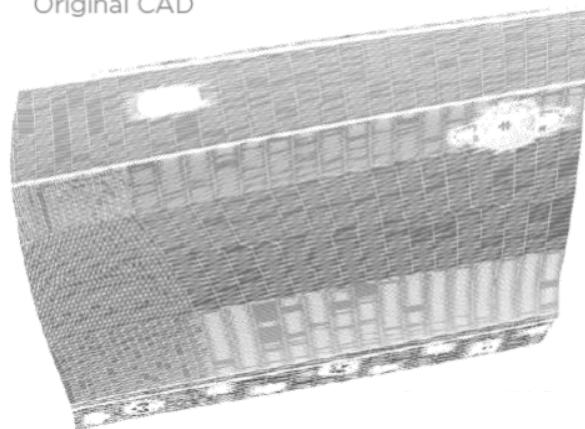




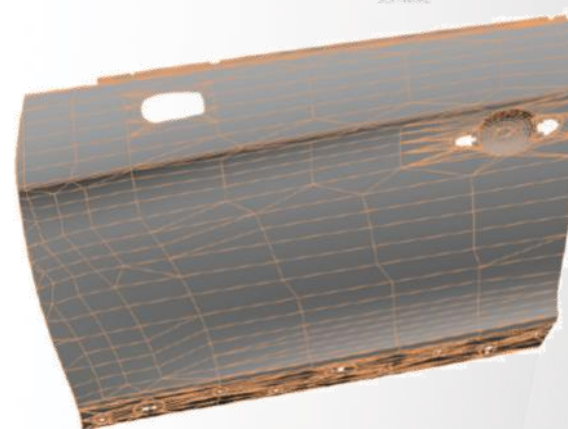
POLYGON
REDUCTION

CHOOSE AMONG DOZENS OF ALGORITHMS TO PREPARE, REDUCE, OPTIMIZE AND TRANSFORM YOUR CAD MODELS TO HIGH-QUALITY AND LIGHTWEIGHT MESHES.

Original CAD



Optimized with  **PIXYZ**
SOFTWARE



POLYGON REDUCTION

Reduce and optimize the number of polygons contained in your 3D model without degrading the quality of your asset. PiXYZ optimize mesh algorithm offers multiple tolerance settings to ensure the most efficient preparation for rendering engines.

« PROXY-MESH » AUTOMATIC GENERATION

Automatically convert an industrial complex assembly in a single « wetted area ». Immediately switch from thousands of parts and millions of polygons to a single low-polygon mesh model.

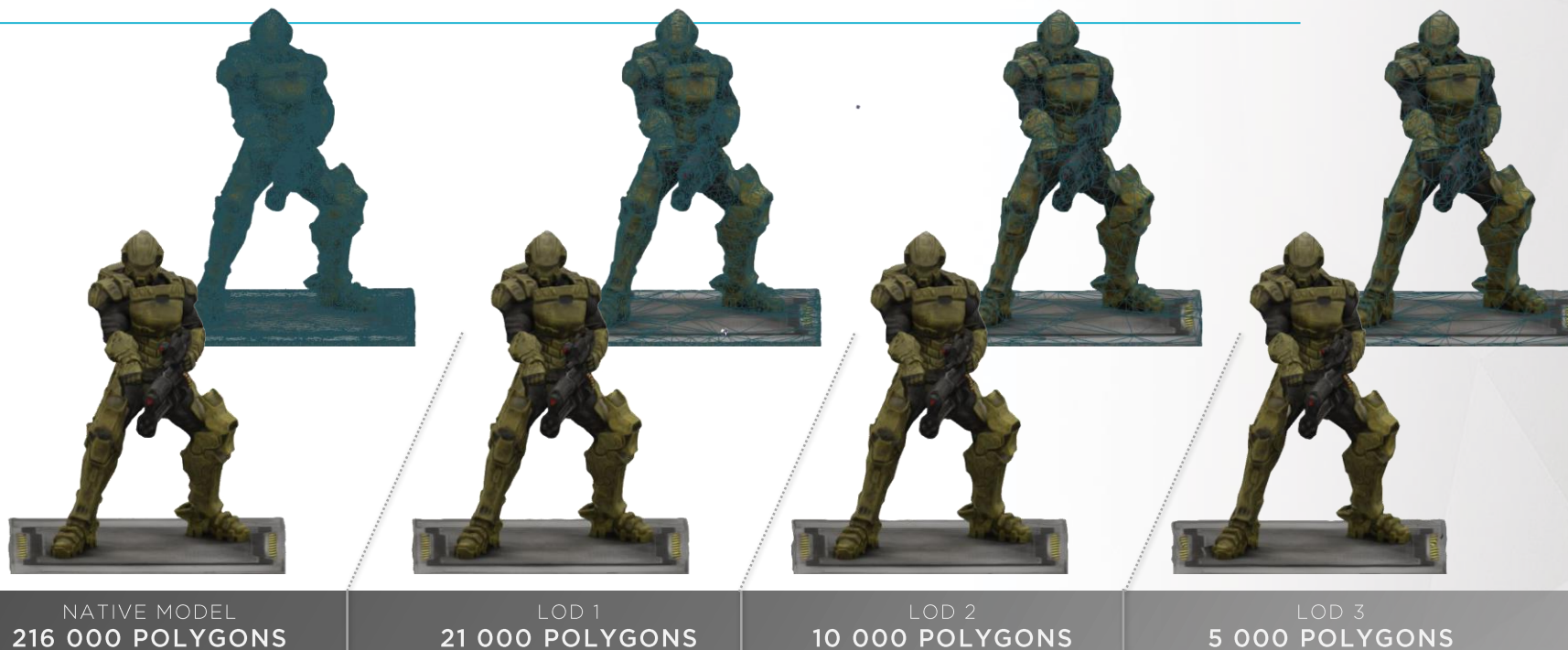
OCCCLUSION CULLING OPTIMIZATION

Prepare your models for a perfect compatibility with occlusion culling technology, used by major game engines.



LODs
GENERATION

USE PiXYZ TO AUTOMATICALLY GENERATE “LEVEL OF DETAILS” REPRESENTATIONS OF YOUR CAD MODELS.



NATIVE MODEL
216 000 POLYGONS

LOD 1
21 000 POLYGONS

LOD 2
10 000 POLYGONS

LOD 3
5 000 POLYGONS

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