



LICEO ARTISTICO STATALE  
VINCENZO CIARDO • LECCE

# Liceo Artistico Statale “V. Ciardo” - Lecce

Corso P.O.N.

“Geometrie nel piano e nello  
spazio”



2007-2013

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Ministero dell'Istruzione, dell'Università e della Ricerca  
Dipartimento per la Programmazione  
D.G. per gli Affari Internazionali - Ufficio IV  
Programmazione e gestione dei fondi strutturali europei  
e nazionali per lo sviluppo e la coesione sociale

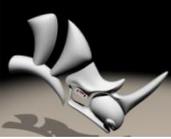


Unione Europea  
P.O.N. - "Competenze per lo Sviluppo" (FSE)  
P.O.N. - Ambiente per l'apprendimento (FESR)  
D.G. Occupazione, Affari Sociali e pari Opportunità  
D.G. Politiche Regionali



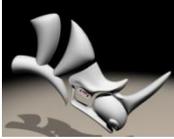
# Gli alunni del corso:

- Barba Giorgio
- Caiulo Brizio Antonio
- Cavone Samuele
- Corchia Chiara
- Di Leo Giulia
- Filieri Pierfrancesco
- Mainiero Ilenia
- Manca
- Mangia Mattia
- Miccoli Gianmarco
- Montagna Roberta
- Nuzzo Irene
- Orlando Simona
- Pellegrino Tiziana
- Politi Elena
- Rizzo Erika
- Tomasello Sharon
- Tommasi Lorenzo
- Valerini Francesco



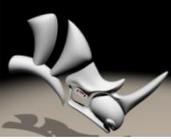
# Staff docenti:

- Esperto: Ing. Giambattista Benizio  
Dott.ssa De Donatis Stefania
- Tutors:
  - Prof.ssa Gabriella Raeli
  - Prof. Antonio Calò Macchia



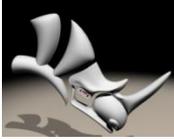
# Programma del corso

- Il disegno in 3D
- Differenza tra CAD e modellatore
- Presentazione di Rhinoceros: caratteristiche, settori di utilizzo, requisiti di sistema
- Differenza tra i modellatori Nurbs di Superfici e modellatori Solidi.
- Panoramica sulla modellazione Nurbs e superfici.
- Rhino: Interfaccia basica e personalizzazione.
- Linea di comando, cambio delle Viste, Zoom, Pan ecc.
- I principali strumenti di modellazione bidimensionale in Rhino: Linea, Arco, Ellissi, Cerchi, rettangolo, Spline ecc.
- Strumenti di quotatura in Rhino e messa in tavola
- Creazione di superfici: Estrusione, Loft, Sweeping, raccordi blending ecc.  
Editing di base: Rotazioni, traslazioni, Copiatura/replica di oggetti, Scalatura 2d/3d, Specchiatura.
- Primitive solide: Sfera, Parallelepipedo, Toro, Cilindro.
- Strumenti di Snapping.
- Operazioni Booleane: Unione, Intersezione e Differenza.
- Editing bidimensionale, raccordi tra curve e modifica dei punti.
- Rendering basico in Rhino: Impostazione della scena 3d, sorgenti luminose e texturing.



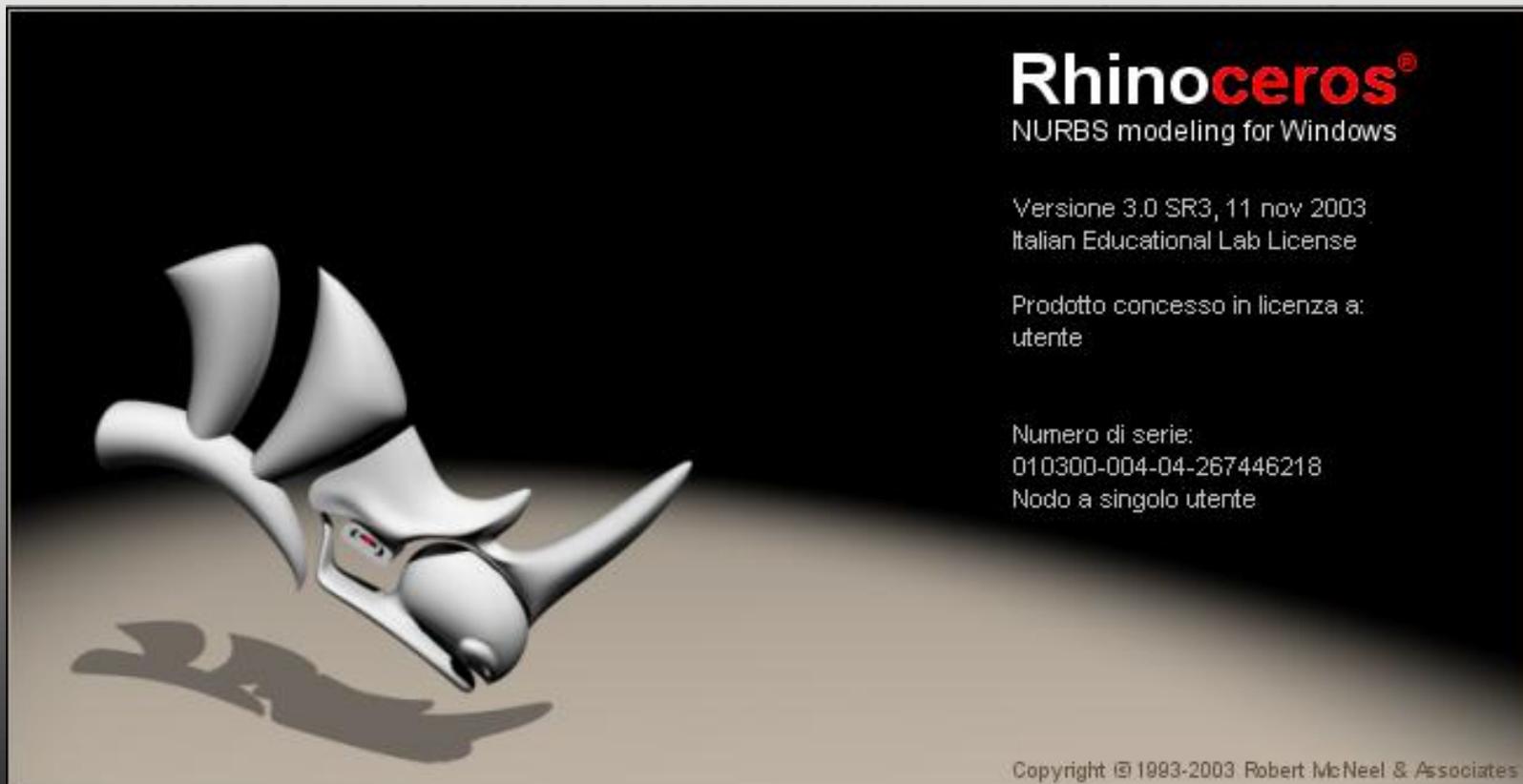
# Competenze acquisite

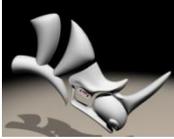
- Calcoli geometrici di base
- Rappresentazione di forme geometriche
- Risoluzione di problemi
- Utilizzazione del linguaggio matematico
- Utilizzazione di formule algebriche in calcoli geometrici
- Utilizzazione di strumenti multimediali
- Orientamento di genere



# Applicativo utilizzato

- Rhinoceros 3.0





# Caratteristiche di Rhinoceros

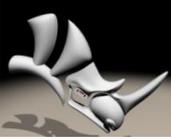
Rhino può creare, modificare, analizzare e tradurre curve, superfici e solidi NURBS\* in Windows. Non ci sono limiti per quanto riguarda la complessità, il grado o le dimensioni, ed è garantito il supporto delle mesh poligonali. In particolare, il programma offre le seguenti caratteristiche: **Nessun limite** nella capacità di modellazione, attraverso sofisticate funzioni, di geometrie 3D organiche; caratteristiche di programmi molto più costosi; possibilità di modellare ogni forma immaginabile.

- **Precisione** totale, che lo rende particolarmente adatto al design, all'analisi ed alla realizzazione di prototipi e progetti avanzati.
- **Compatibilità** con tutti gli altri programmi di design, drafting, CAM, ingegnerizzazione, analisi, rendering, animazione ed illustrazione.
- **Legge e ripara** file **IGES** molto complicati.
- **Accessibilità**. Così facile da imparare e da usare che l'utente si può concentrare sul disegno e la visualizzazione senza essere distratto dal software.
- **Velocità**, anche su un normale laptop. Non richiede nessun hardware specifico.
- **Alla portata di tutti**. Hardware comune. Rapidità di apprendimento. Stessa fascia di prezzo degli altri programmi Windows. Zero spese di mantenimento.

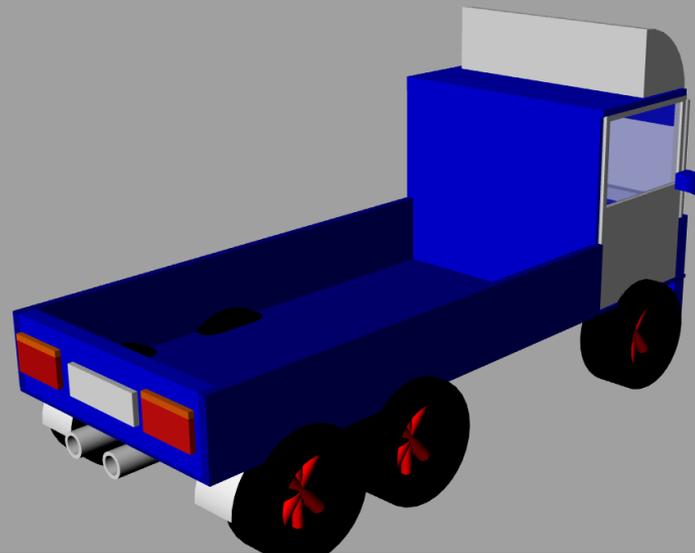
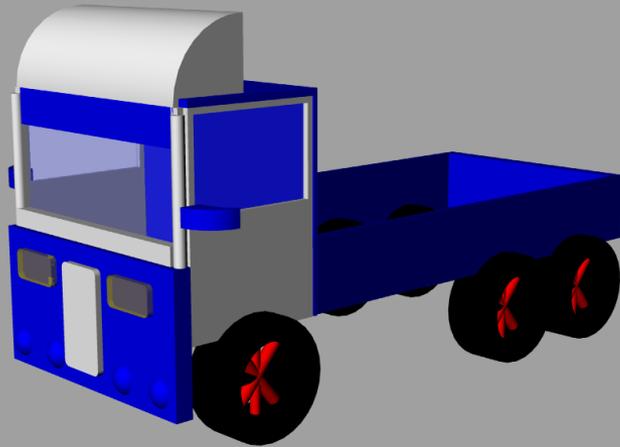


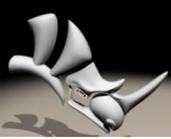
# Lavori realizzati



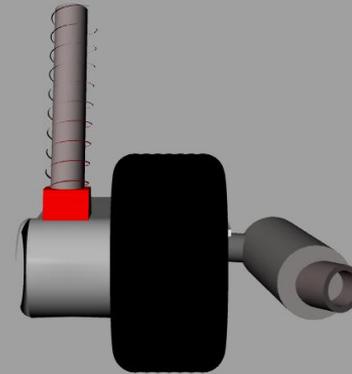
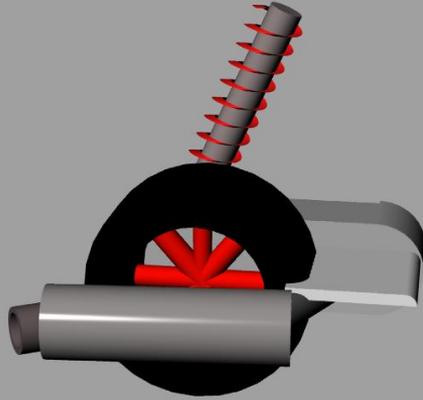


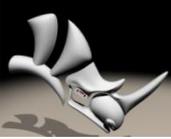
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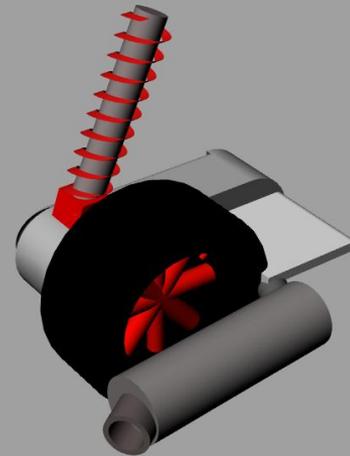
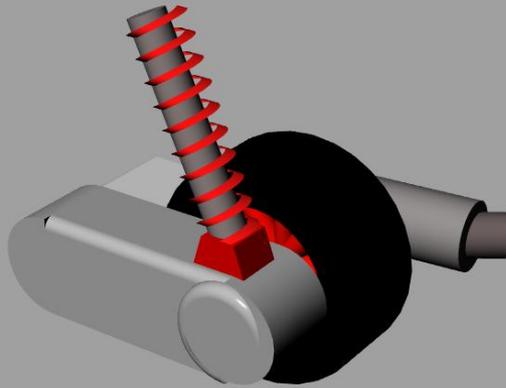


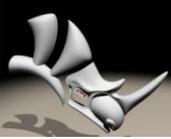
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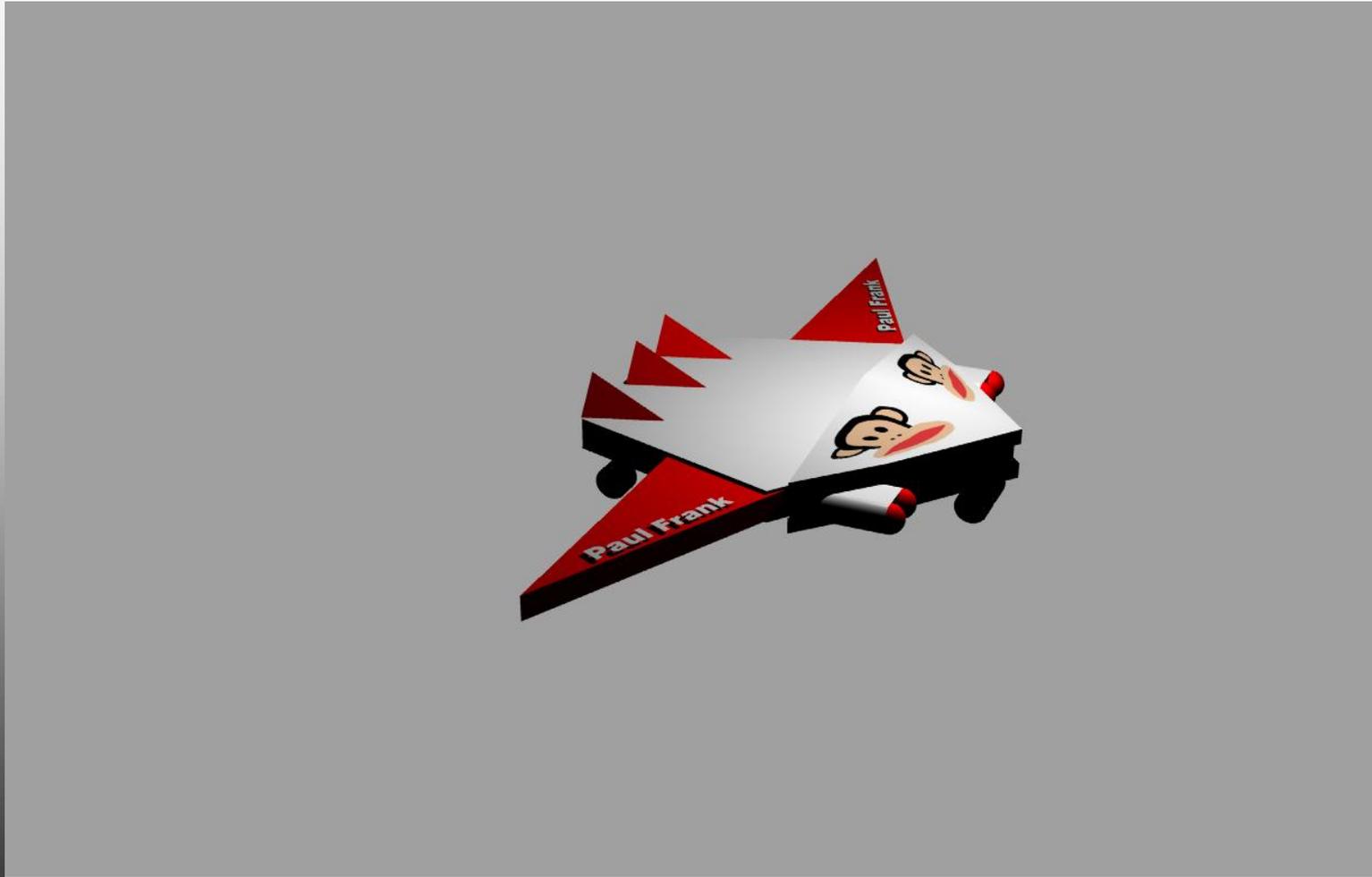


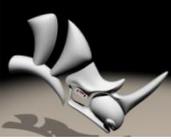
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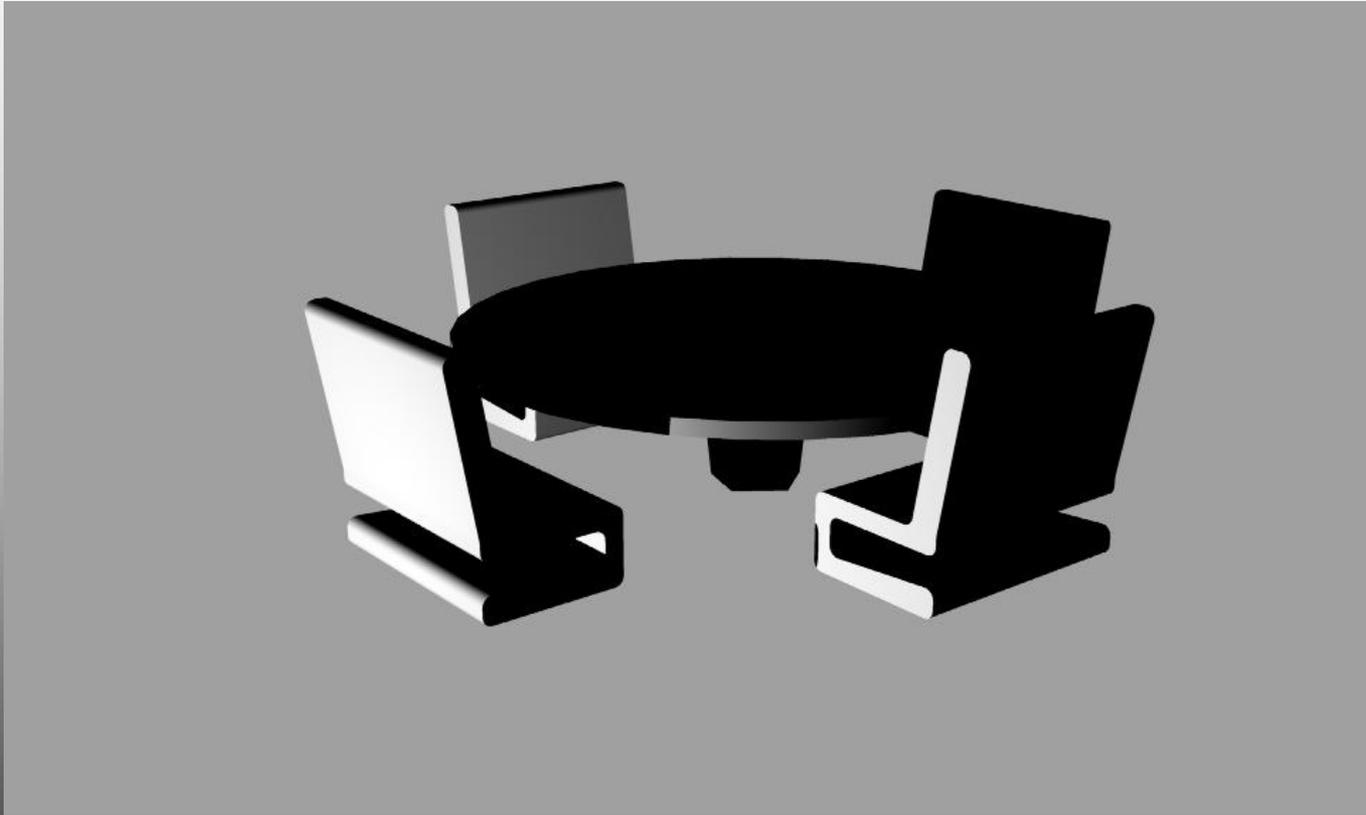


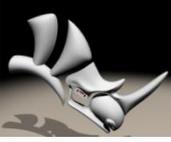
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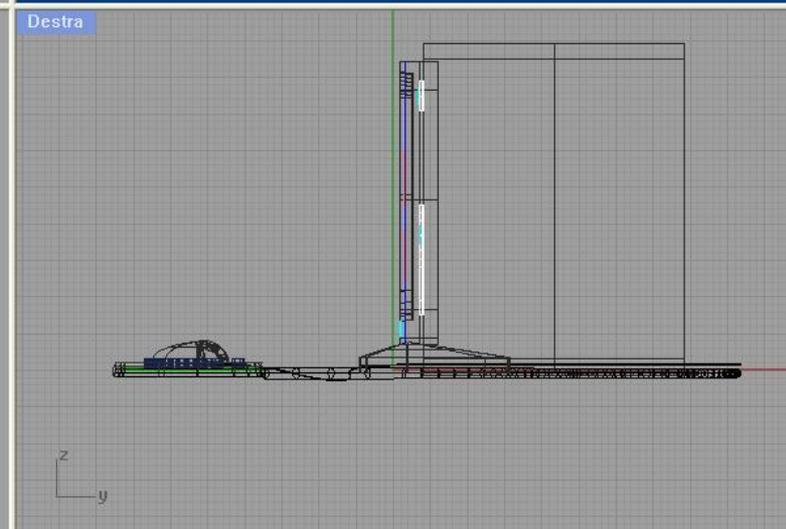
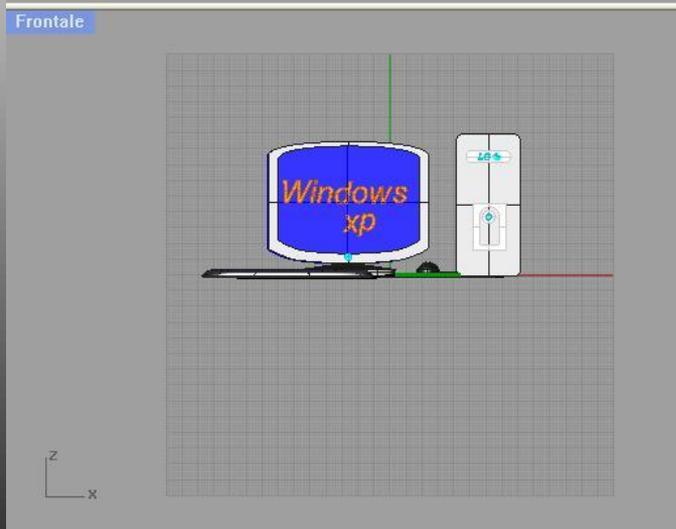
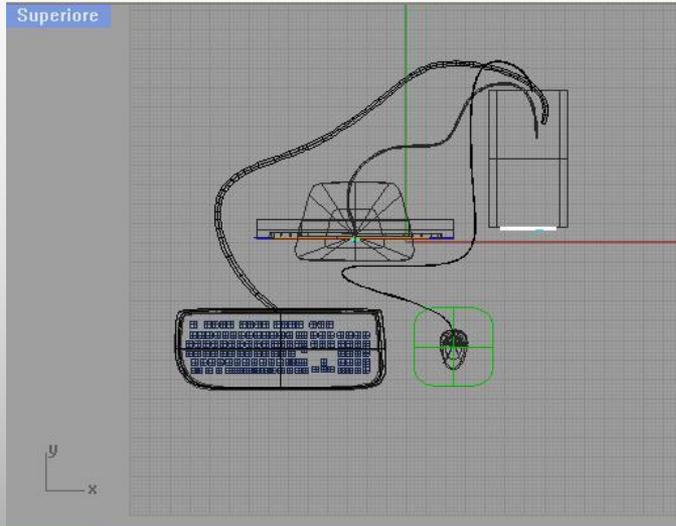


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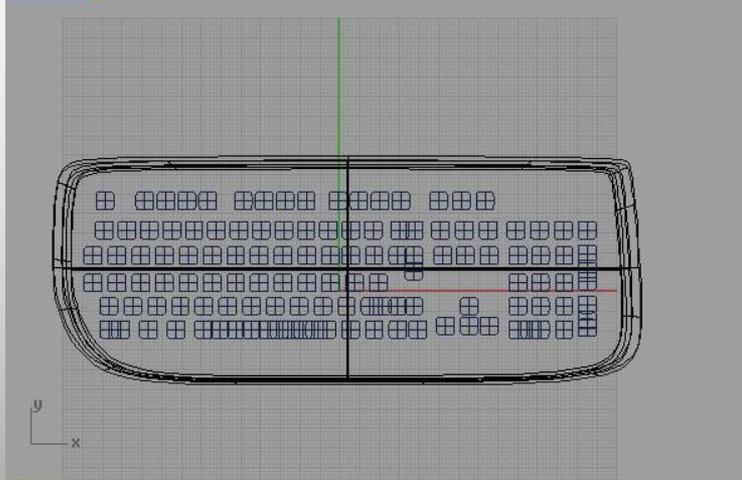
# Caiulo Brizio Antonio





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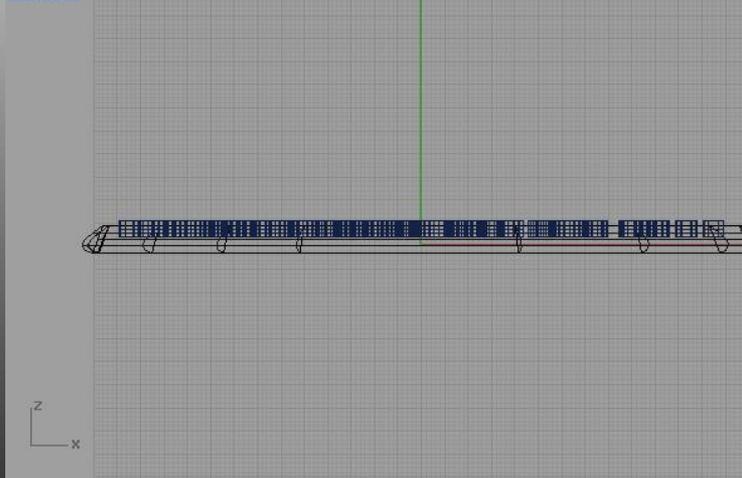
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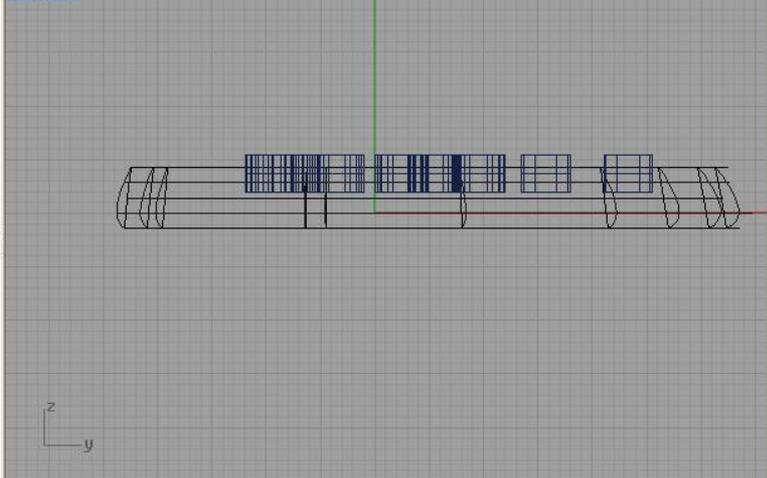
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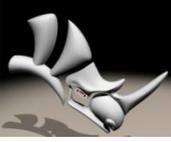


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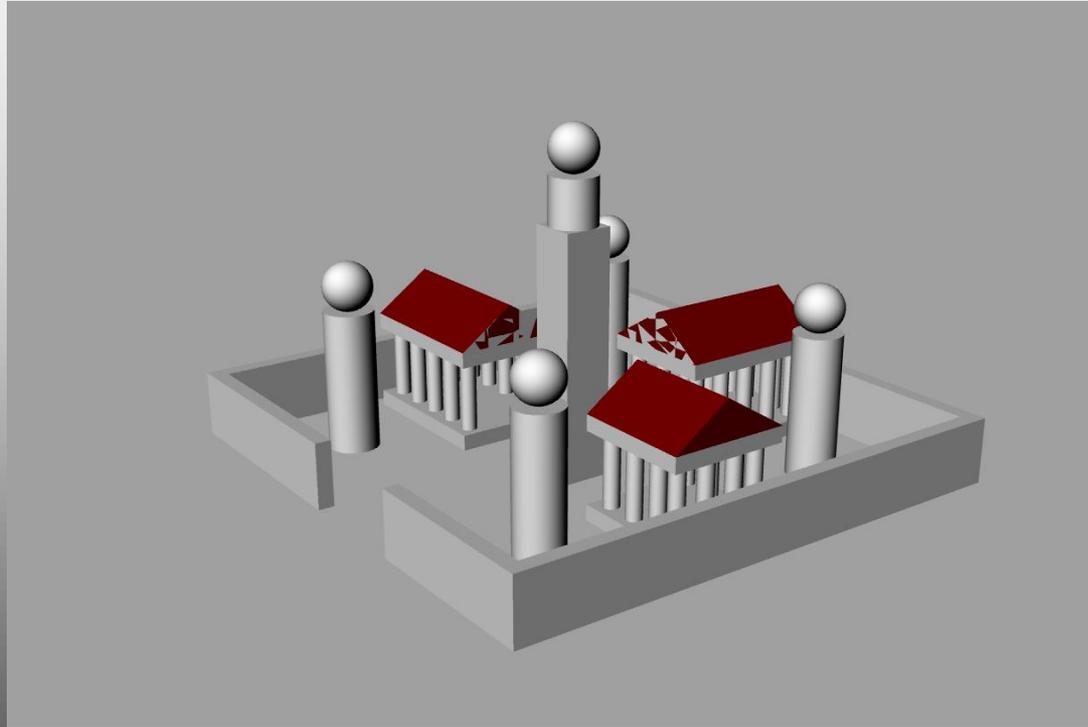


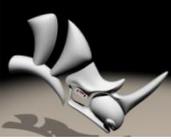
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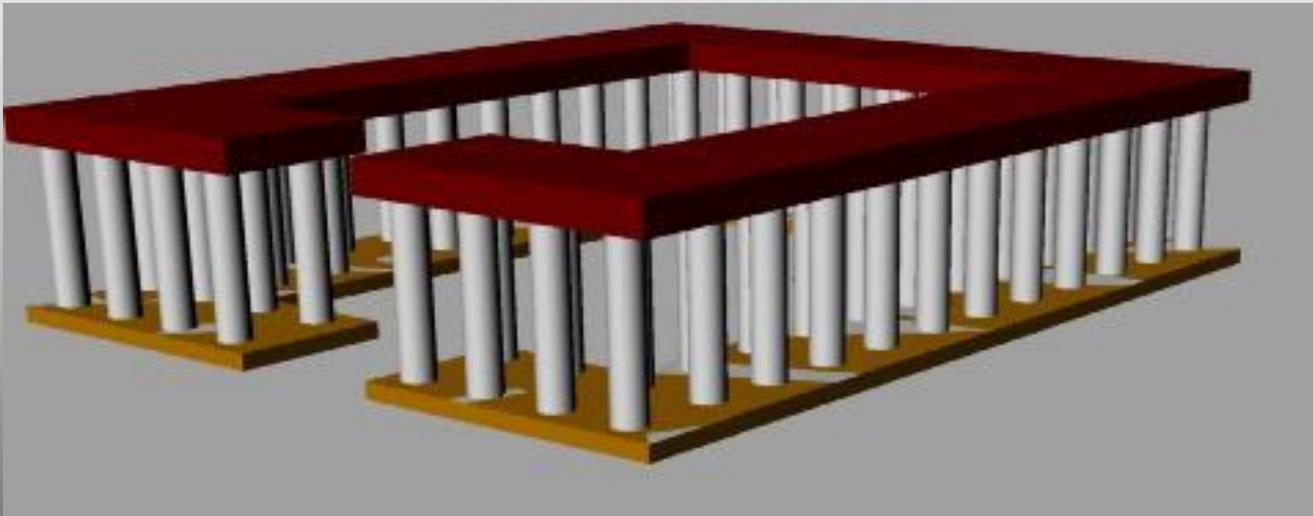


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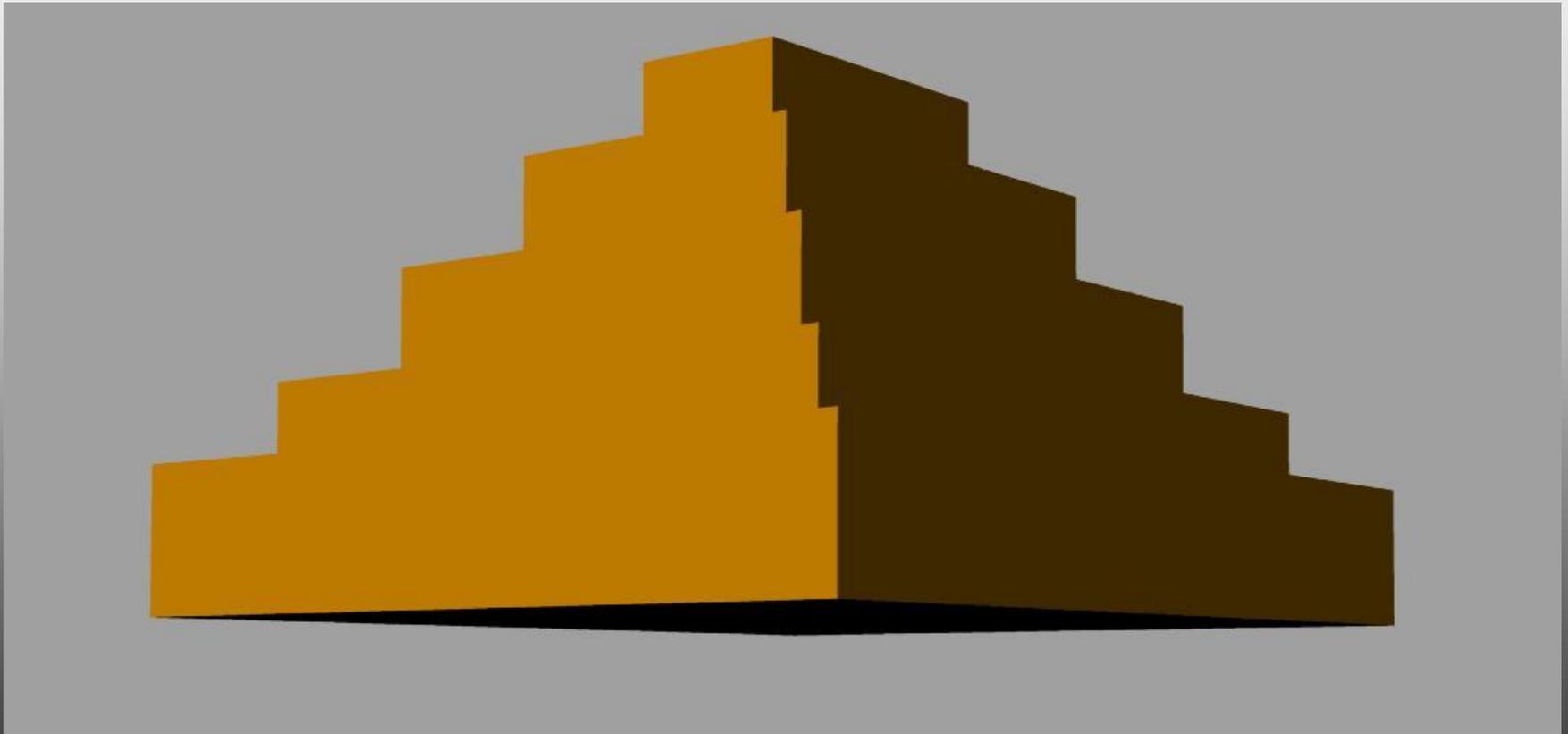


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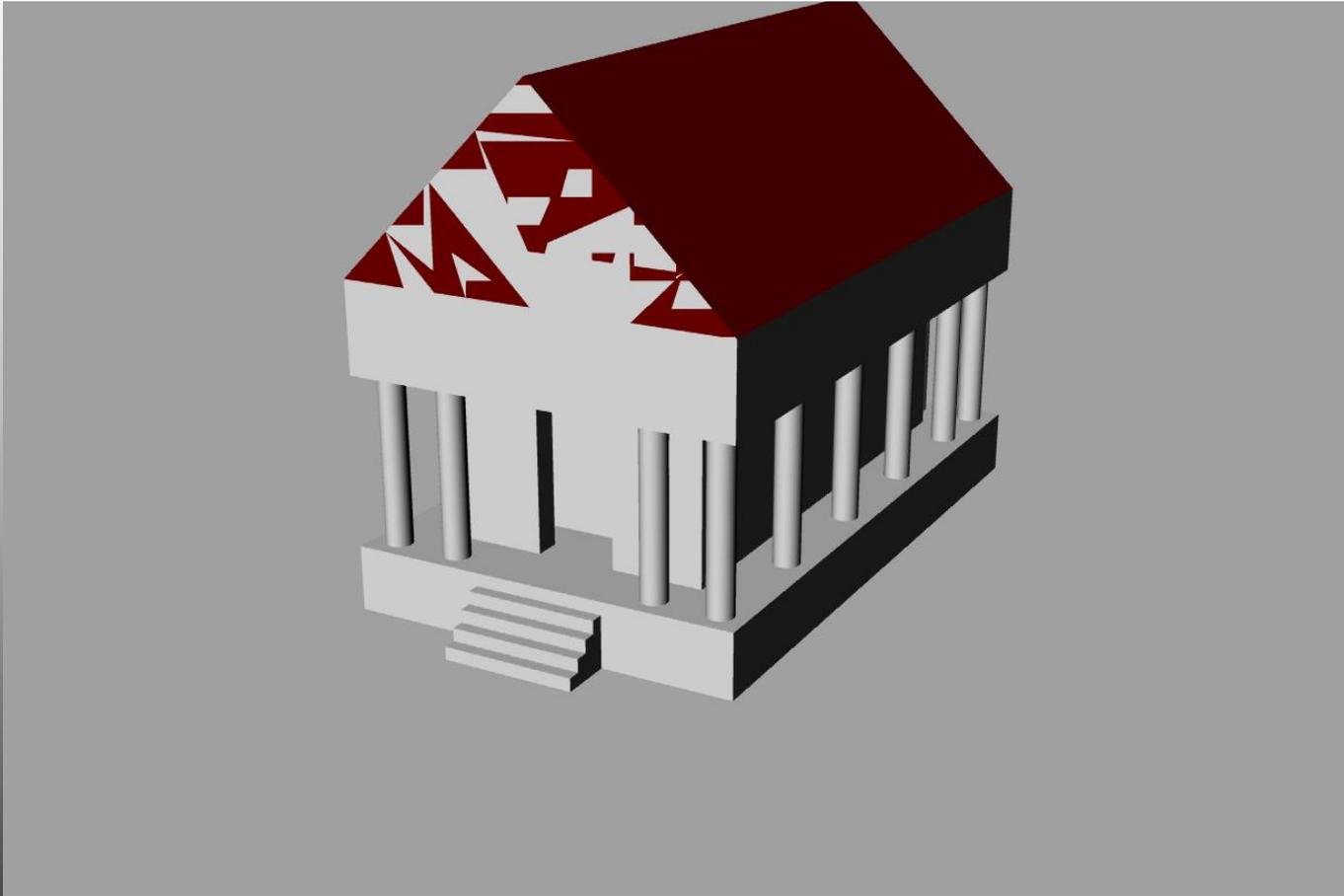


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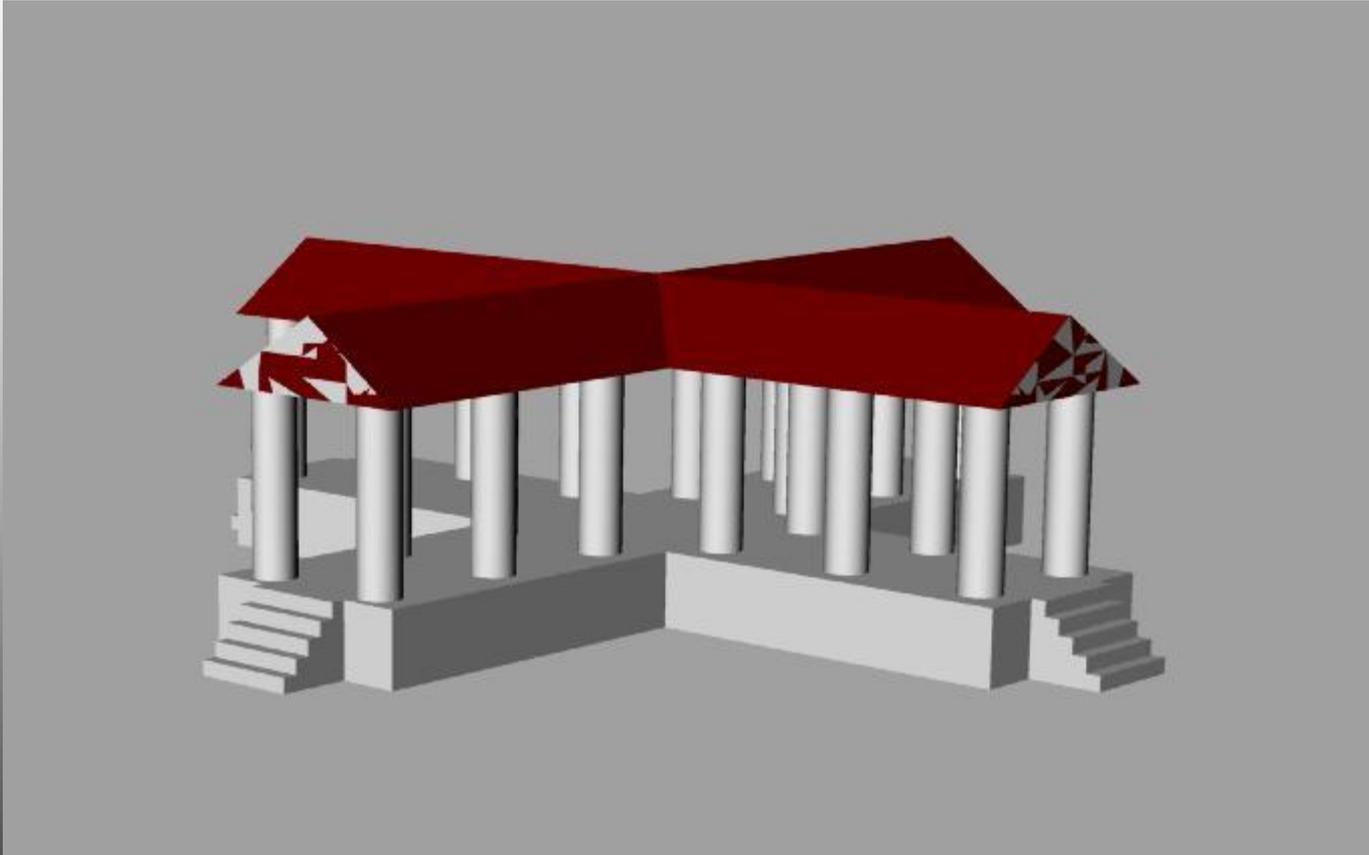


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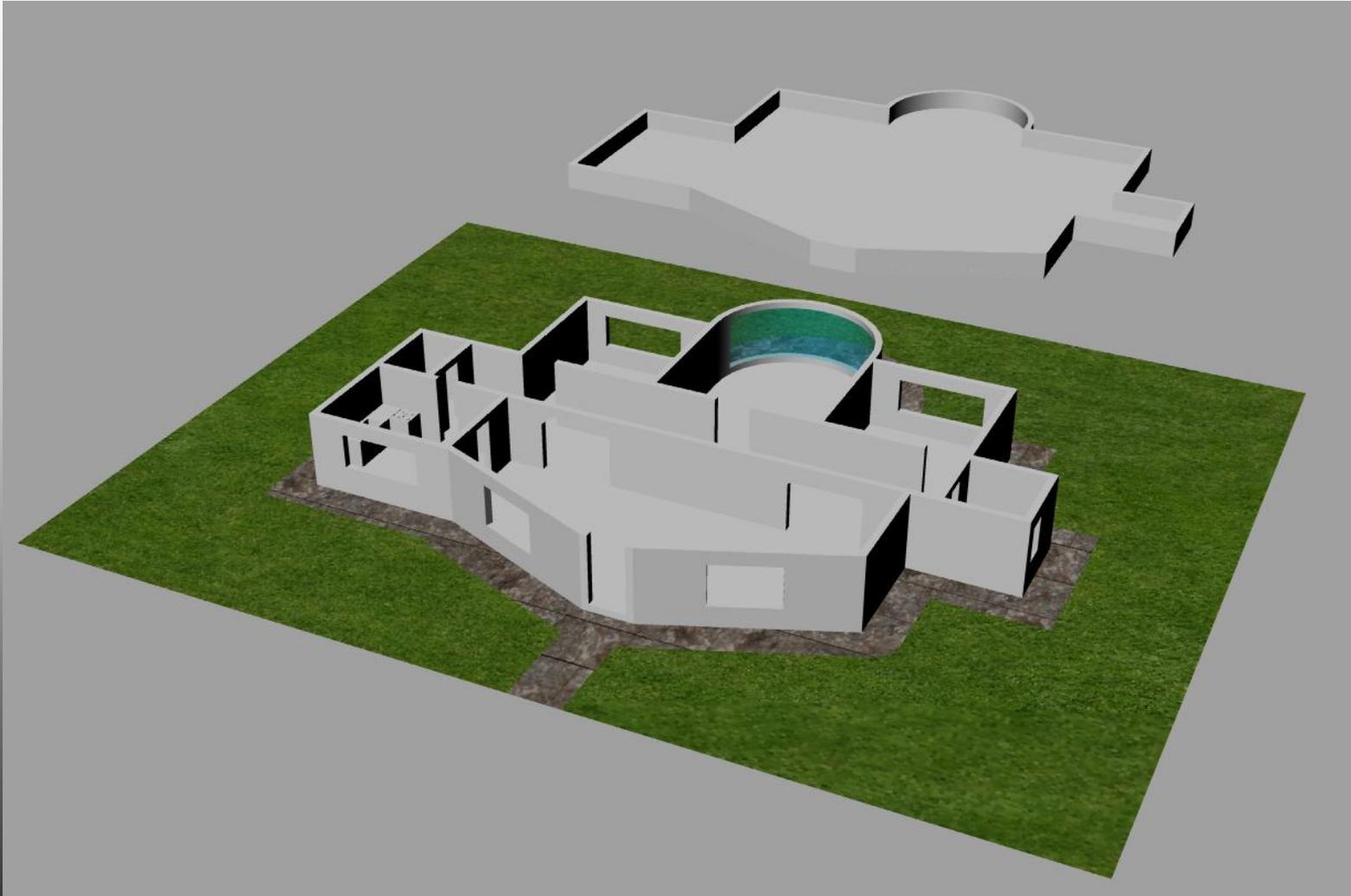


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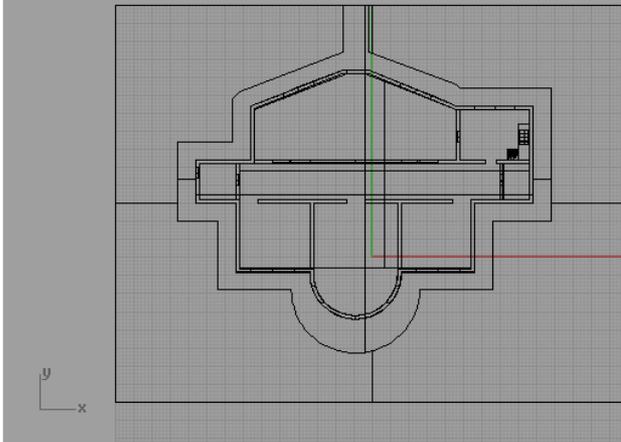
# Corchia Chiara





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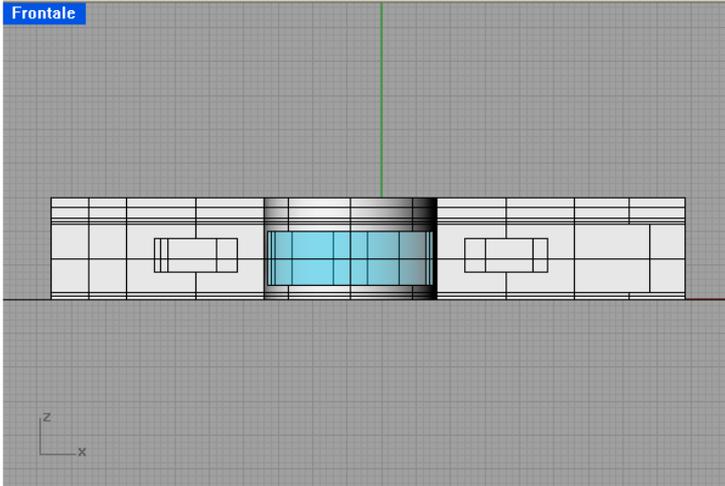
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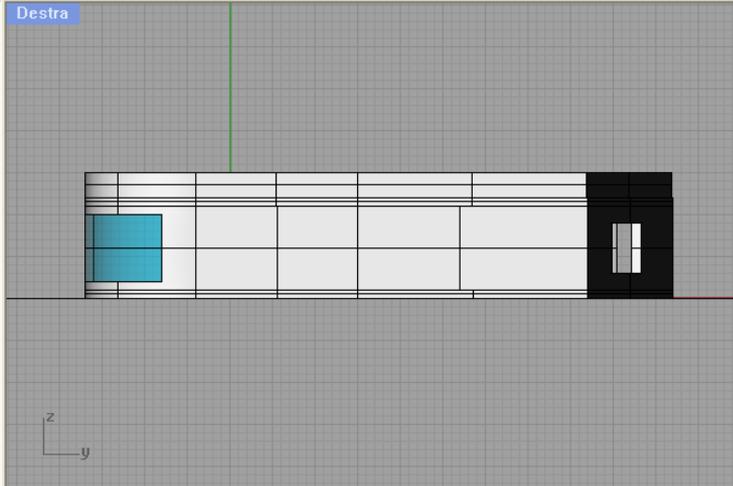
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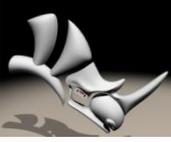


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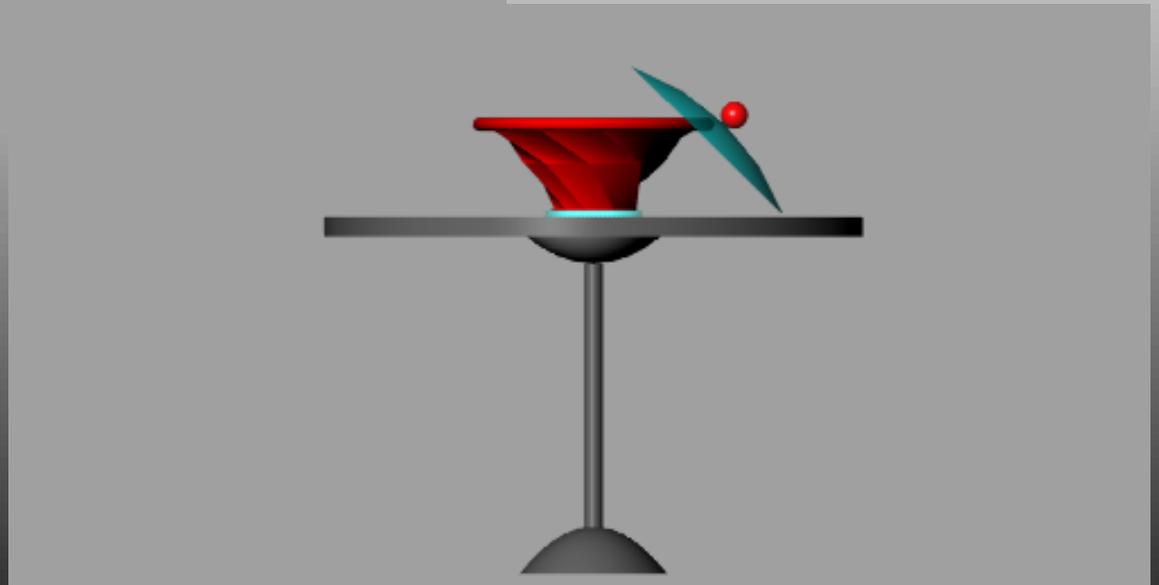
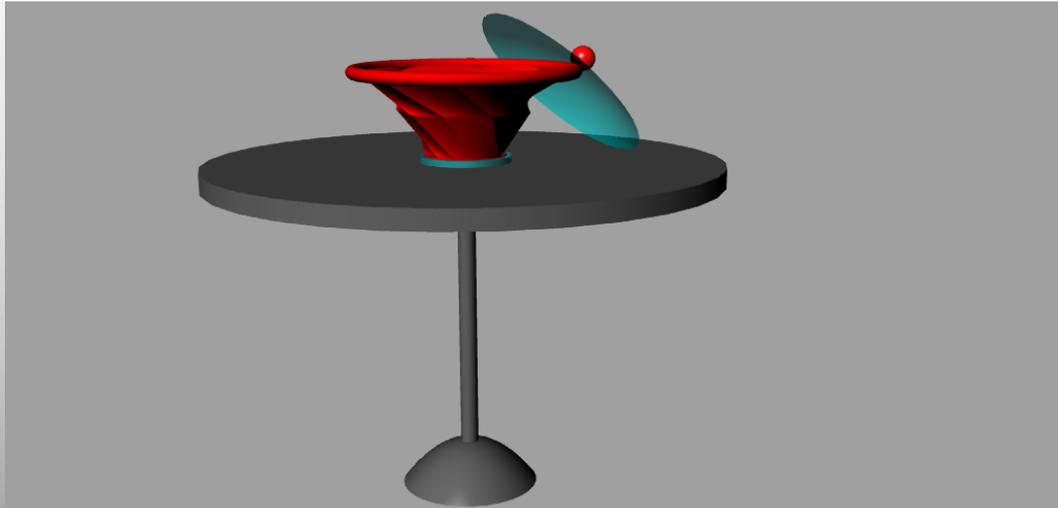


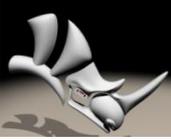
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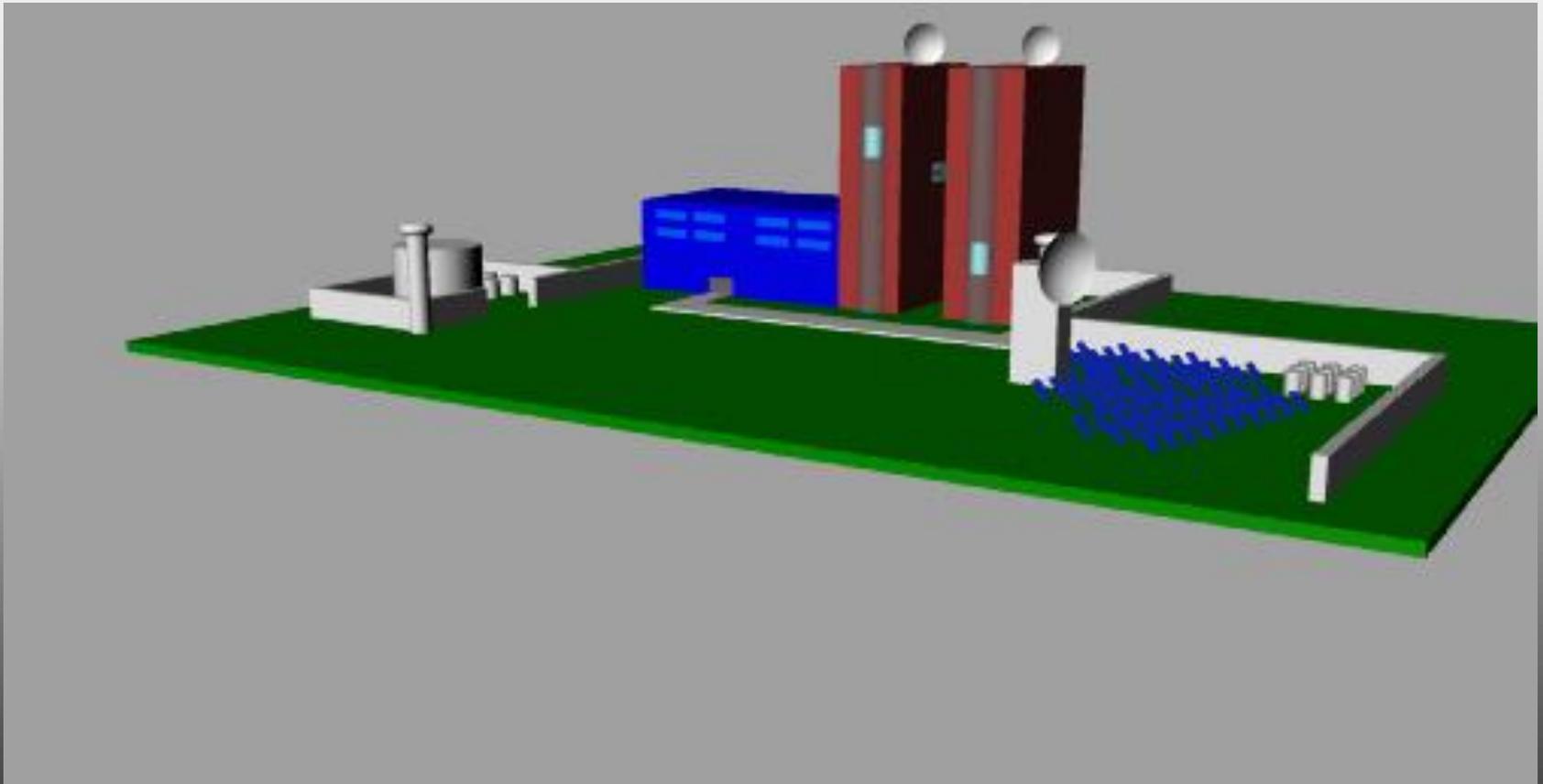


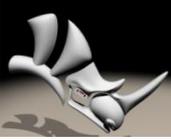
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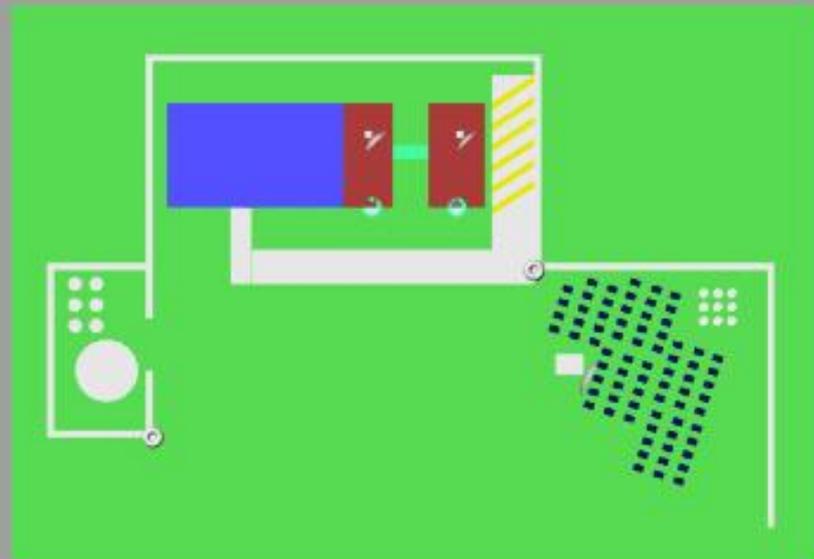
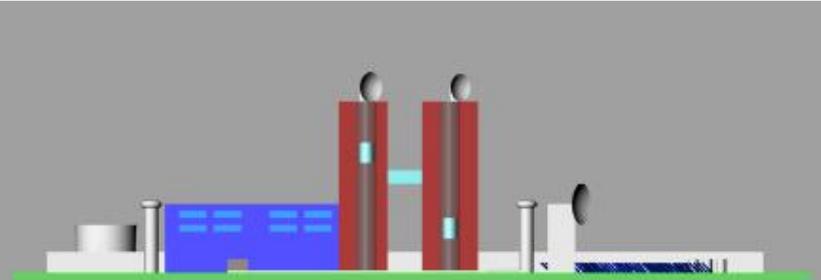
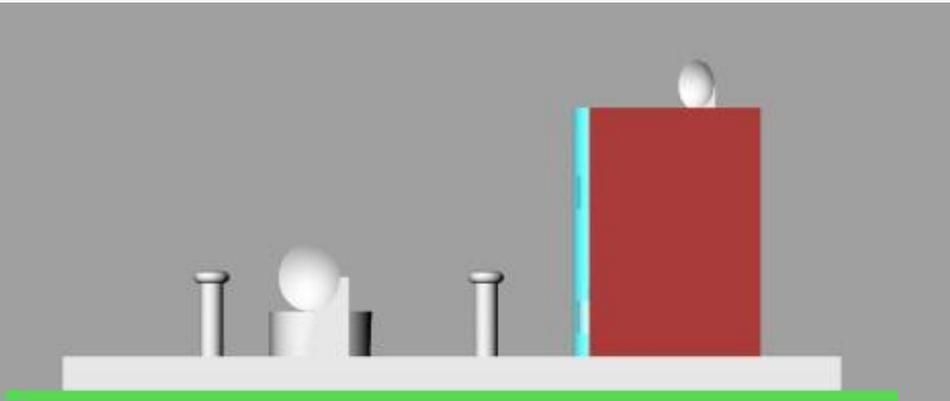


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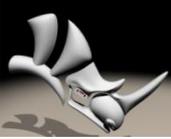
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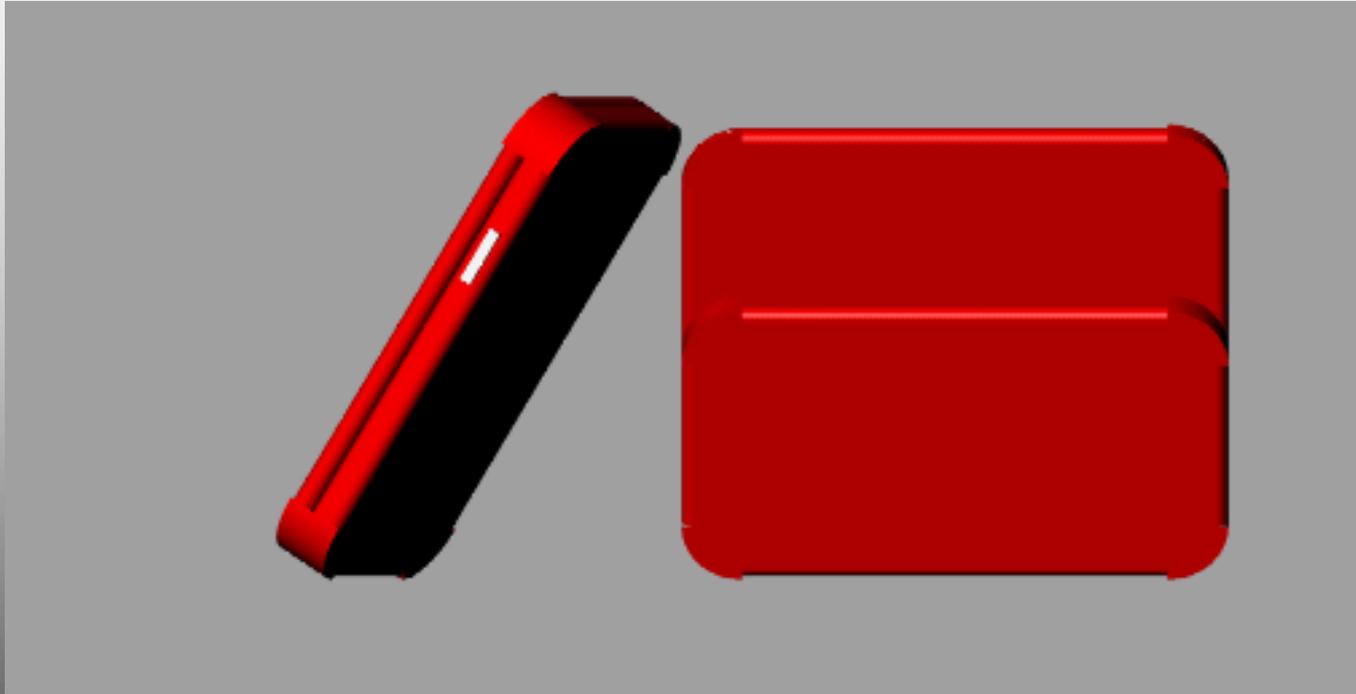


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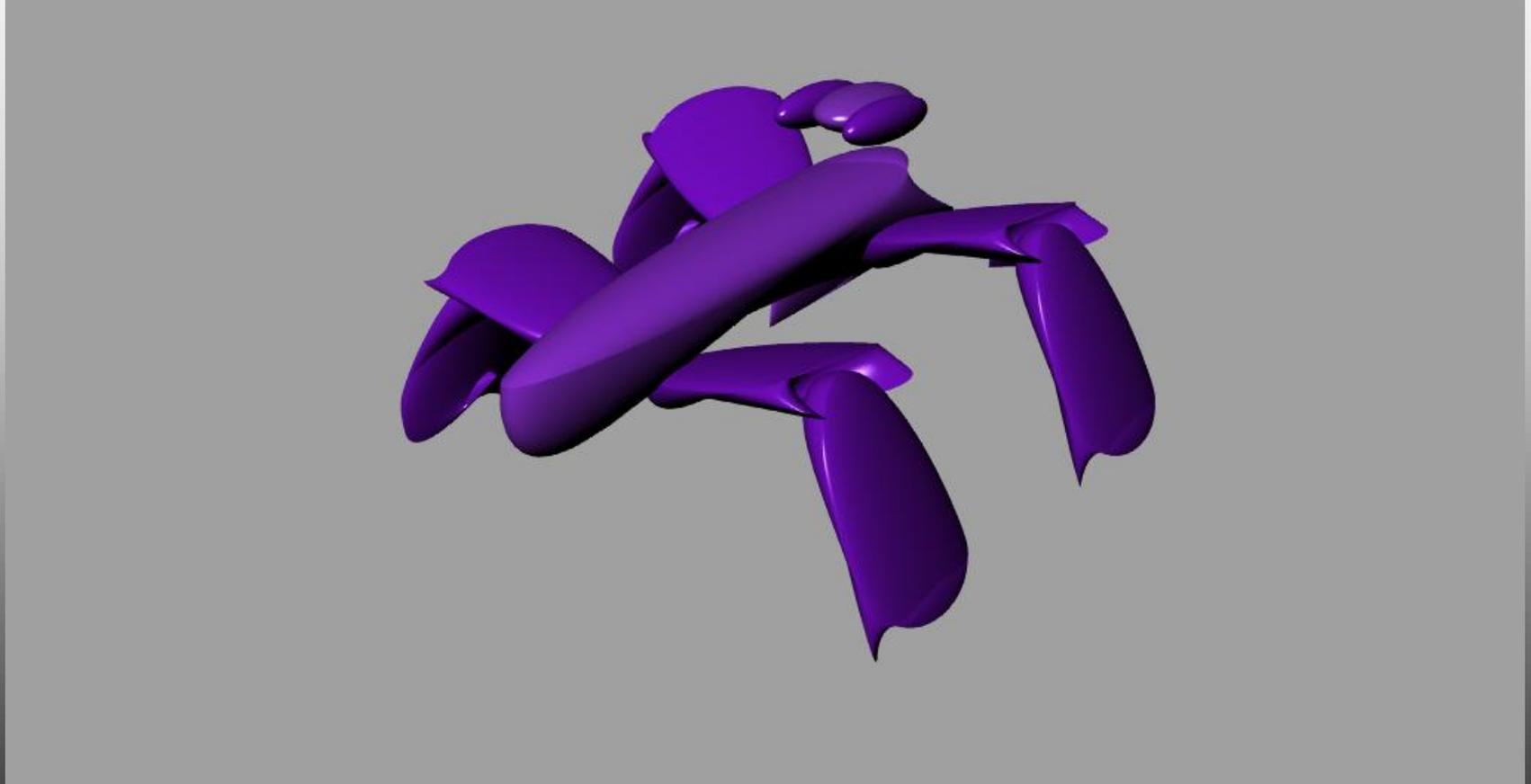


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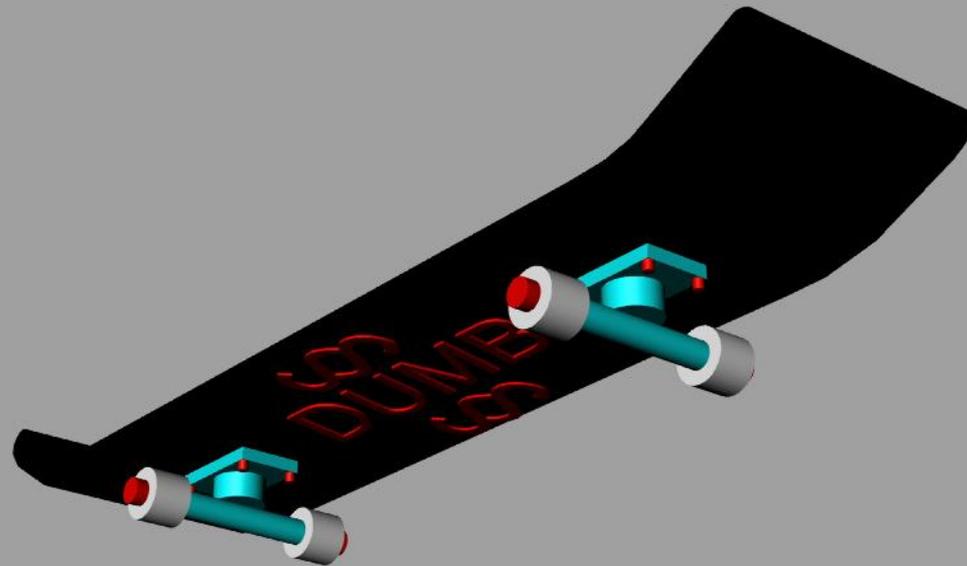


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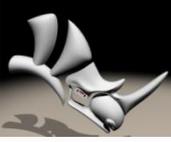
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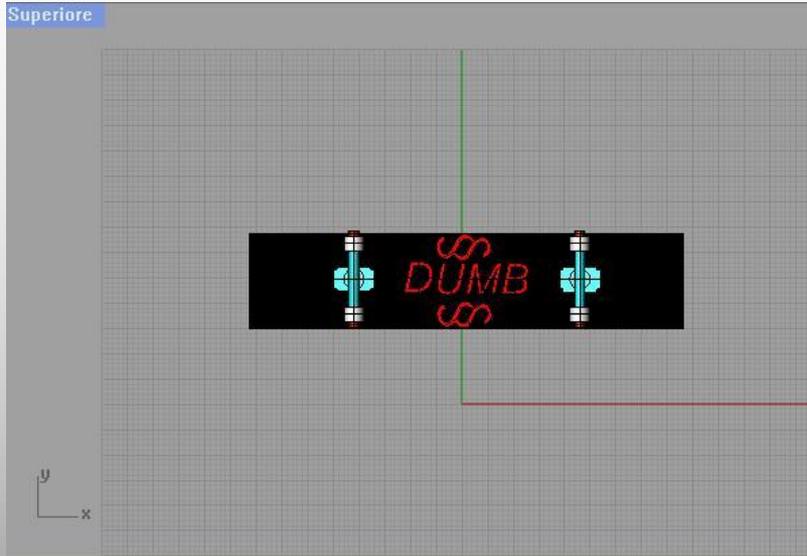
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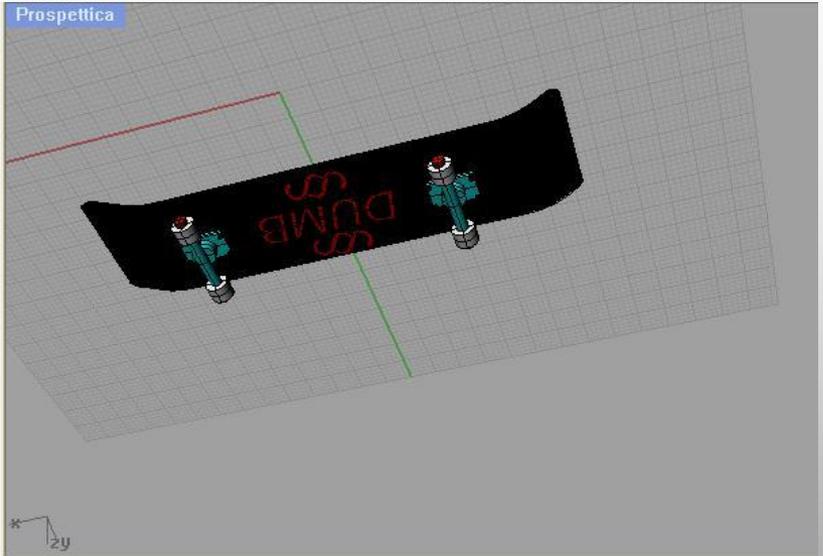


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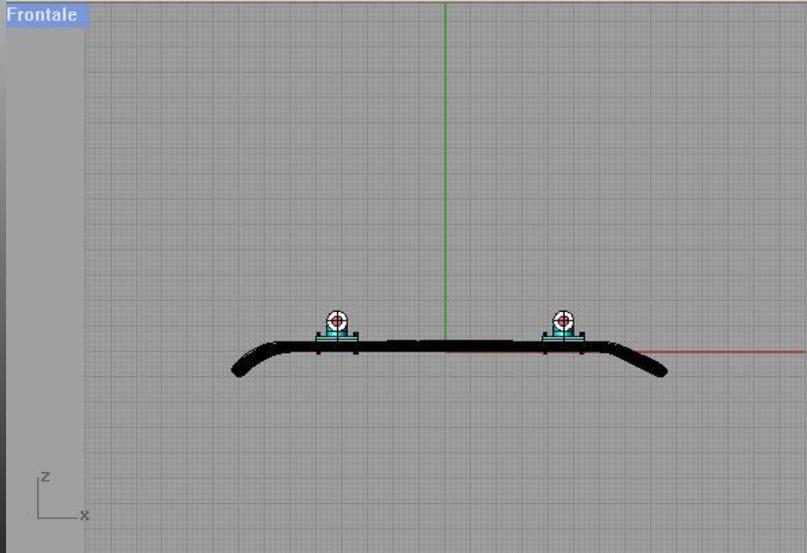
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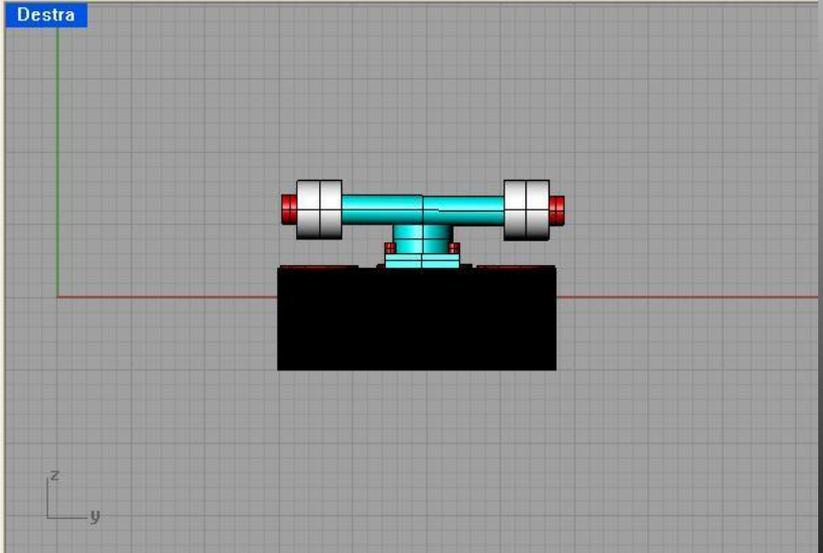
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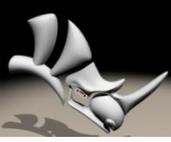
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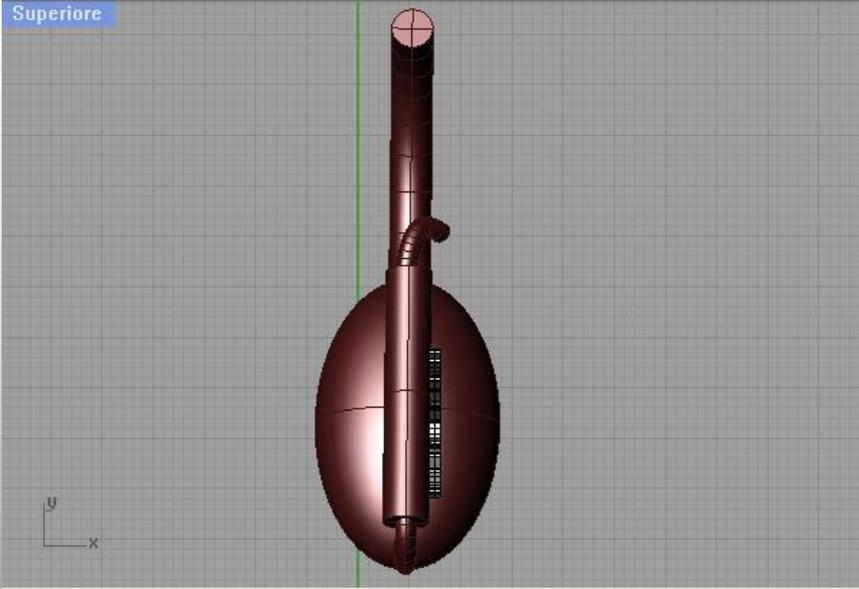
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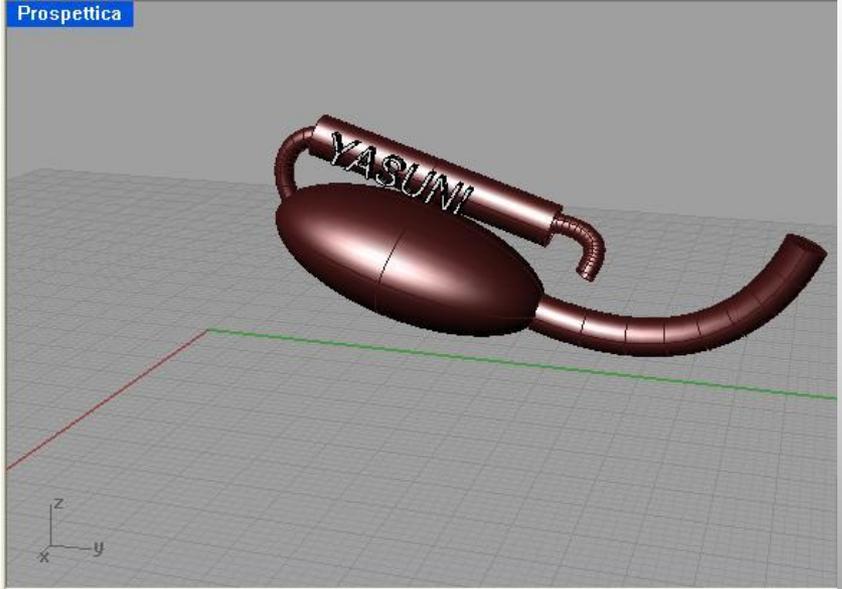


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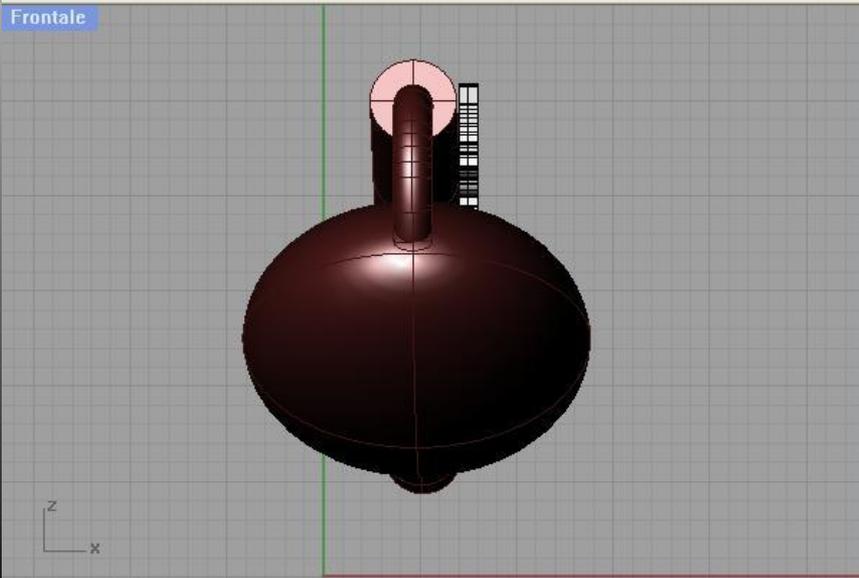
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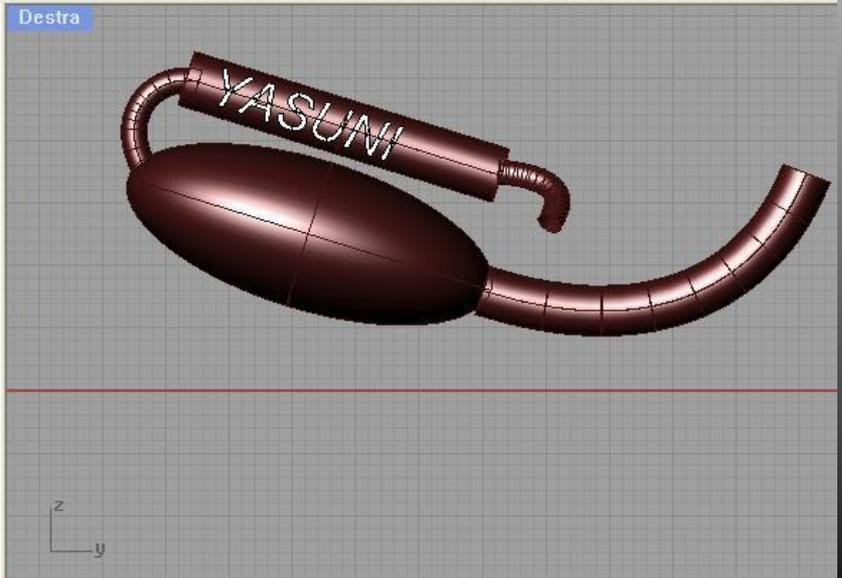
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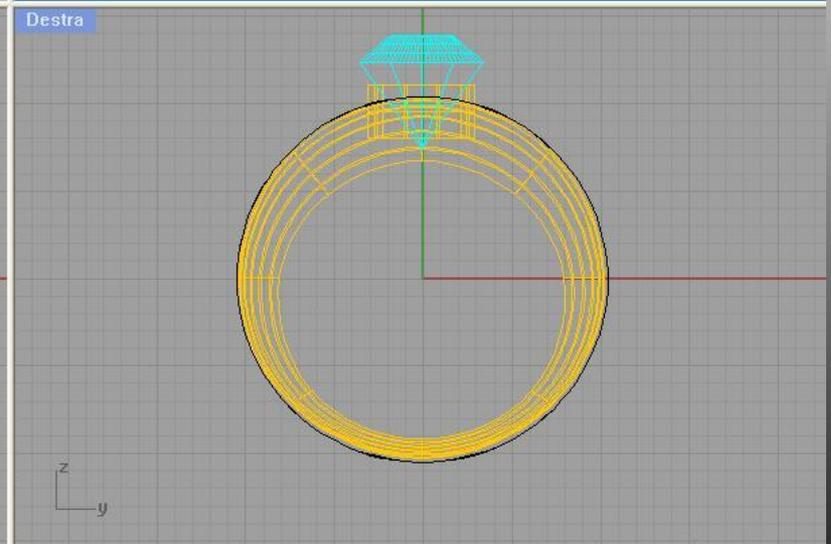
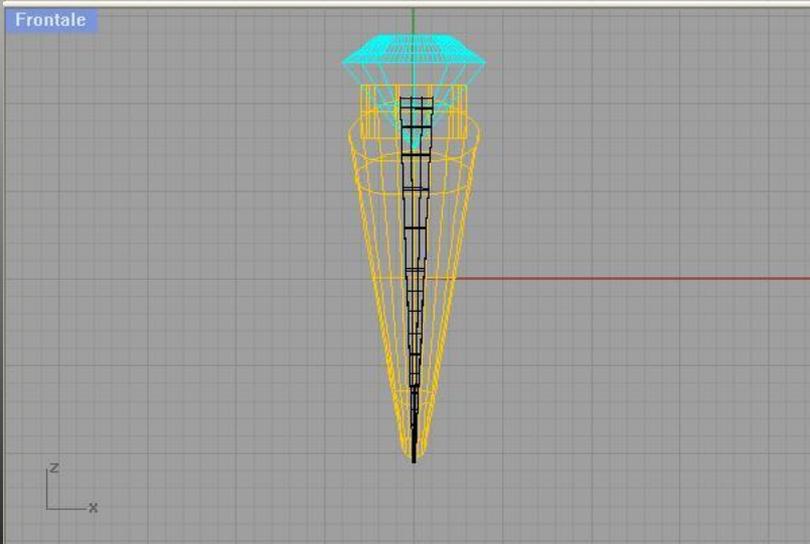
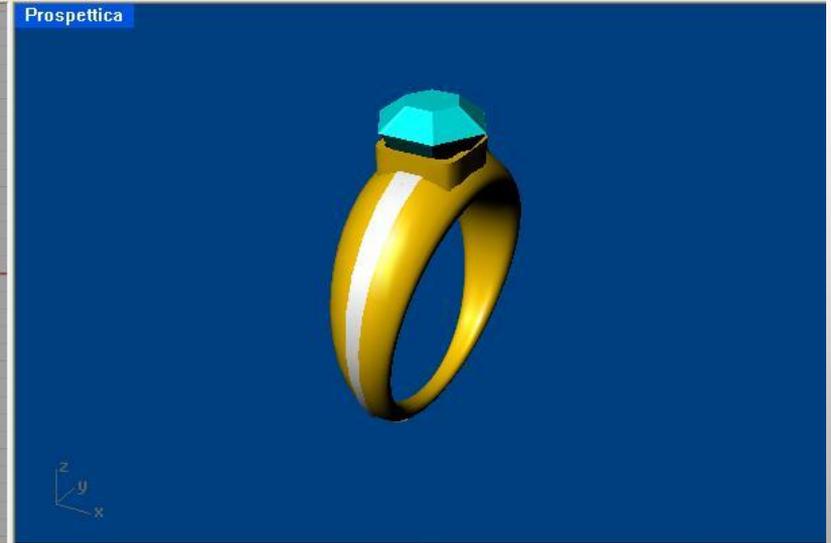
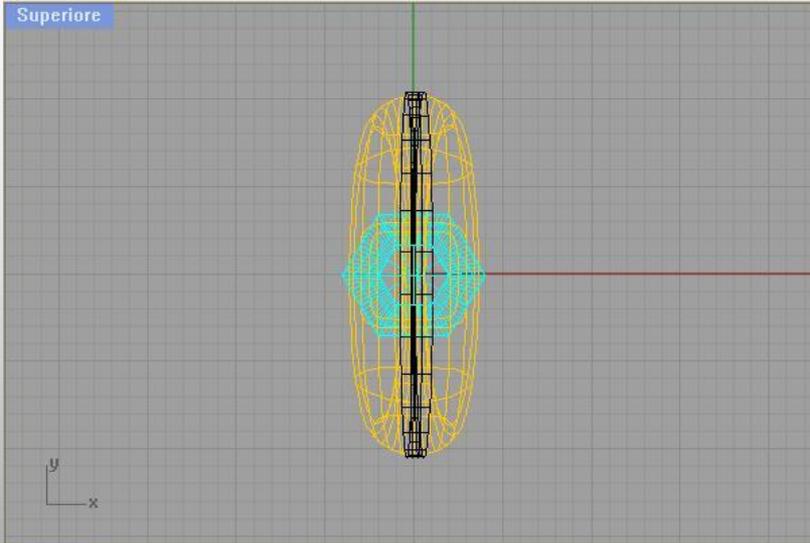


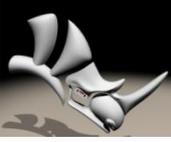
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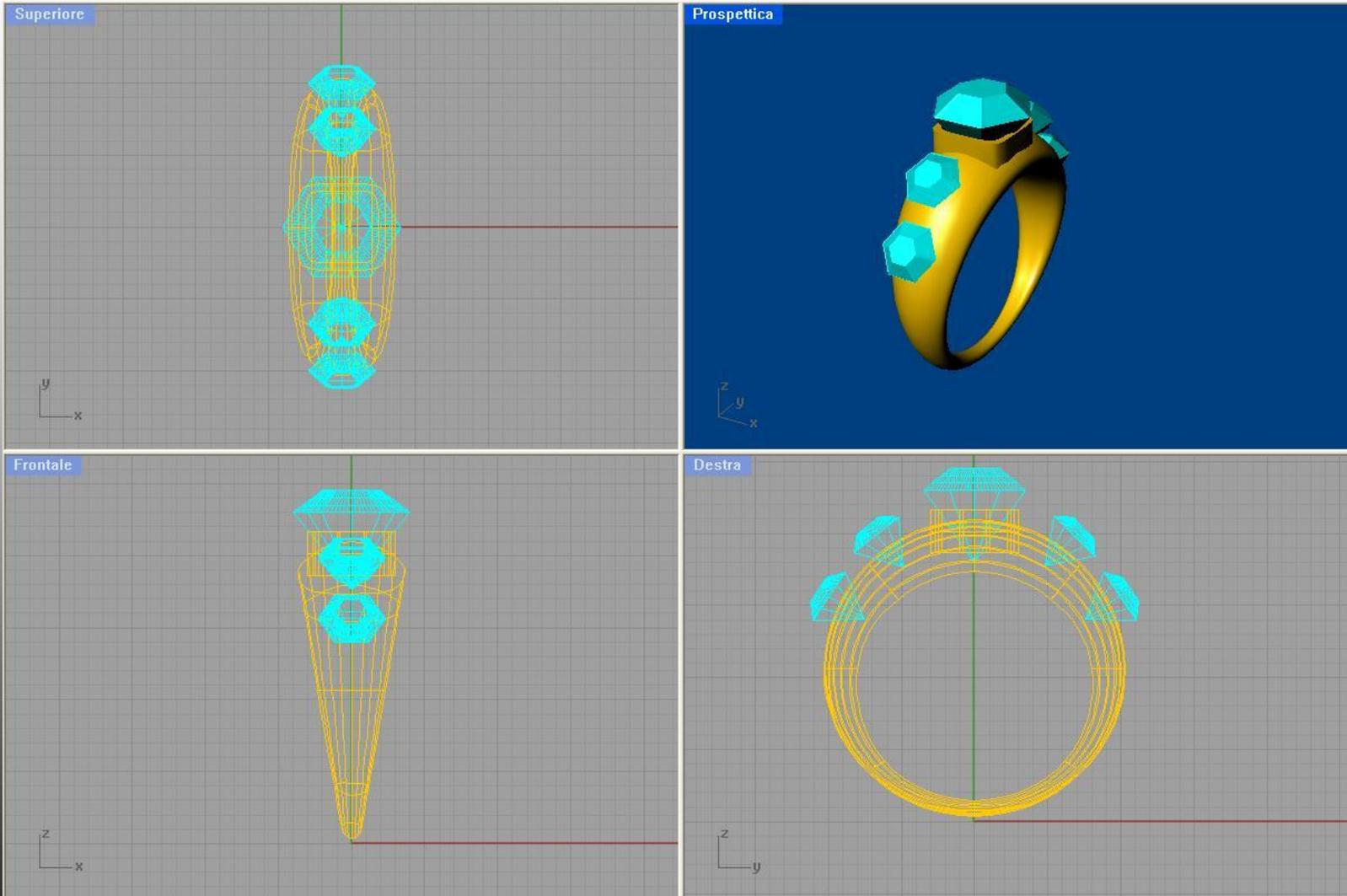


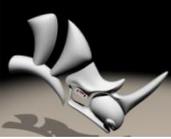
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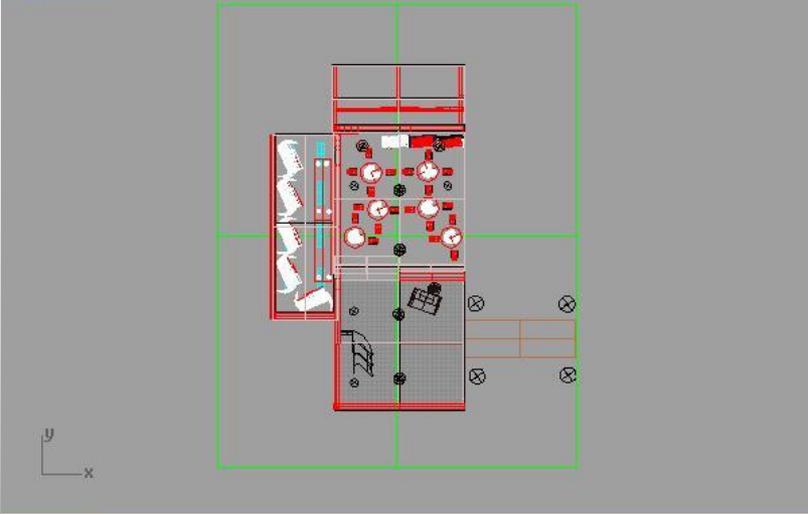
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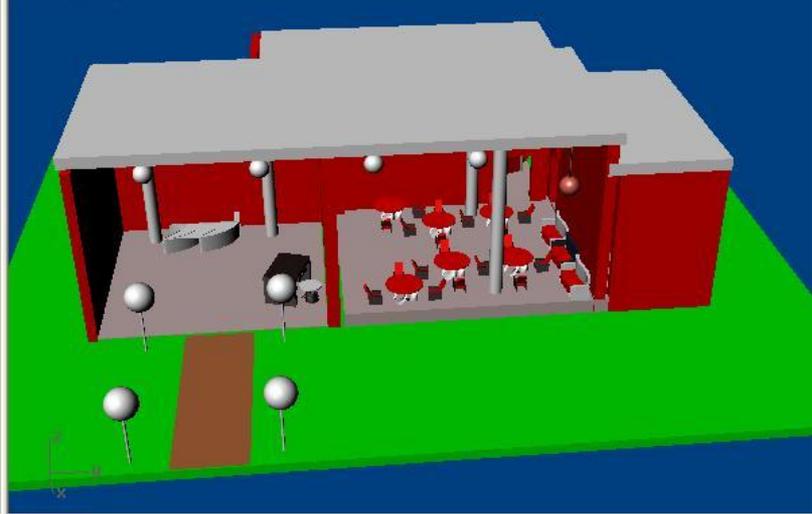


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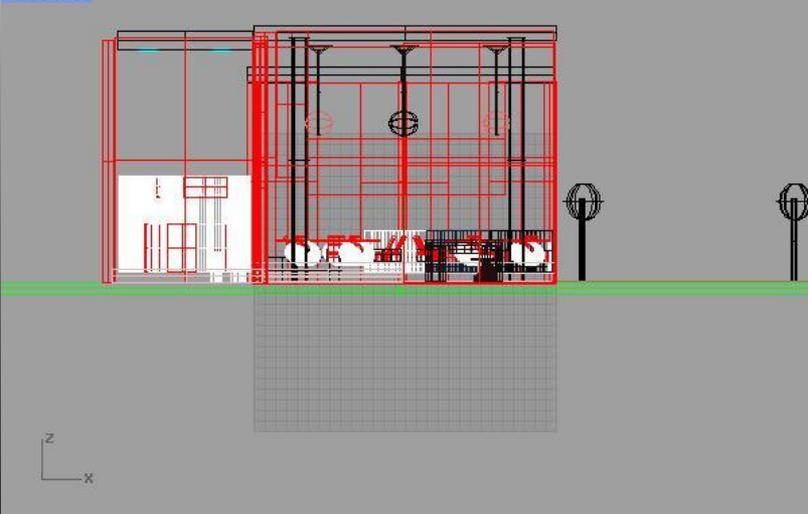
Superiore



Prospettica



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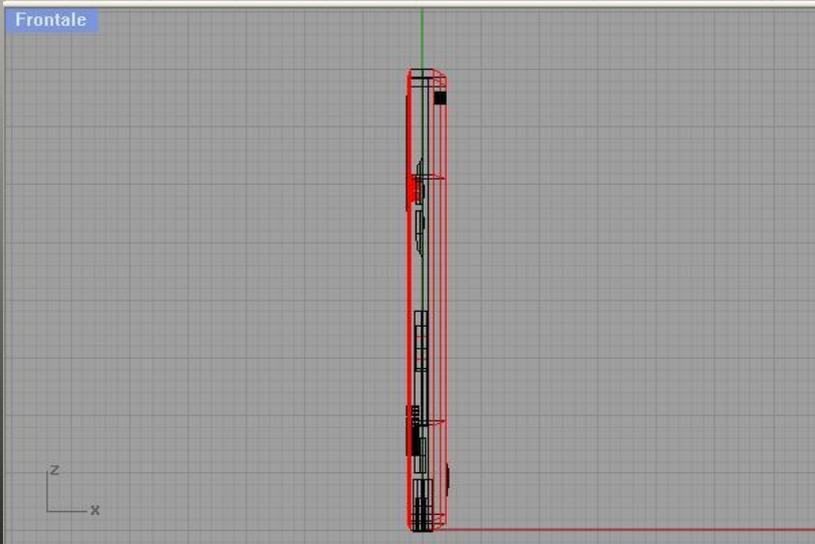
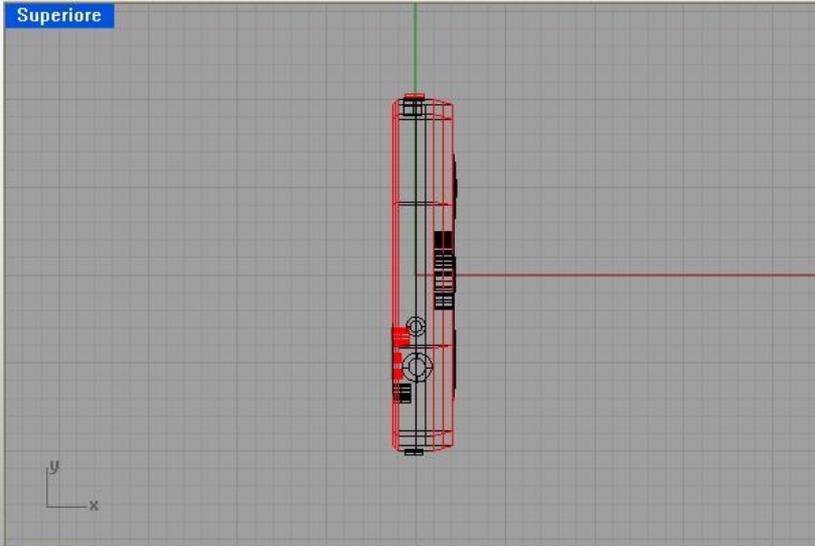


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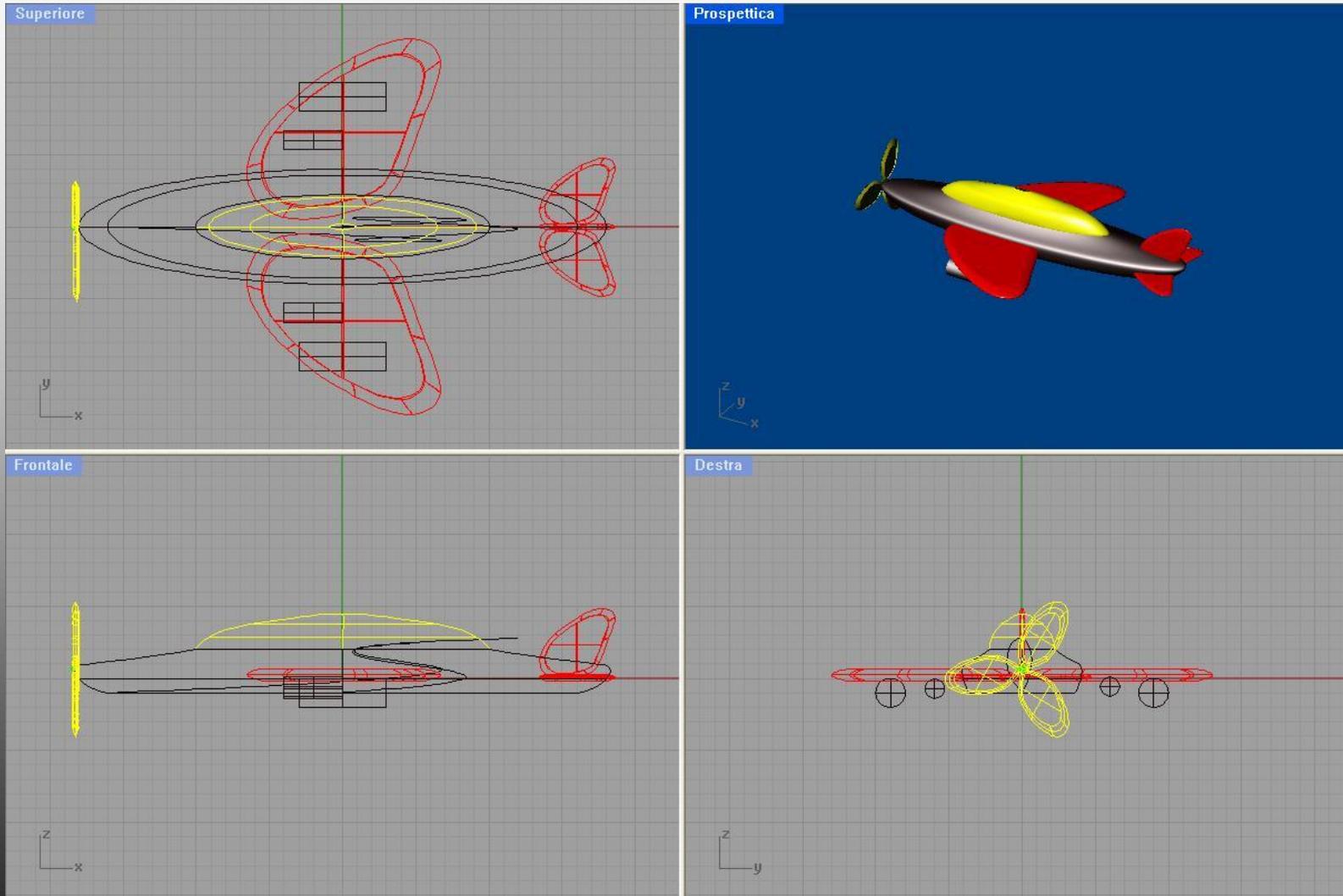


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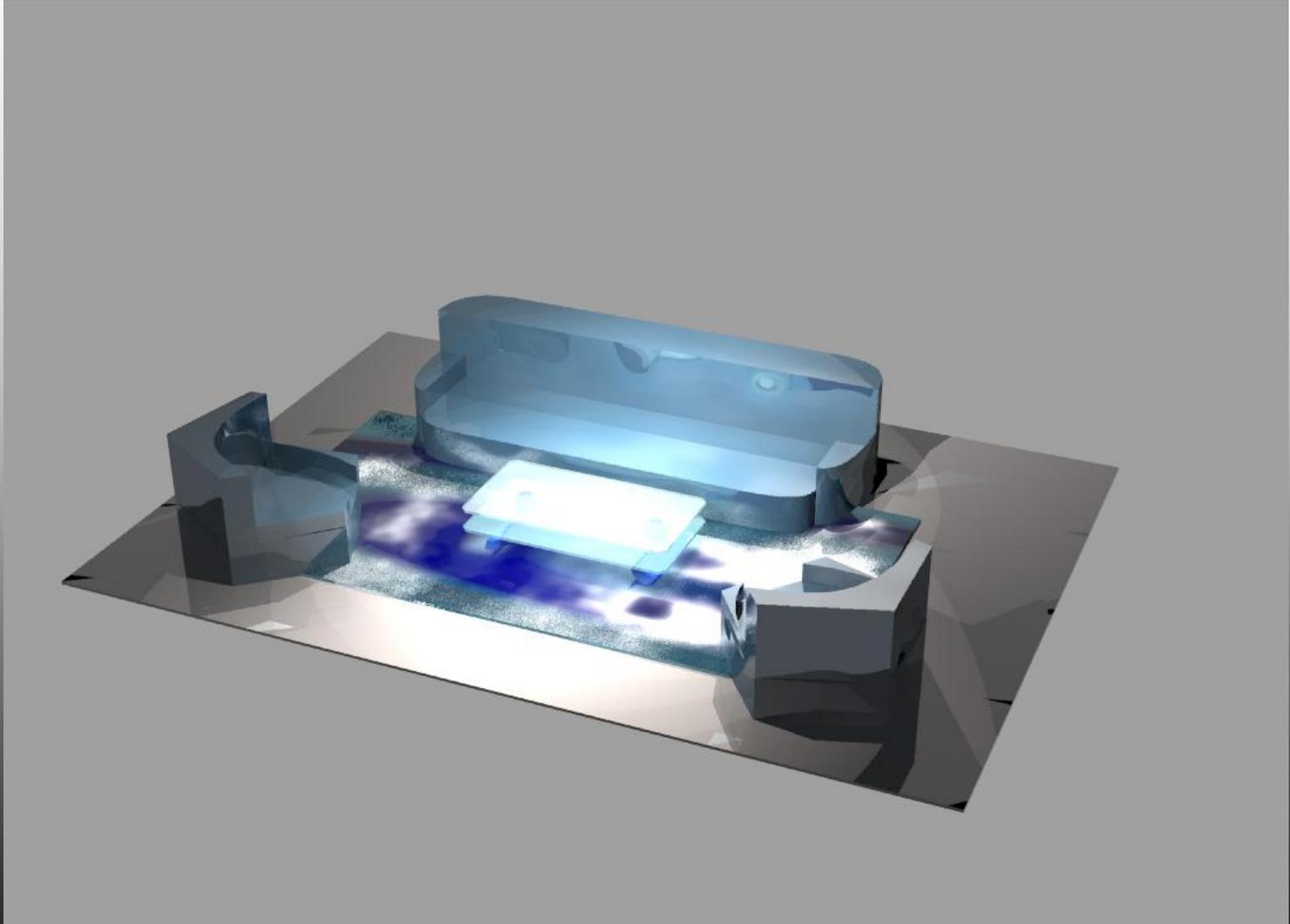


# Mangia Mattia



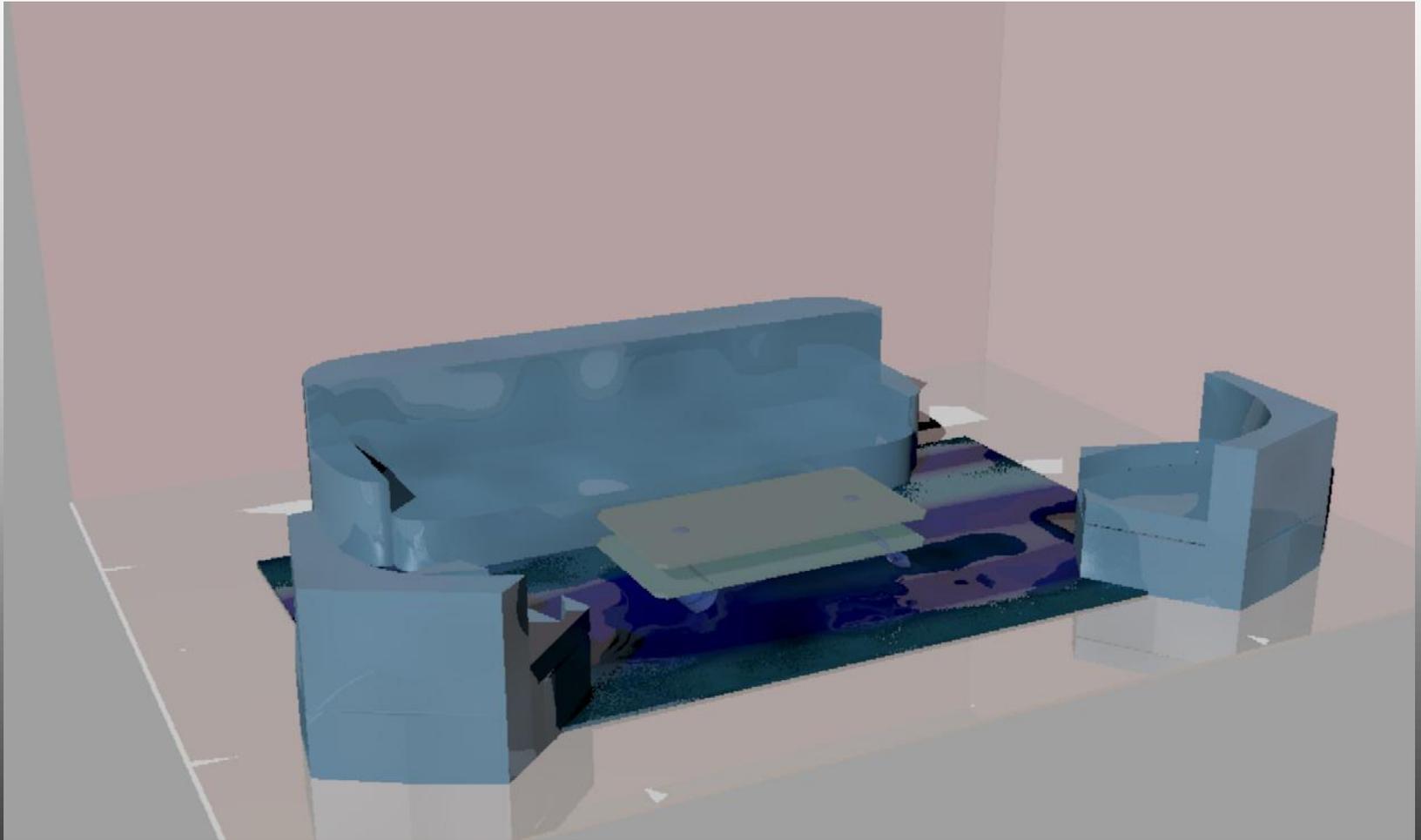


# Orlando Simona - Montagna Roberta





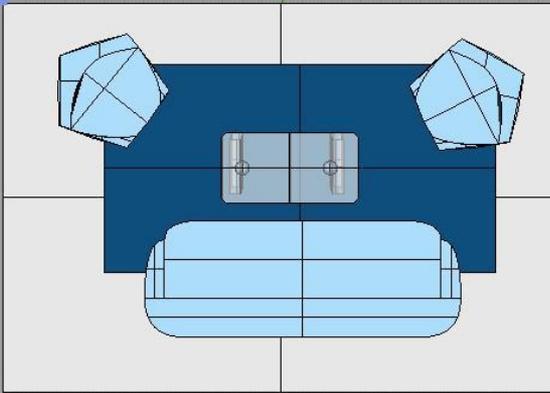
# Orlando Simona - Montagna Roberta



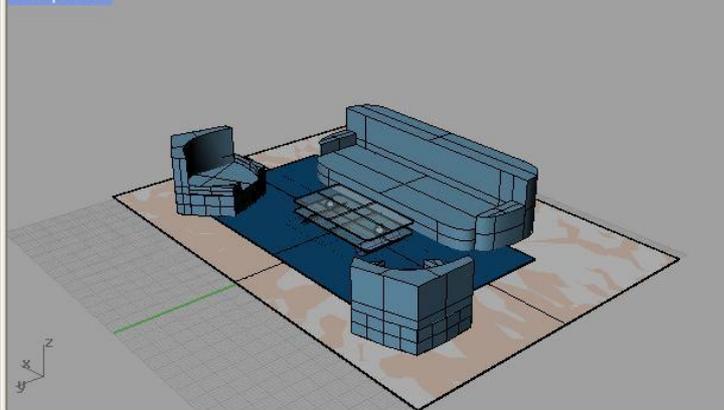


# Orlando Simona - Montagna Roberta

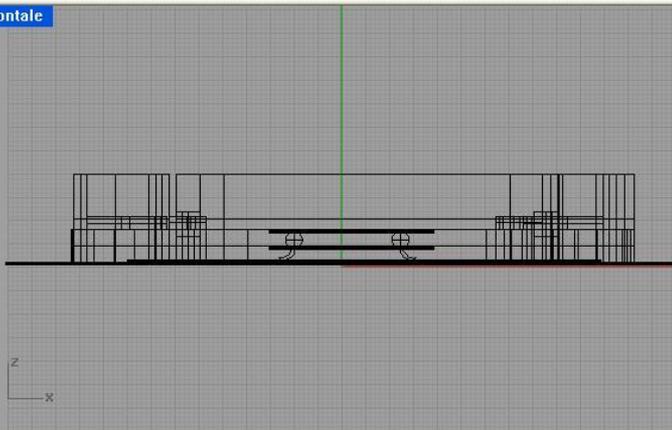
Superiore



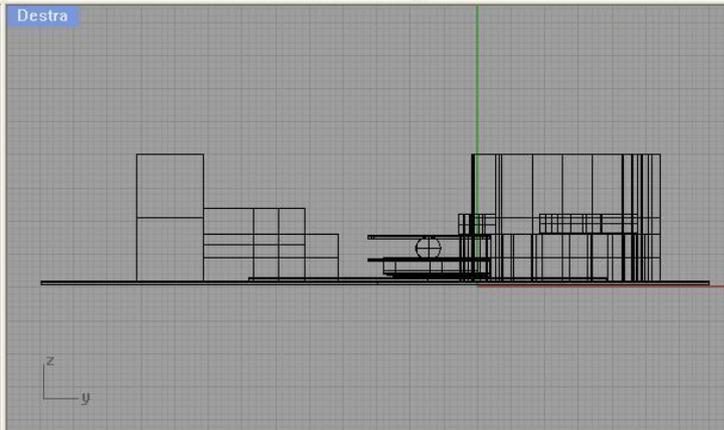
Prospettica



Frontale

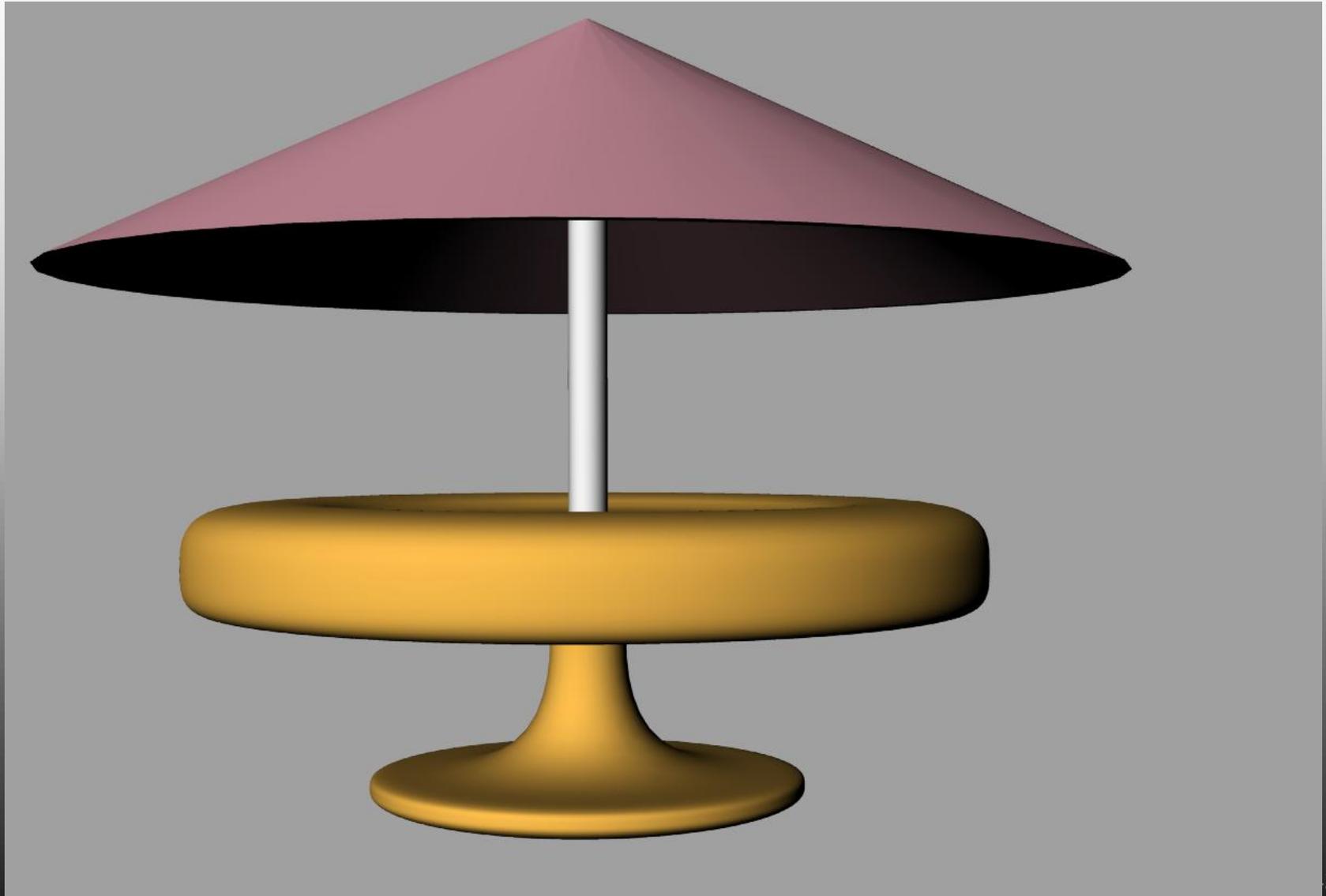


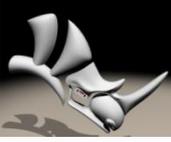
Destra



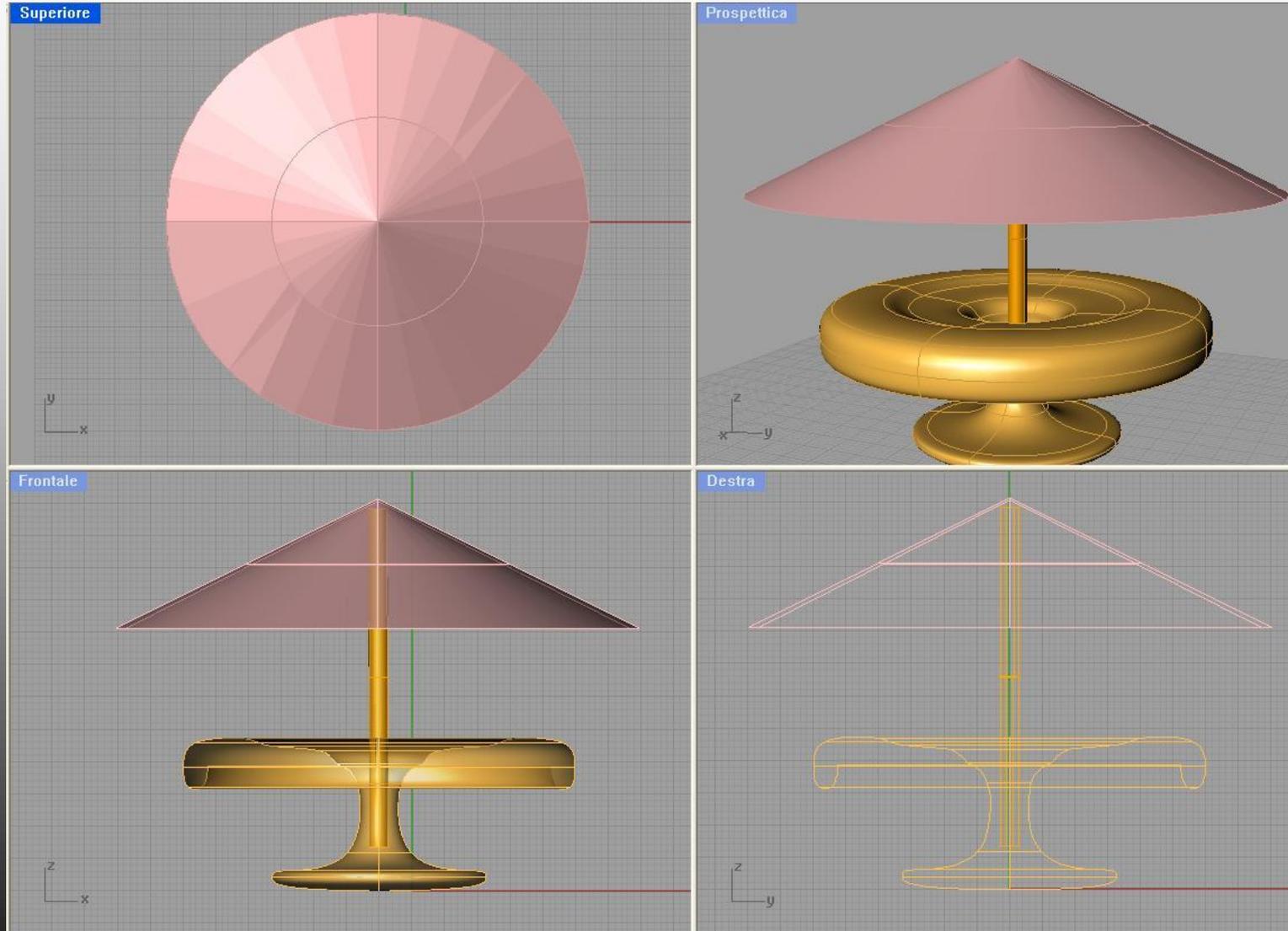


# Pellegrino Tiziana – Rizzo Erika





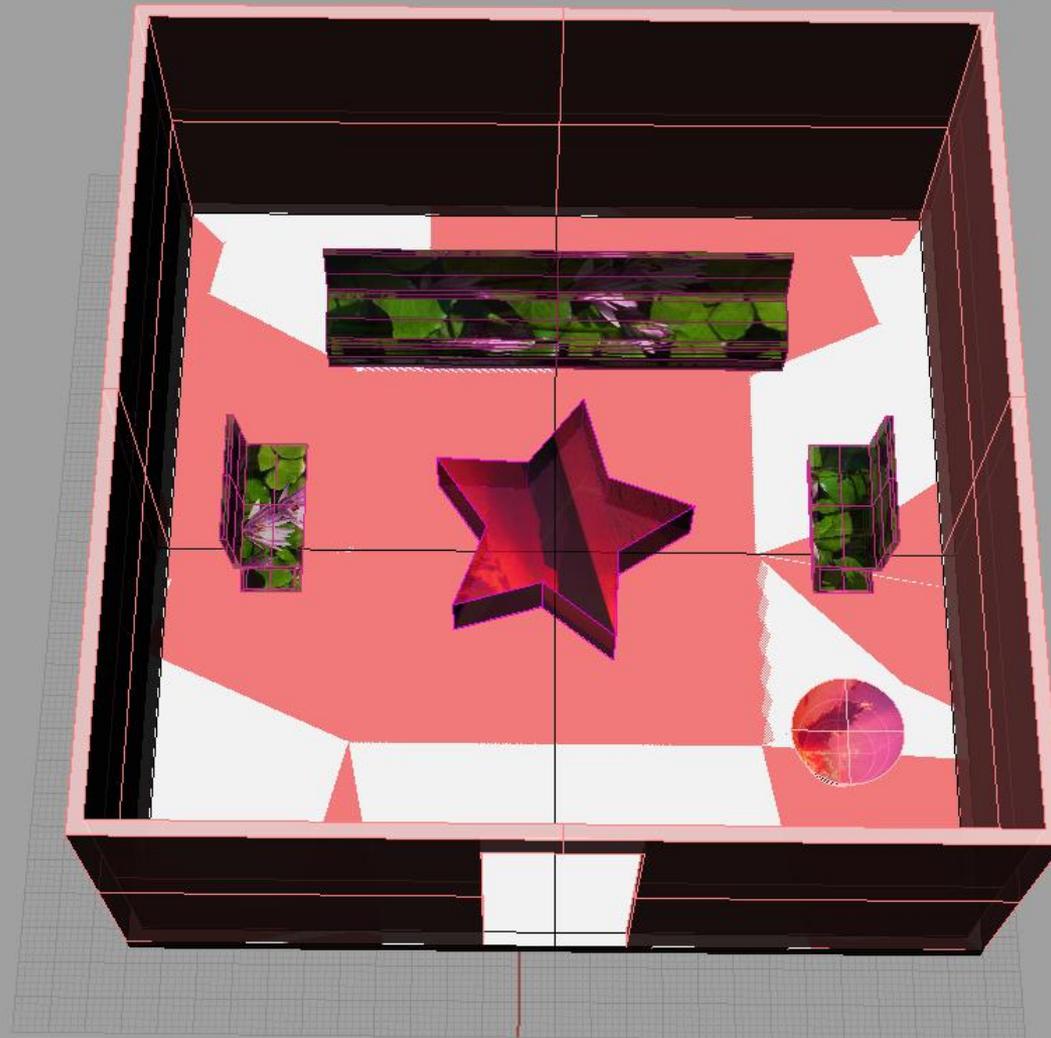
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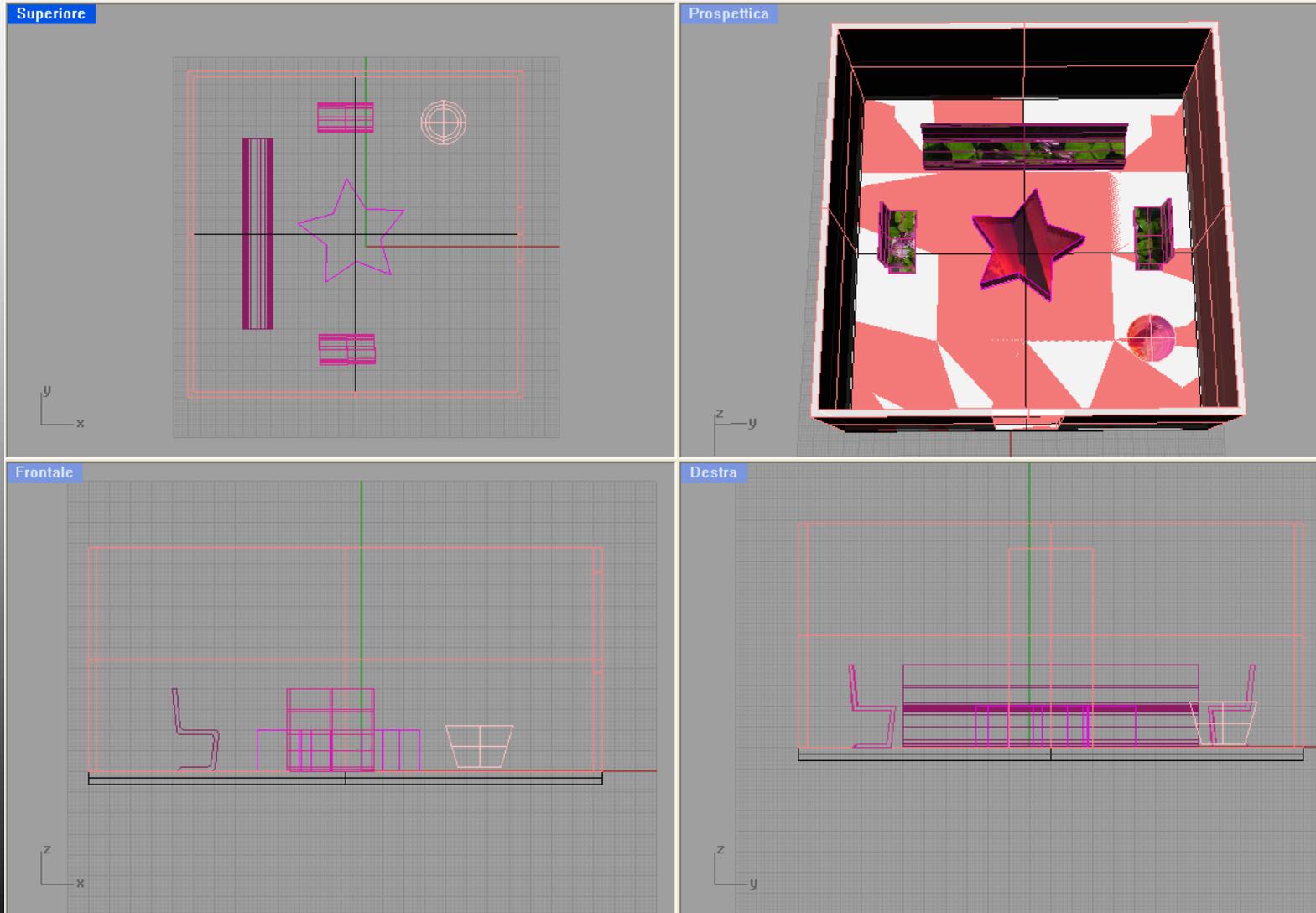
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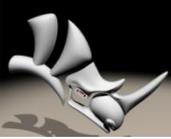
Prospettica



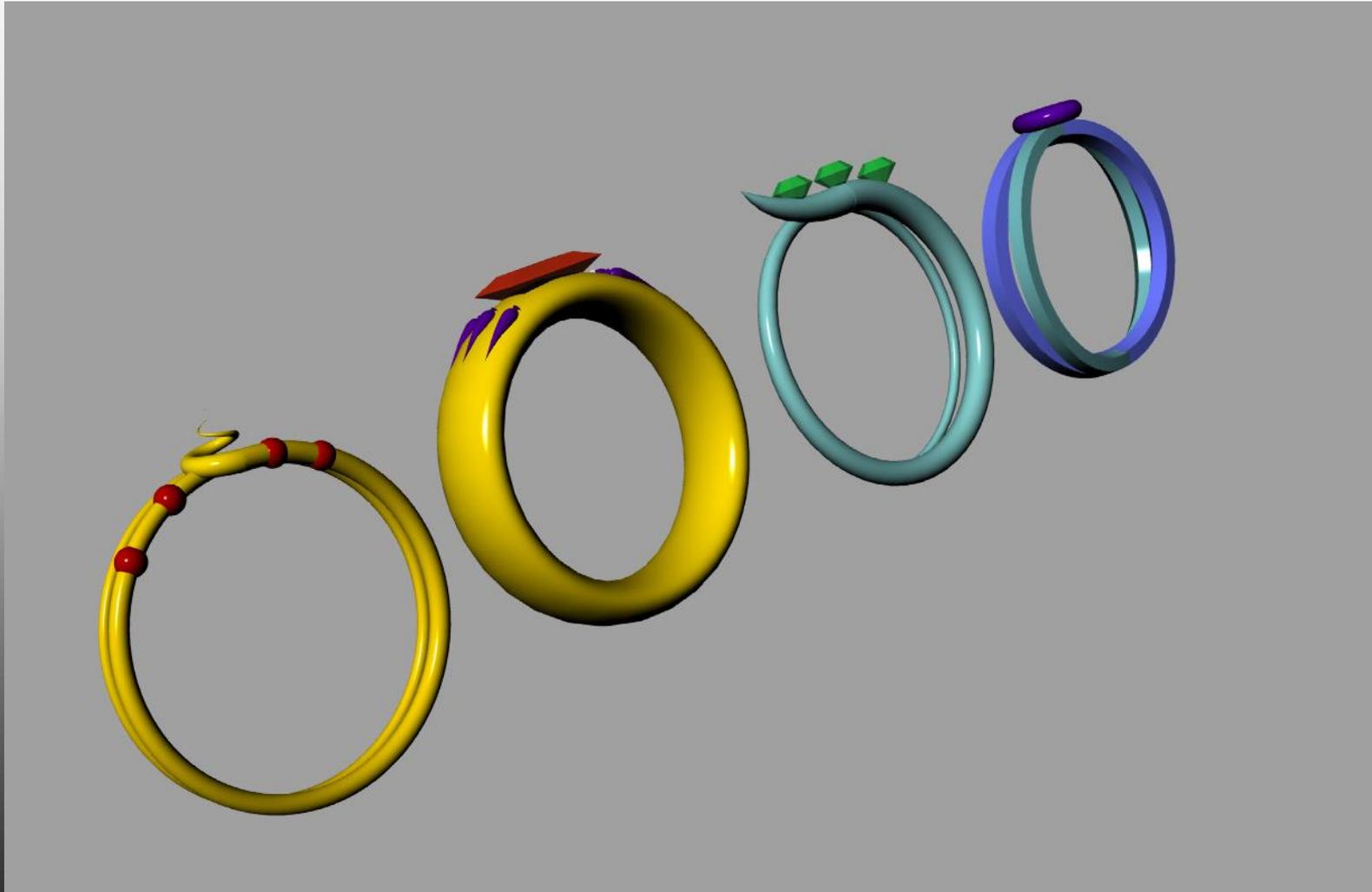


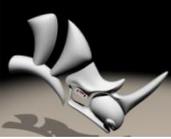
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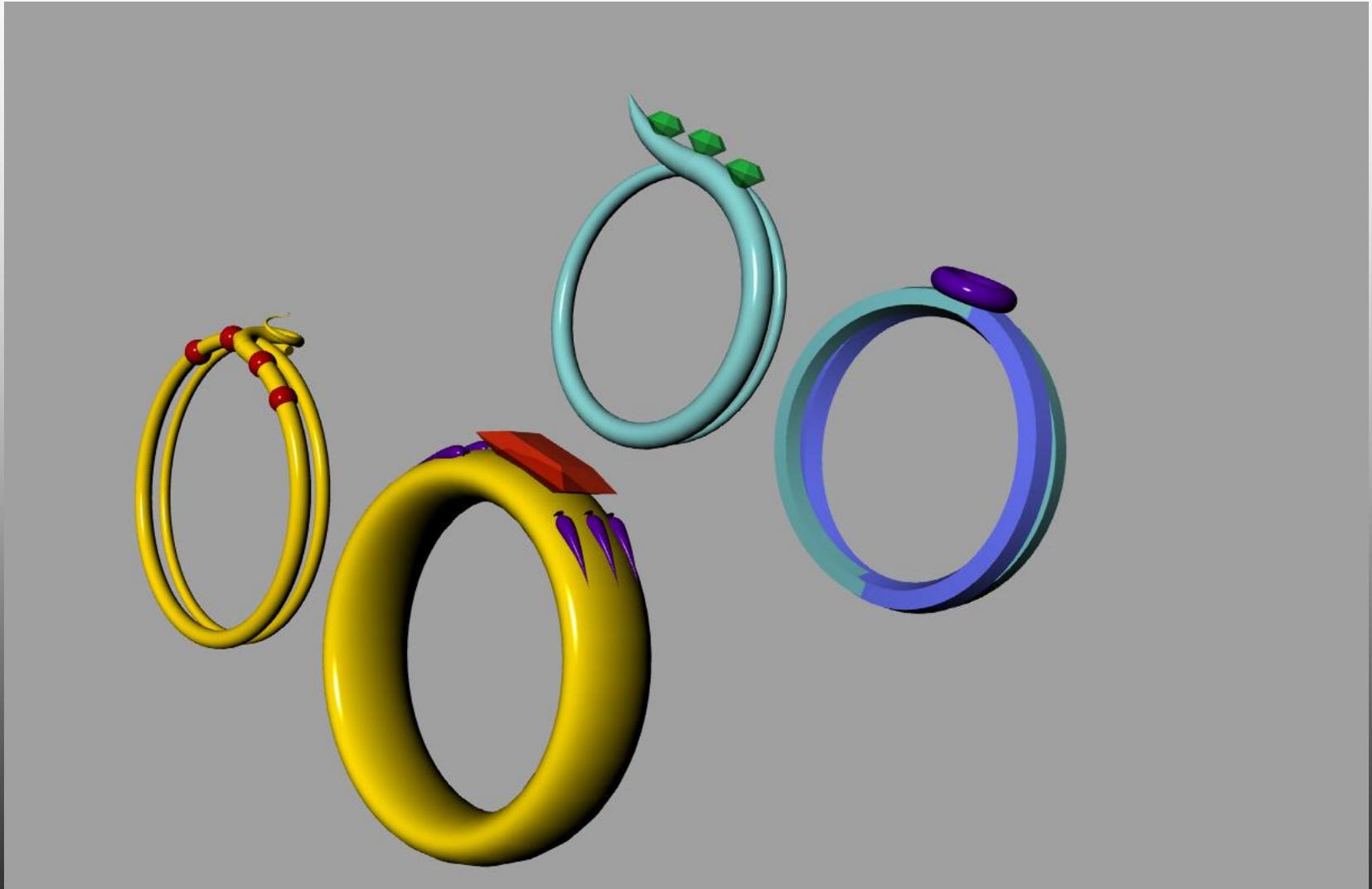


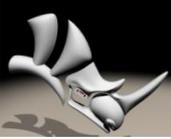
# Tommasi Lorenzo



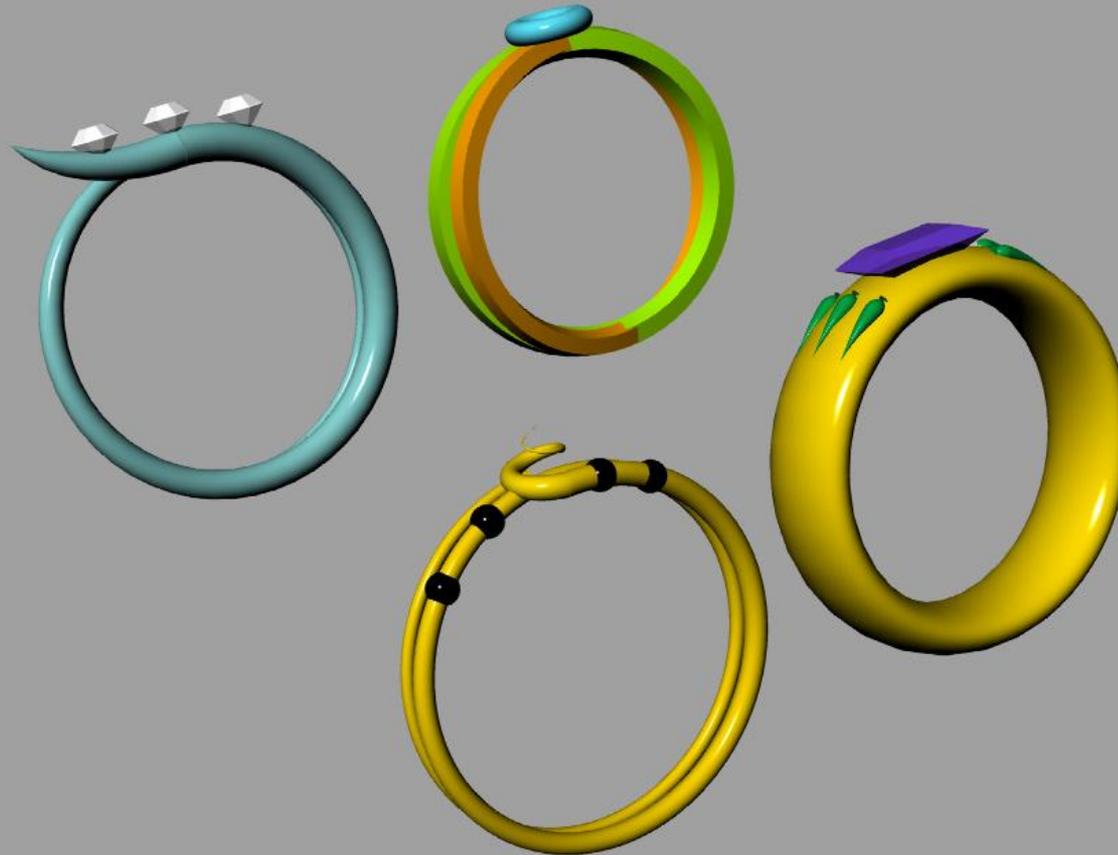


# Tommasi Lorenzo





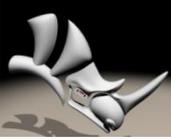
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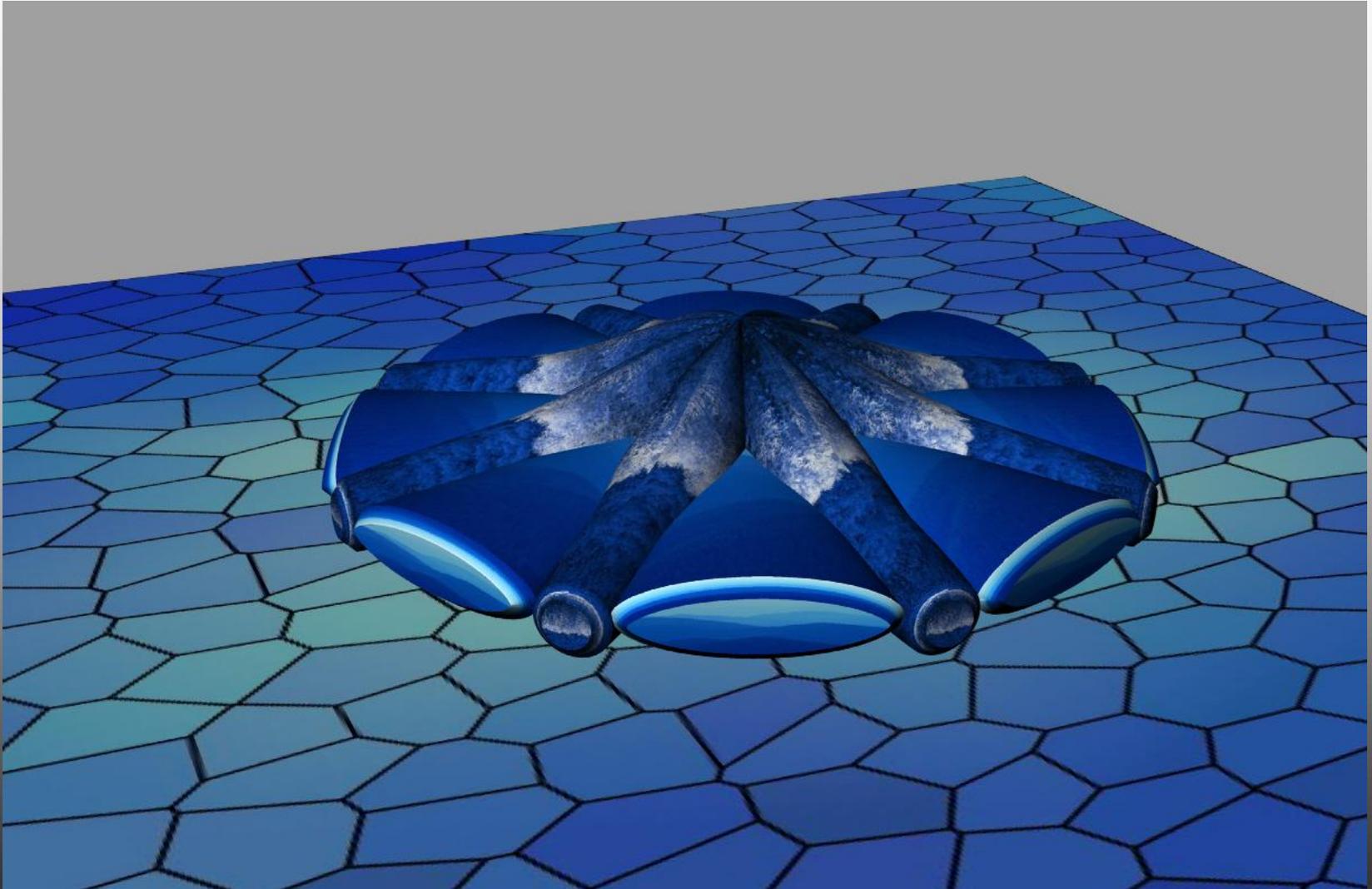


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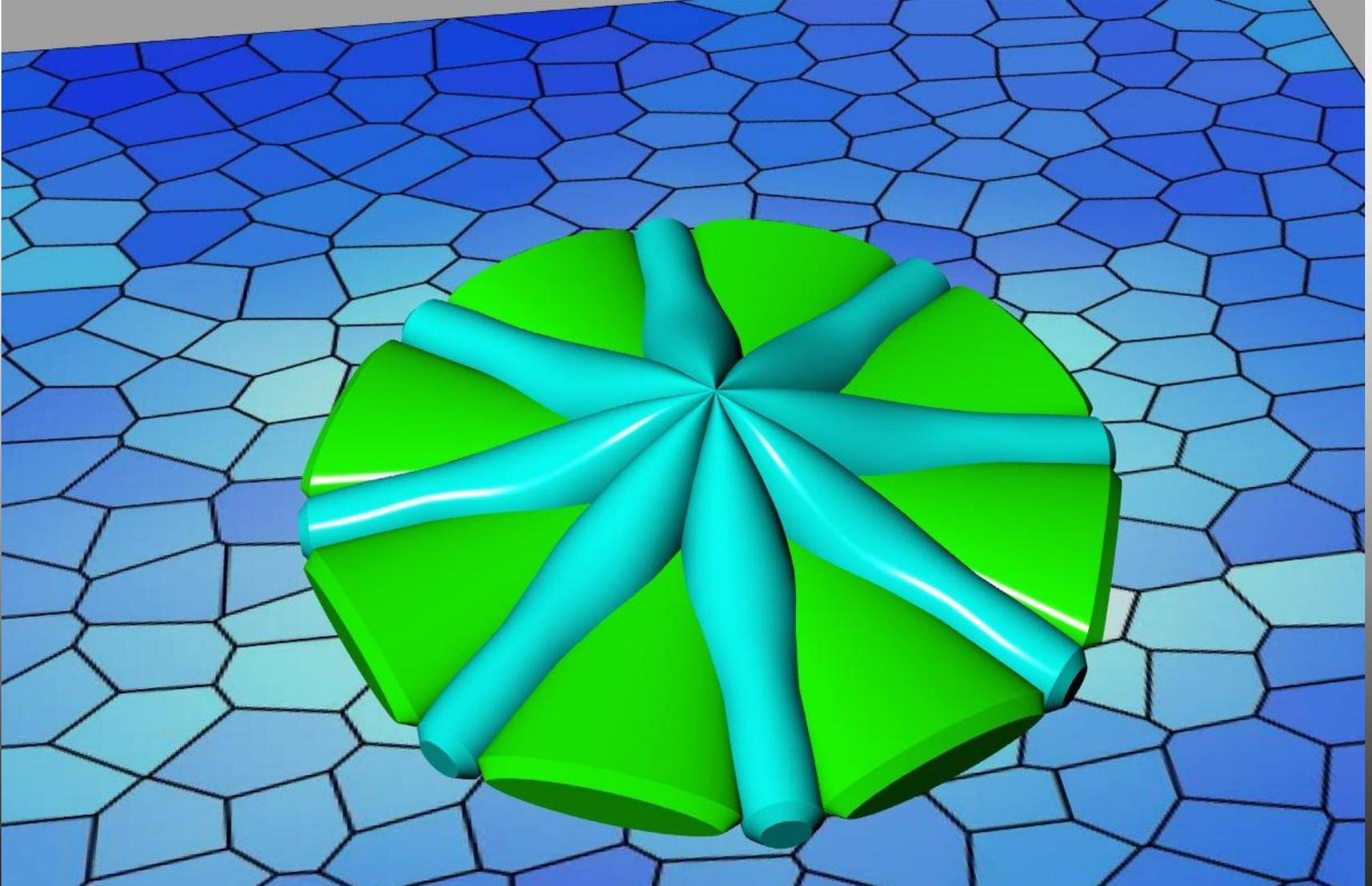


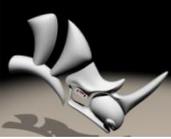
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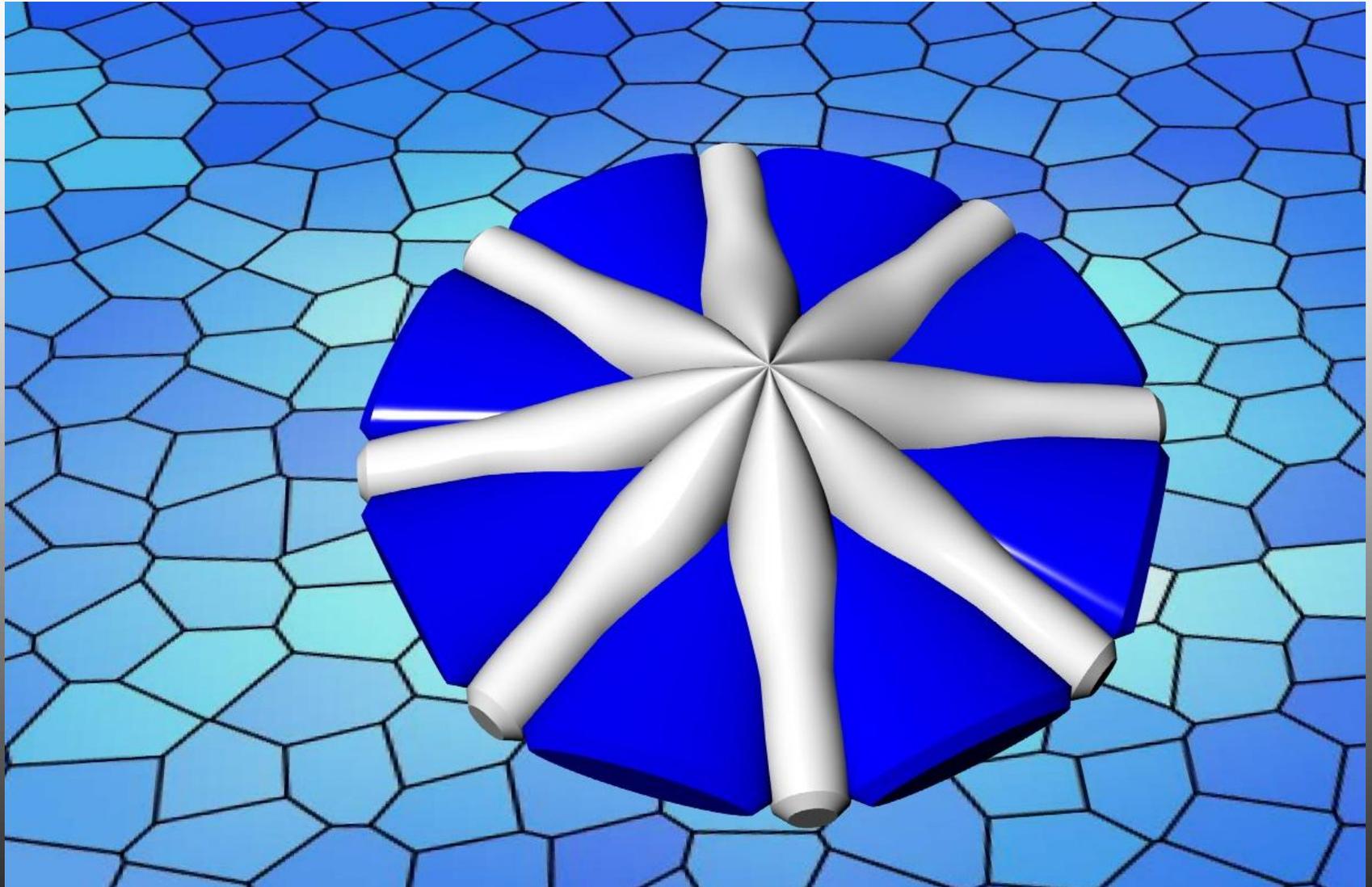


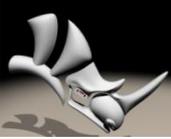
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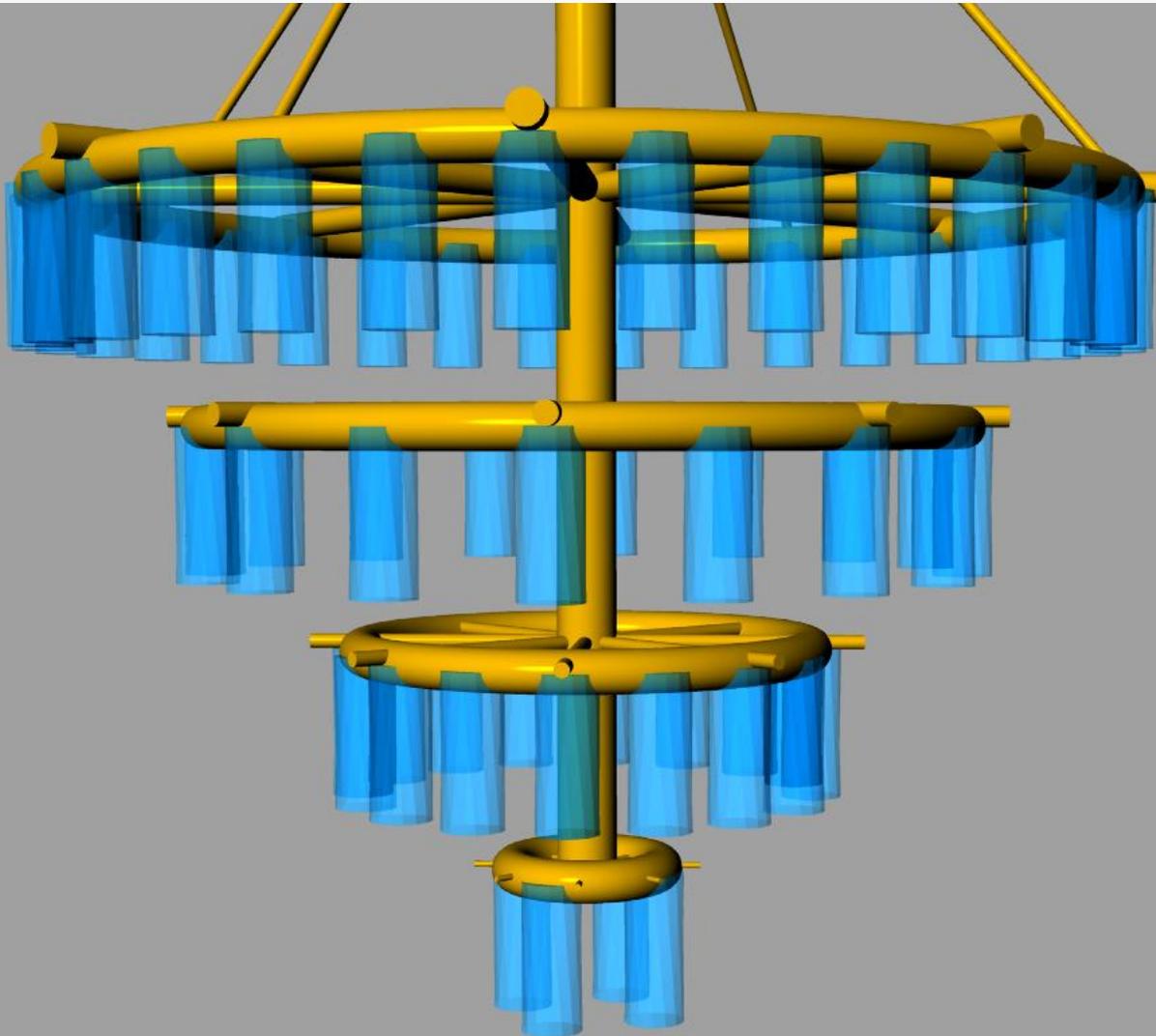


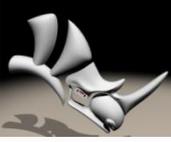
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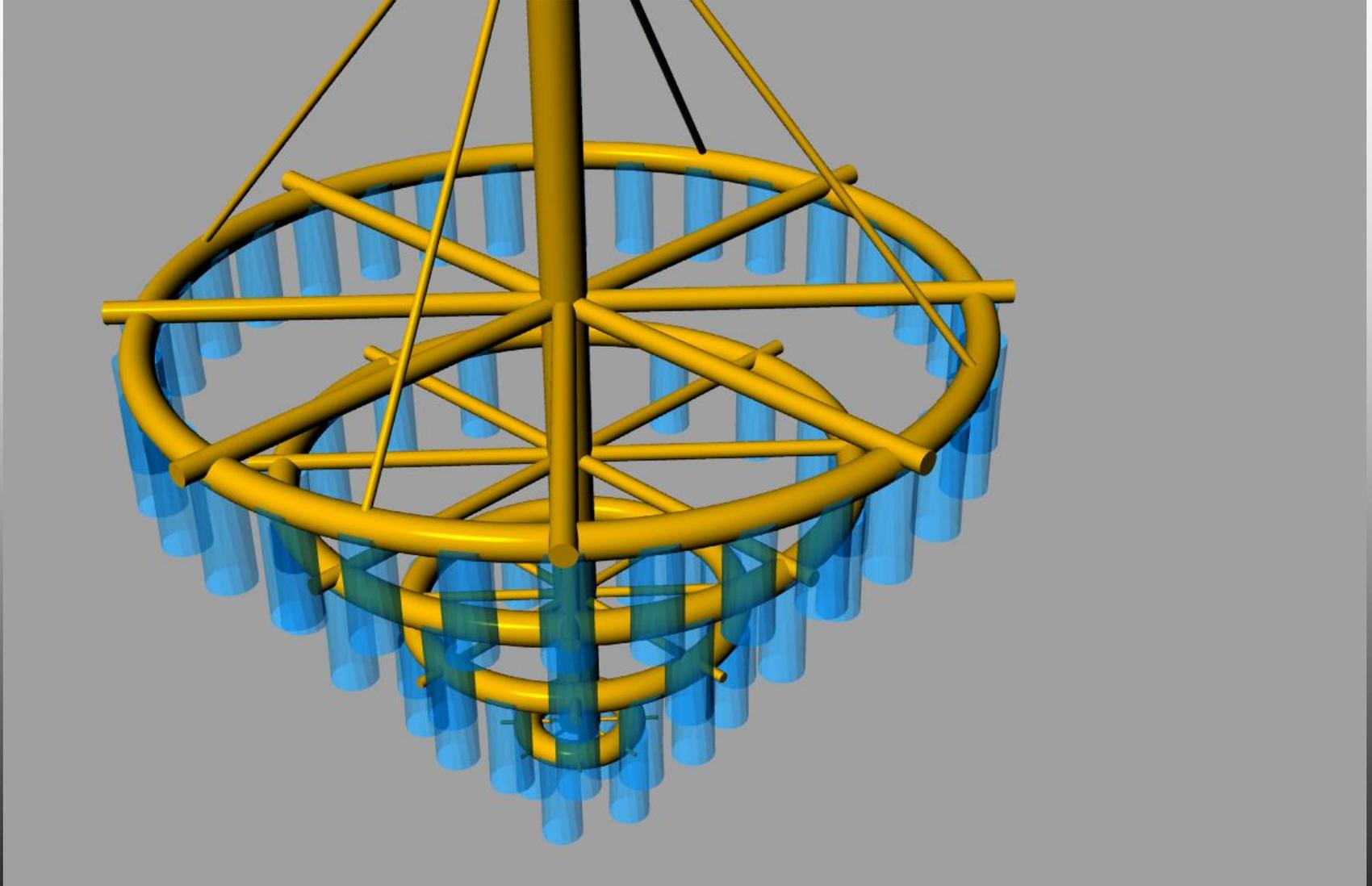


# Tommasi Lorenzo



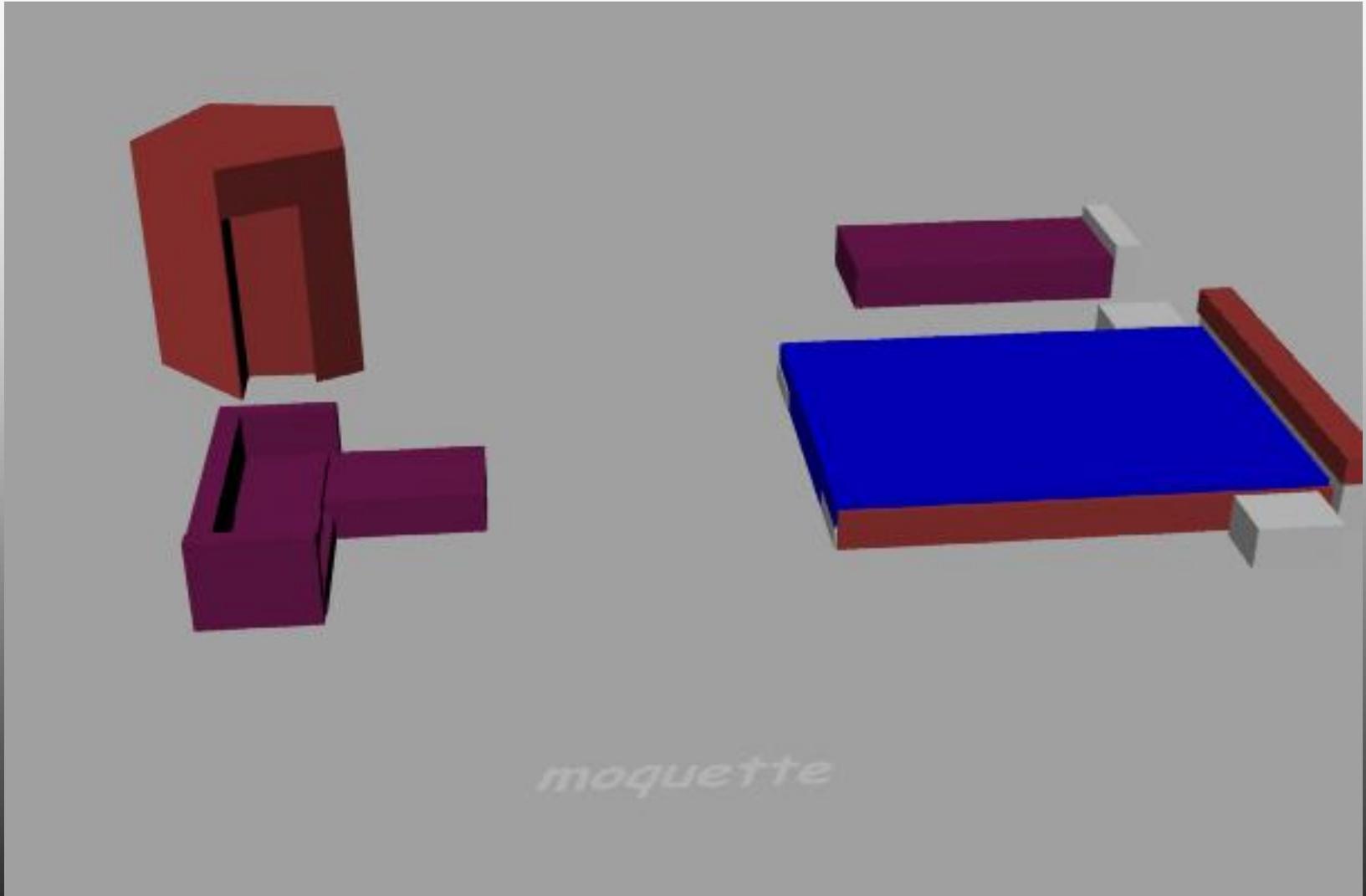


# Tommasi Lorenzo





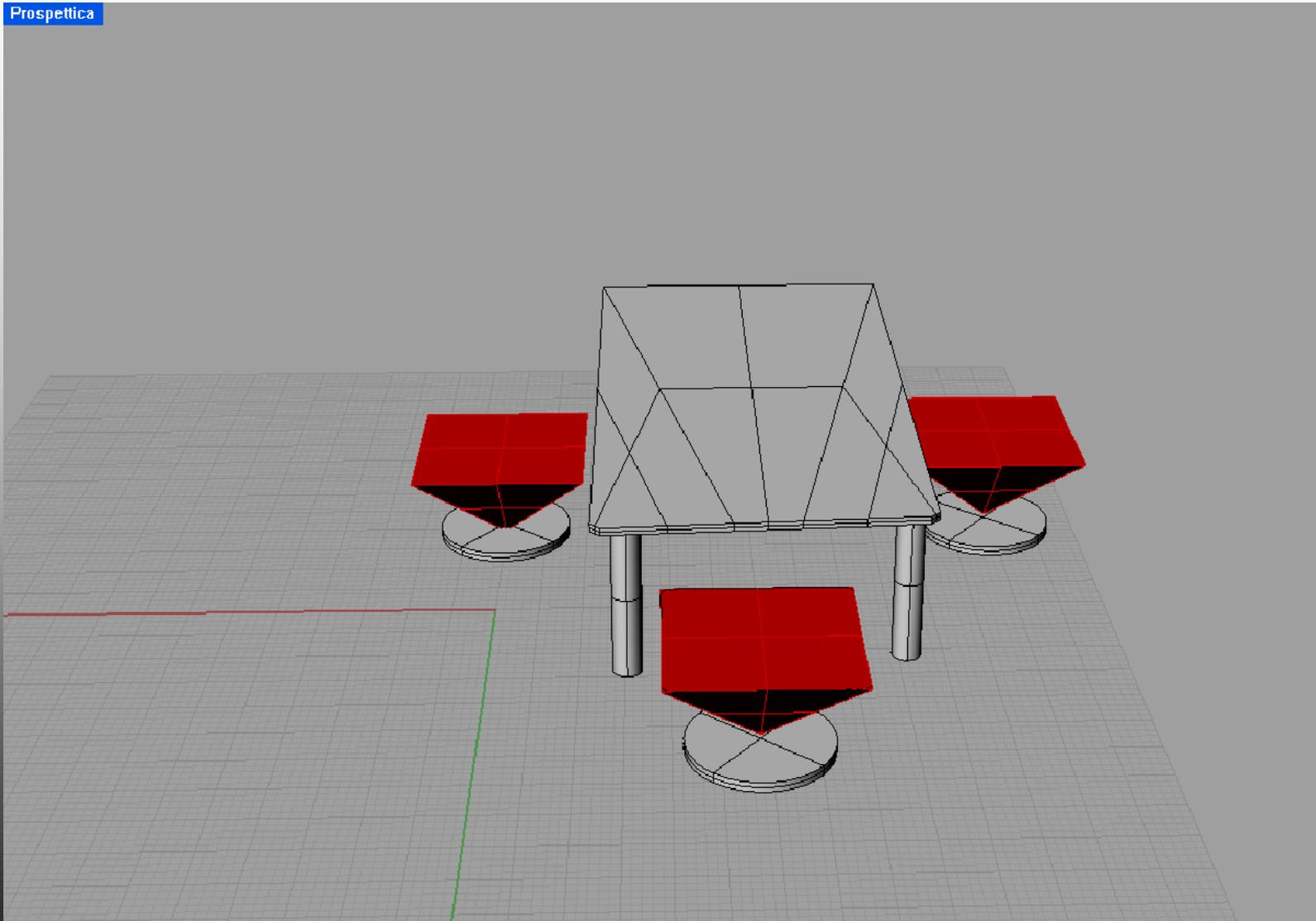
# Tomasello Sharon





# Tomasello Sharon

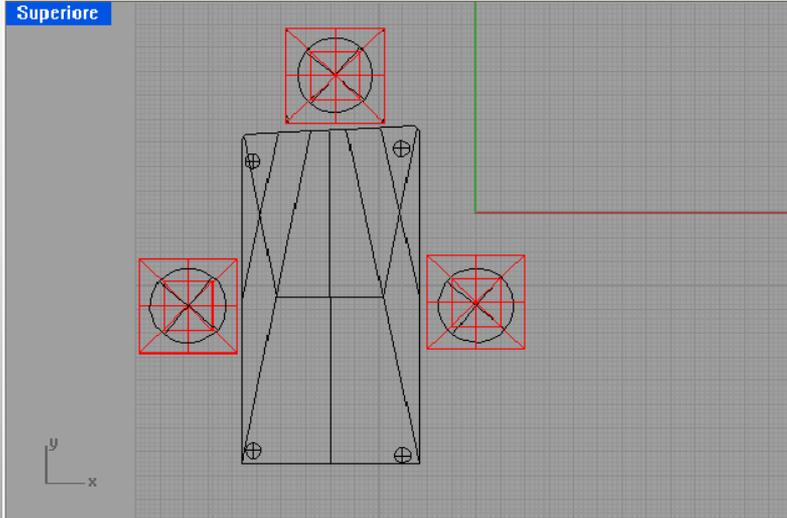
Prospettica



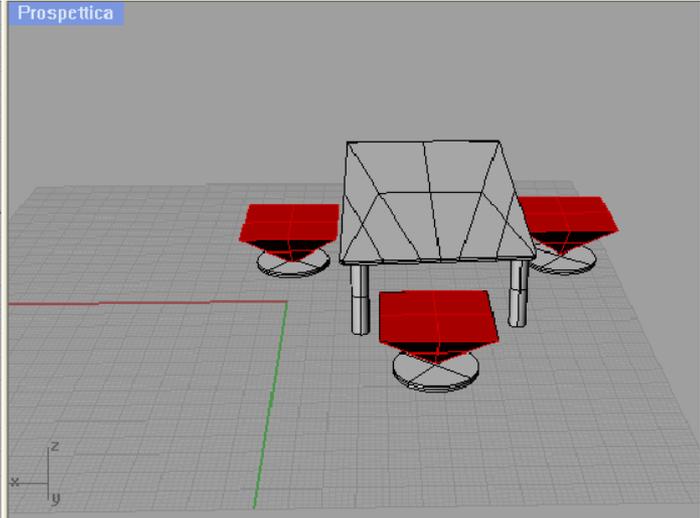


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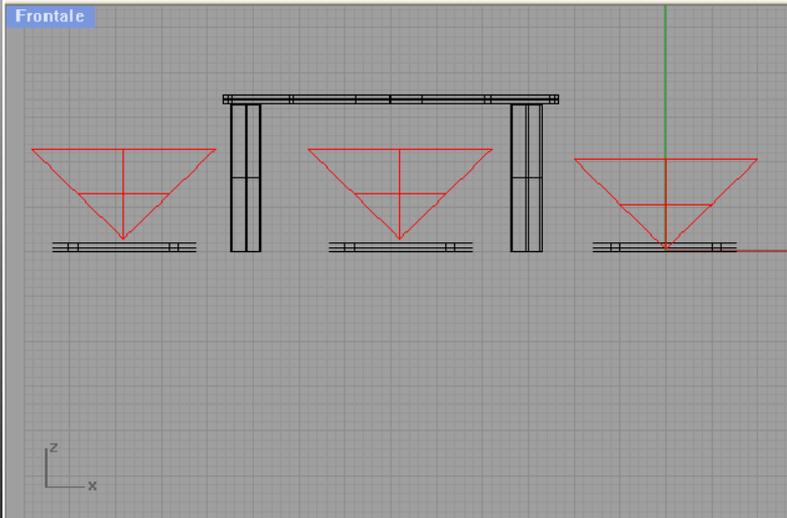
Superiore



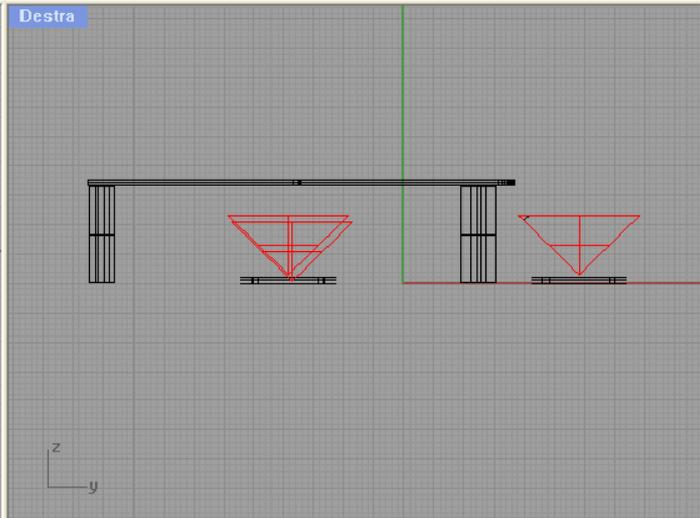
Prospettiva



Frontale



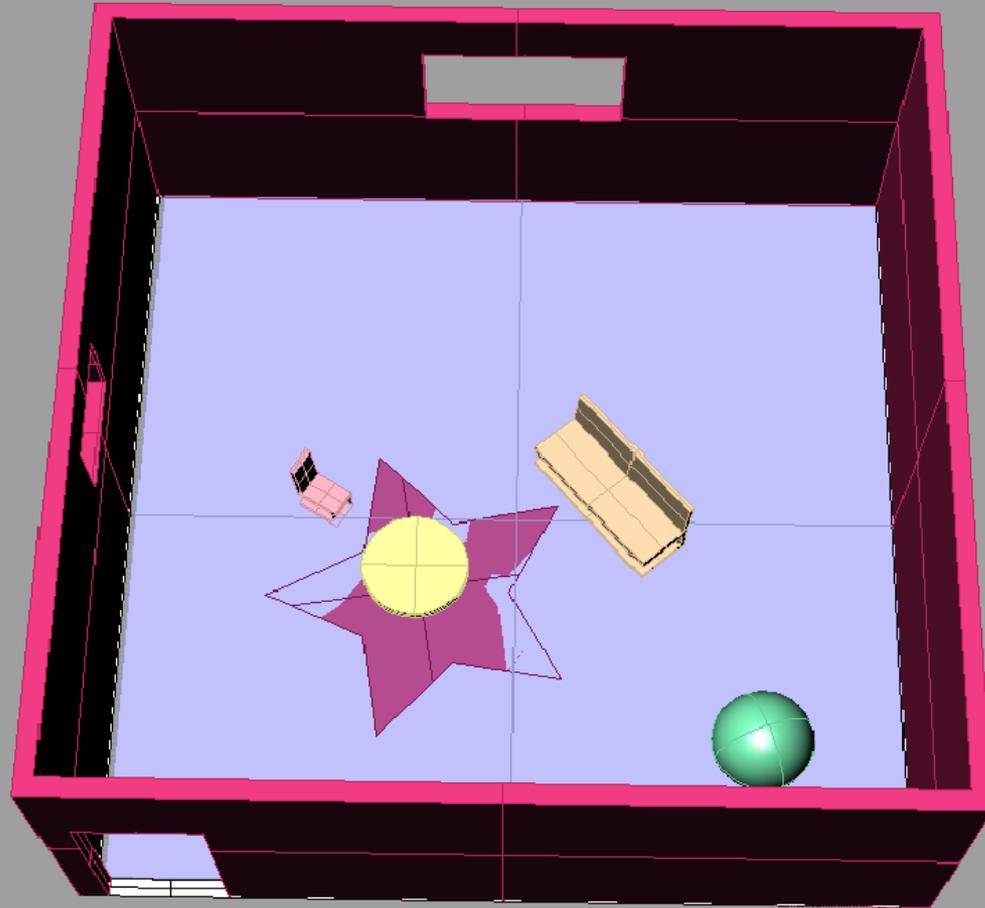
Destra





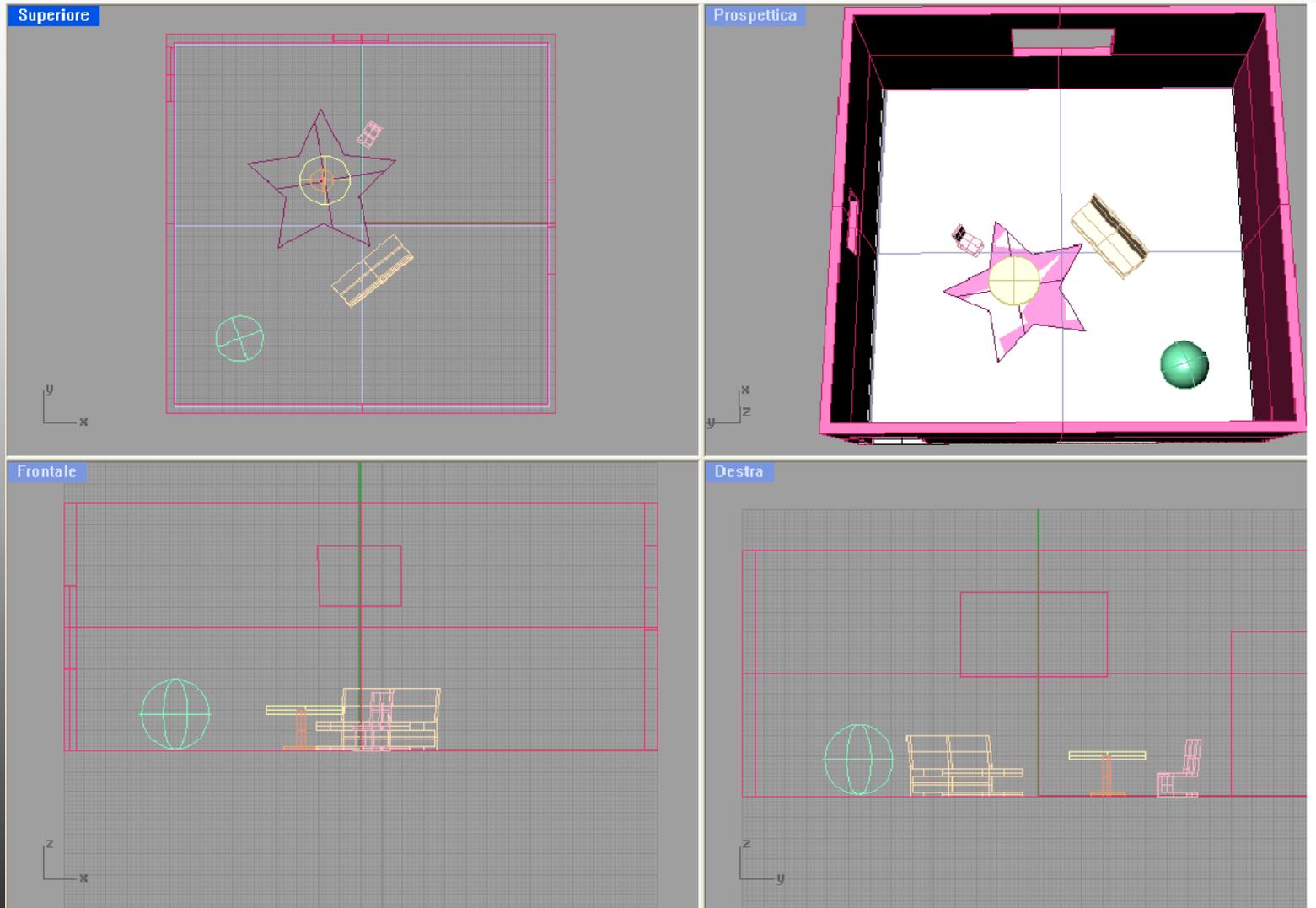
# Tomasello Sharon

Prospettiva





# Tomasello Sharon





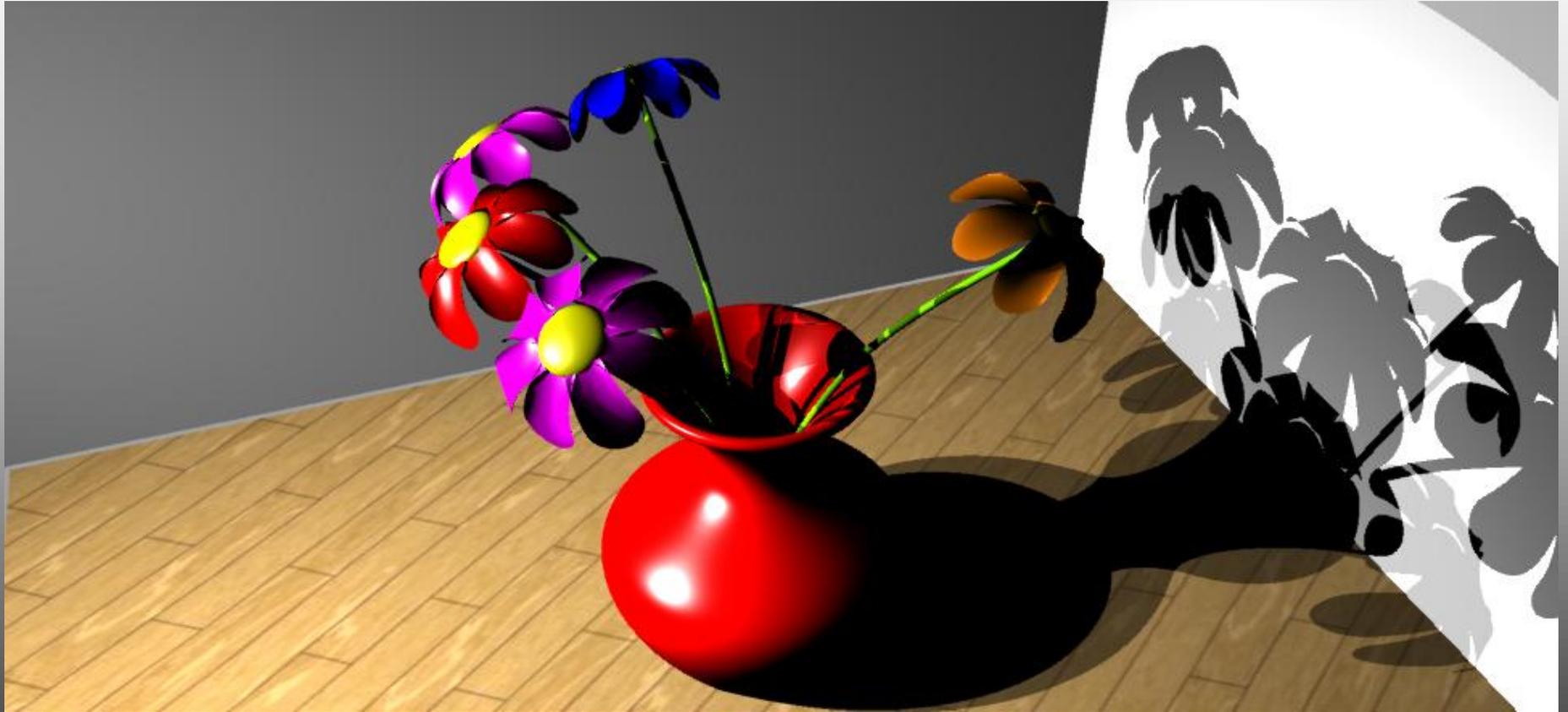
# SVILUPPO DELLE COMPETENZE CAD ACQUISITE DAL PRECEDENTE PON

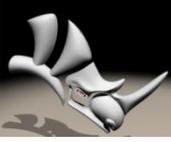
Allievo: COPPOLA SILVIO

**Classe 3°A /Ar**

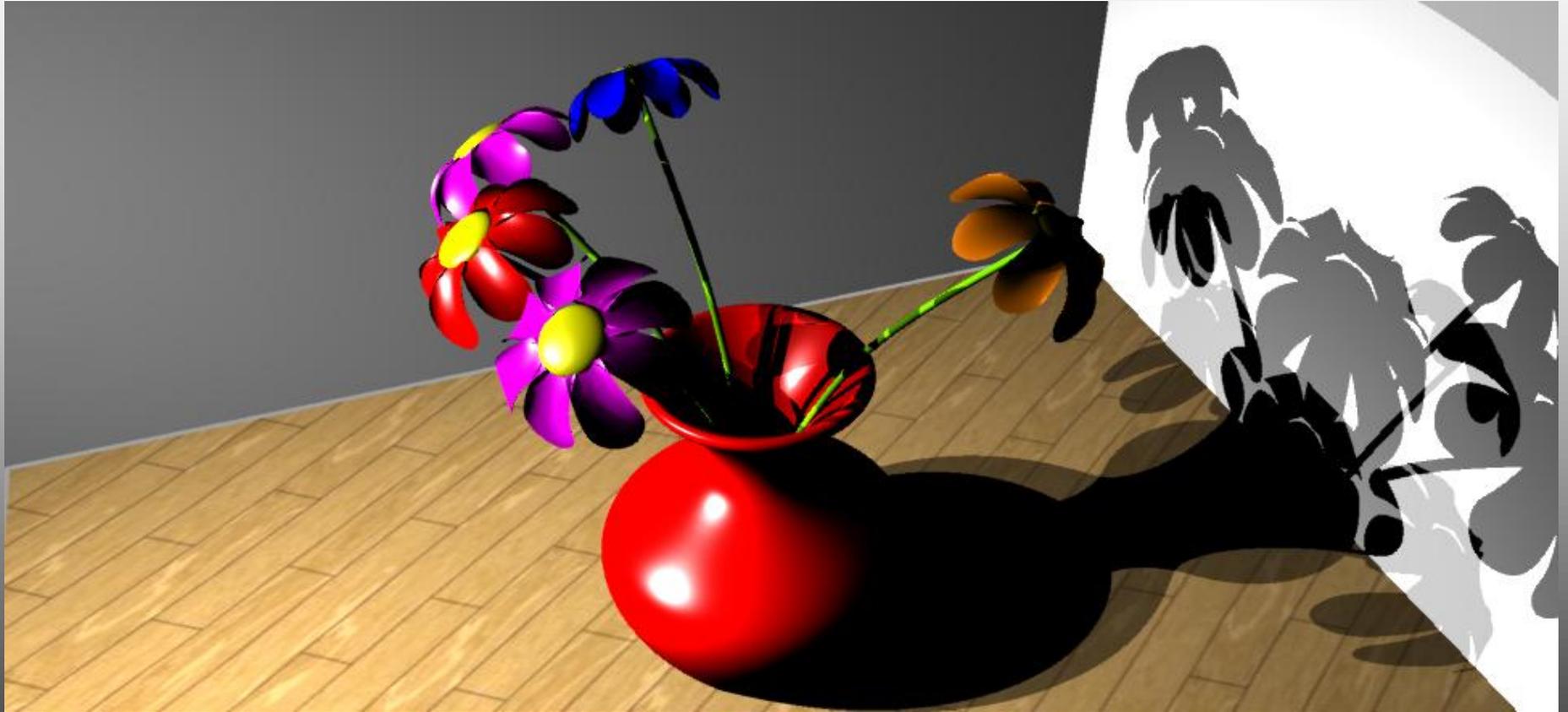


# Coppola Silvio





# Coppola Silvio



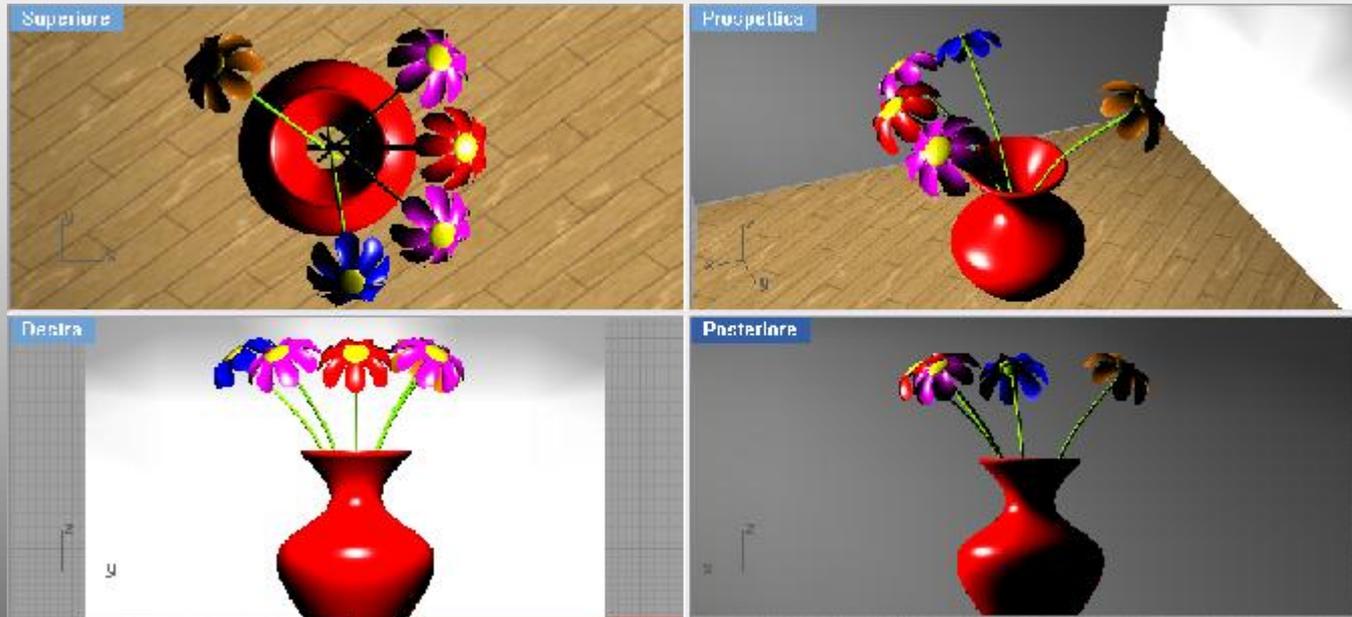


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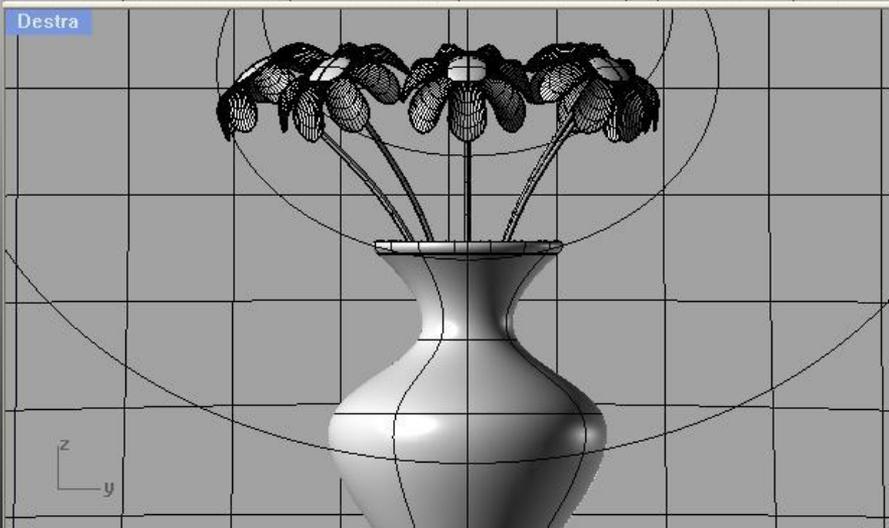
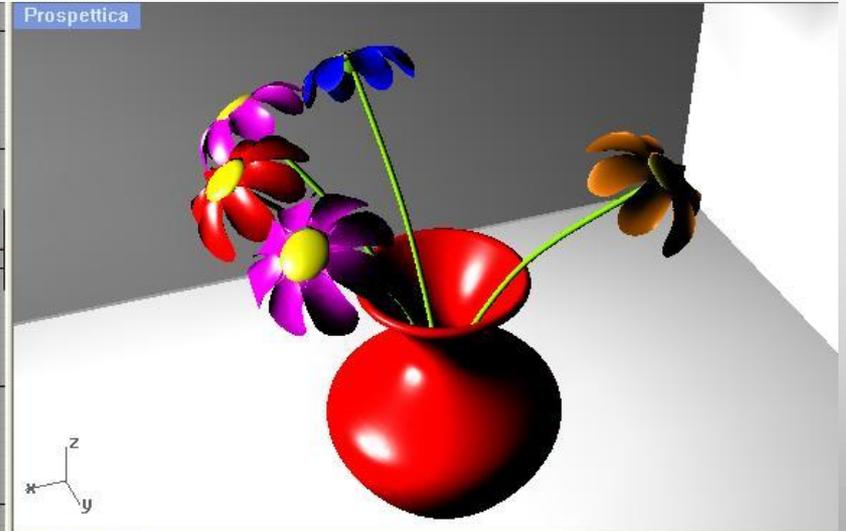
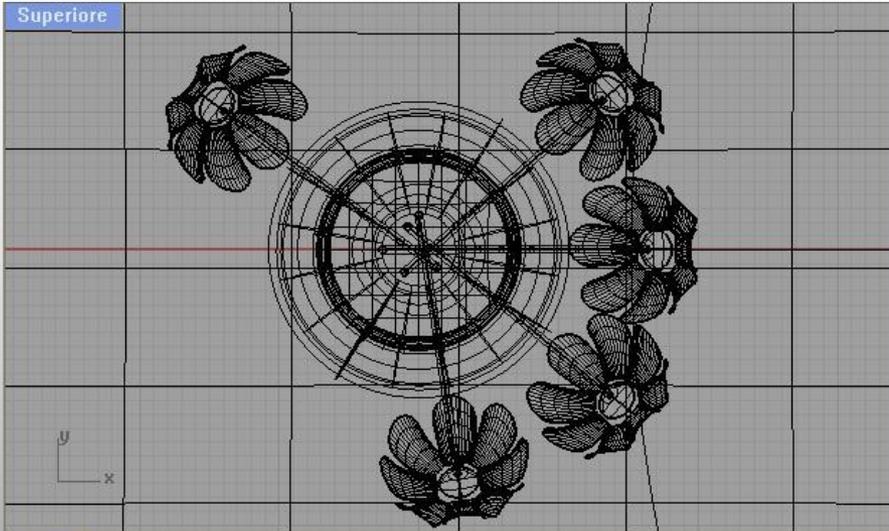


# Coppola Silvio





# Coppola Silvio



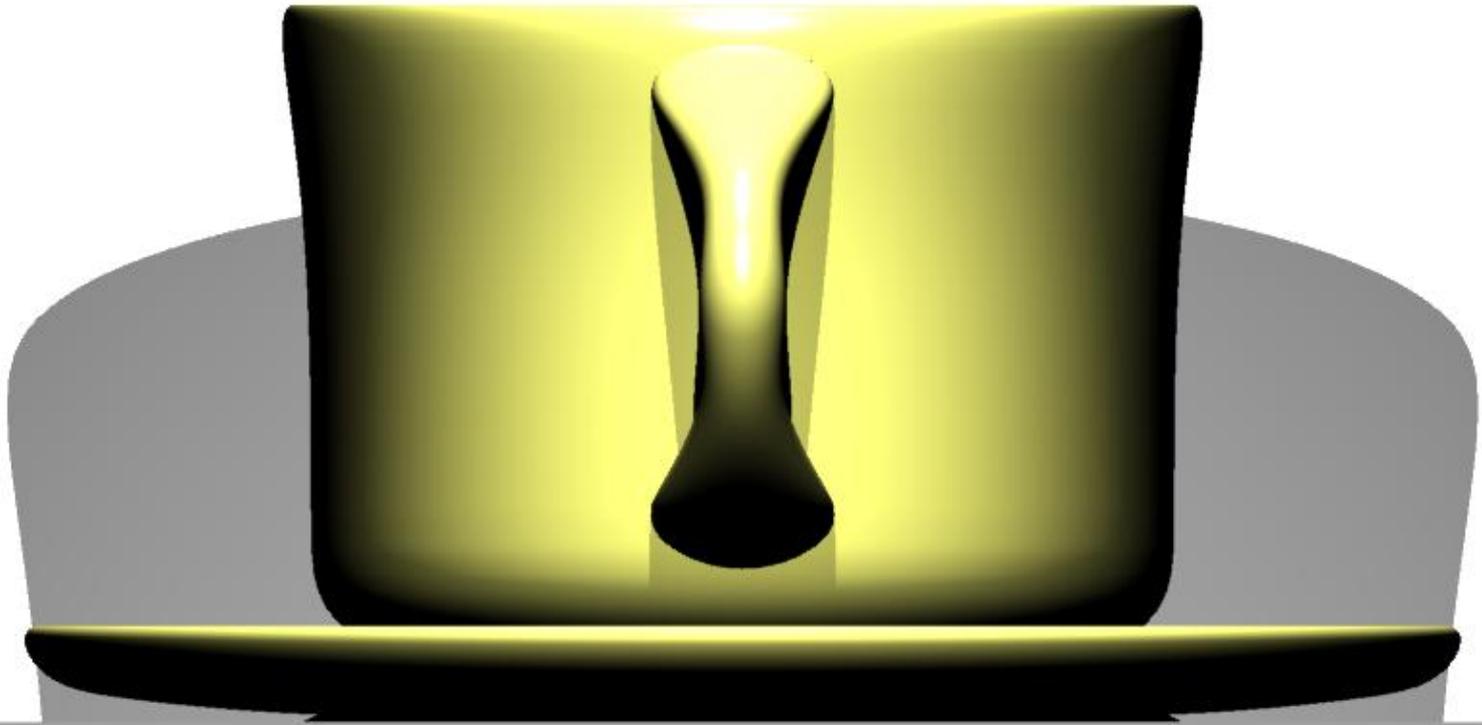


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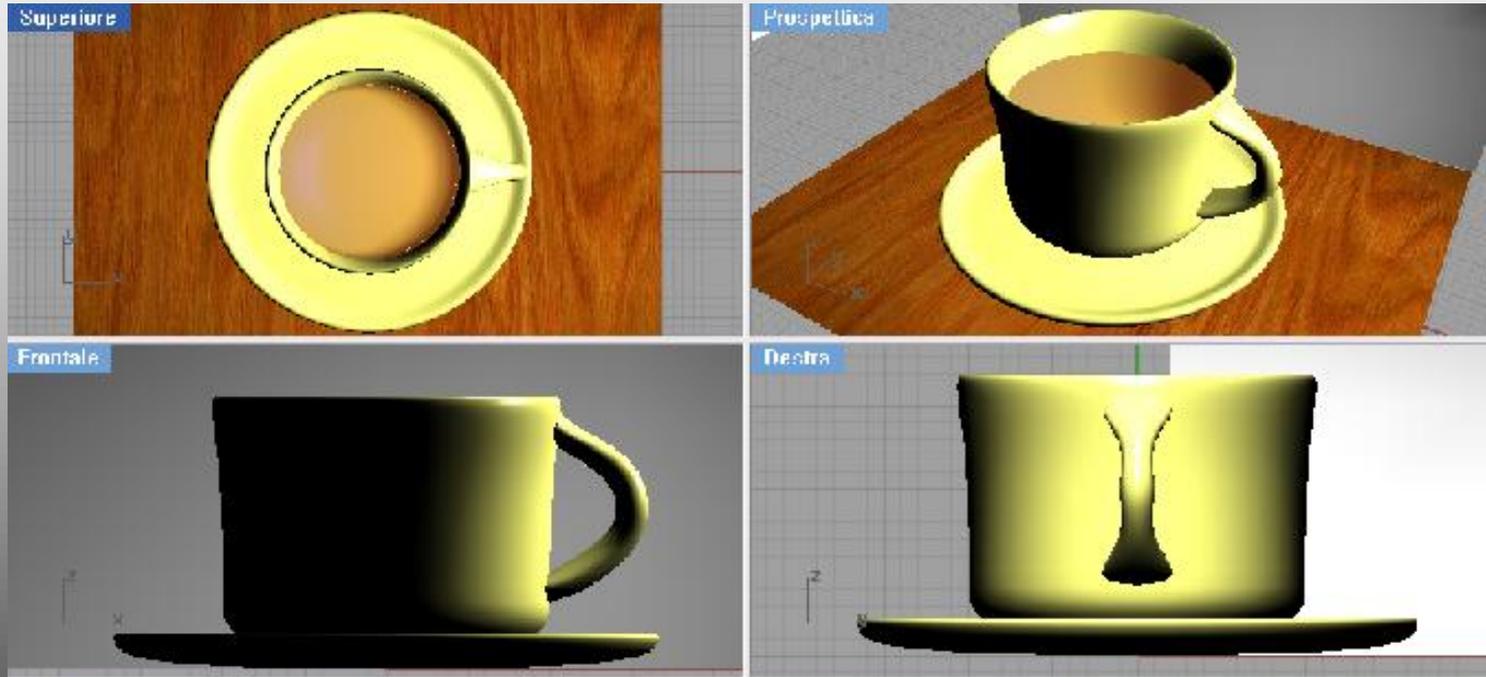


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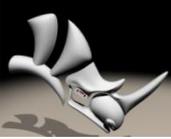
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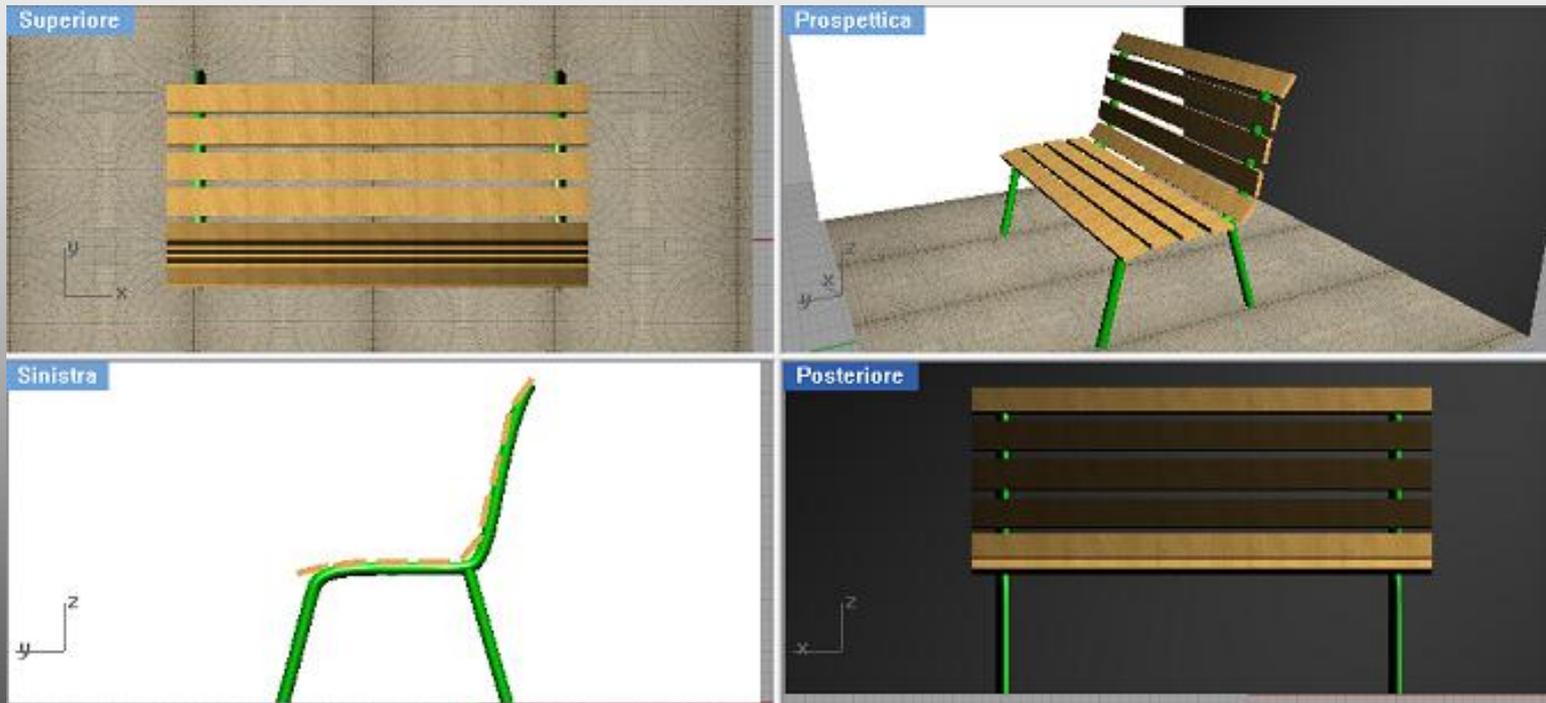


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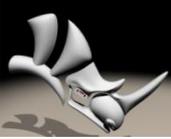
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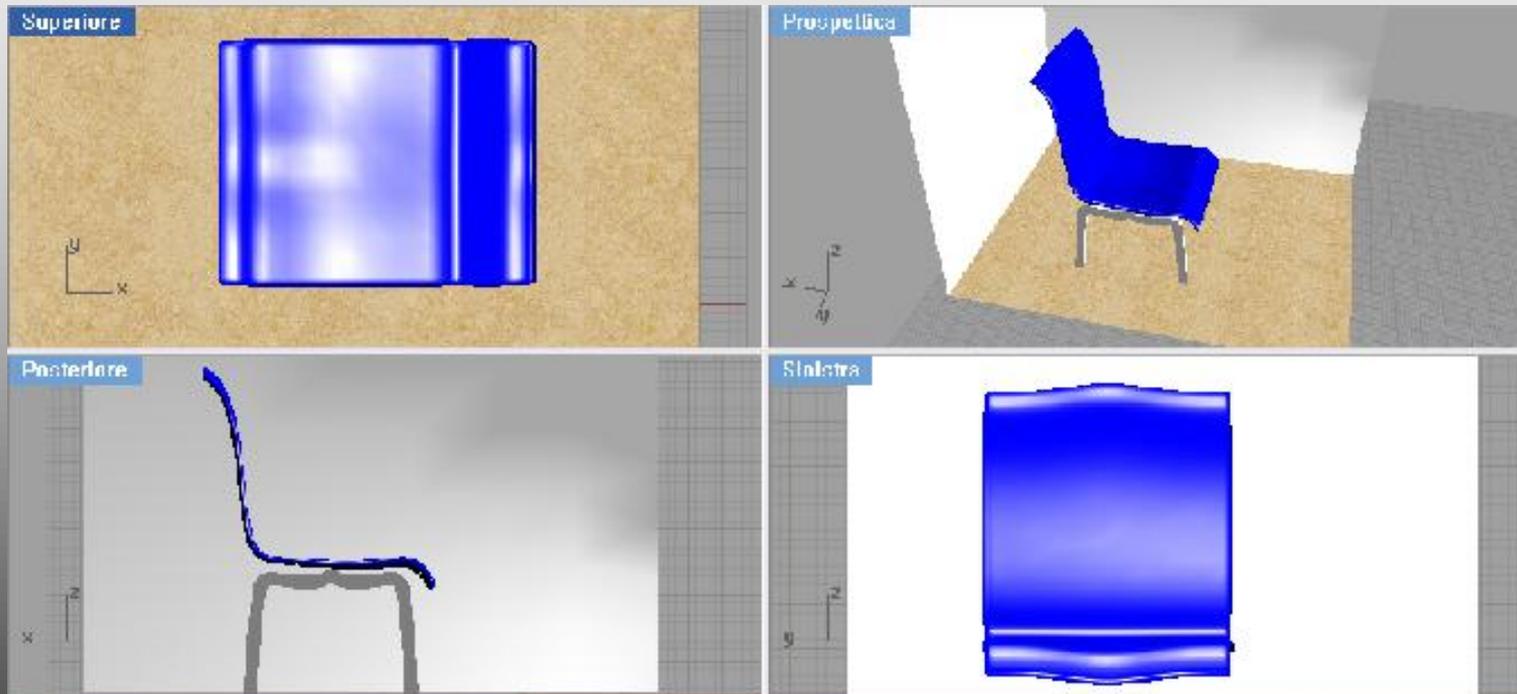


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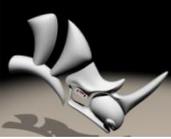
# Coppola Silvio





# Coppola Silvio





# Coppola Silvio



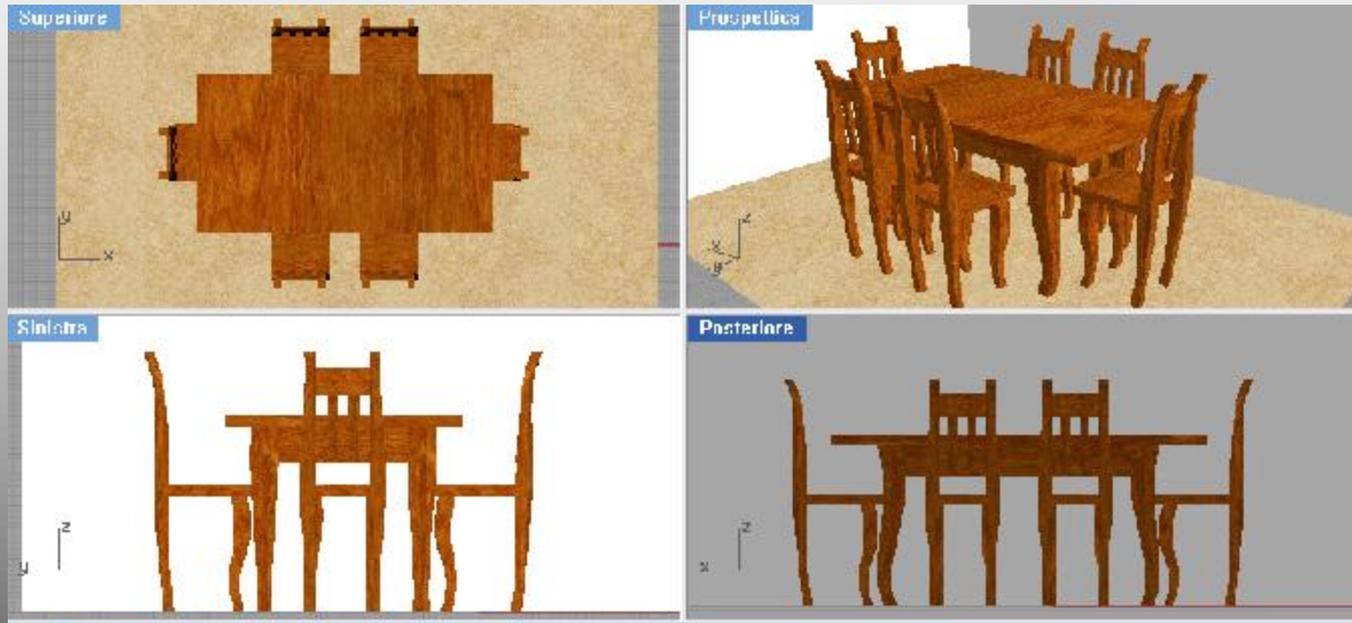


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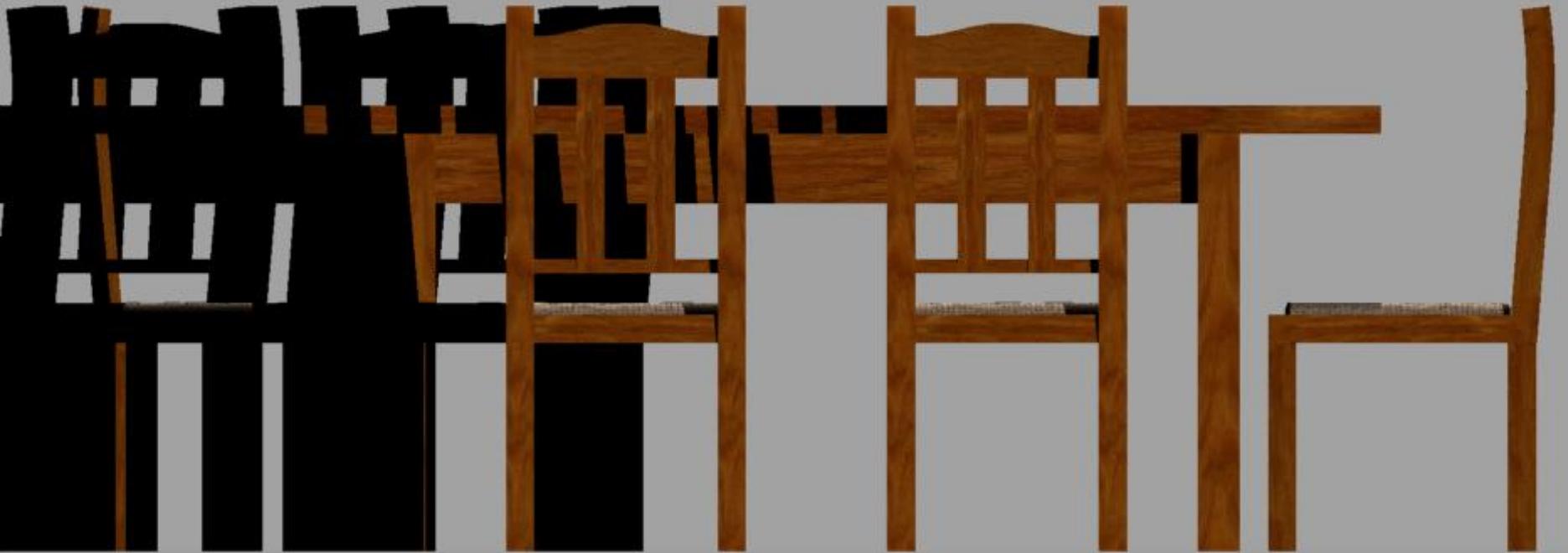


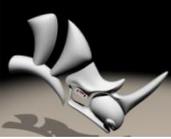
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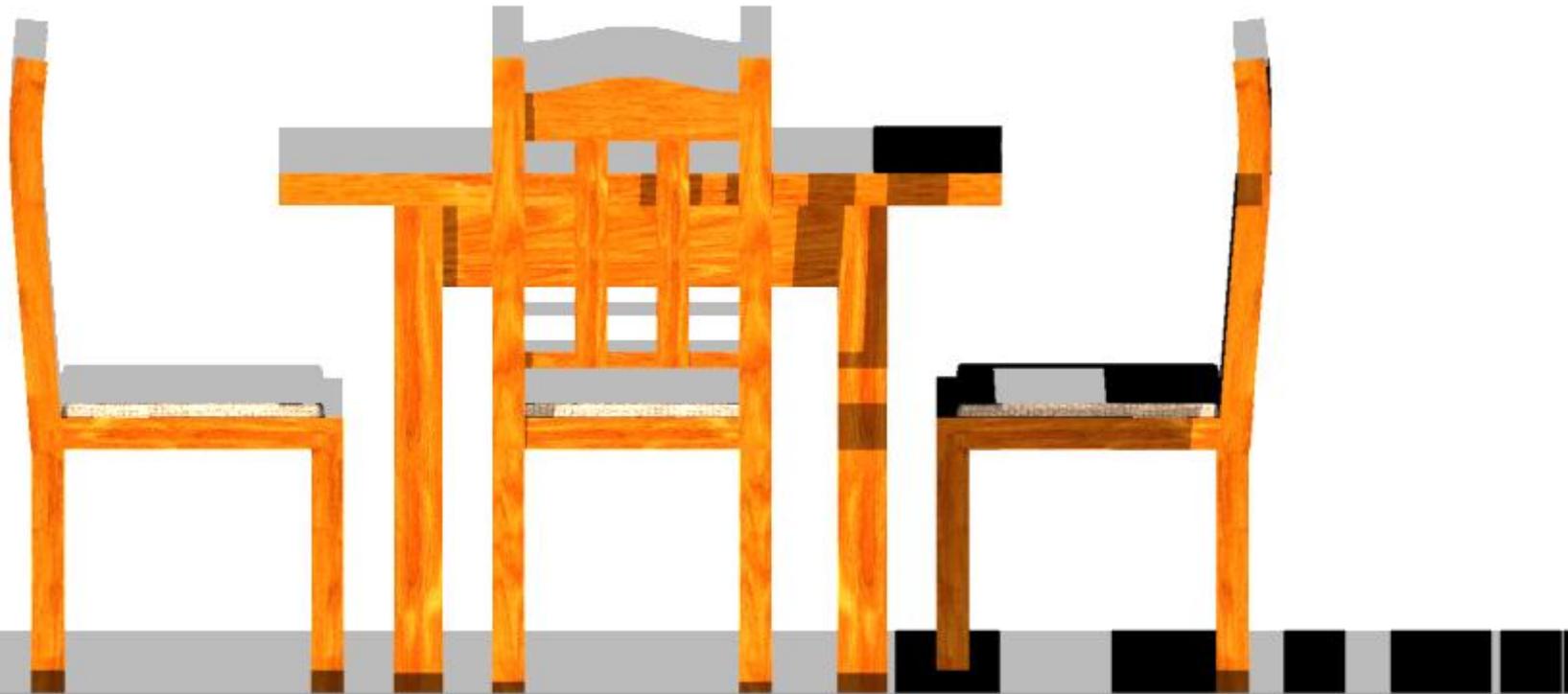


# Coppola Silvio





# Coppola Silvio





# Coppola Silvio





## SVILUPPO DELLE COMPETENZE CAD ACQUISITE

**Allievi della classe 4°B/Ar**

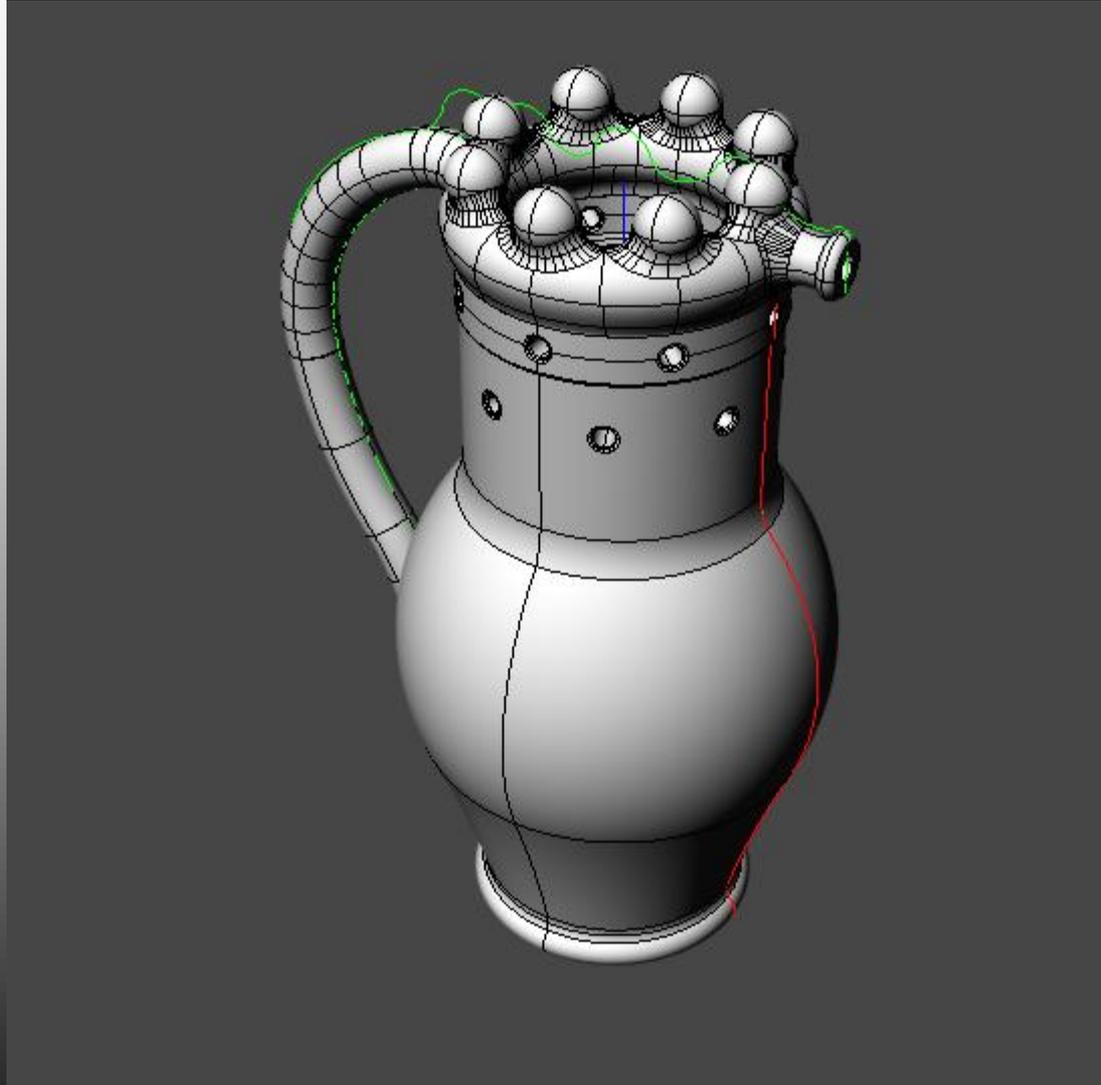
DAVIDE PERRONE

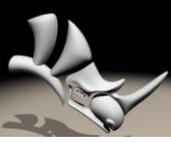
MATTEO PAGLIALONGA

SIMONE SCARDINO



# Perrone Davide





# Perrone Davide

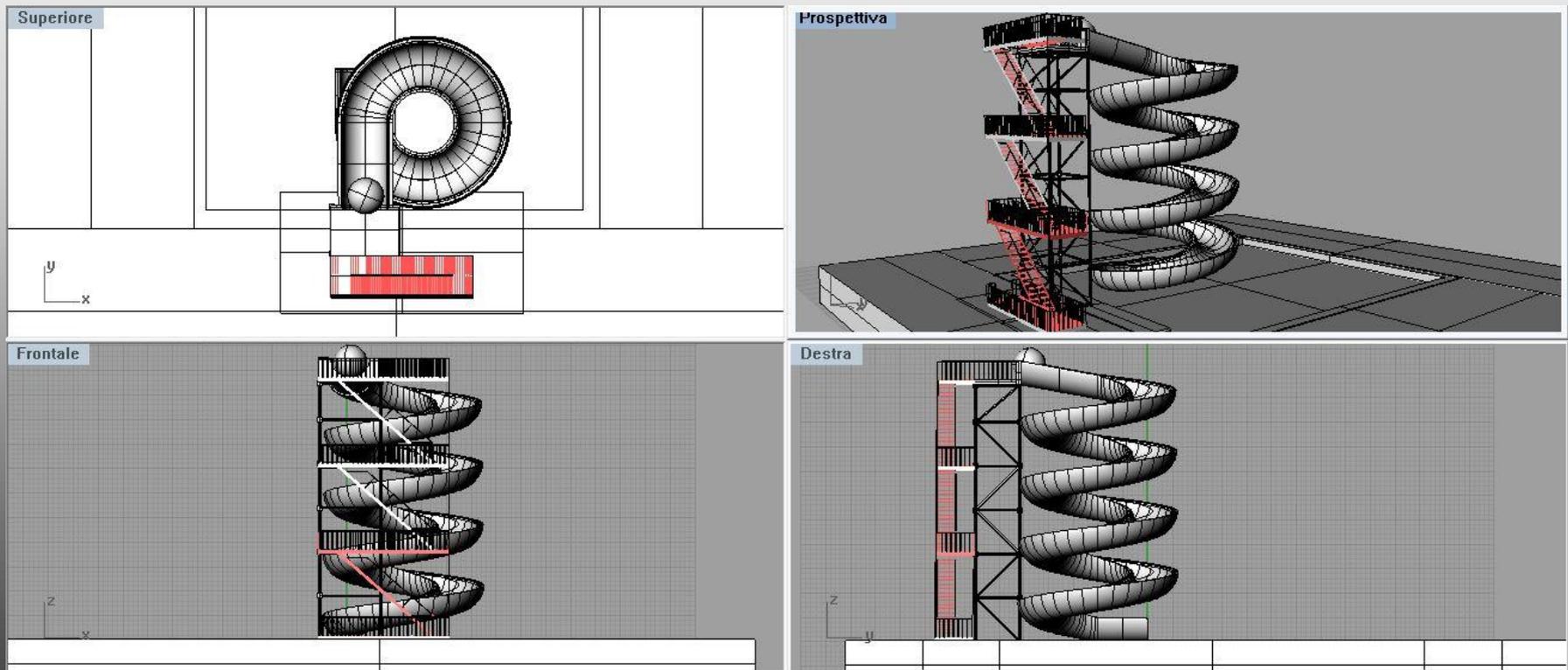
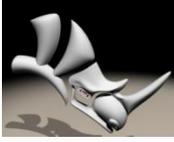




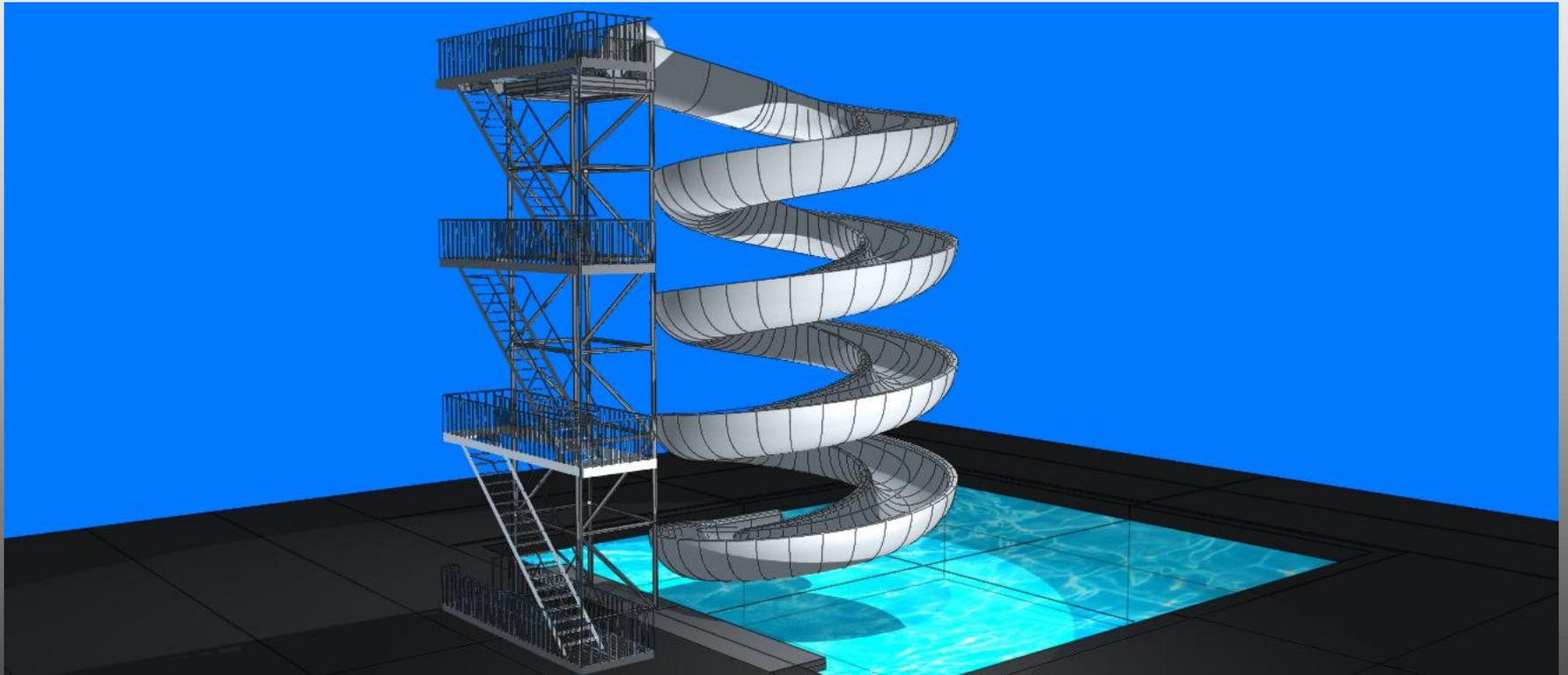
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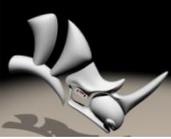


# Paglialonga Matteo – Perrone Davide – Scardino Simone



# Paglialonga Matteo – Perrone Davide – Scardino Simone





Classe: 4<sup>a</sup> B

ANIMAZIONE TRIDIMENSIONALE 12

Anno: 2009 - 2010

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Dipartimento di Architettura e Arredo  
LICEO ARTISTICO STATALE "Vincenzo Ciardo" - Lecce



Arrivederci all'anno prossimo  
e...bravi ragazzi!!!