



LICEO ARTISTICO STATALE
VINCENZO CIARDO • LECCE

Liceo Artistico Statale “V. Ciardo” - Lecce

Corso P.O.N.

Geometrie nel piano e nello
spazio”



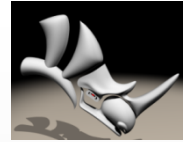
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Ministero dell'Istruzione, dell'Università e della Ricerca
Dipartimento per la Programmazione
D.G. per gli Affari Internazionali - Ufficio IV
Programmazione e gestione dei fondi strutturali europei
e nazionali per lo sviluppo e la coesione sociale

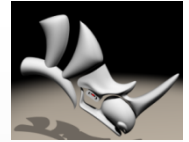


Unione Europea
P.O.N. - "Competenze per lo Sviluppo" (FSE)
P.O.N. - Ambiente per l'apprendimento (FESR)
D.G. Occupazione, Affari Sociali e pari Opportunità
D.G. Politiche Regionali



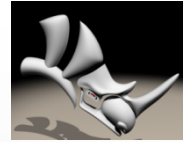
Gli alunni del corso:

- 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



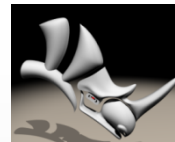
Staff docenti:

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



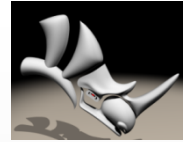
Programma del corso

- 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.



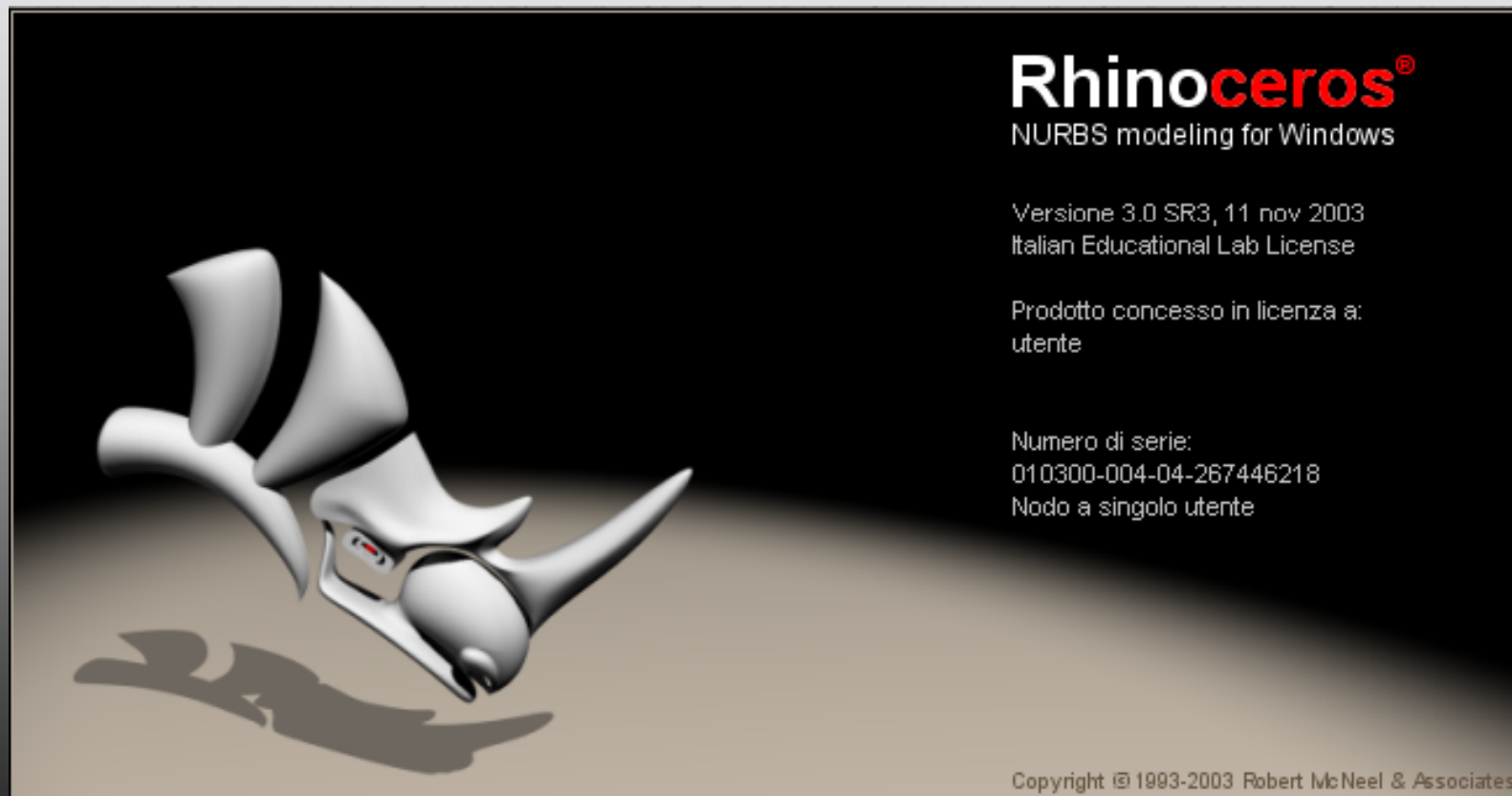
Competenze acquisite

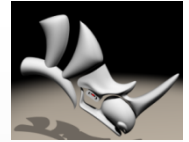
- Calcoli geometrici di base
- Rappresentazione di forme geometriche
- Risoluzione di problemi
- Utilizzazione del linguaggio matematico
- Utilizzazione di formule algebriche in calcoli geometrici
- Utilizzazione di strumenti multimediali
- Orientamento di genere



Applicativo utilizzato

- Rhinoceros 3.0

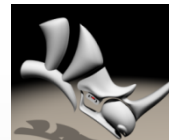




Caratteristiche di Rhinoceros

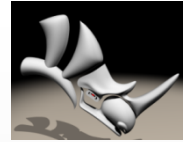
Rhino può creare, modificare, analizzare e tradurre curve, superfici e solidi NURBS* in Windows. Non ci sono limiti per quanto riguarda la complessità, il grado o le dimensioni, ed è garantito il supporto delle mesh poligonali. In particolare, il programma offre le seguenti caratteristiche: **Nessun 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.

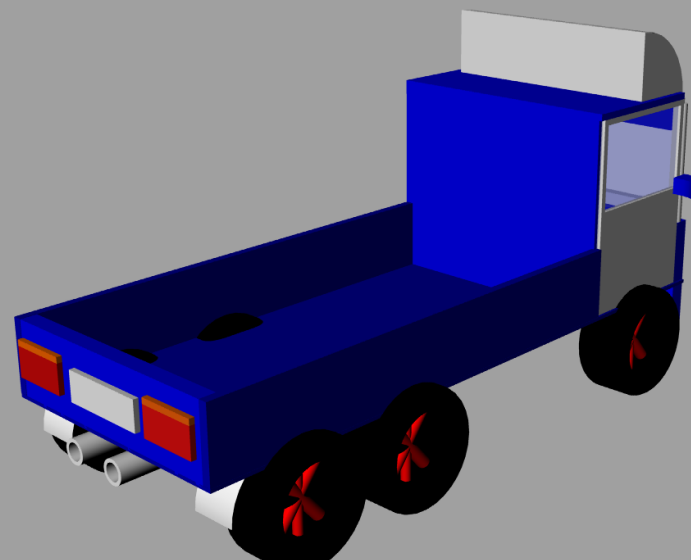
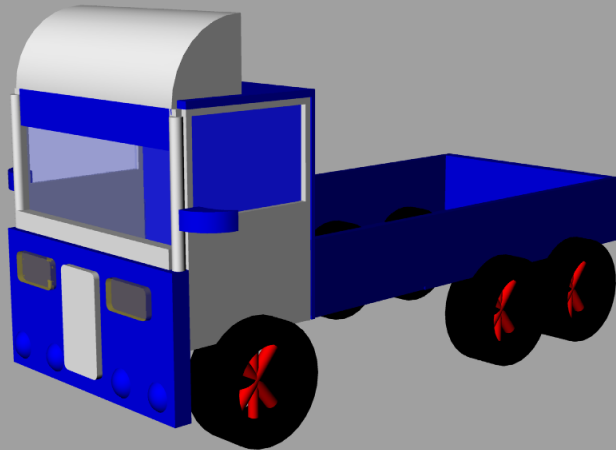


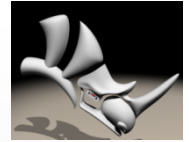
Lavori realizzati



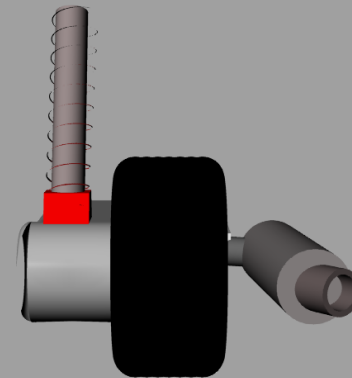
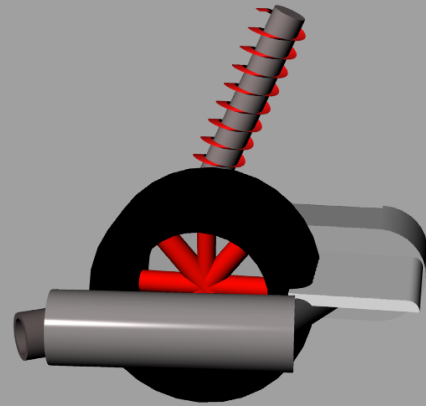


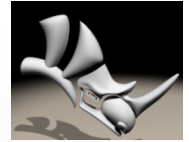
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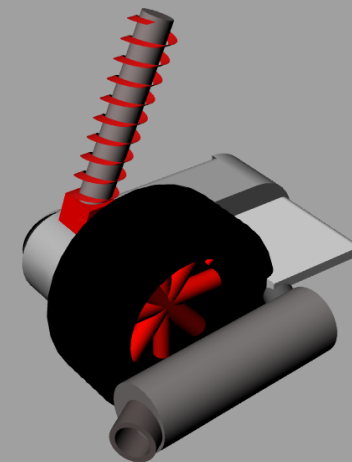
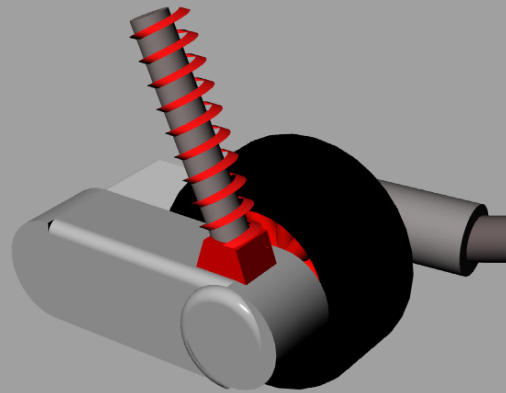


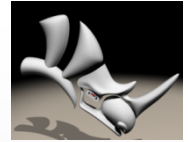
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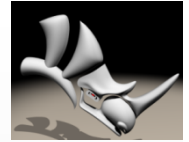
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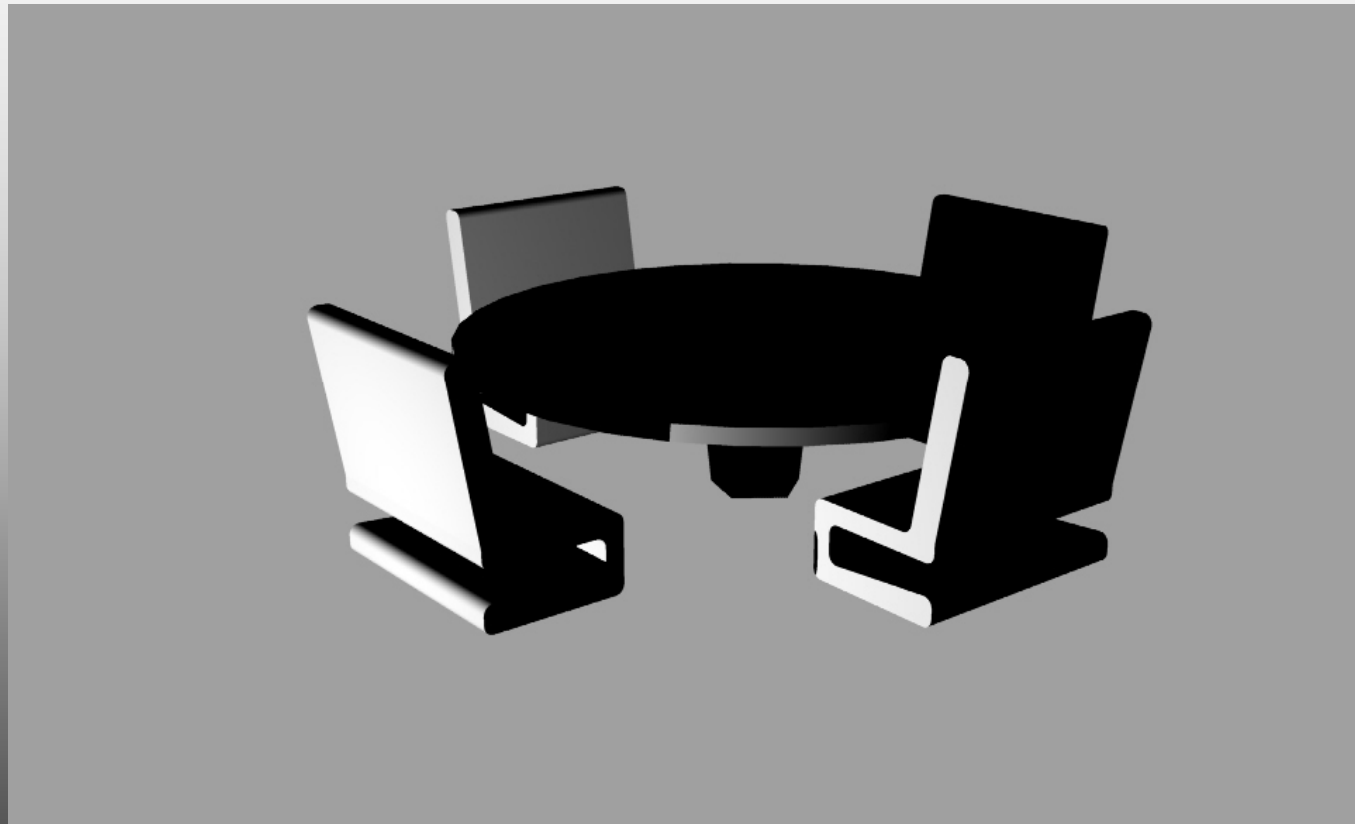


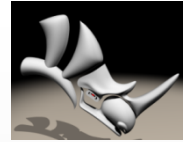
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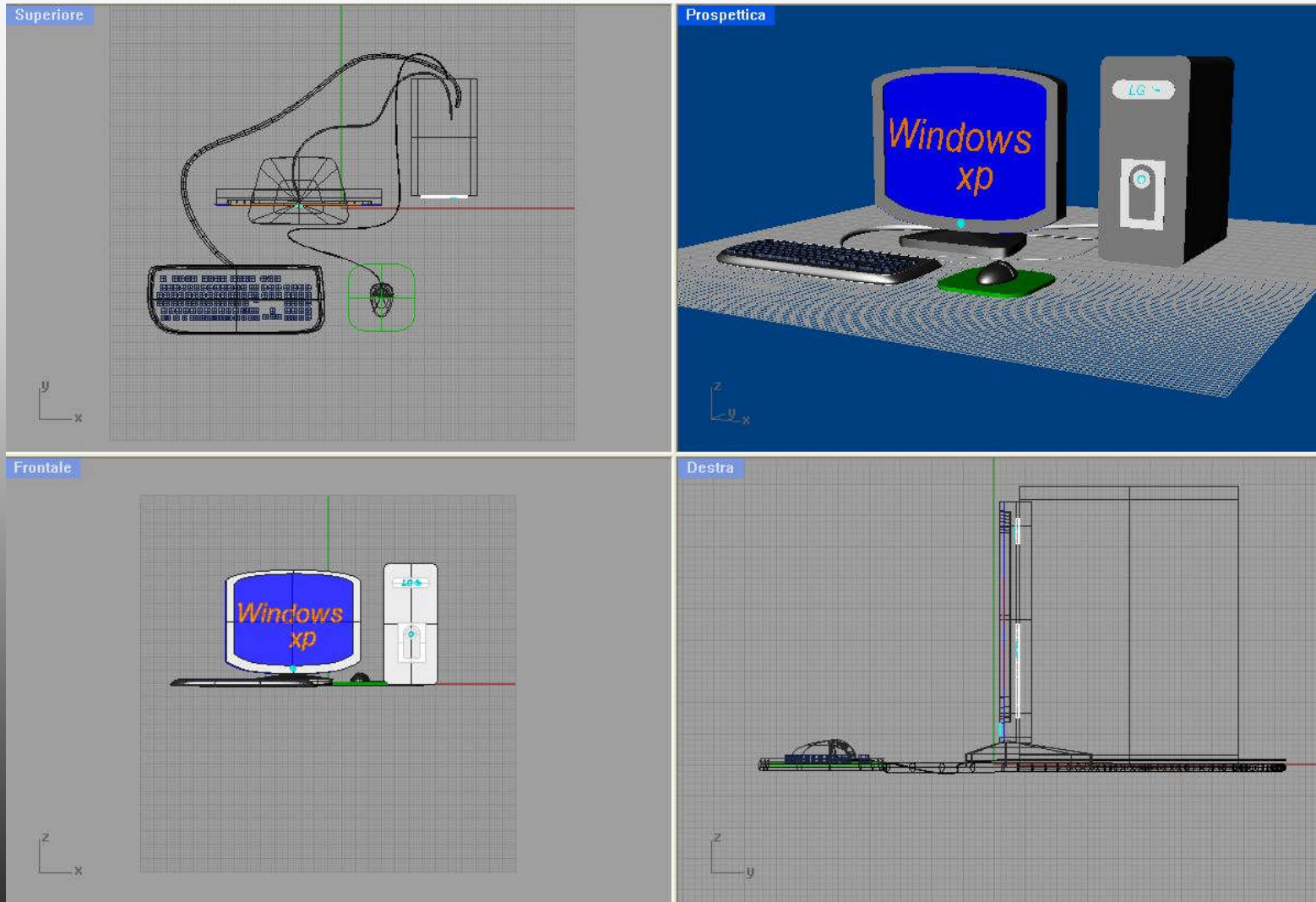


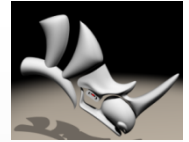
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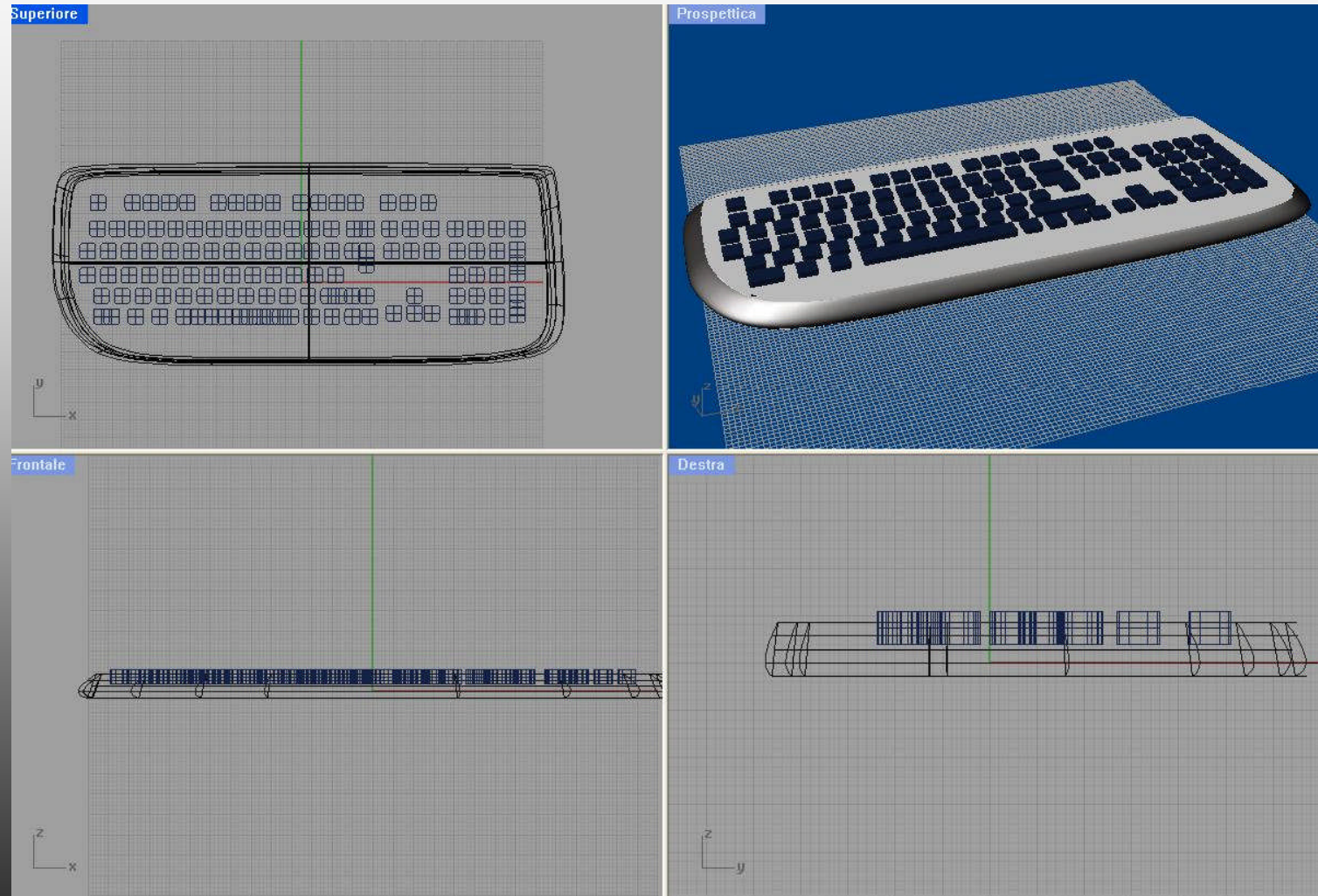


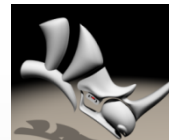
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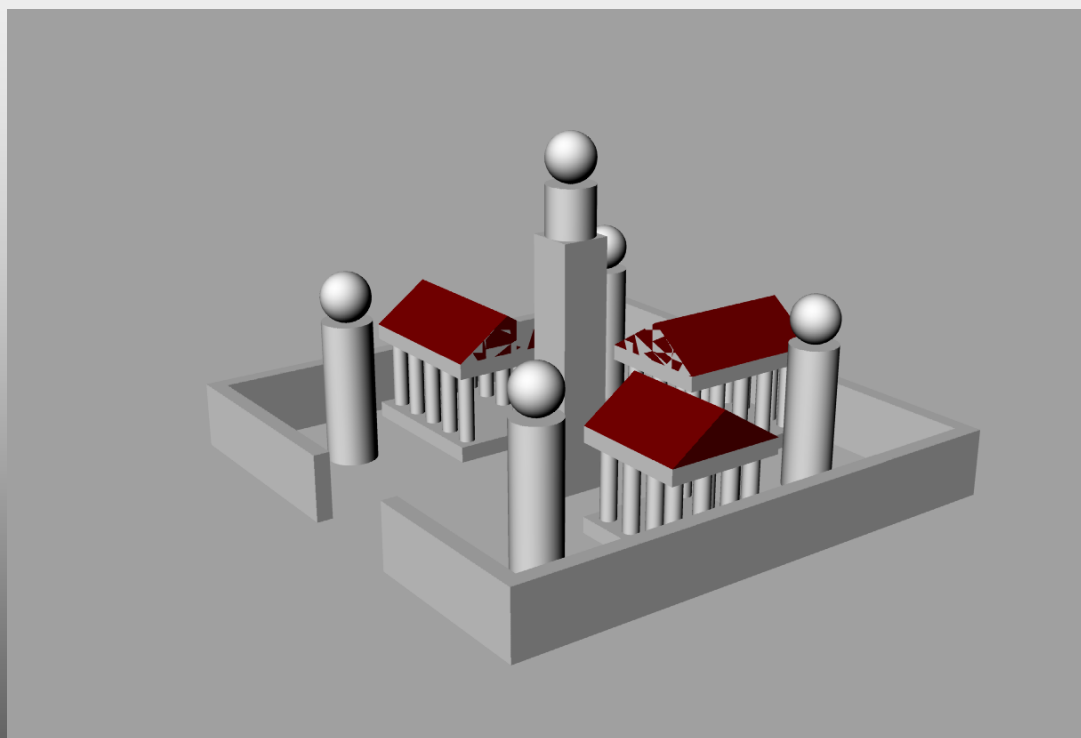


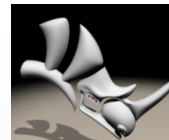
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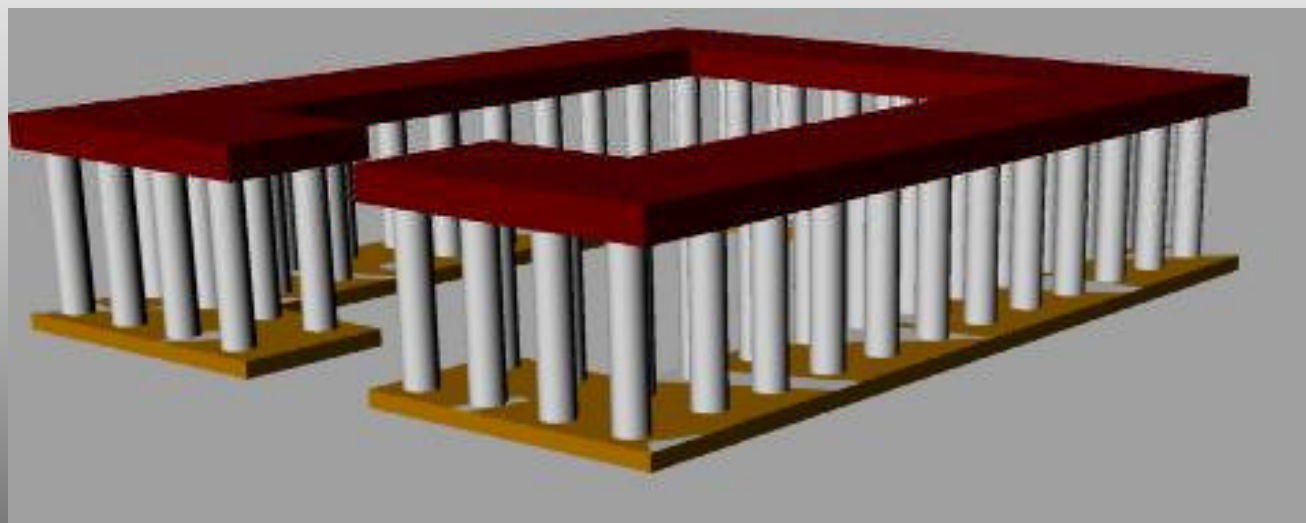


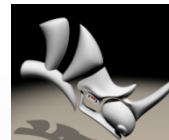
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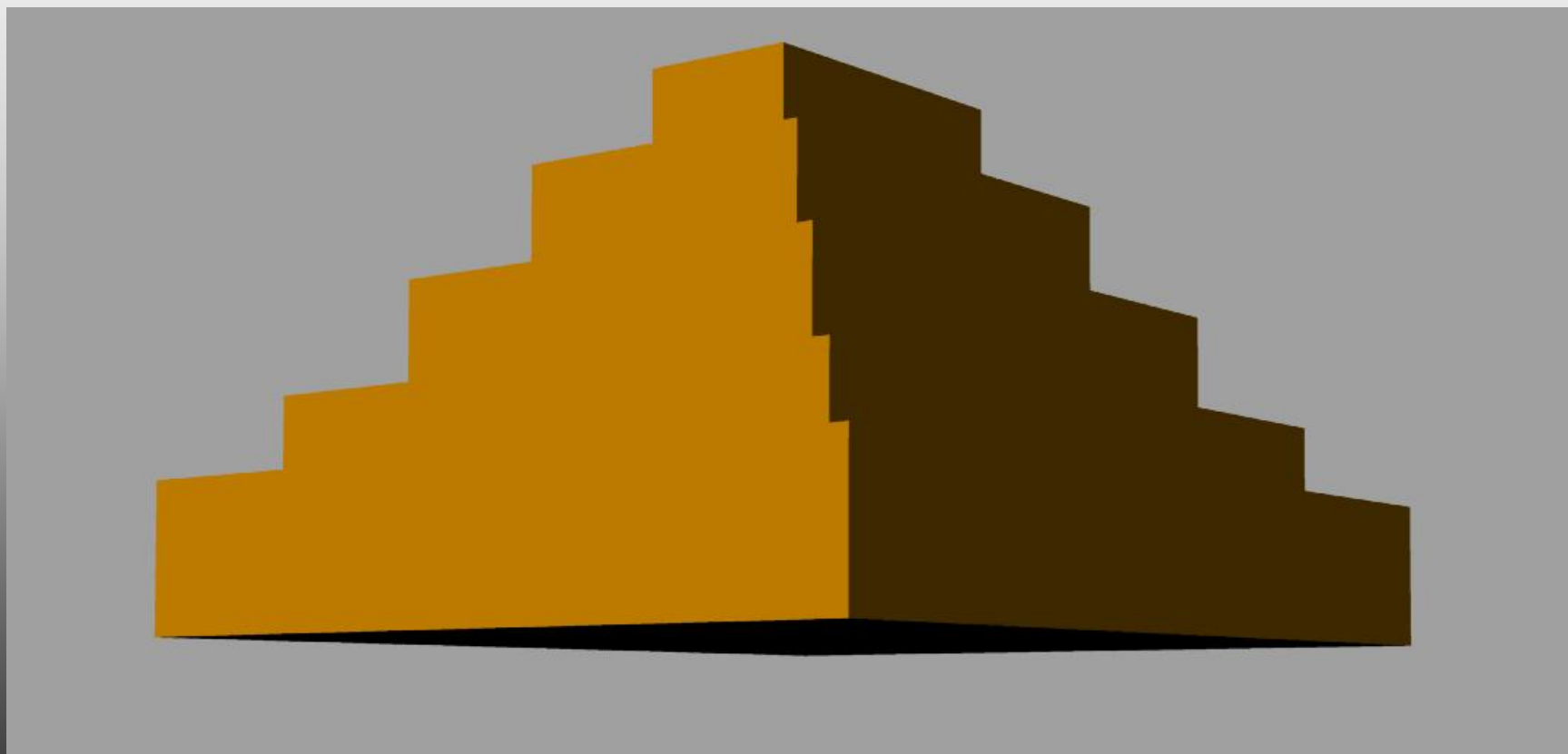


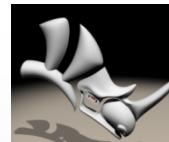
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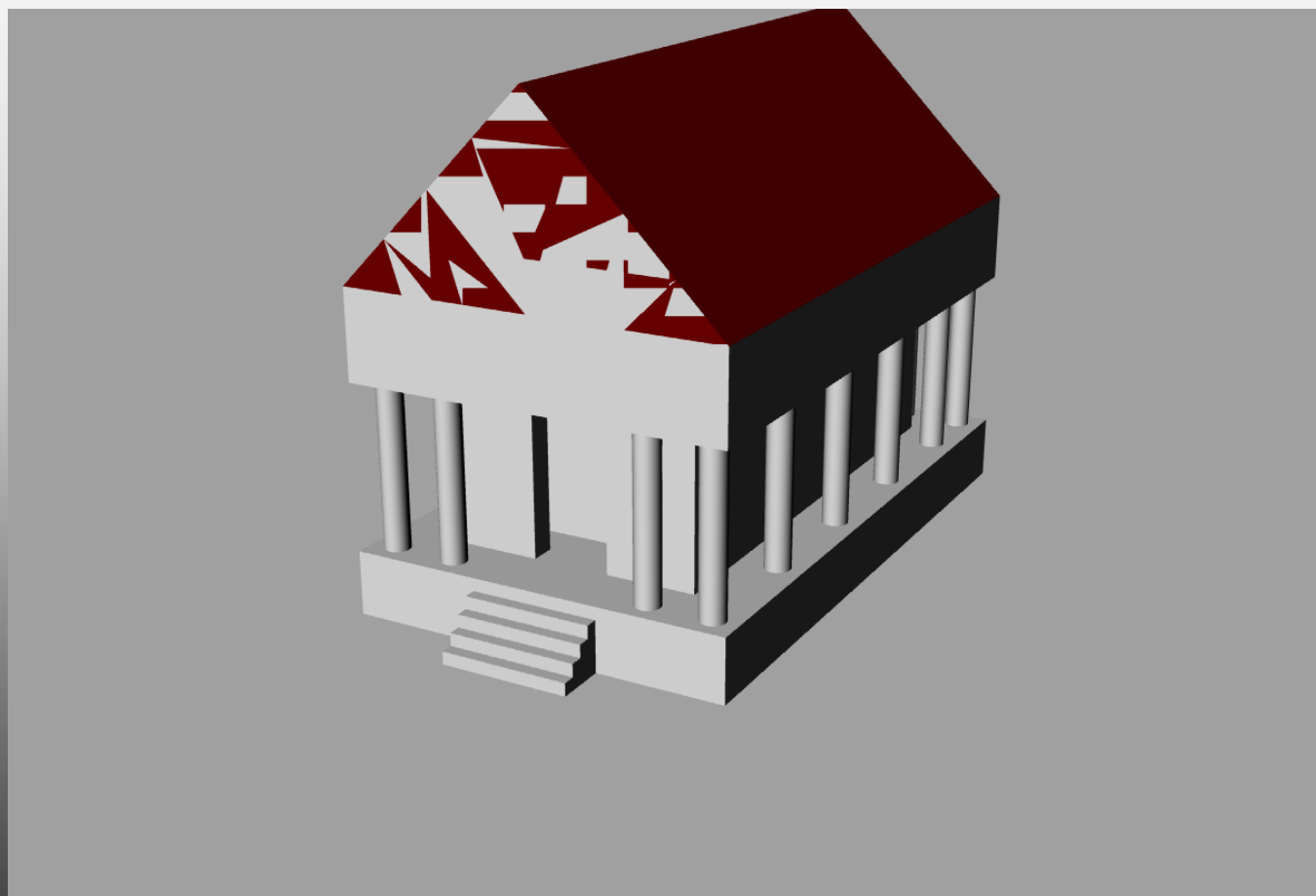


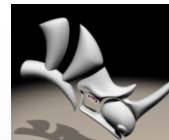
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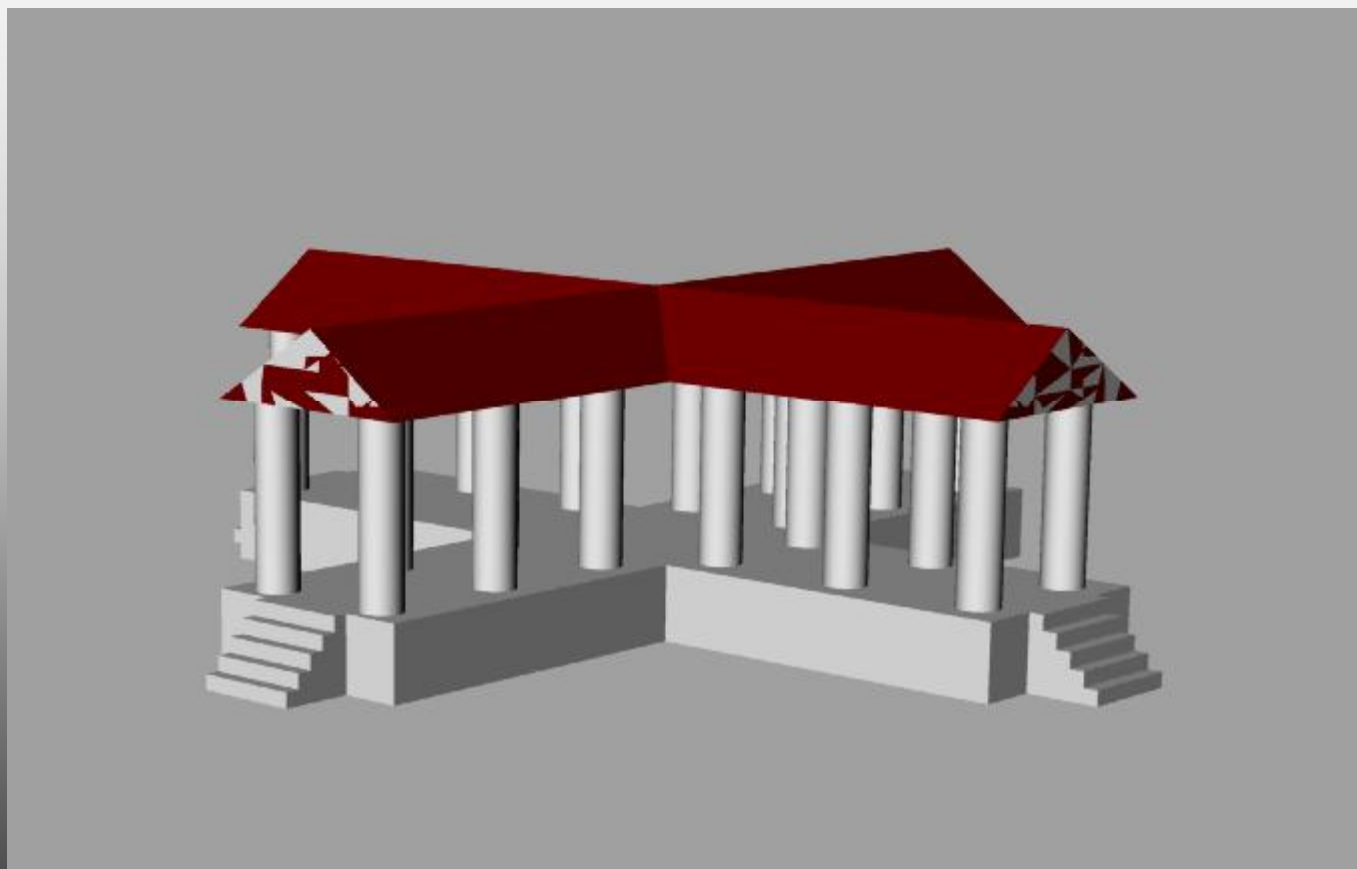


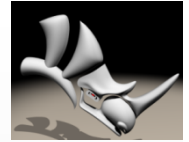
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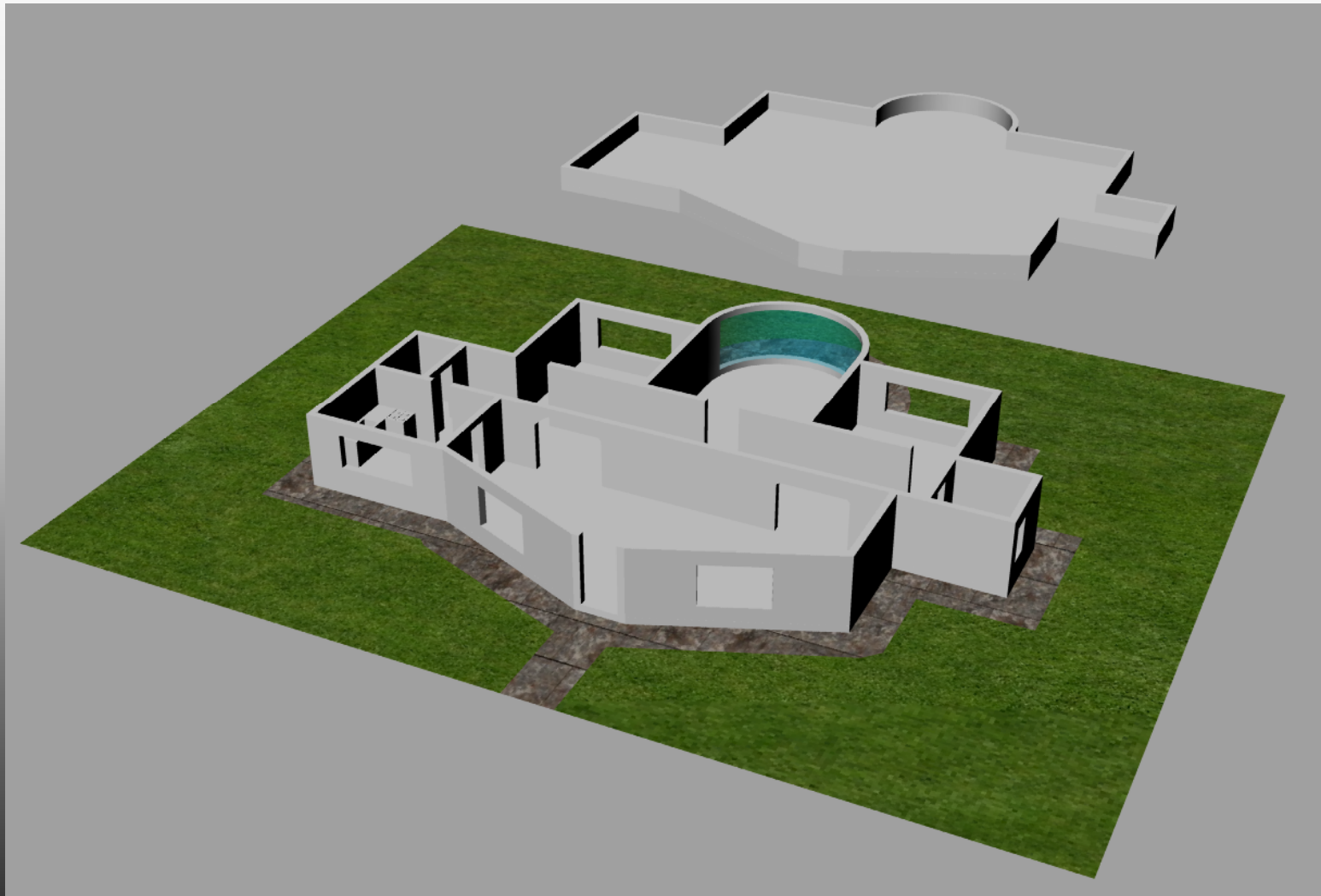


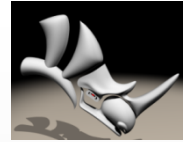
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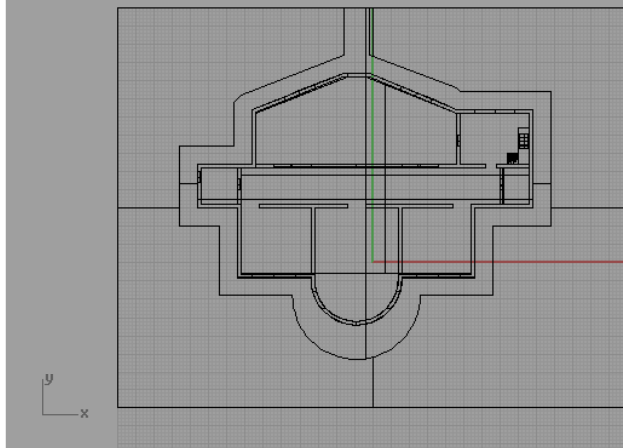
Corchia Chiara



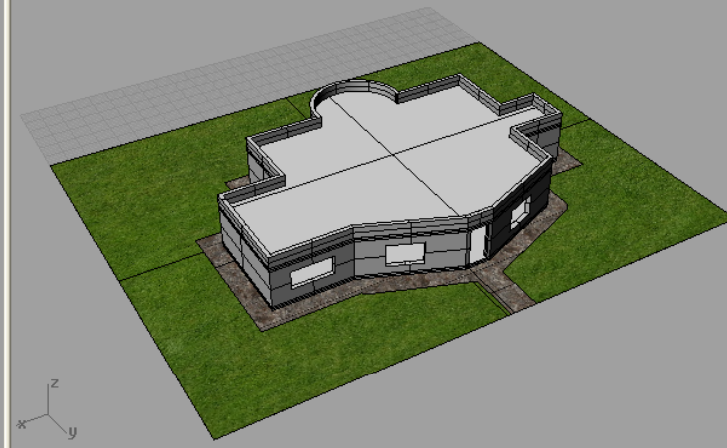


Corchia Chiara

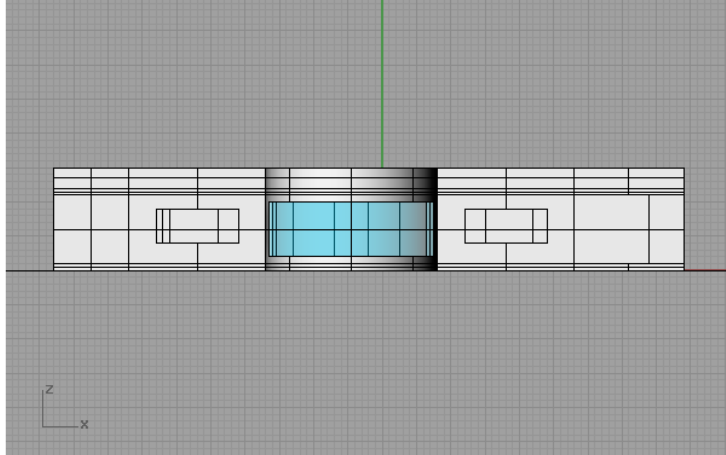
Superiore



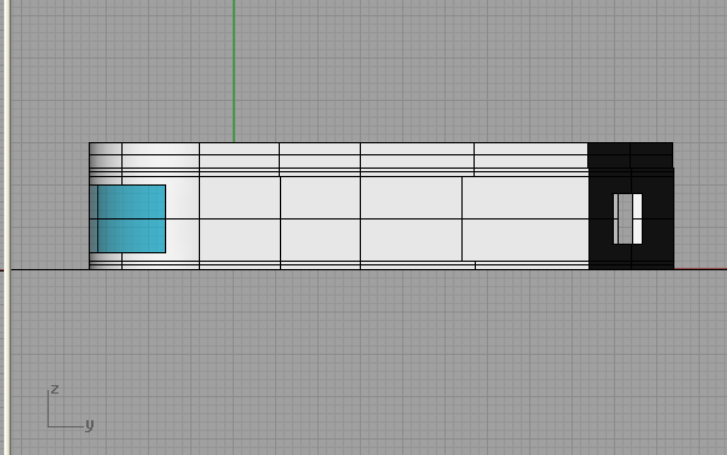
Prospettica

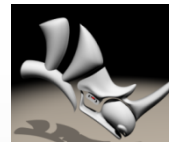


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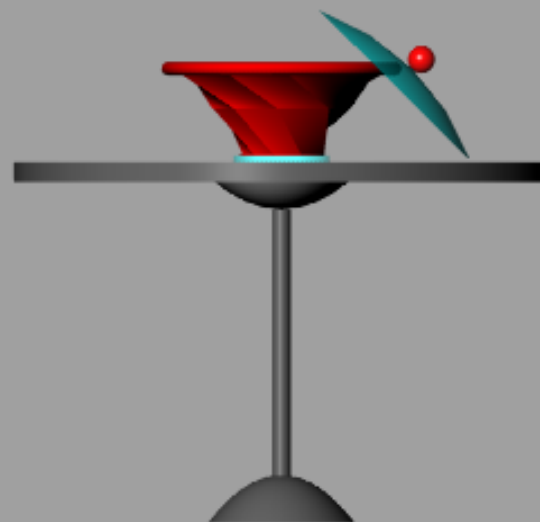
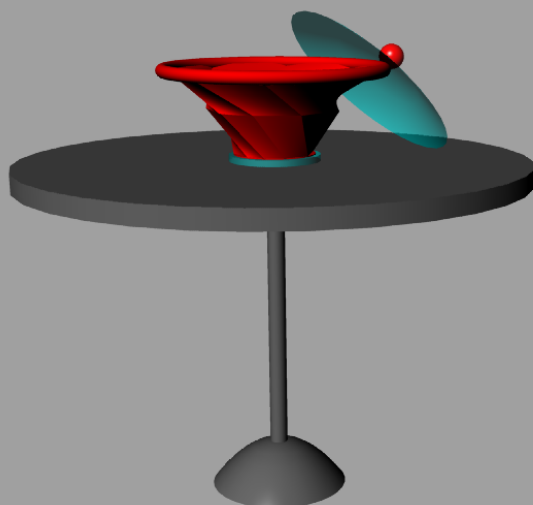


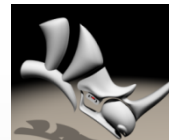
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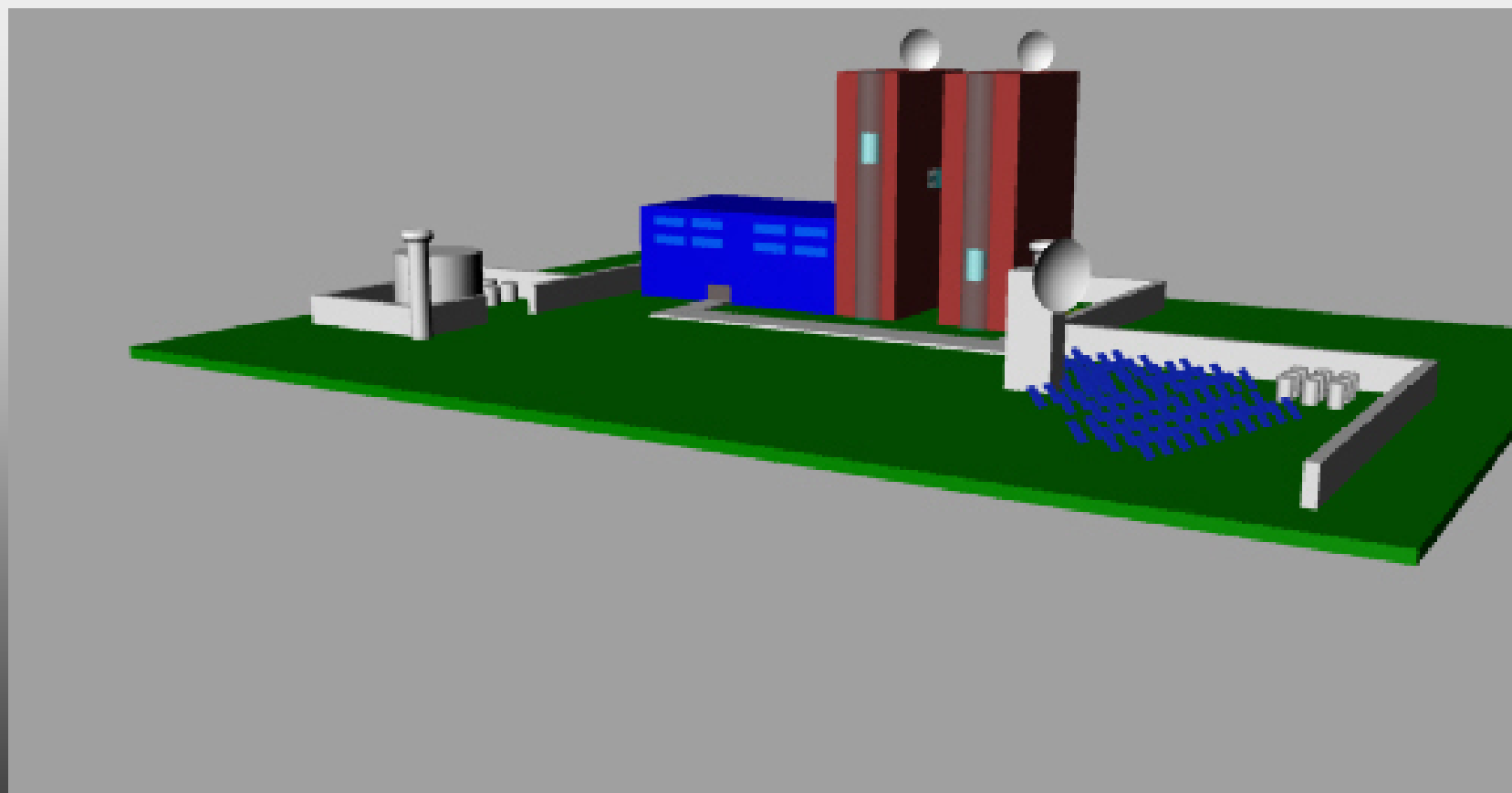


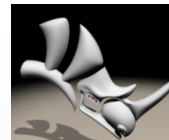
Filieri Pierfrancesco



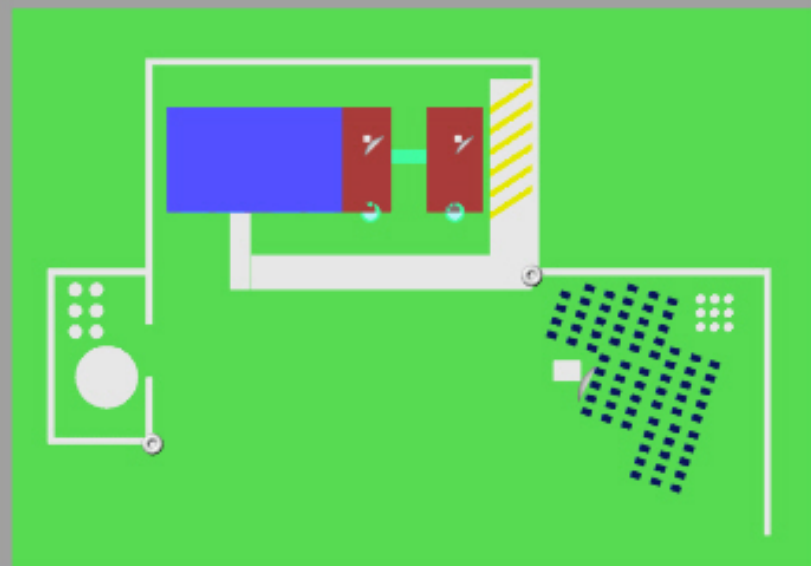
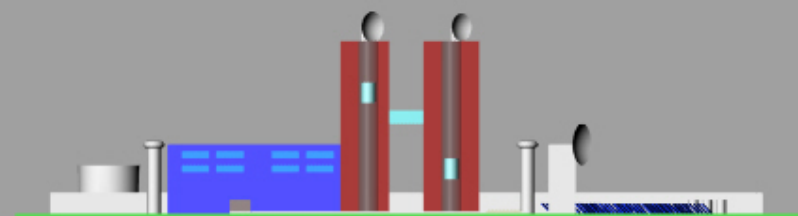
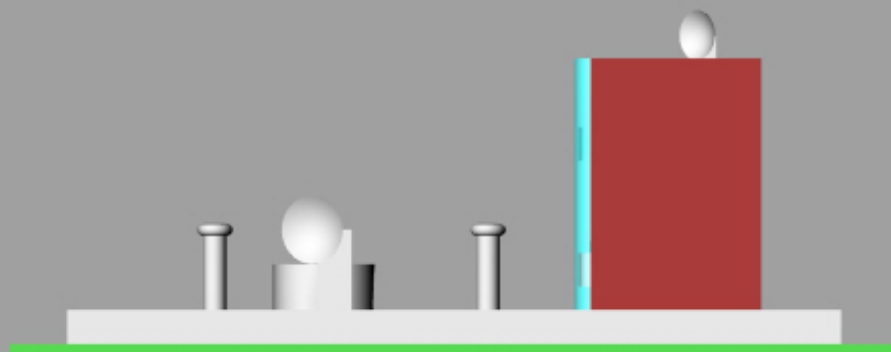


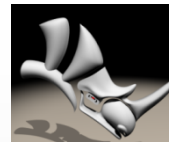
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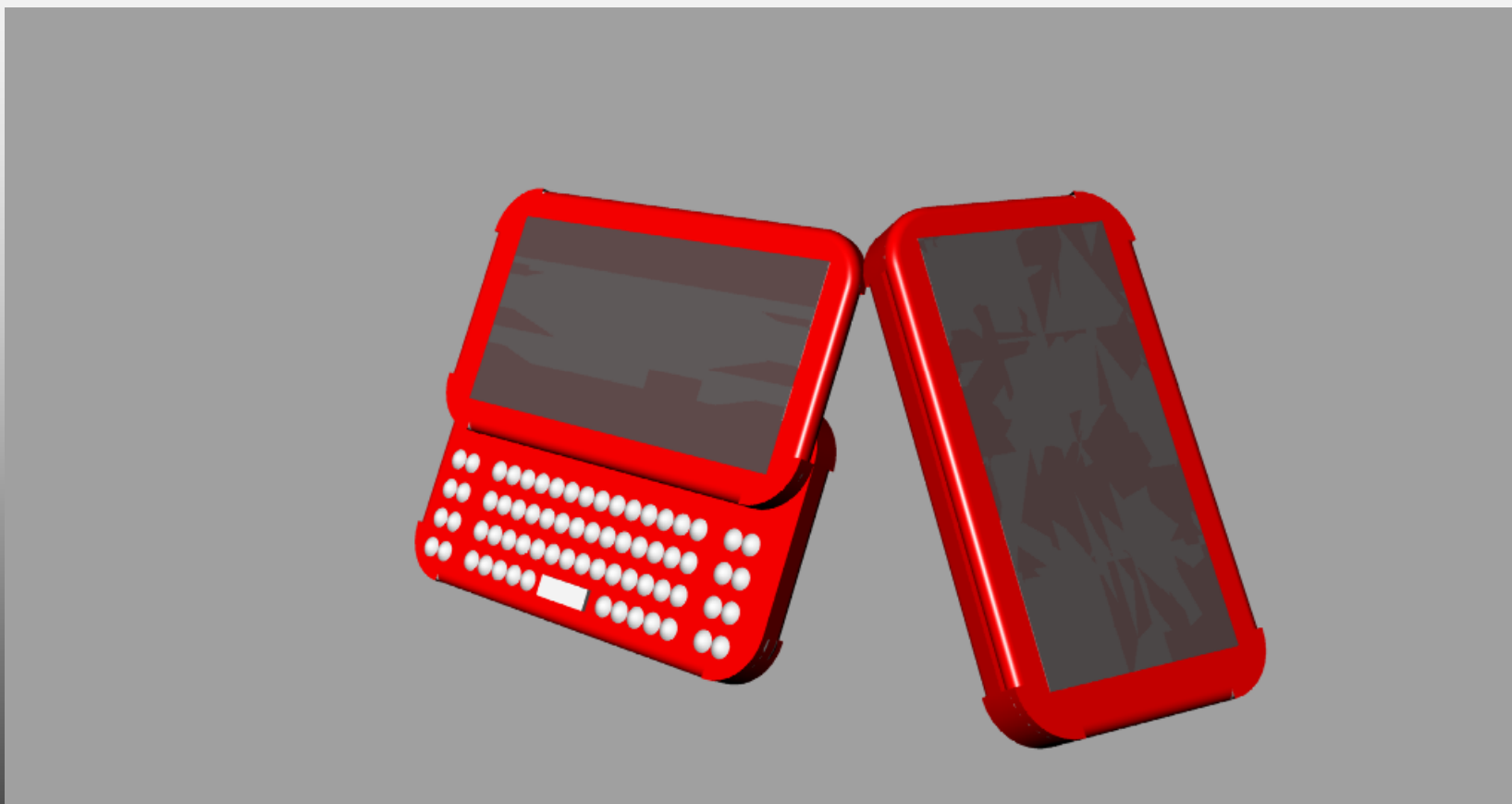


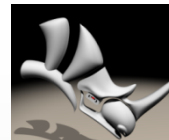
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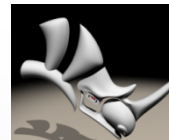
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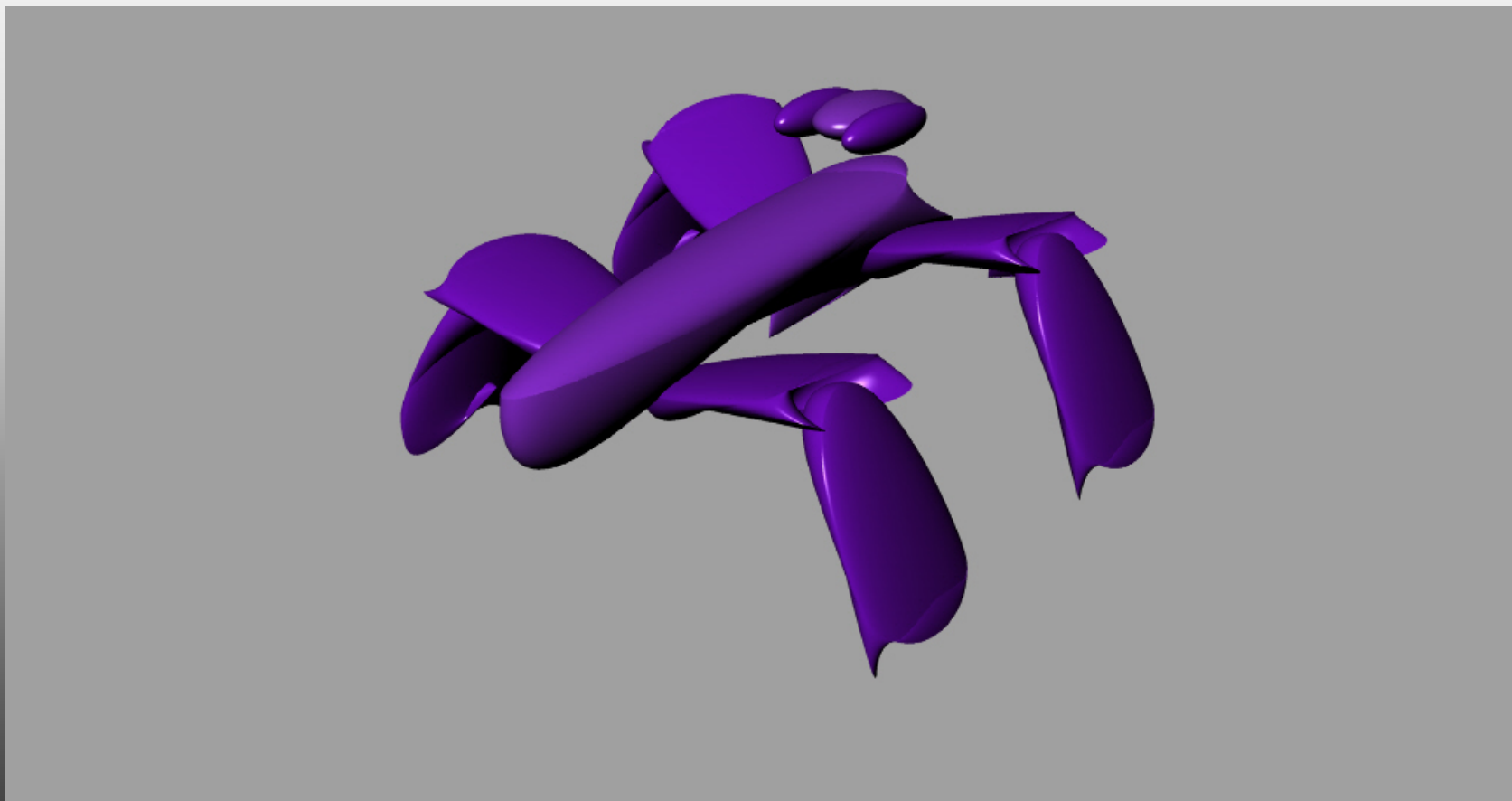


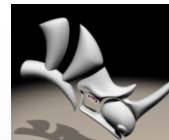
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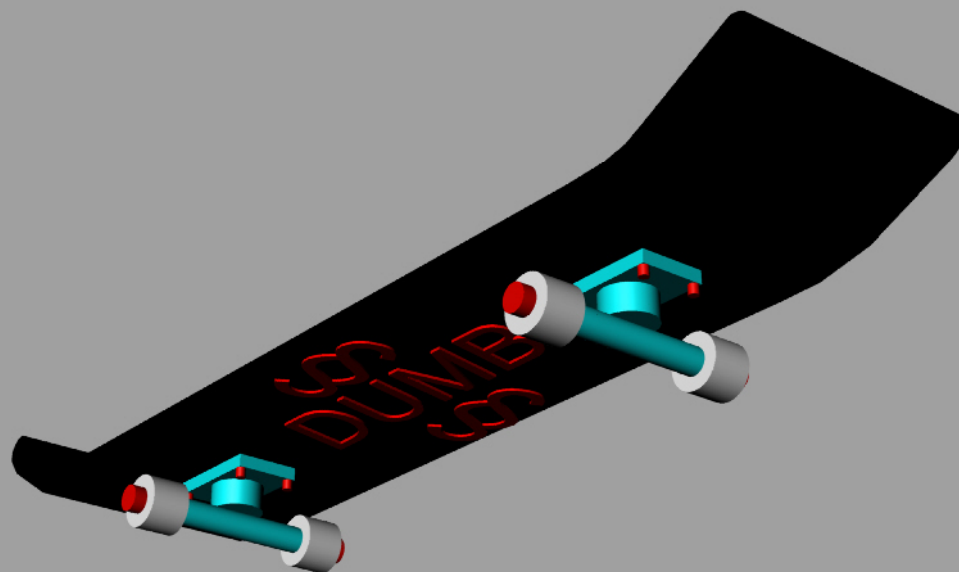


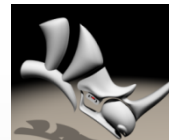
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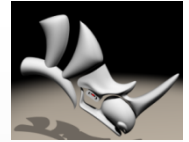
Manca Alessio



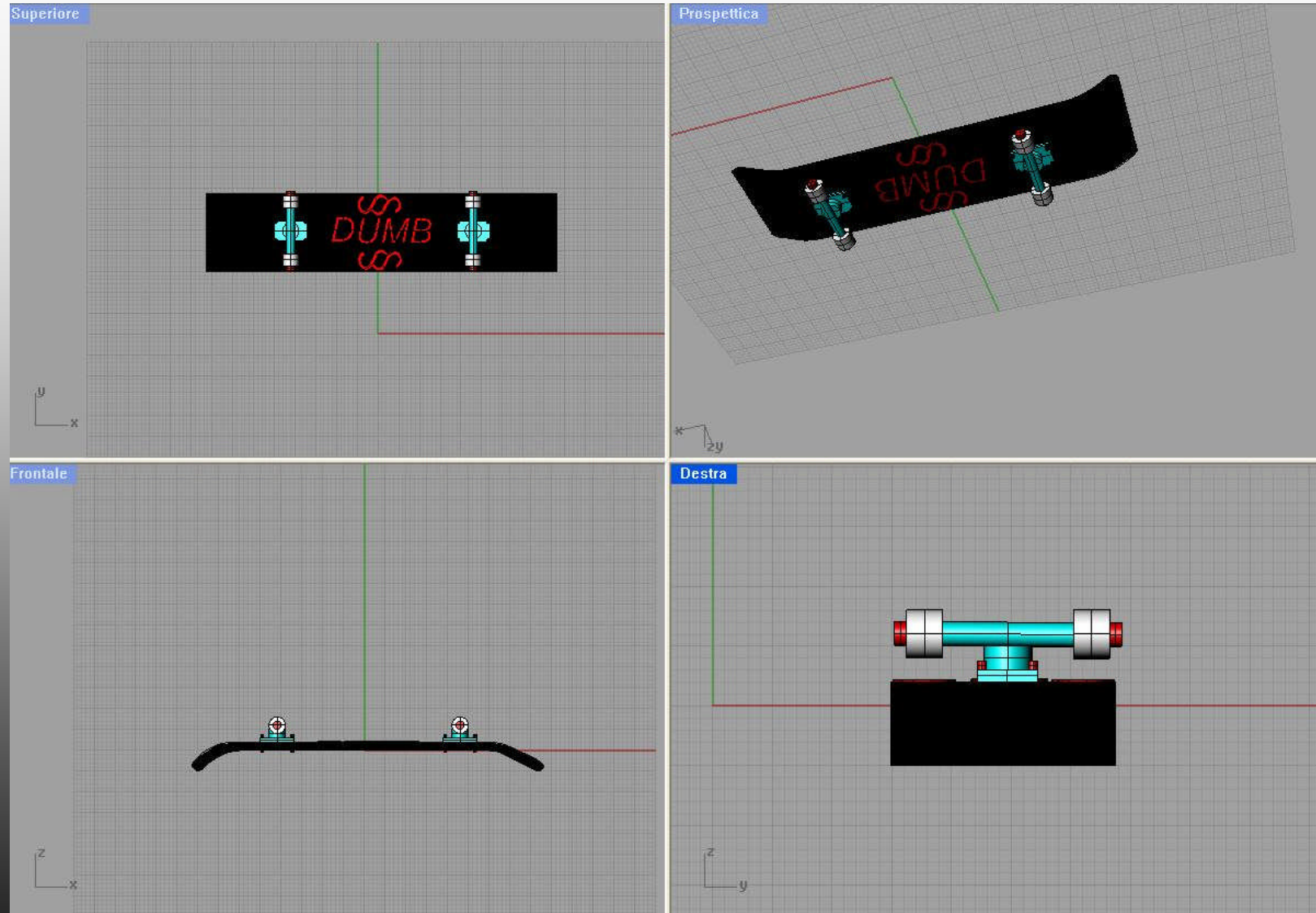


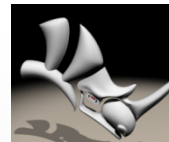
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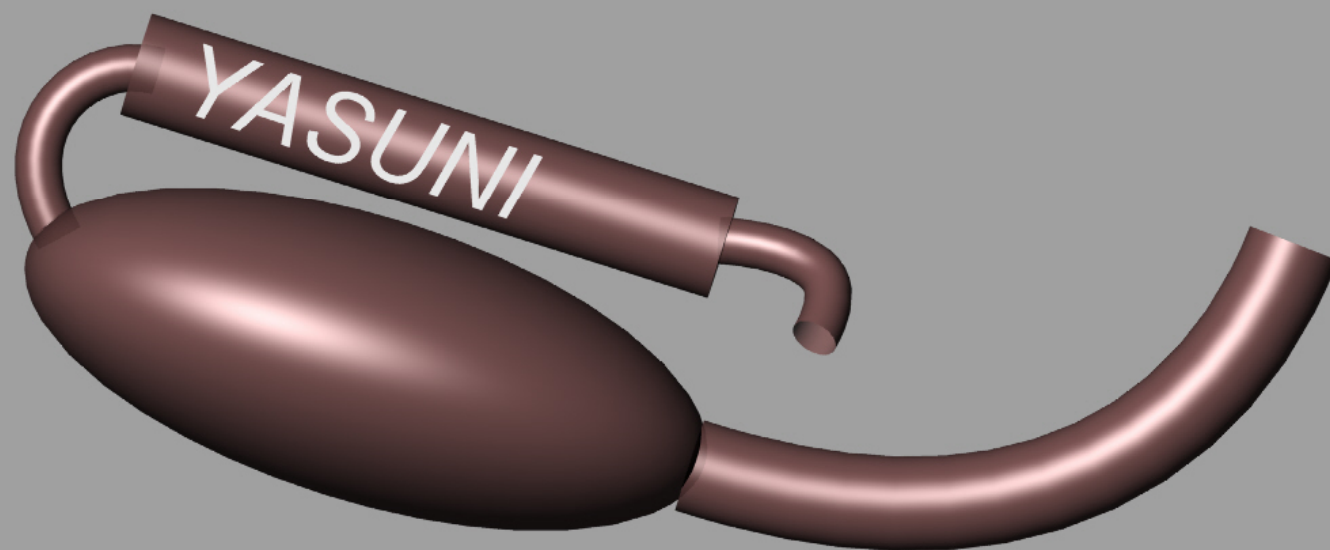


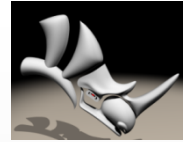
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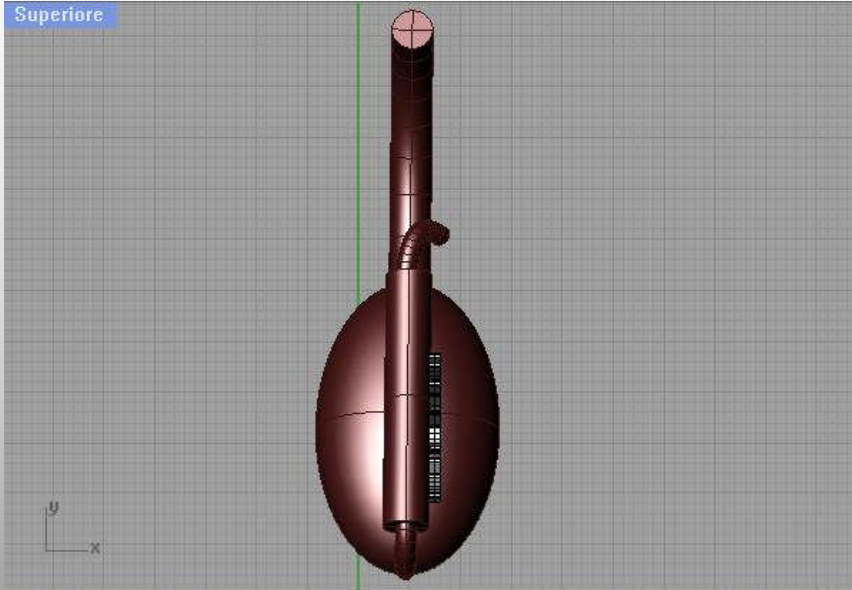
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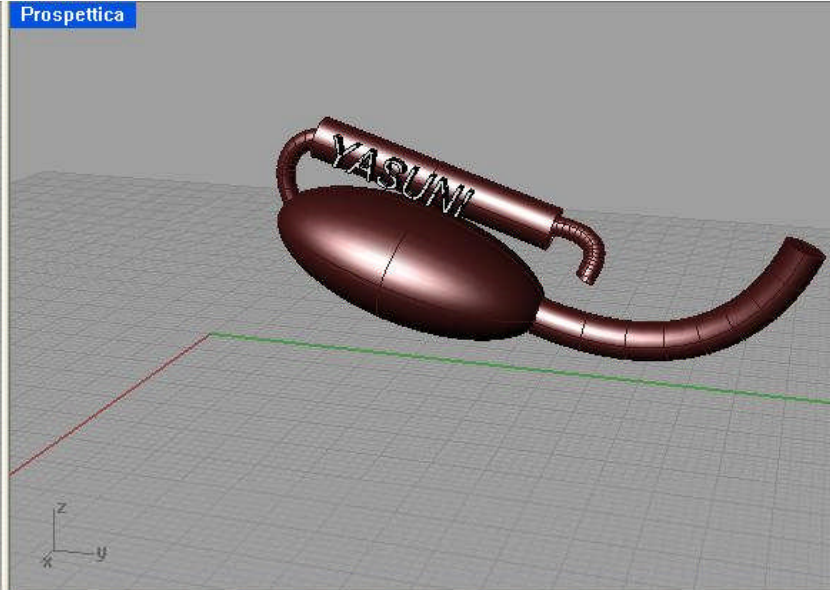


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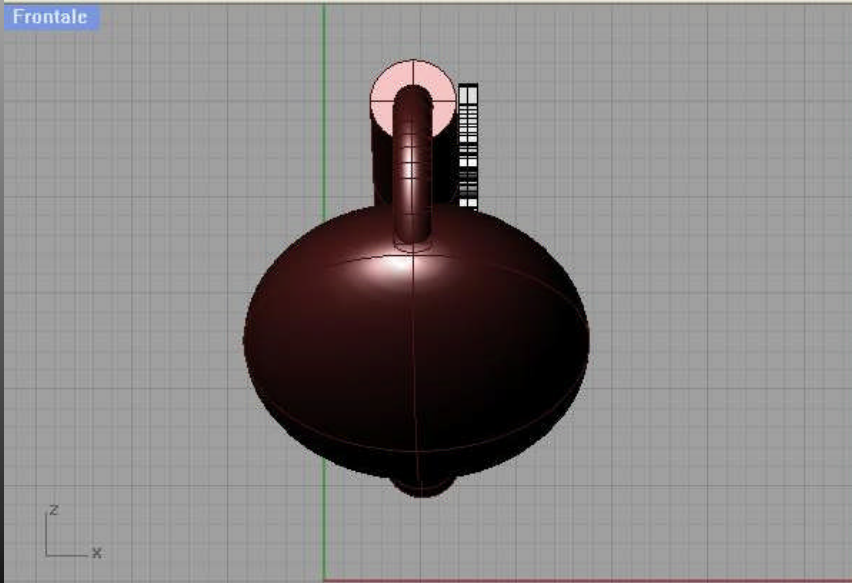
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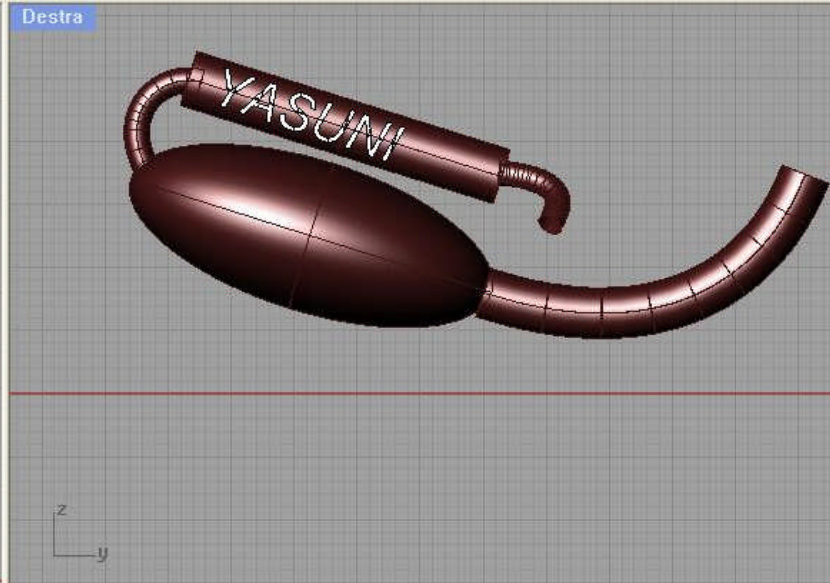
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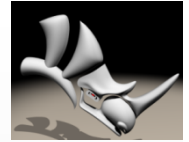


Frontale

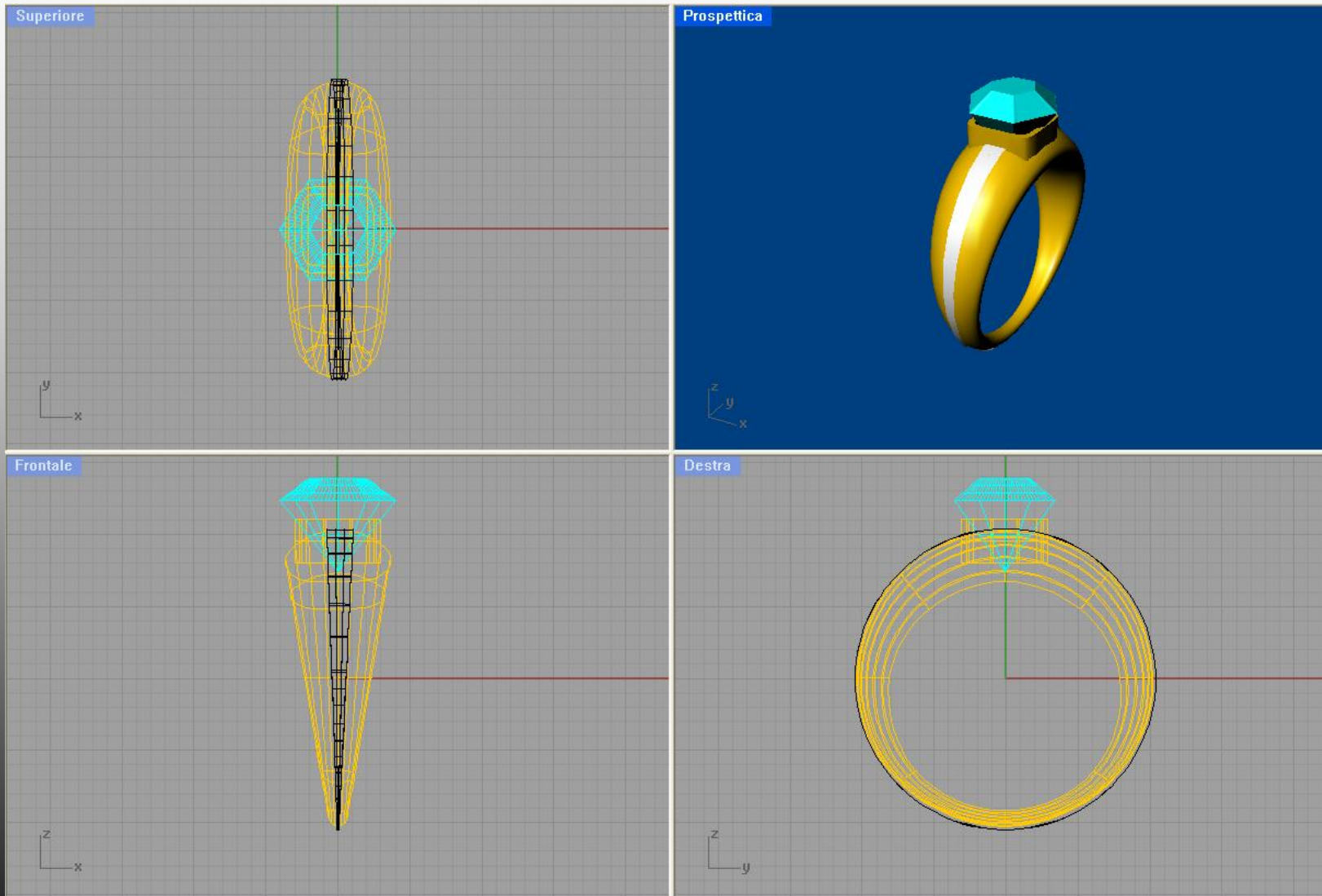


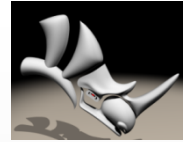
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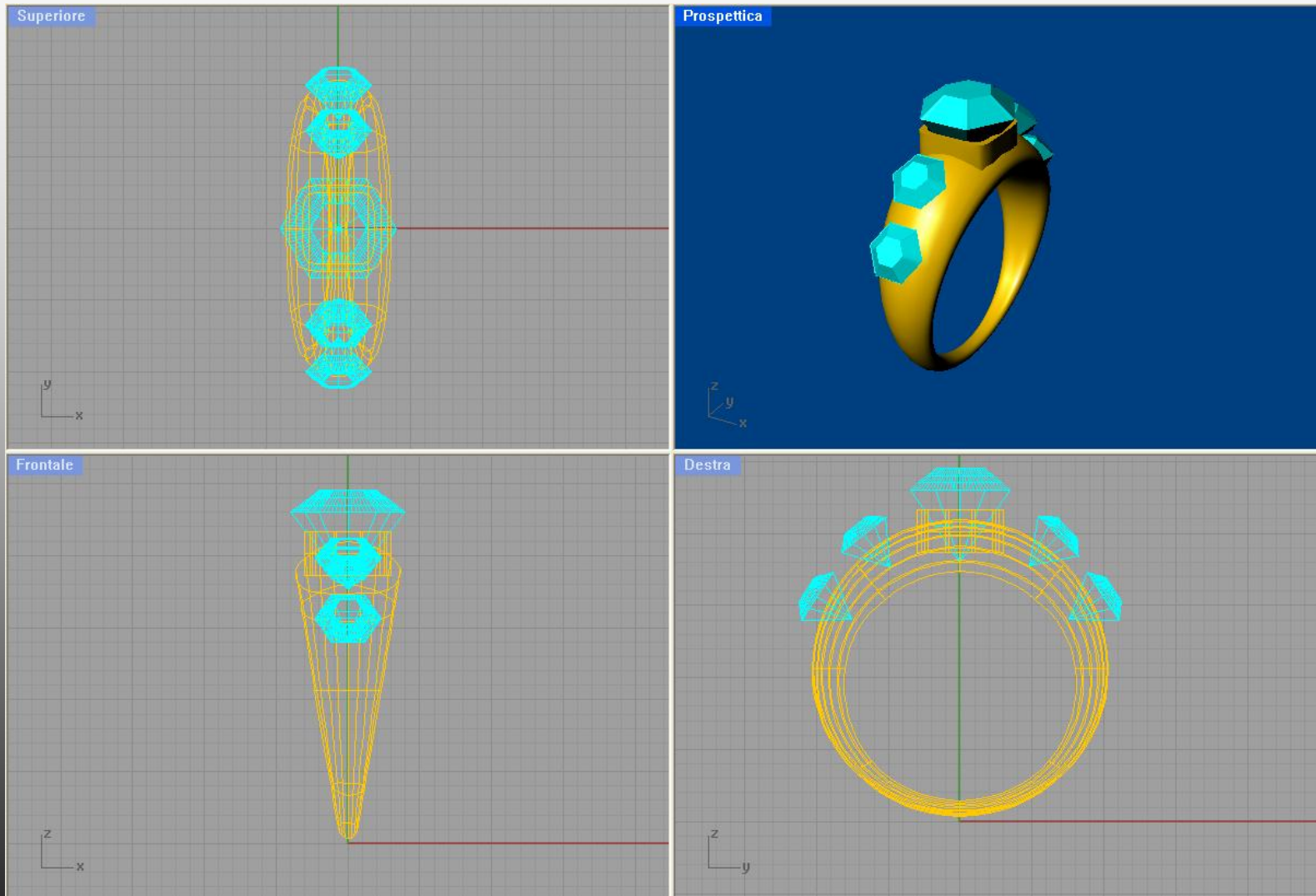


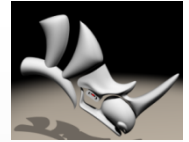
Mangia Mattia





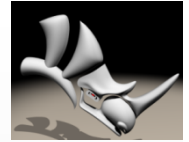
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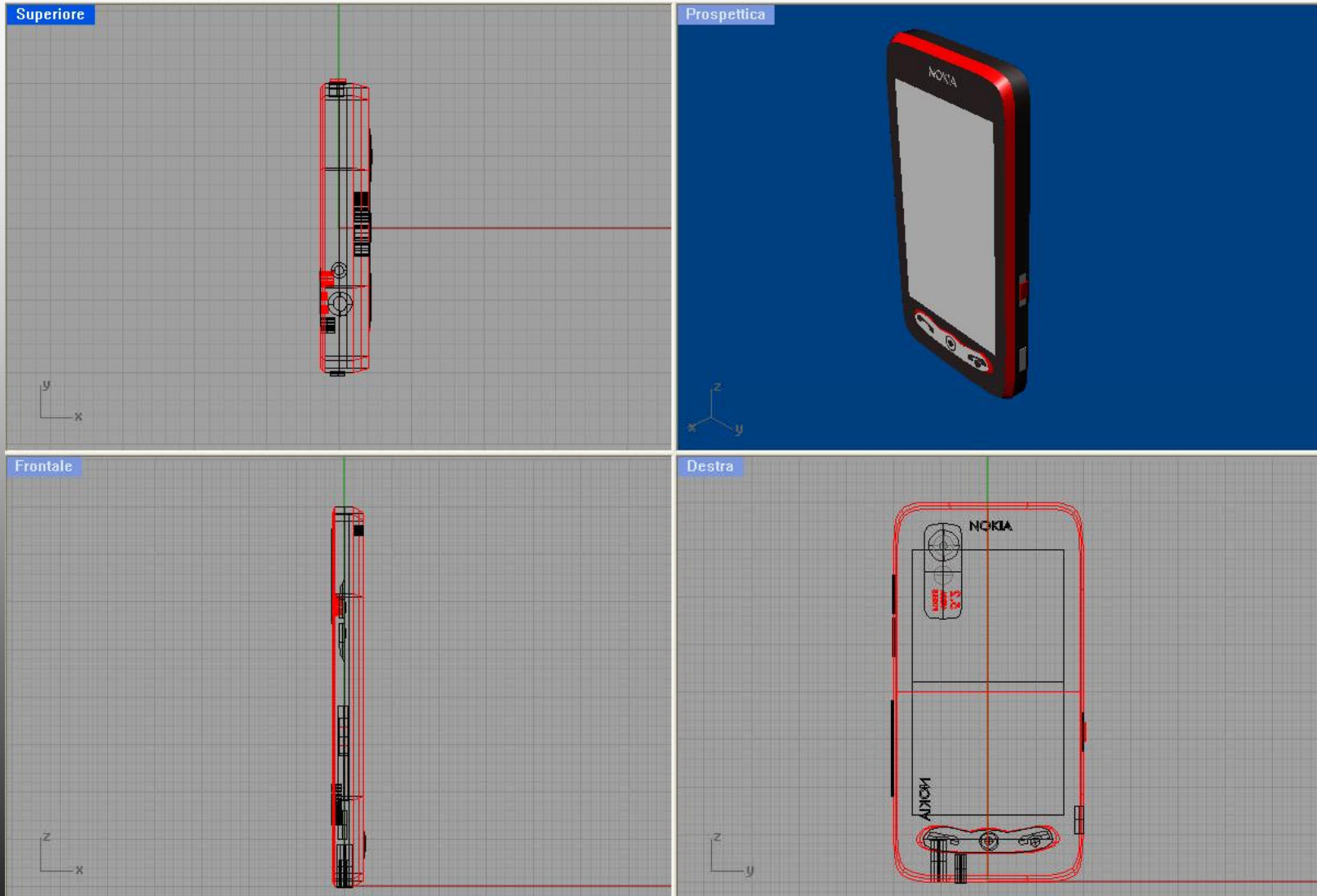


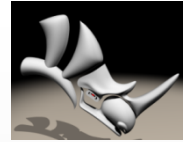
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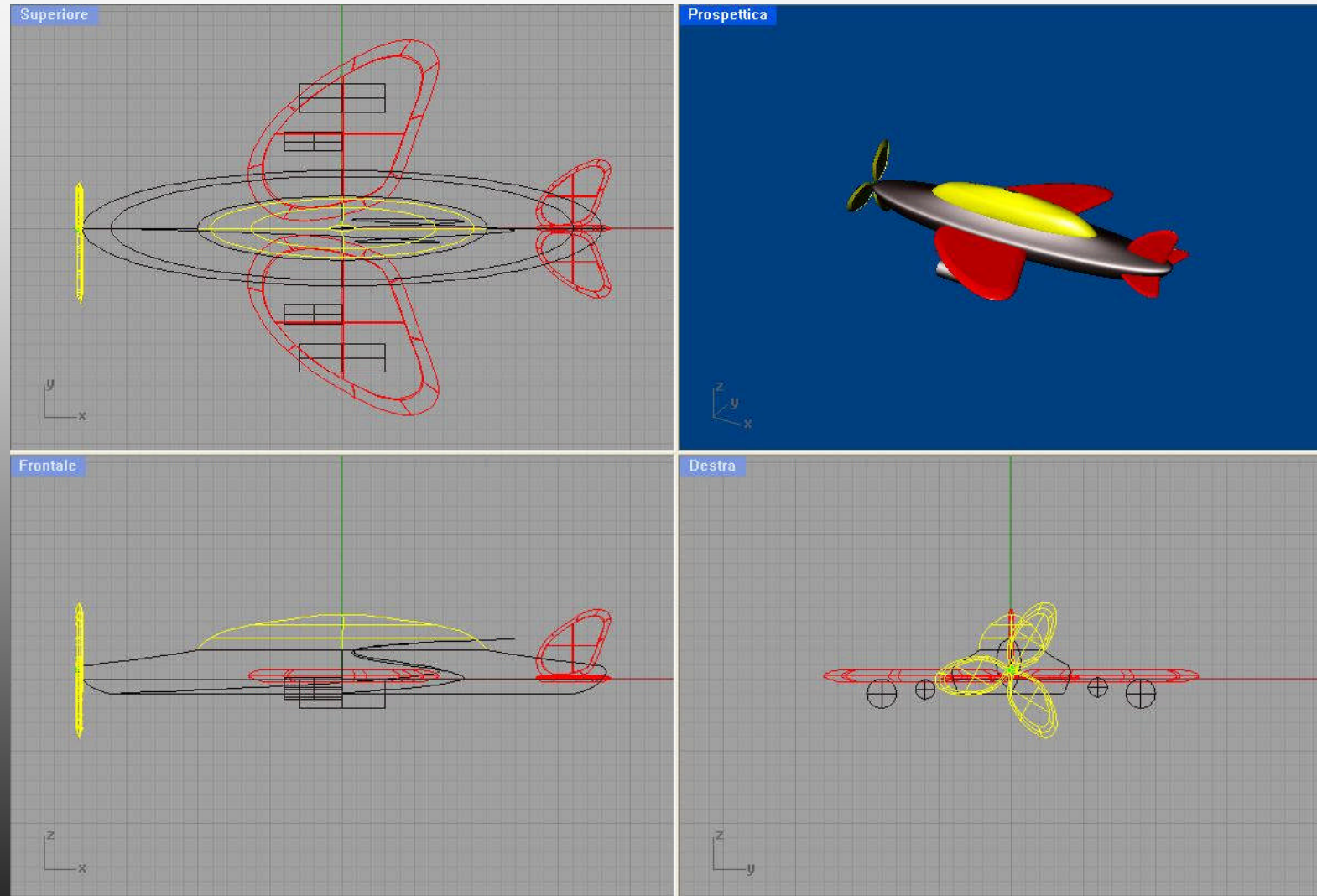


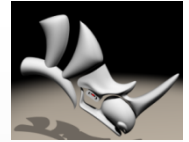
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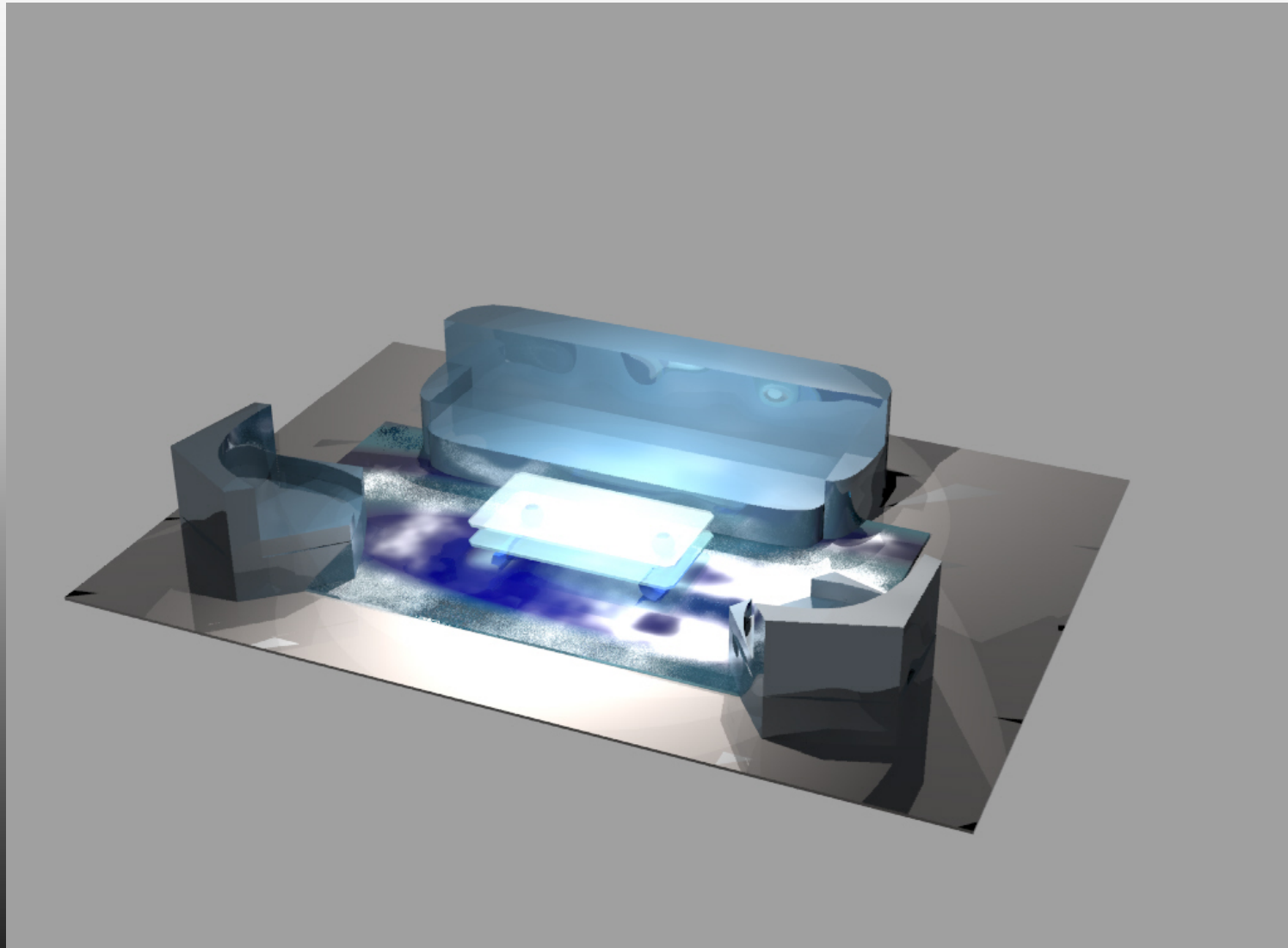


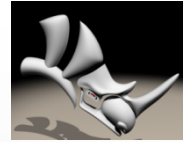
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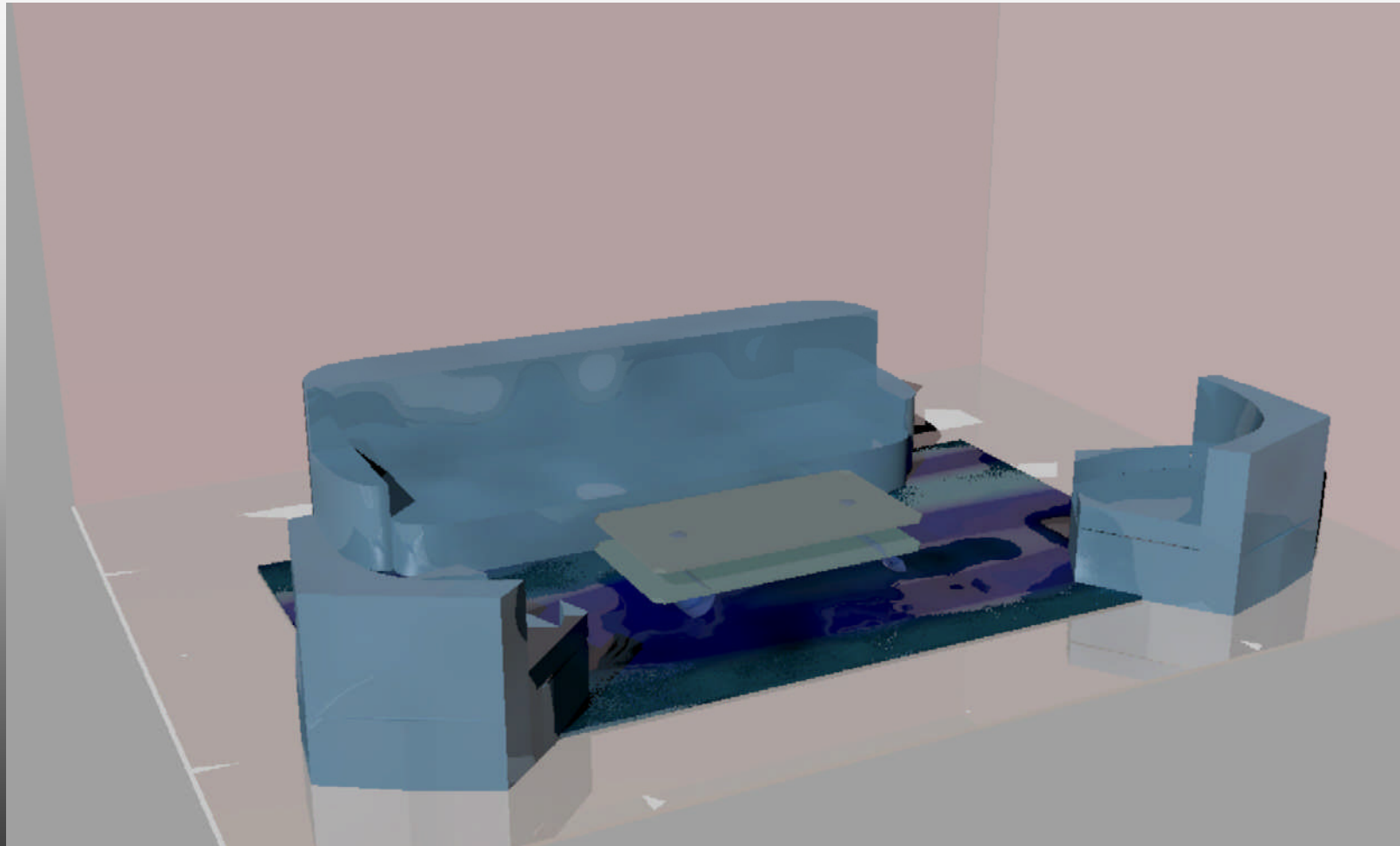


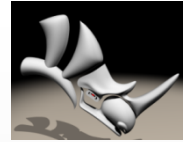
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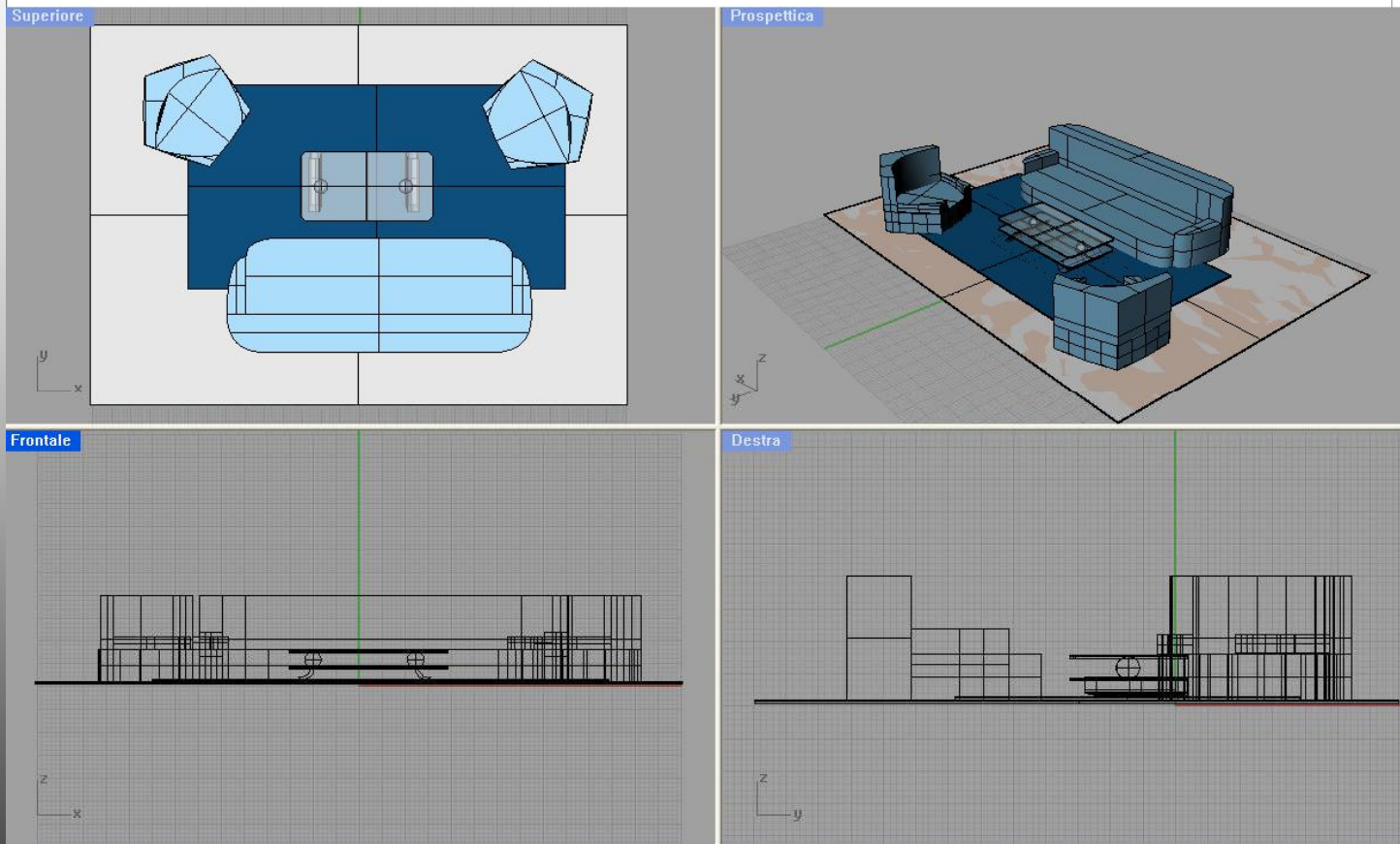


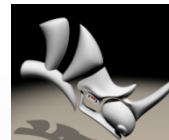
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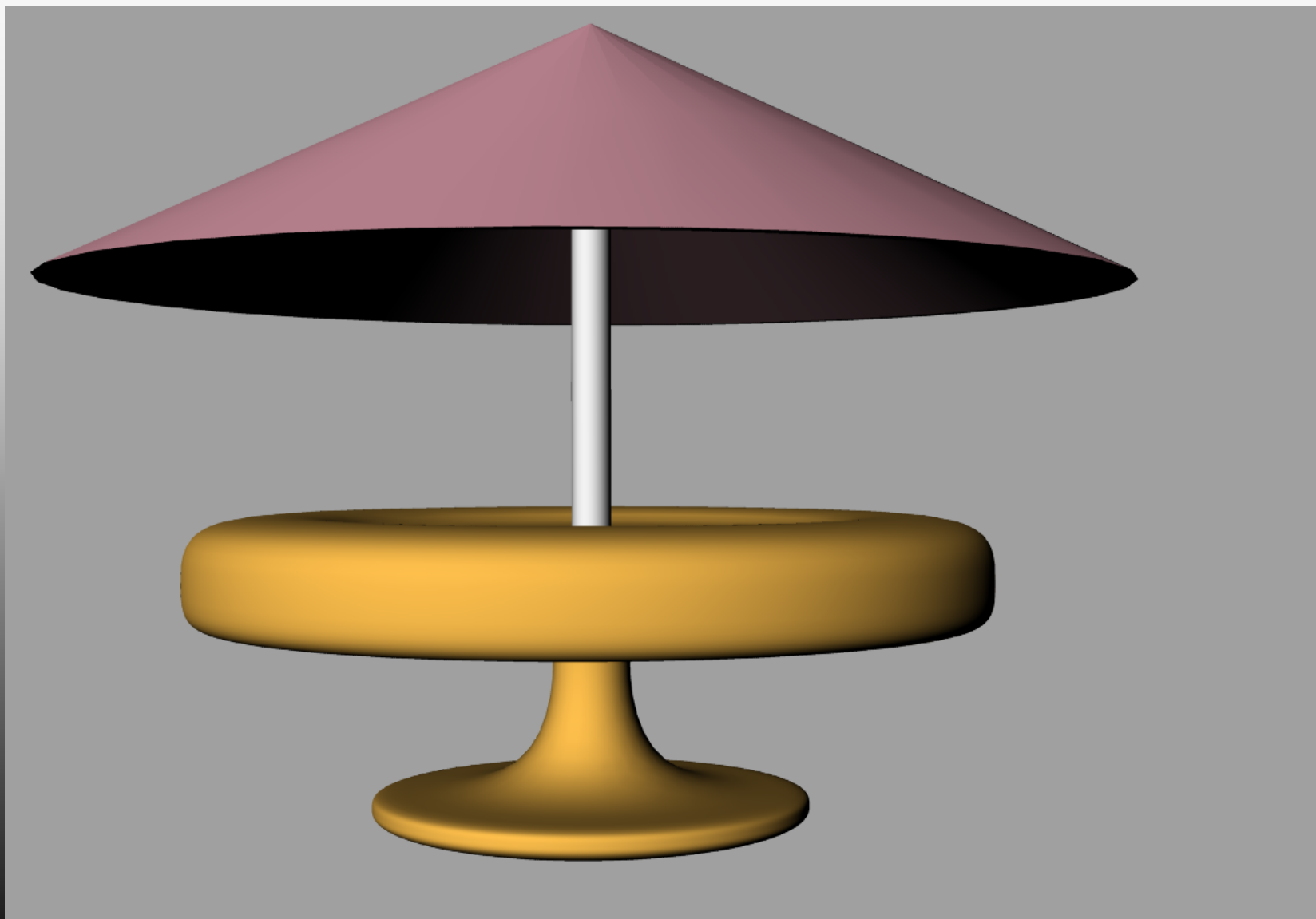


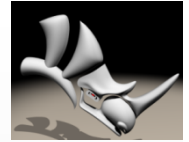
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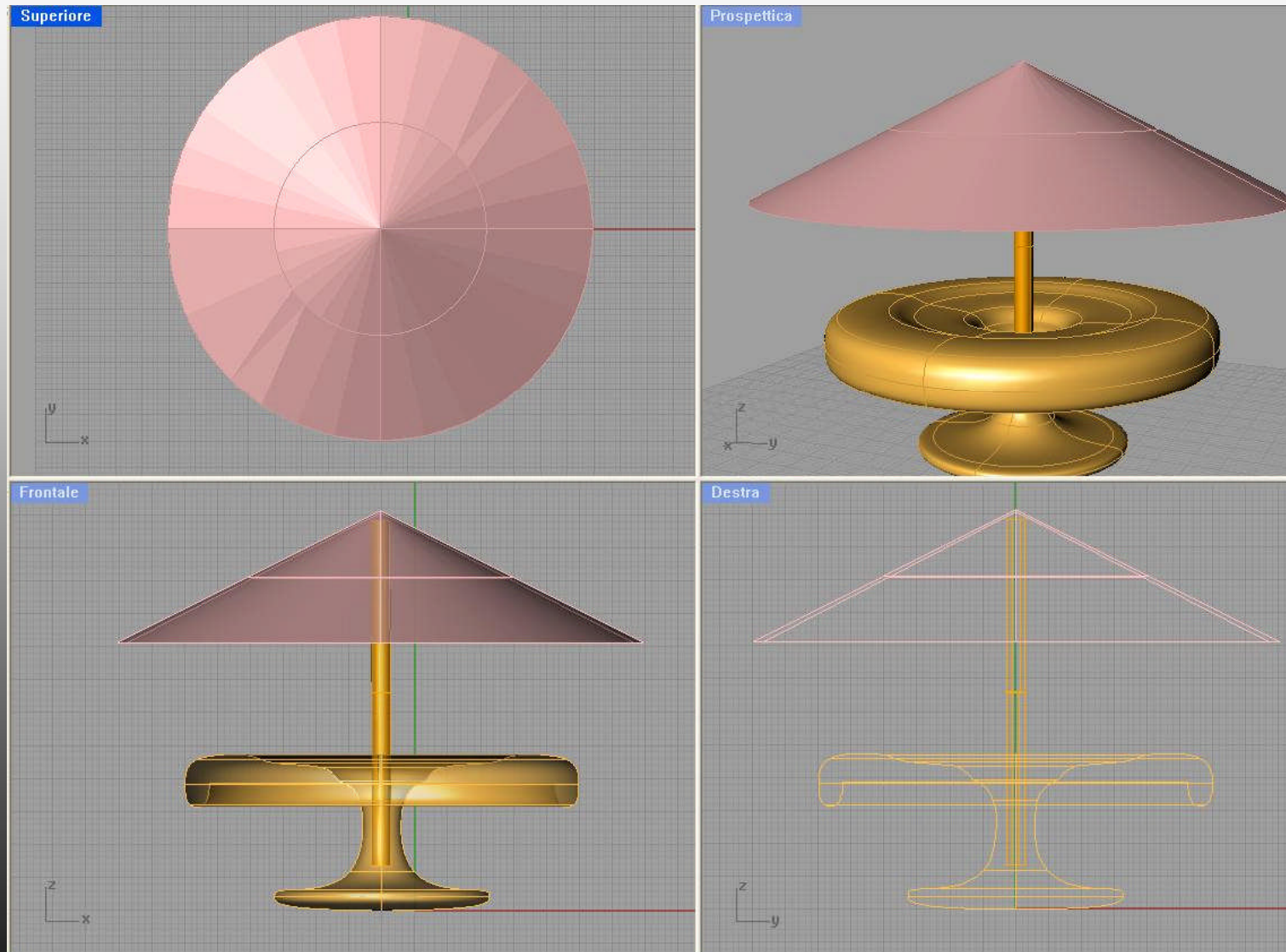


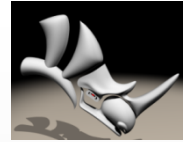
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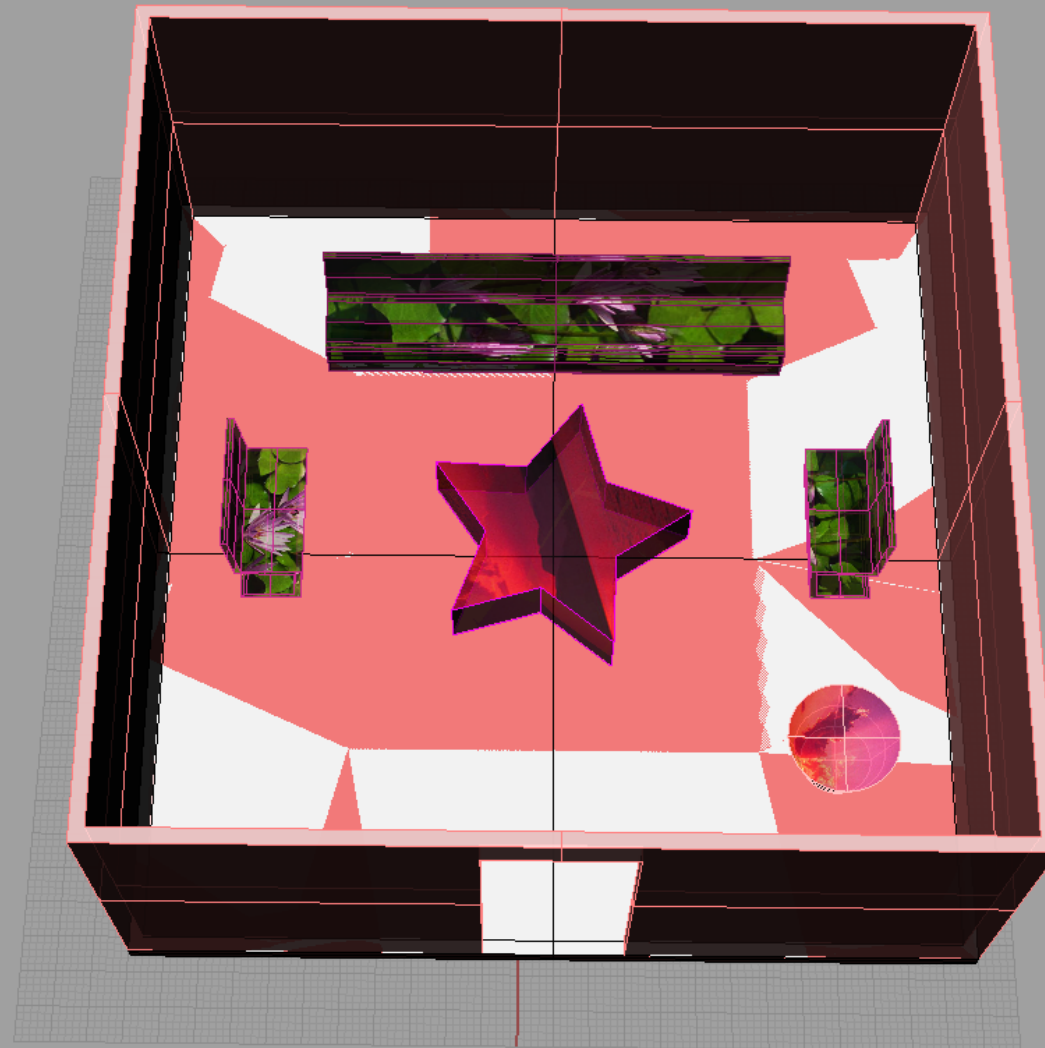
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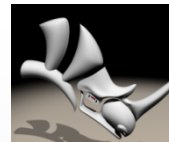




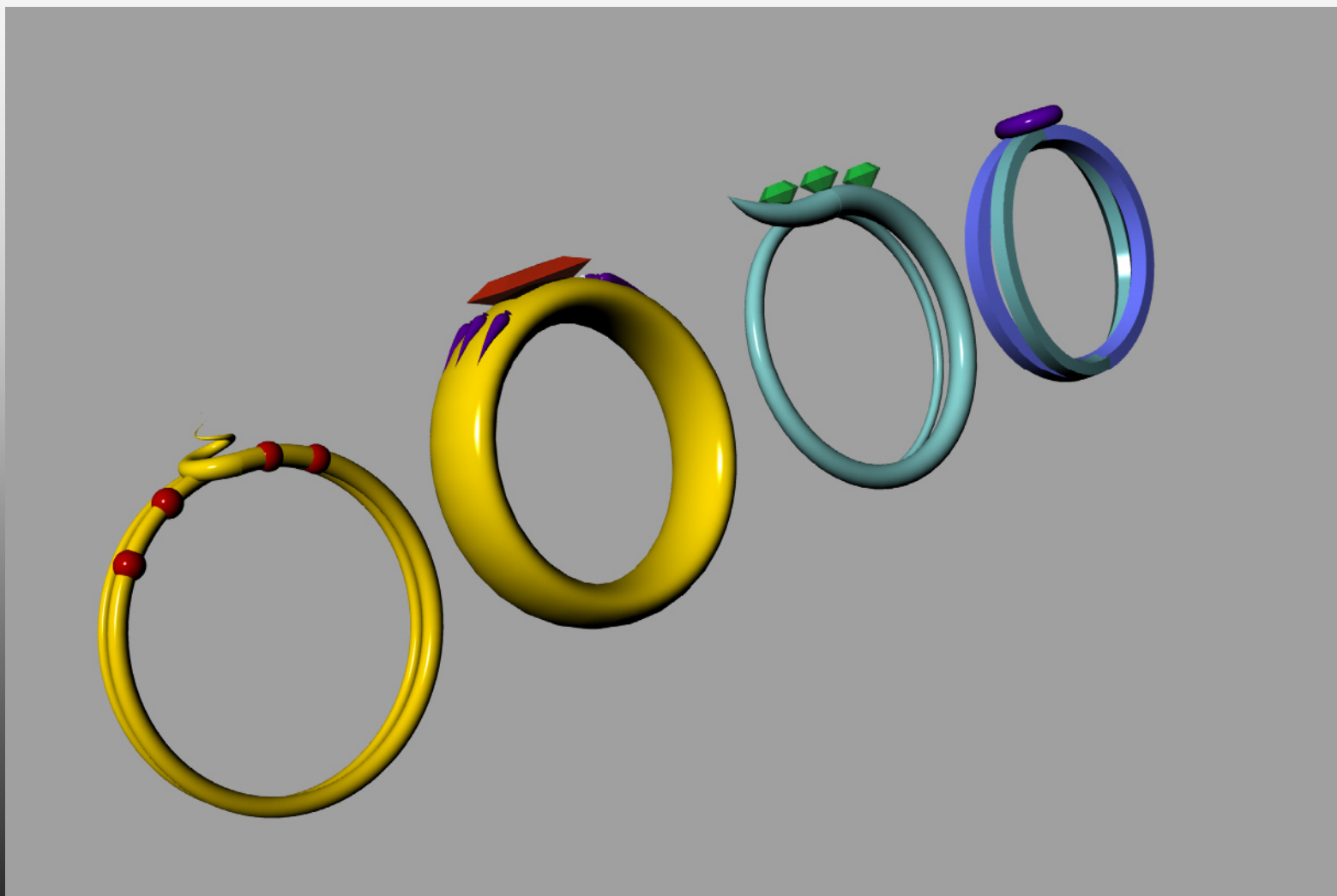
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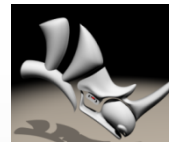
Prospettica



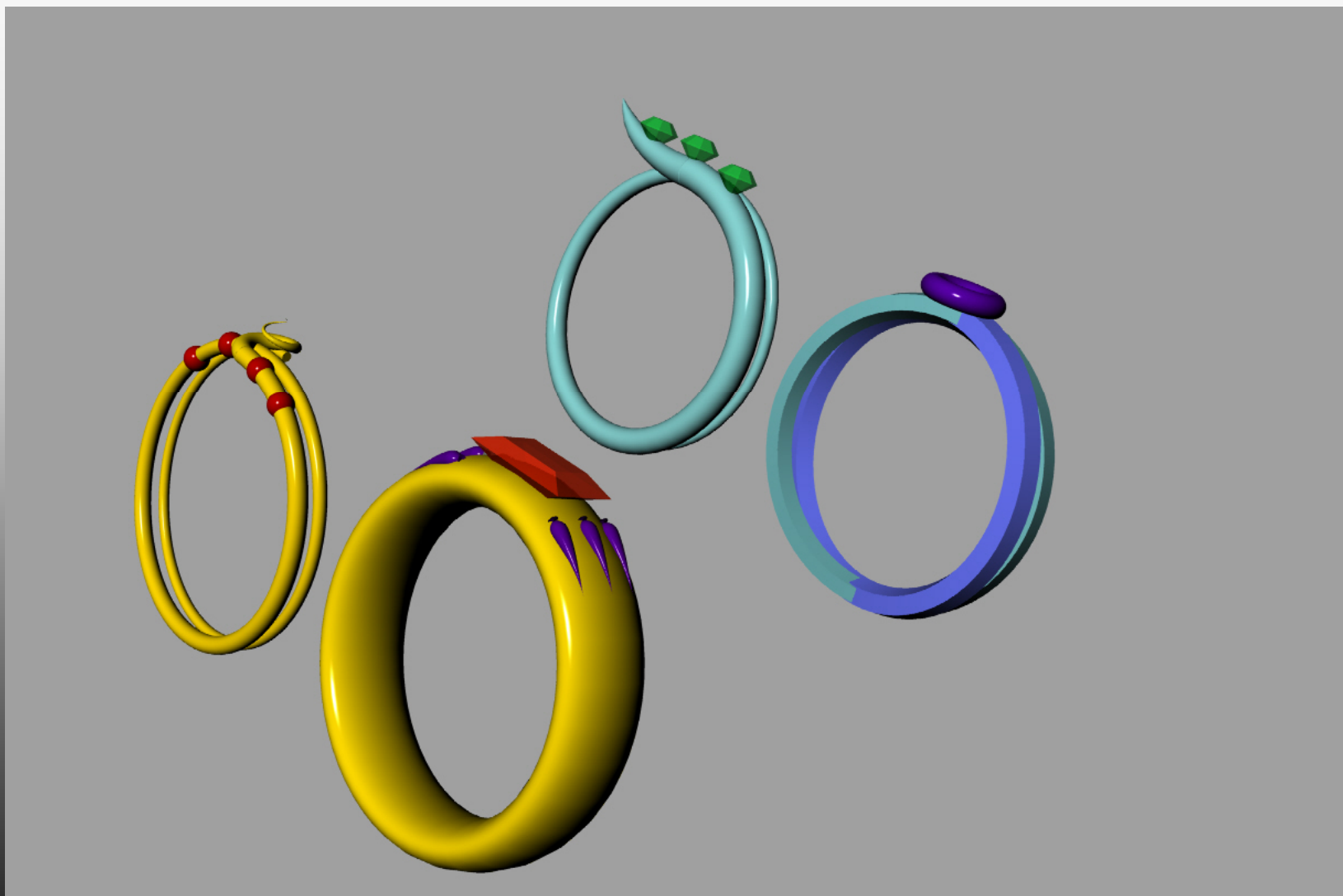


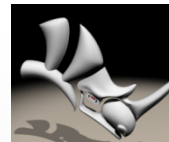
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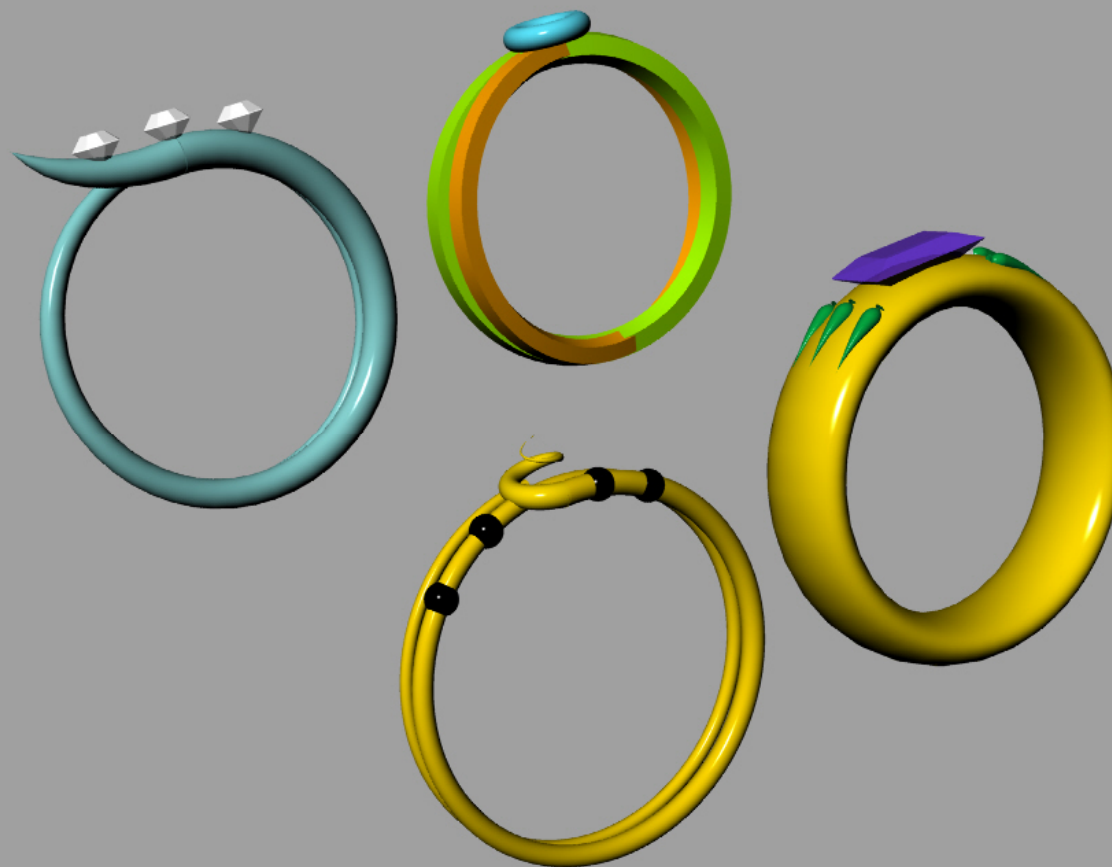


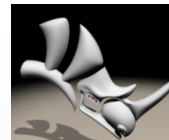
Tommasi Lorenzo





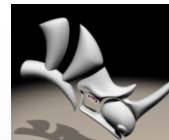
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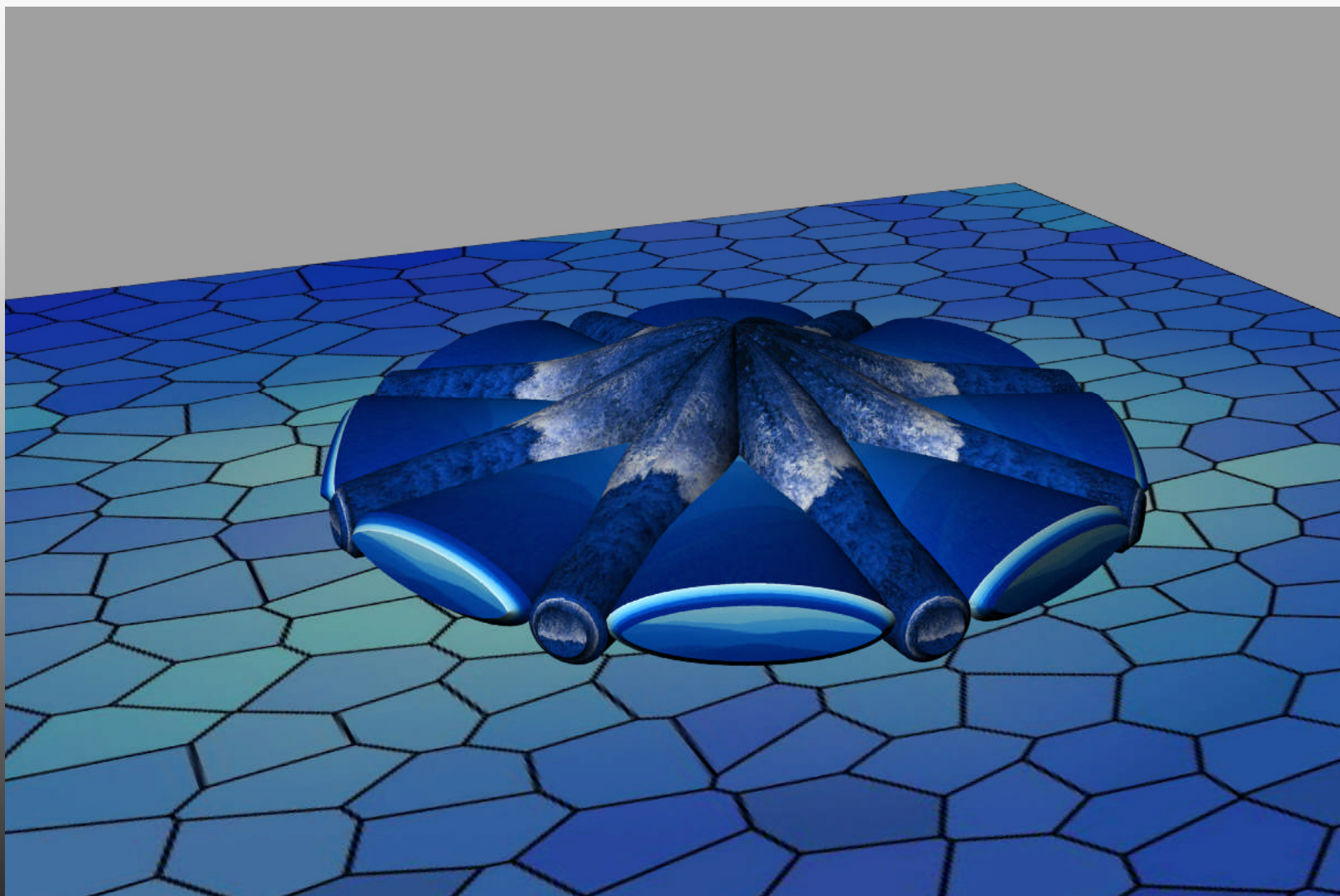


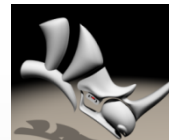
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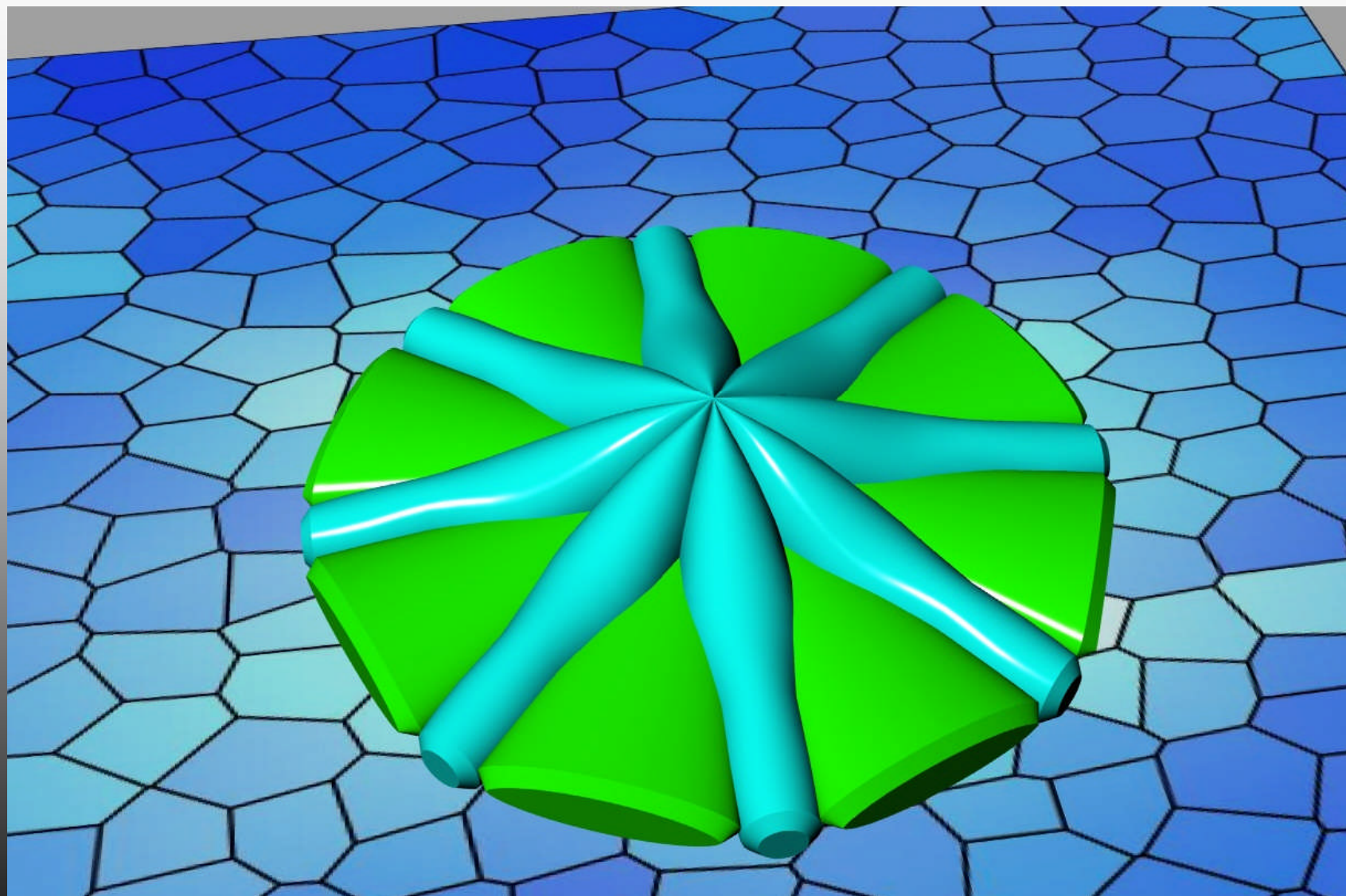


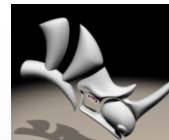
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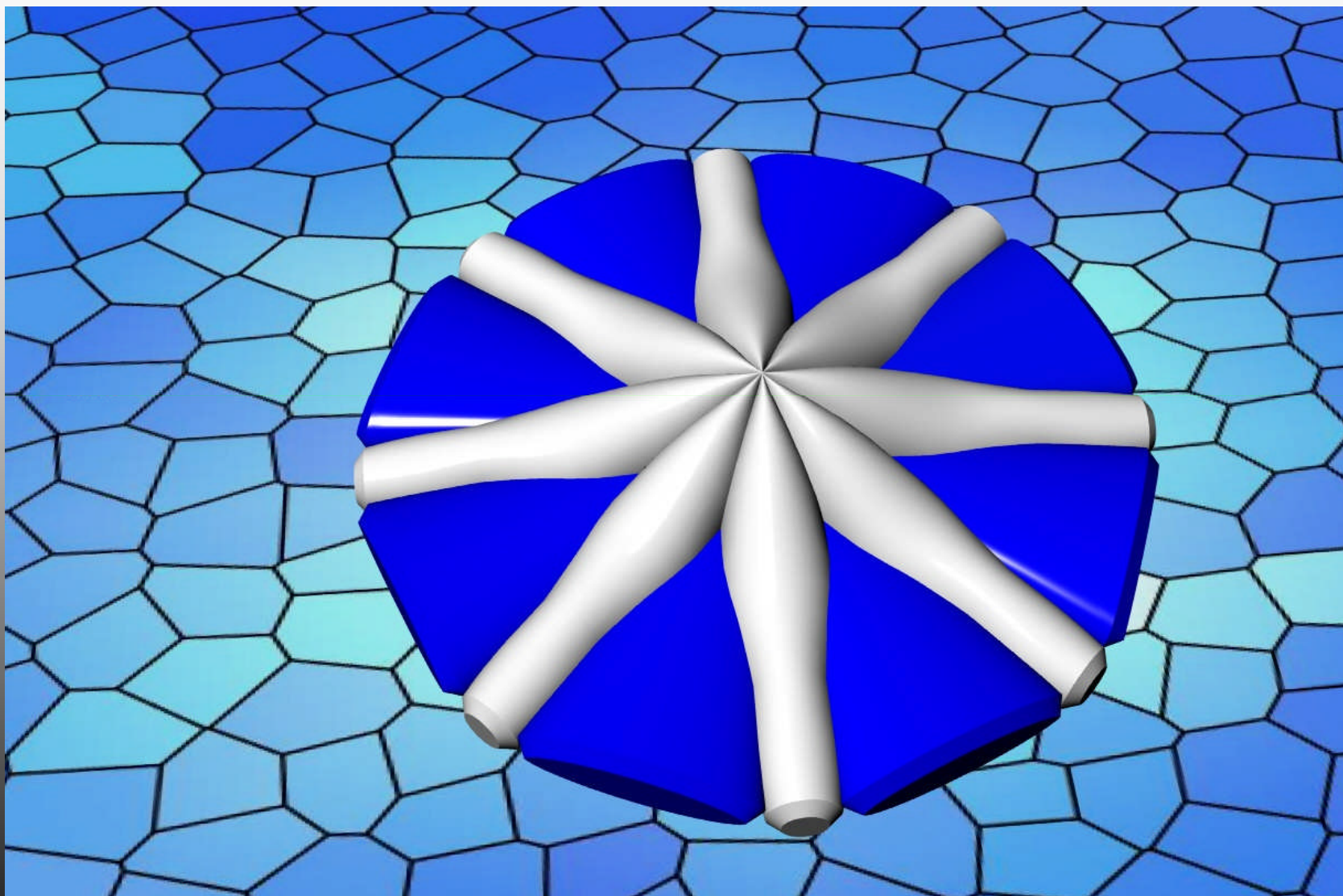


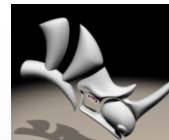
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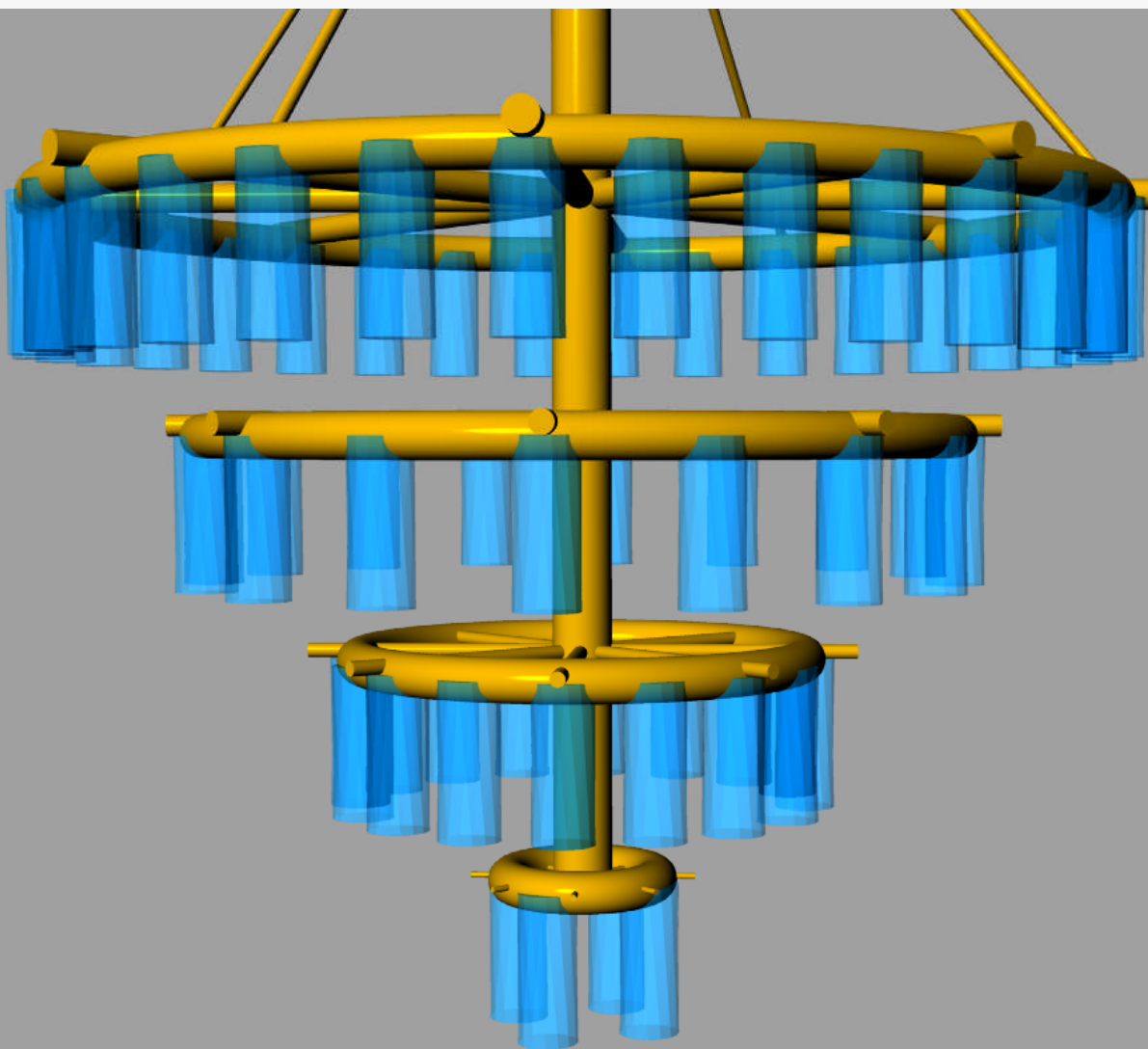


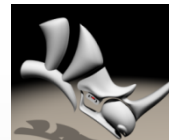
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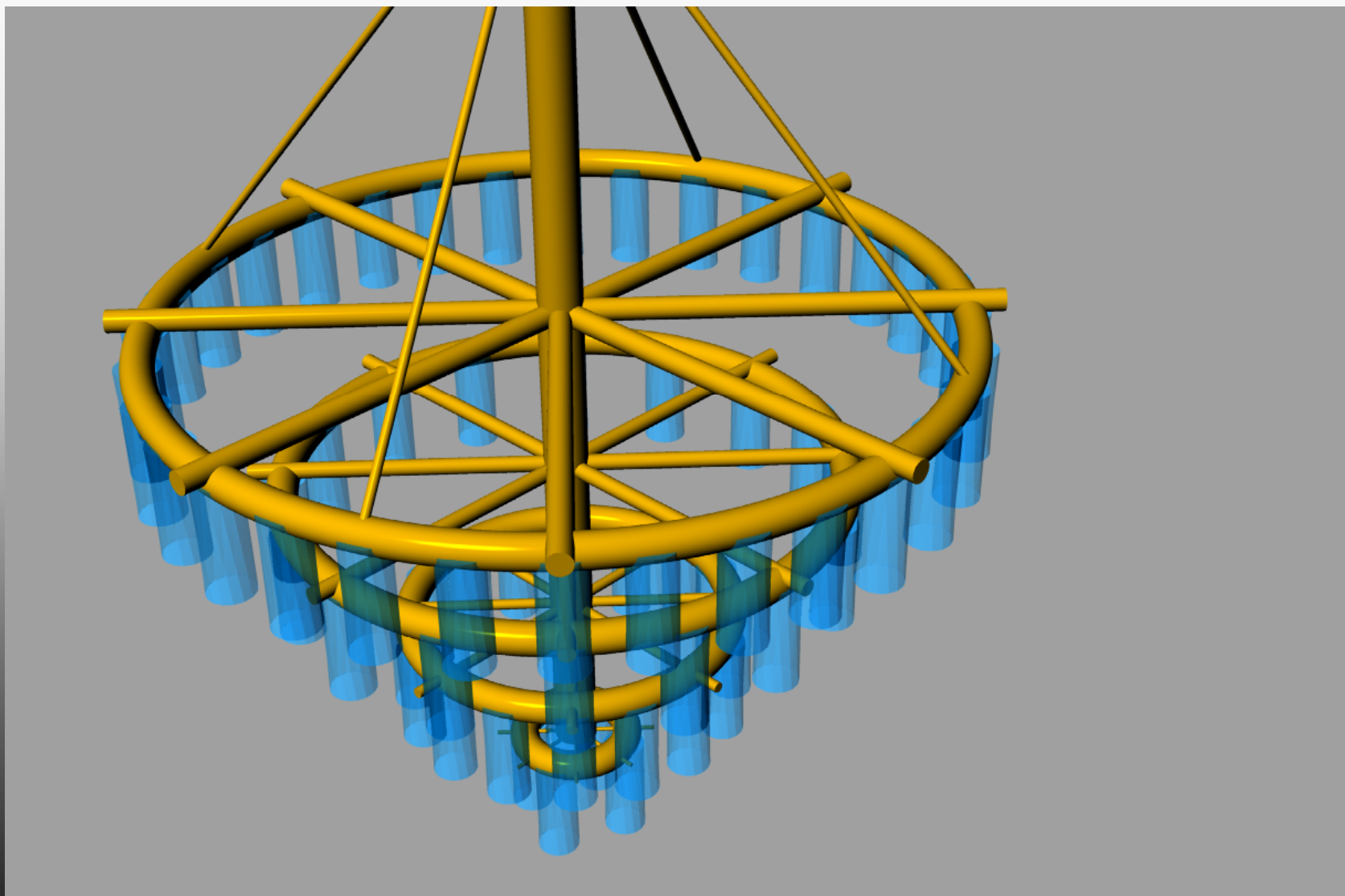


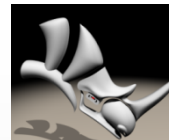
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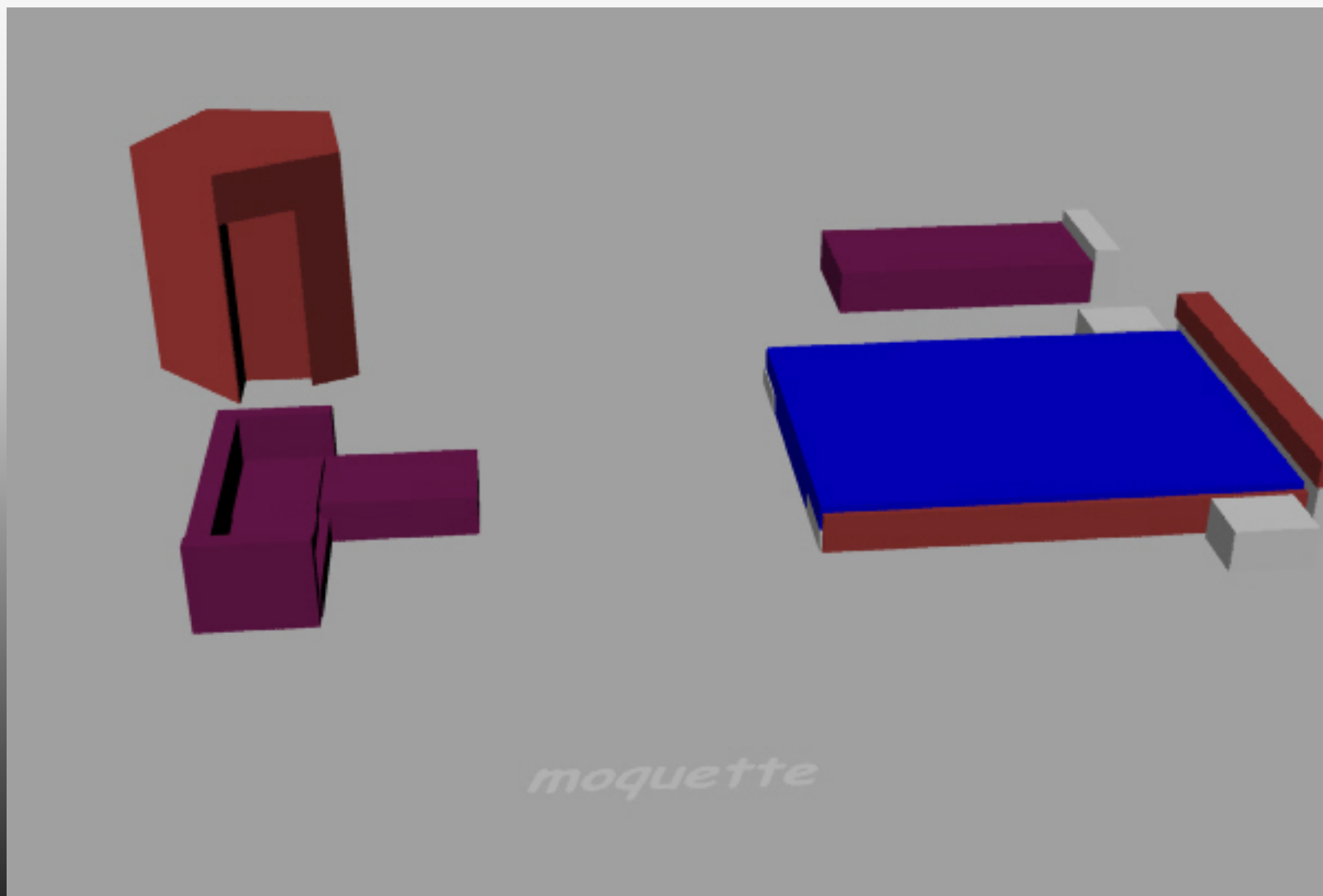


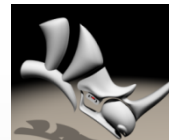
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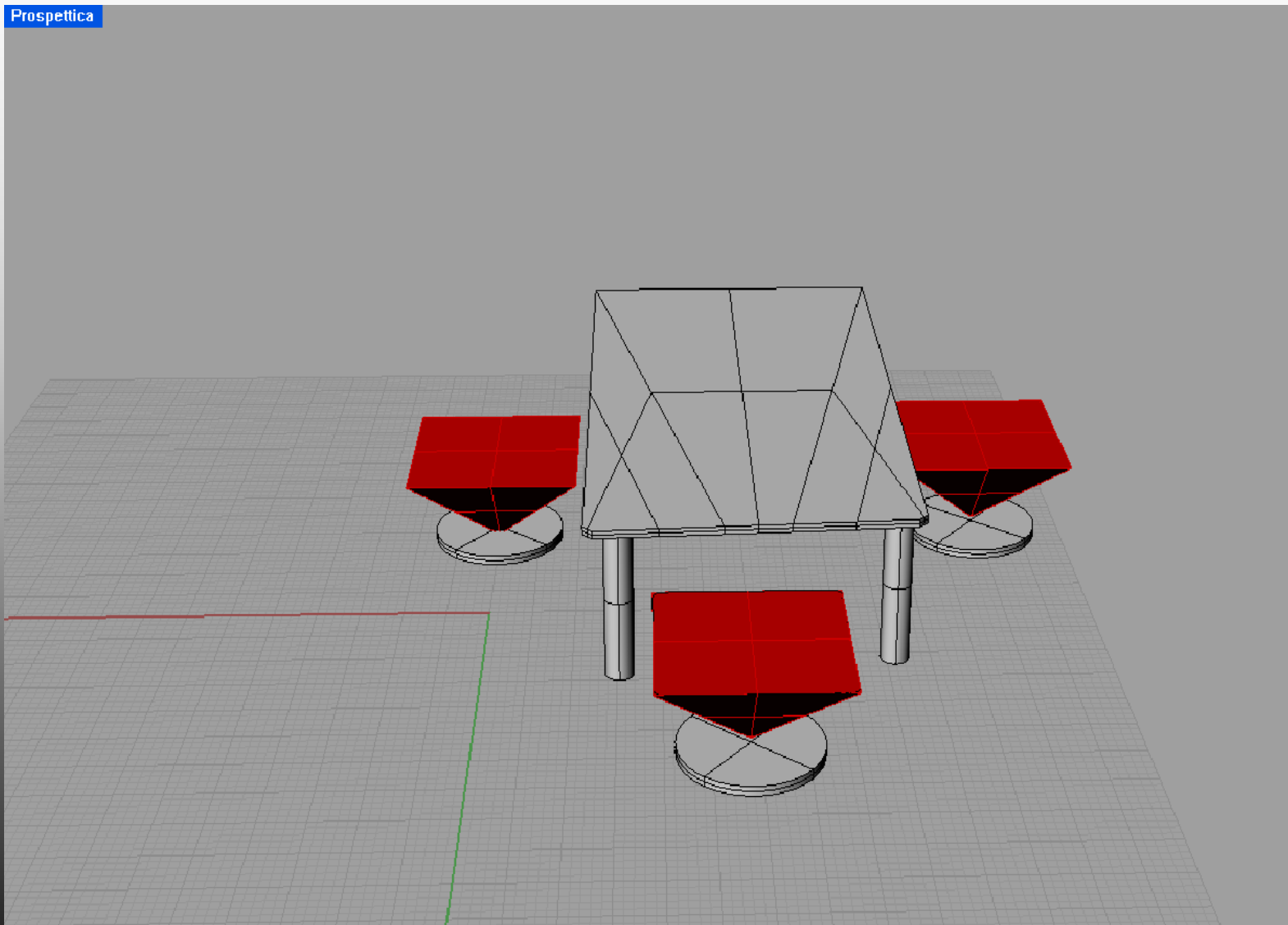
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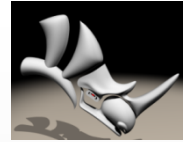




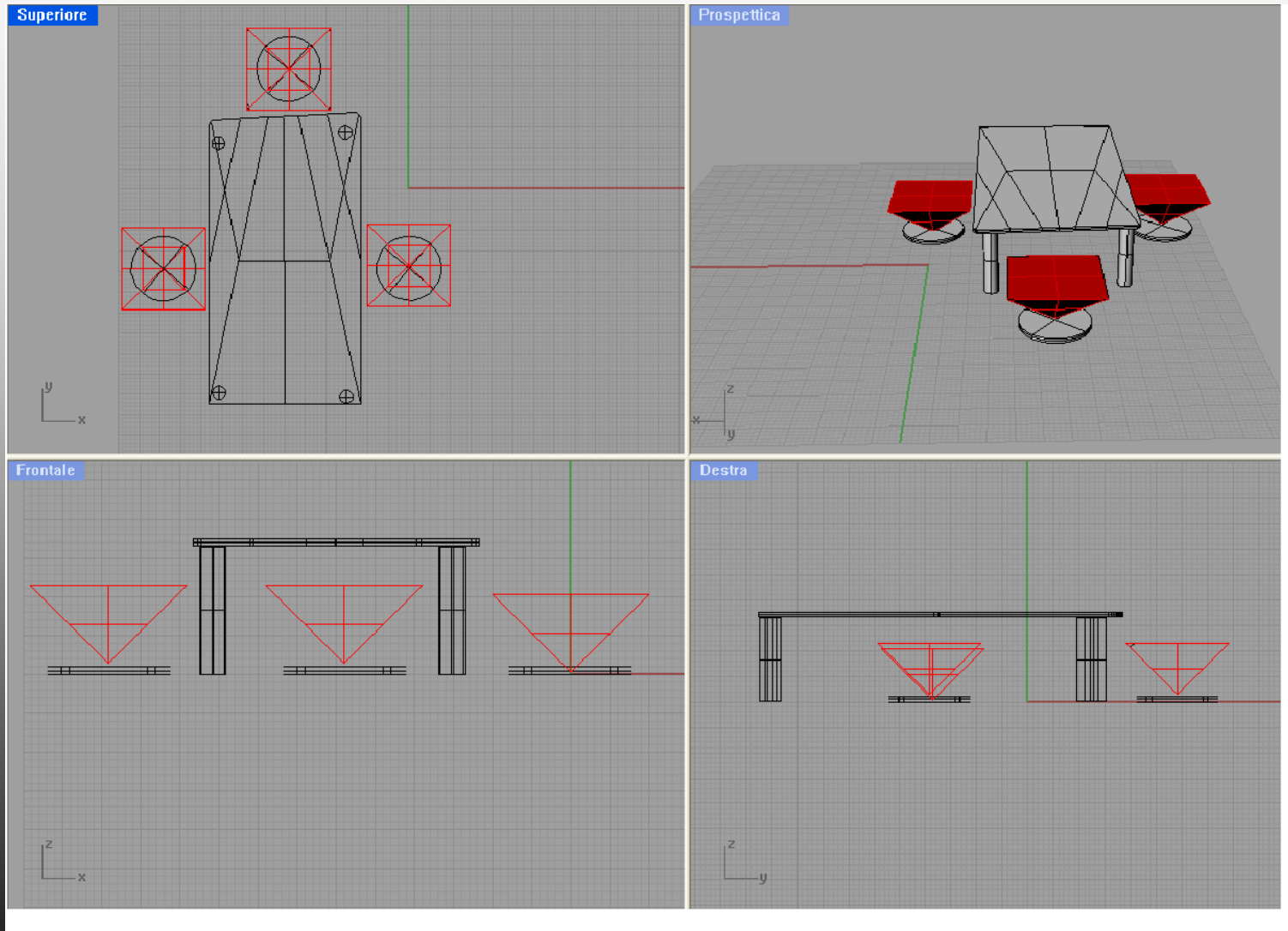
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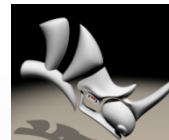
Prospettiva





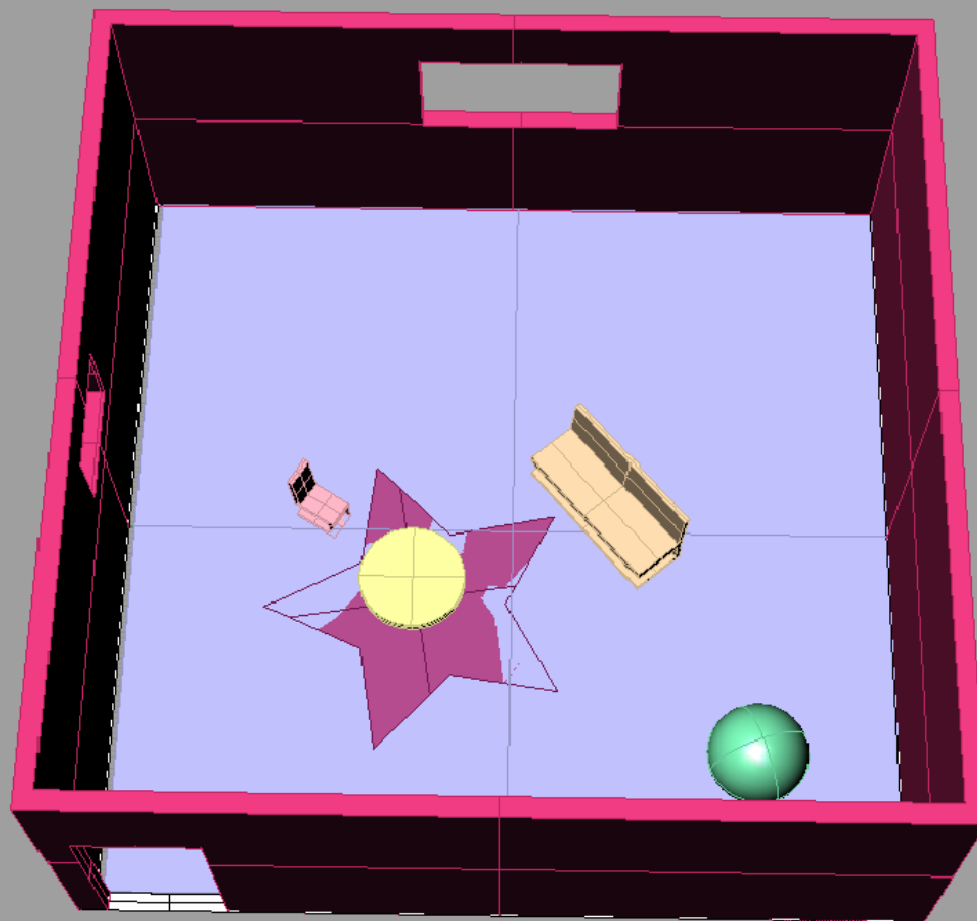
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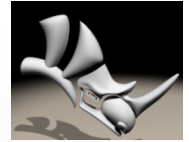




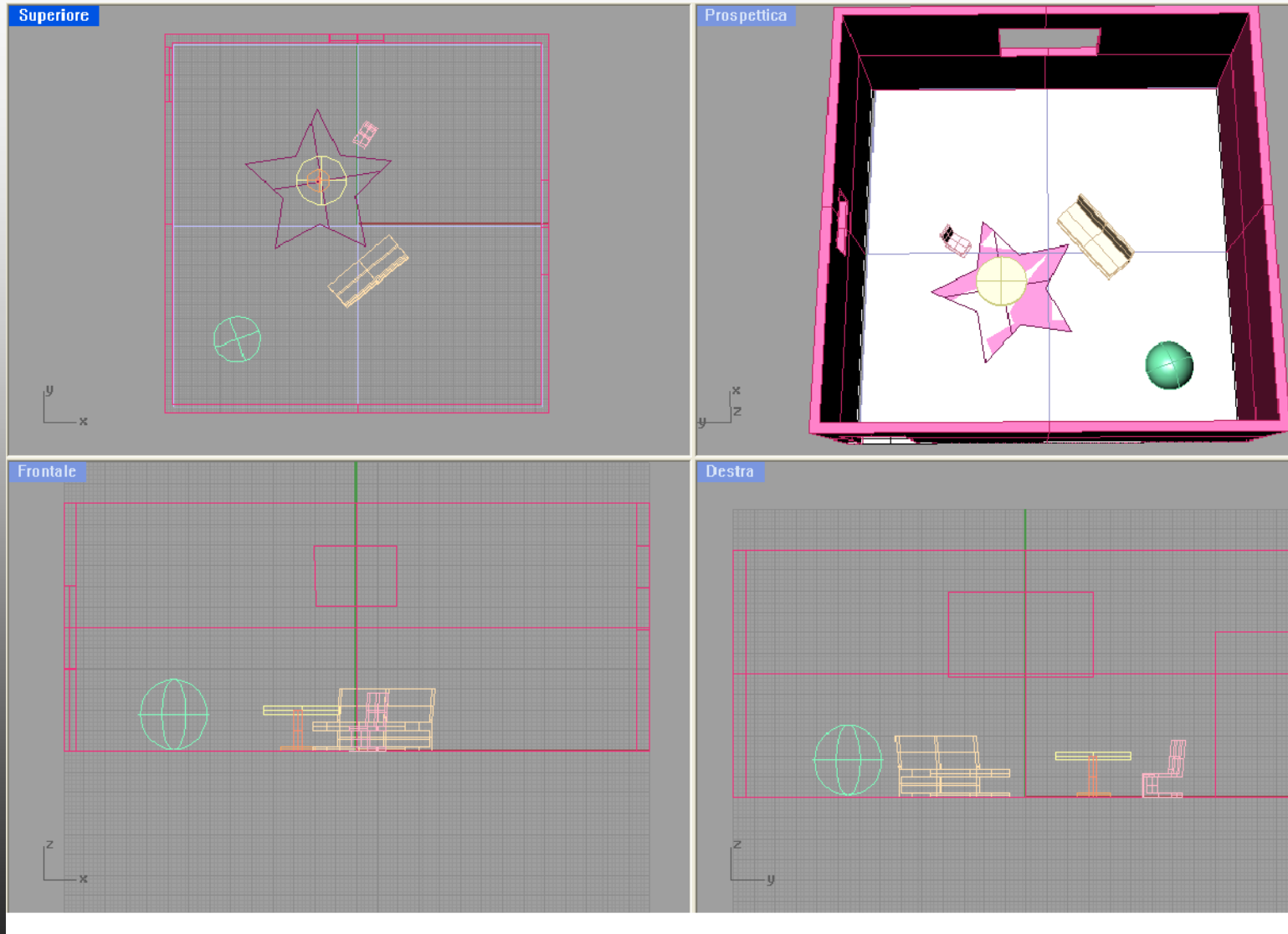
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Prospettiva





Tomasello Sharon





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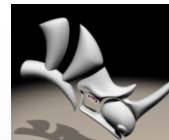


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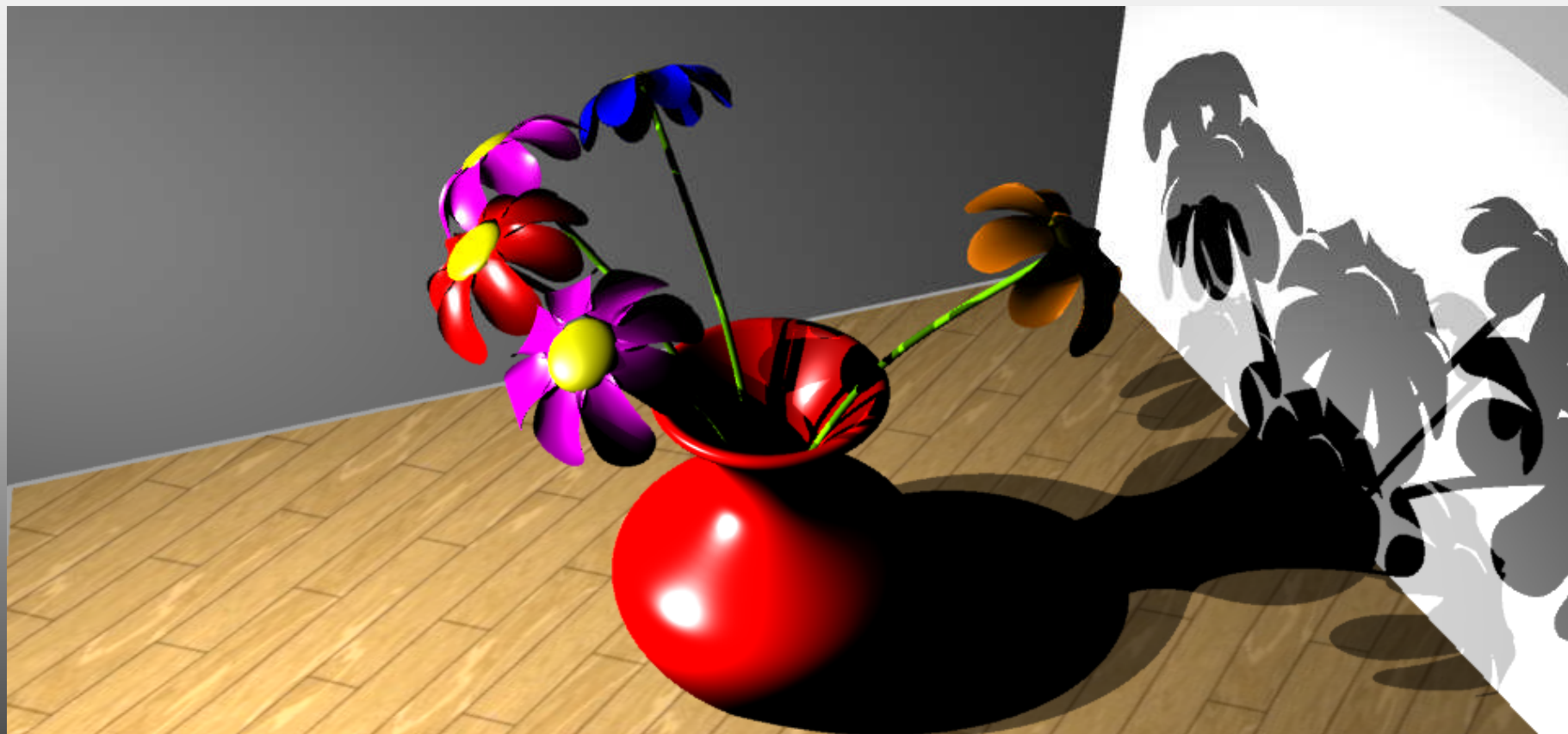
SVILUPPO DELLE COMPETENZE CAD ACQUISITE DAL PRECEDENTE PON

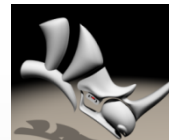
Allievo: COPPOLA SILVIO

Classe 3^a A /Ar

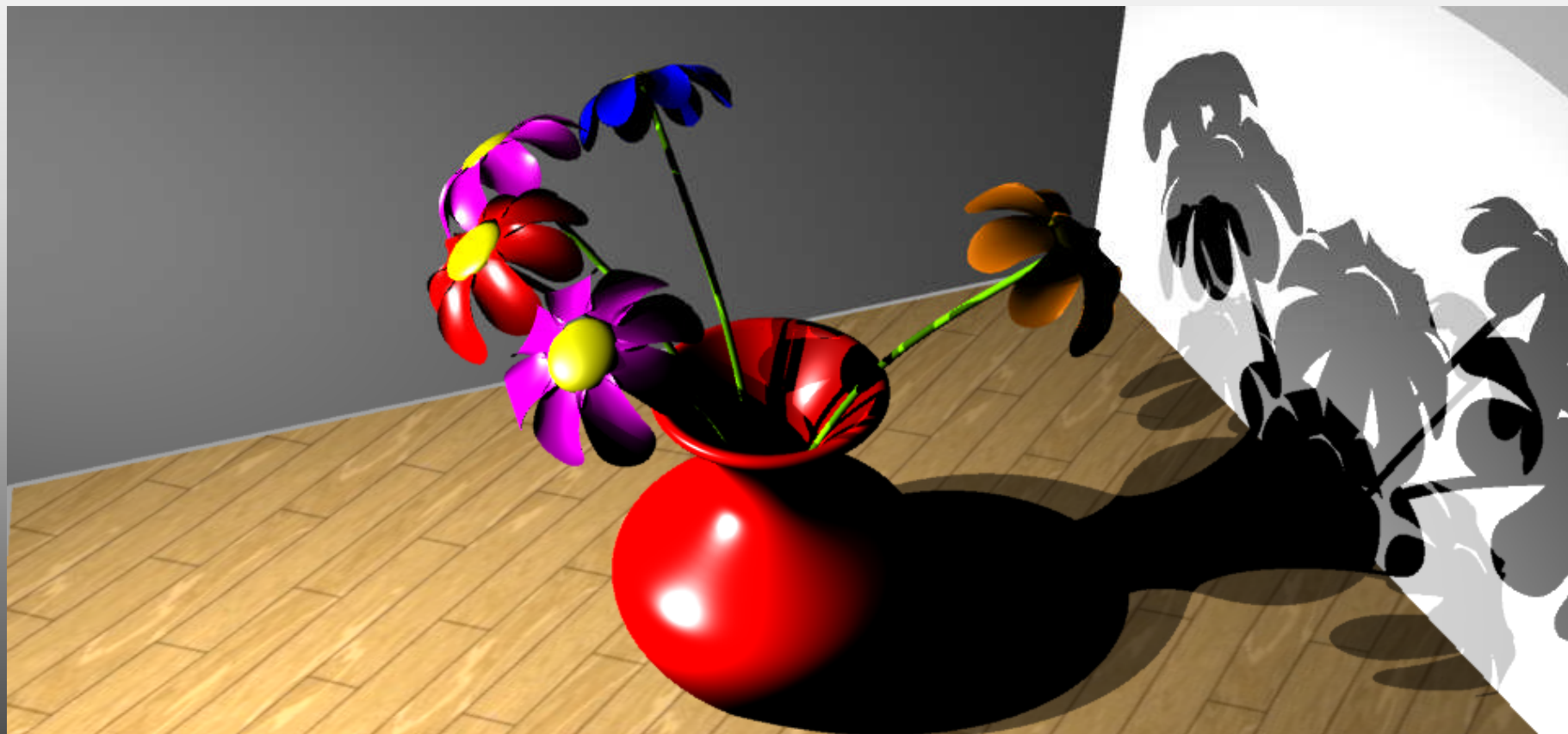


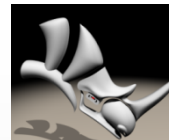
Coppola Silvio





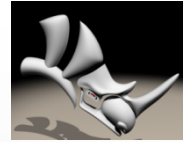
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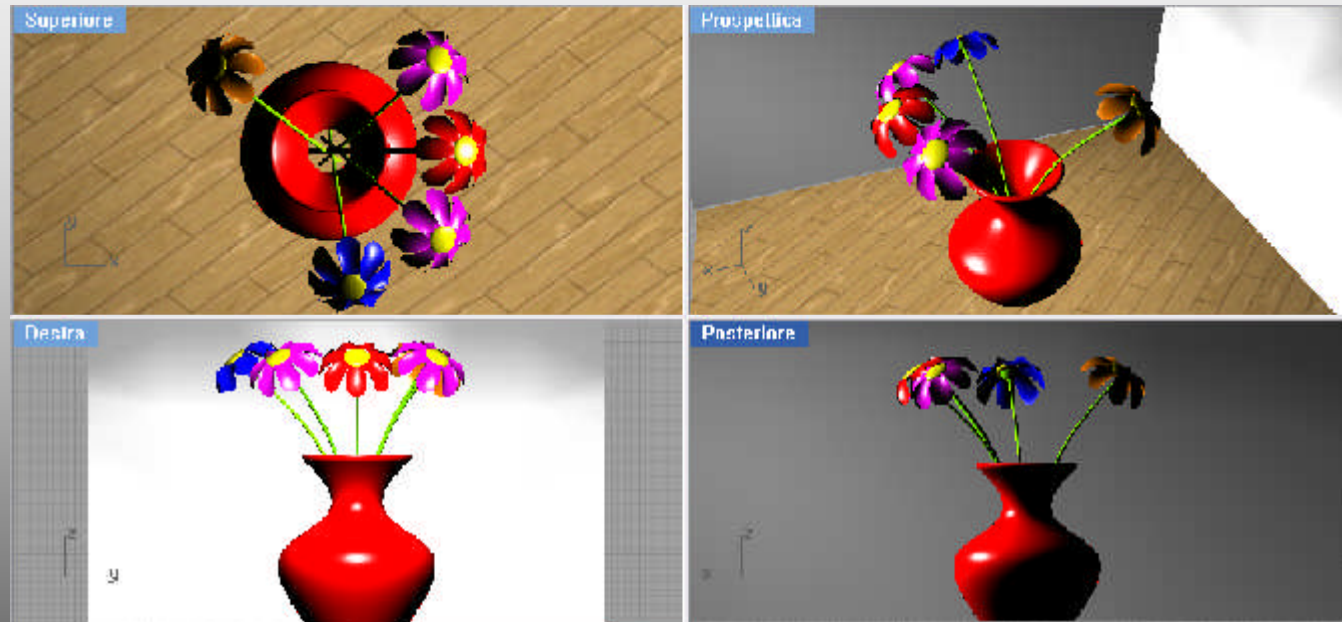


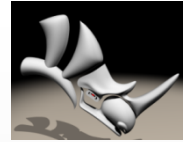
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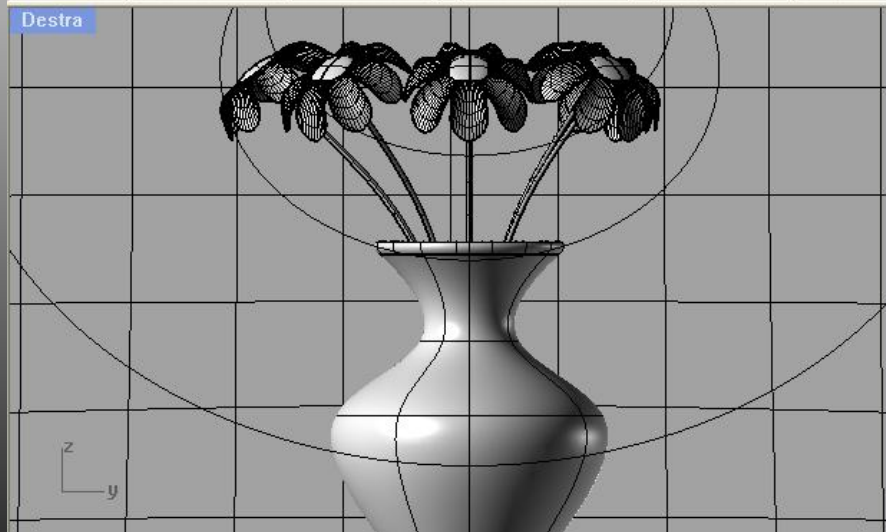
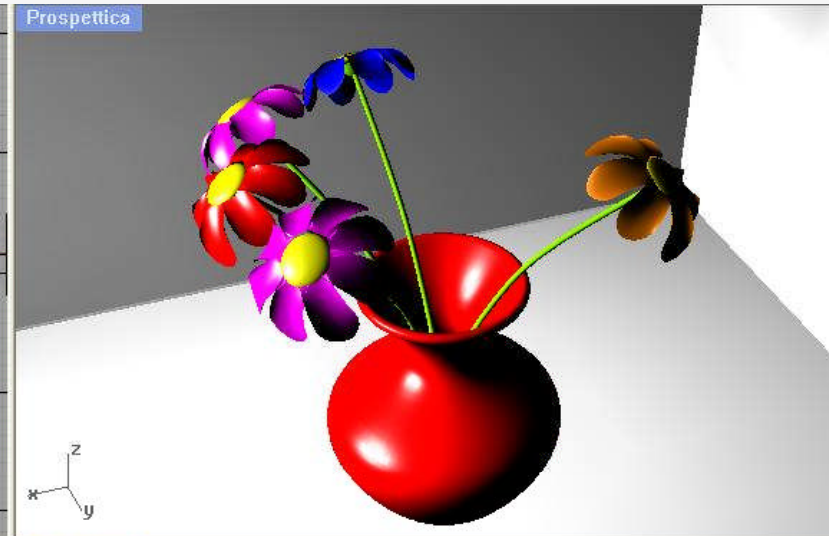
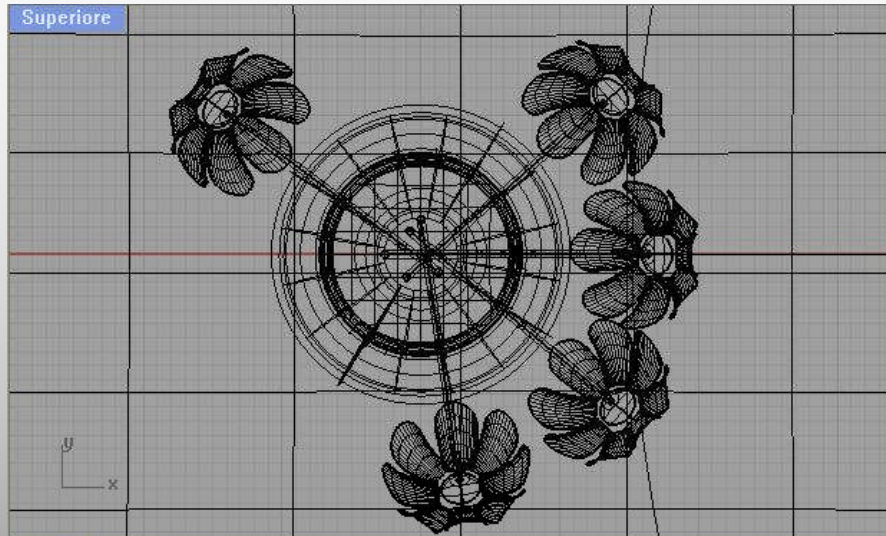


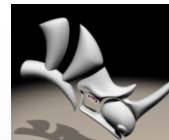
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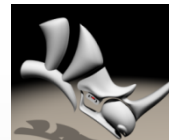
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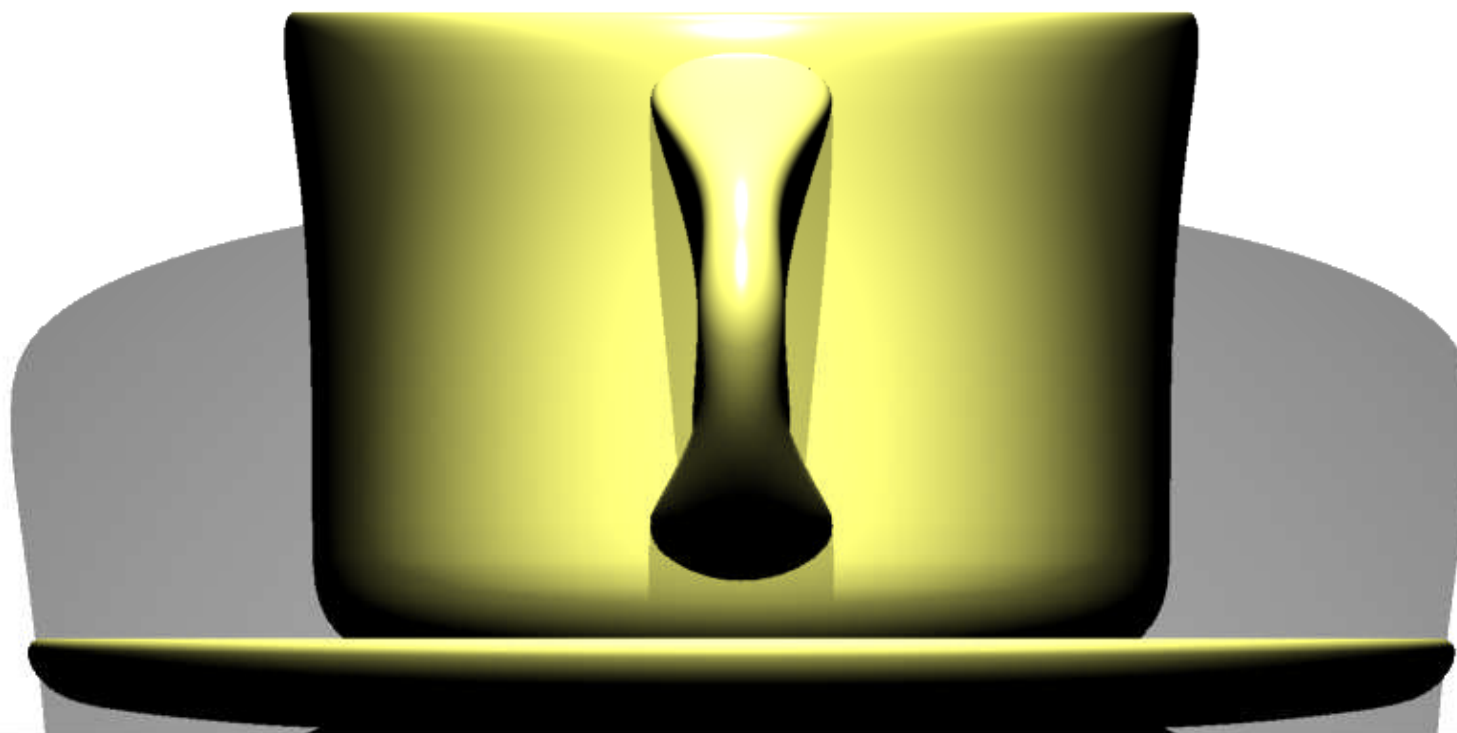


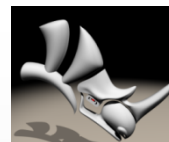
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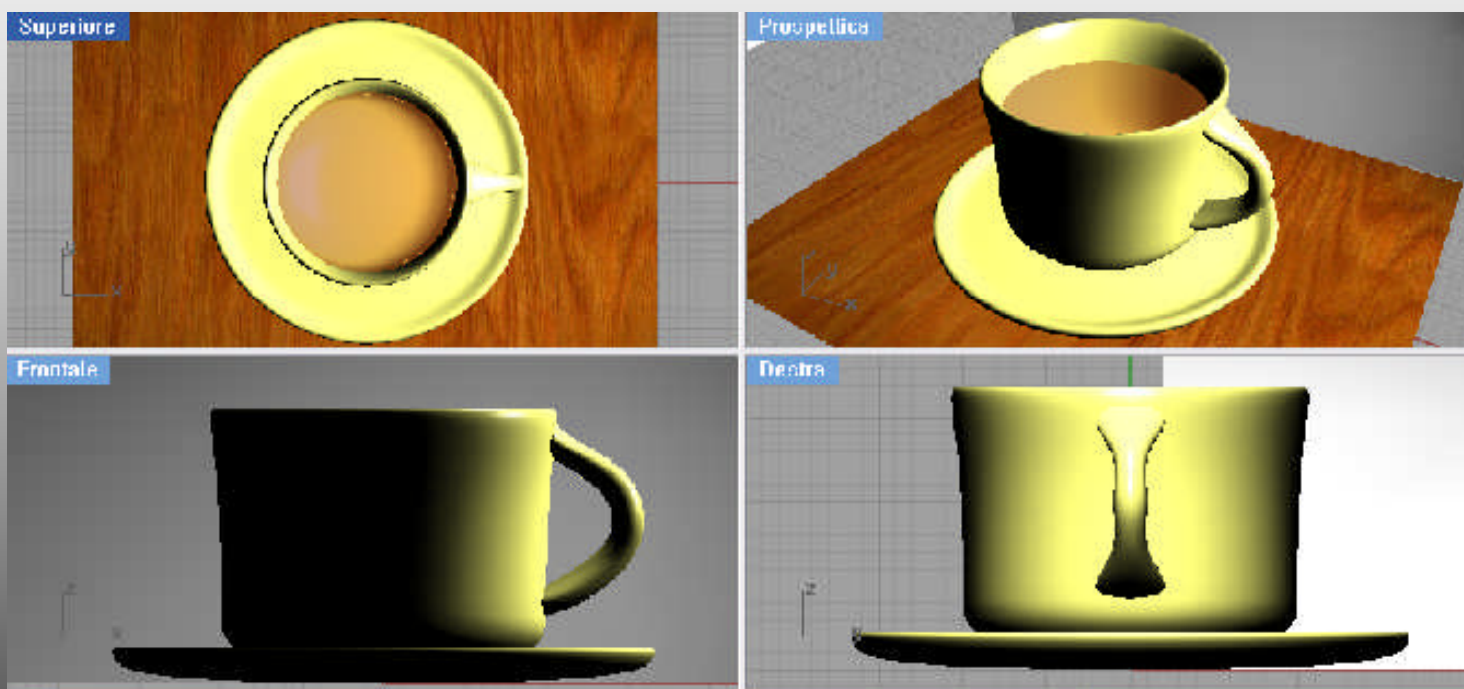


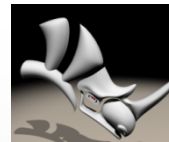
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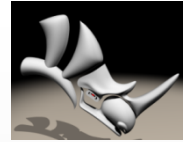
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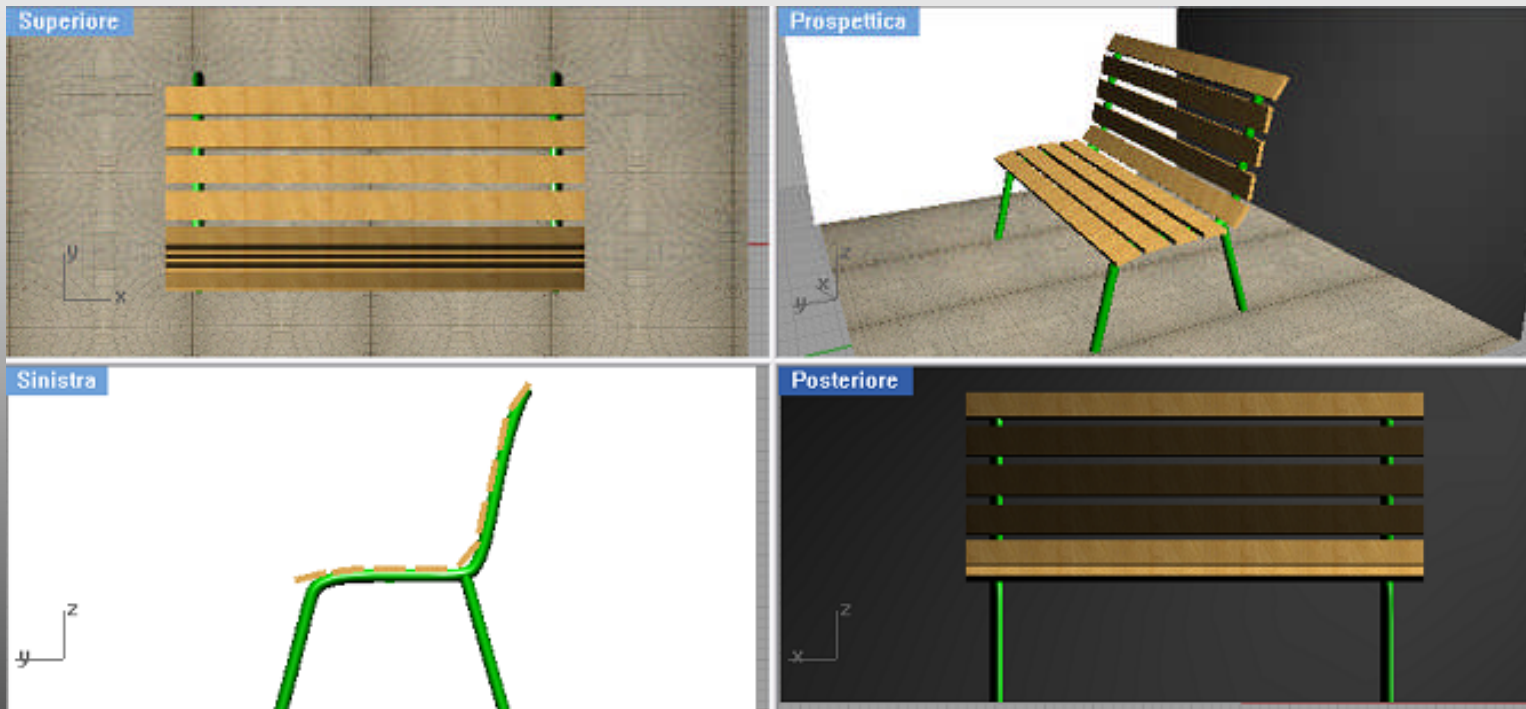


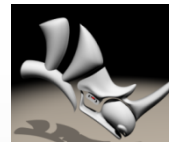
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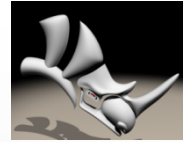
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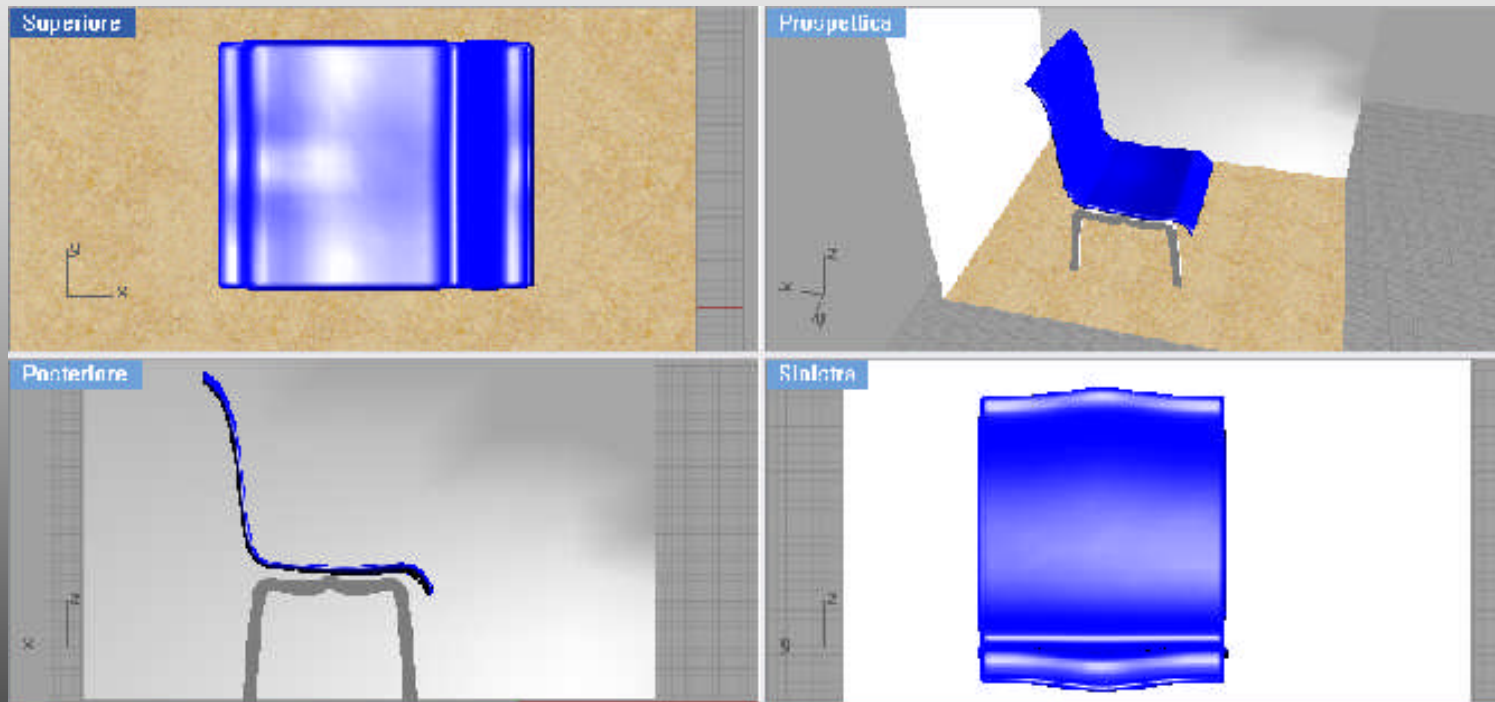


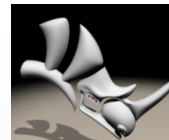
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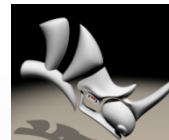
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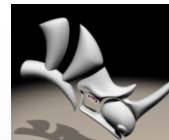
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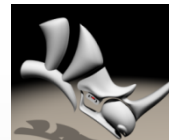
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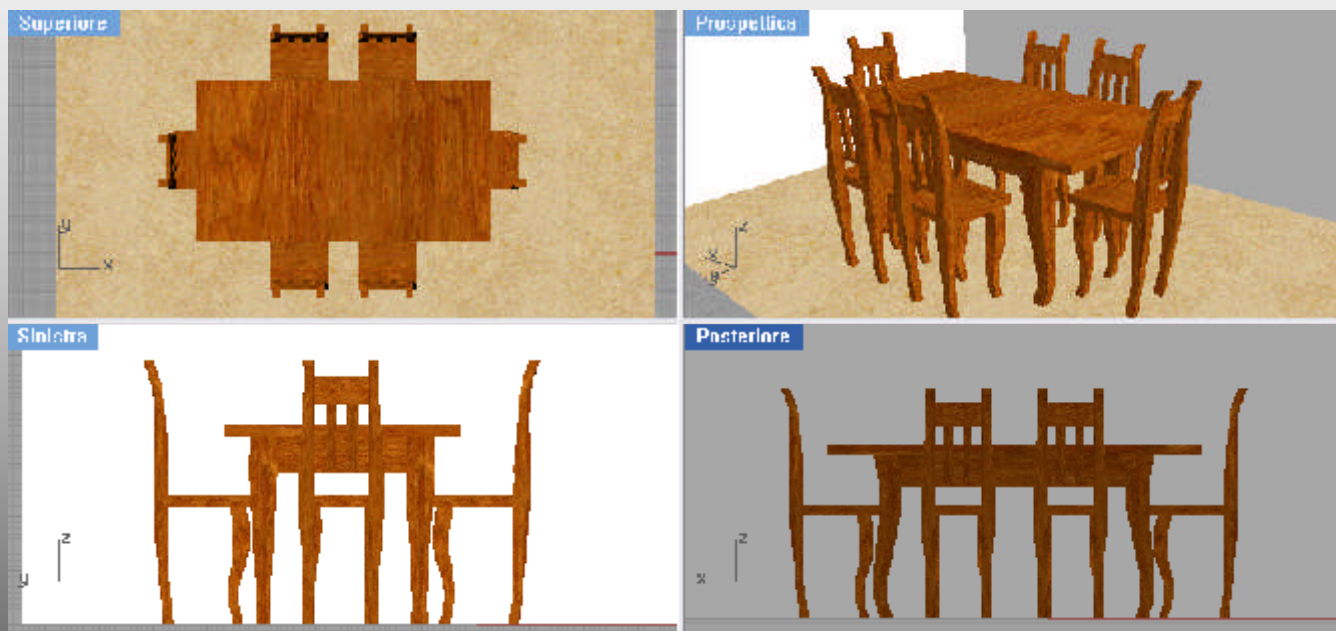


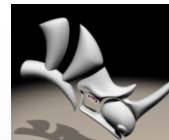
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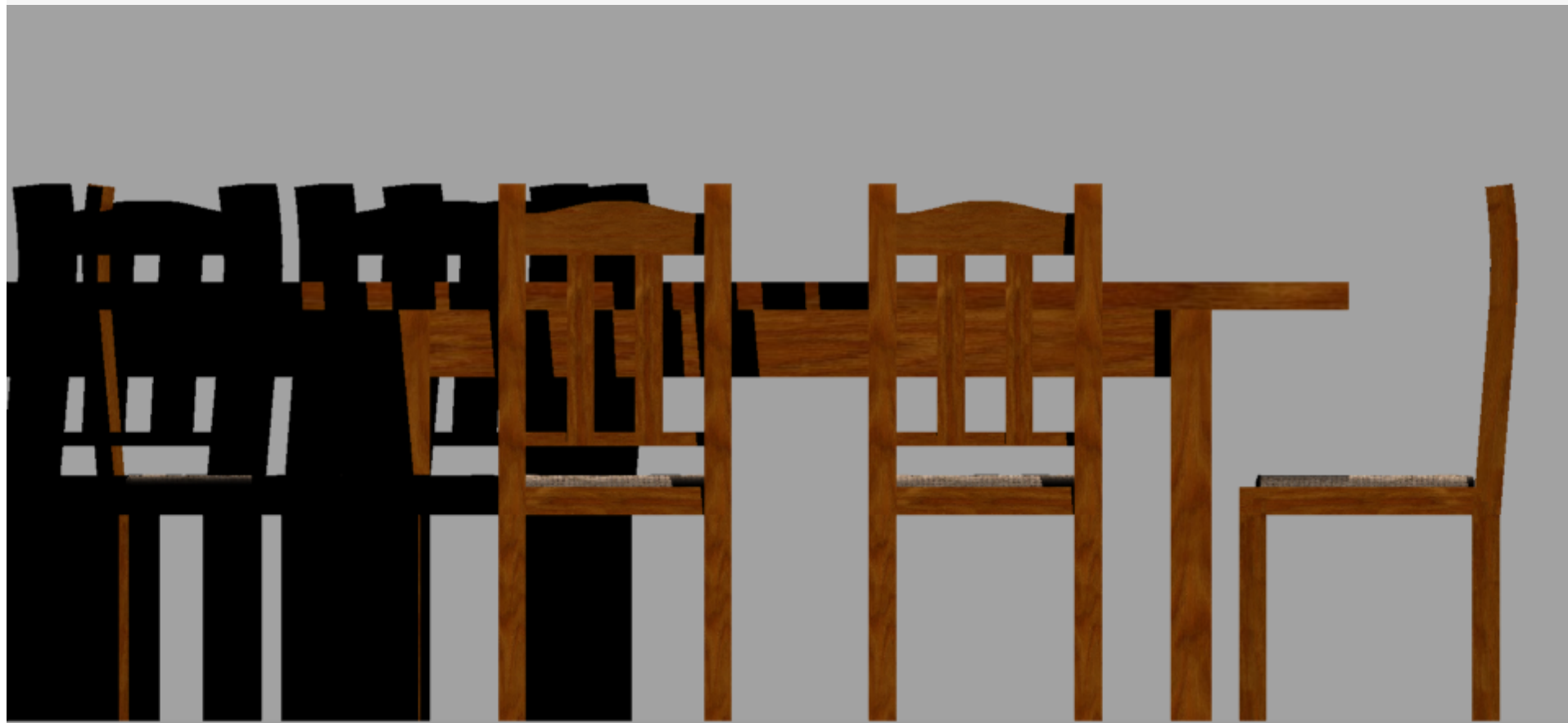


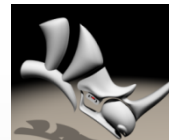
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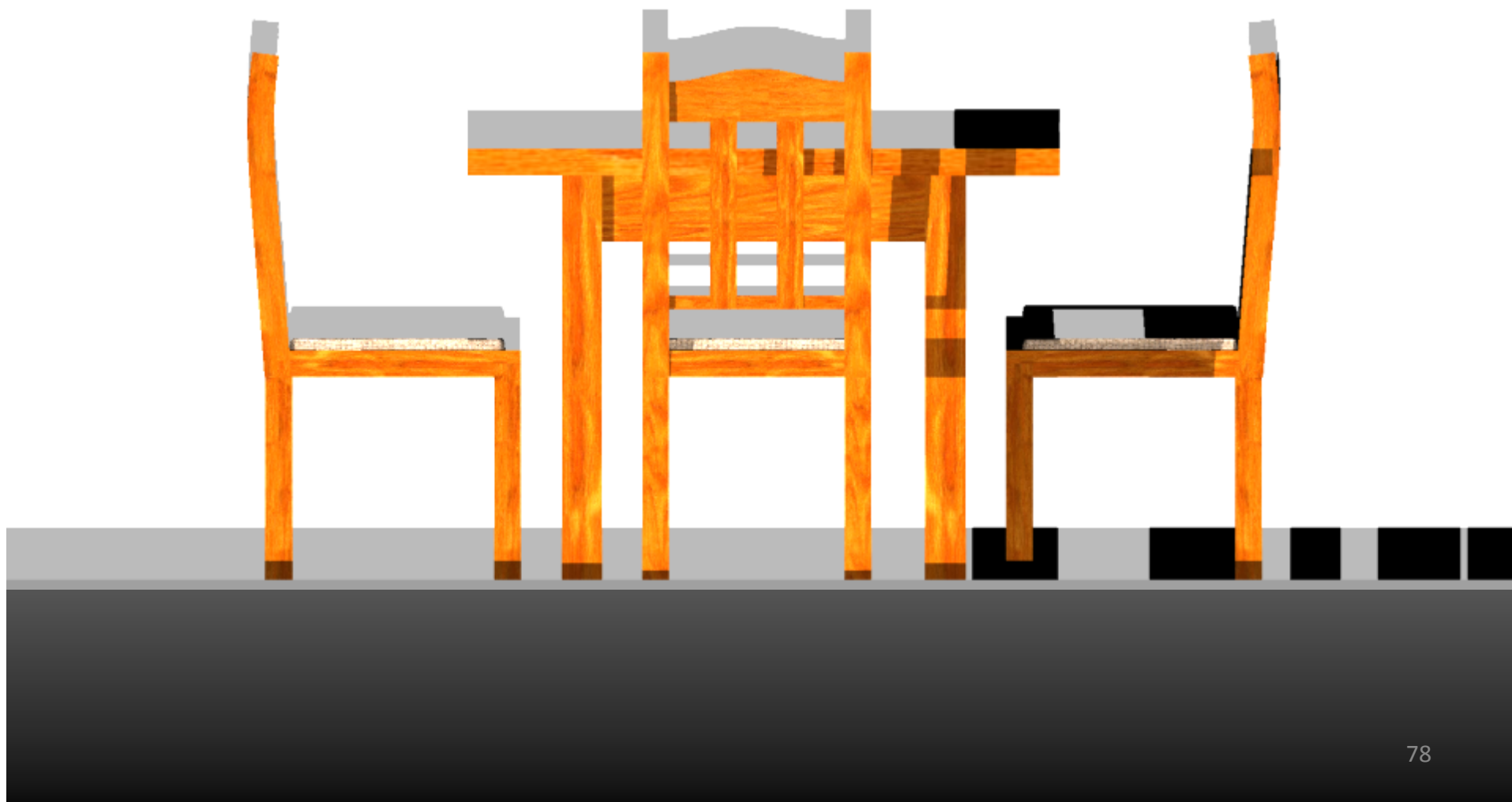


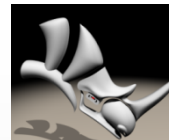
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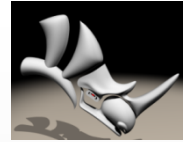
SVILUPPO DELLE COMPETENZE CAD ACQUISITE

Allievi della classe 4°B/Ar

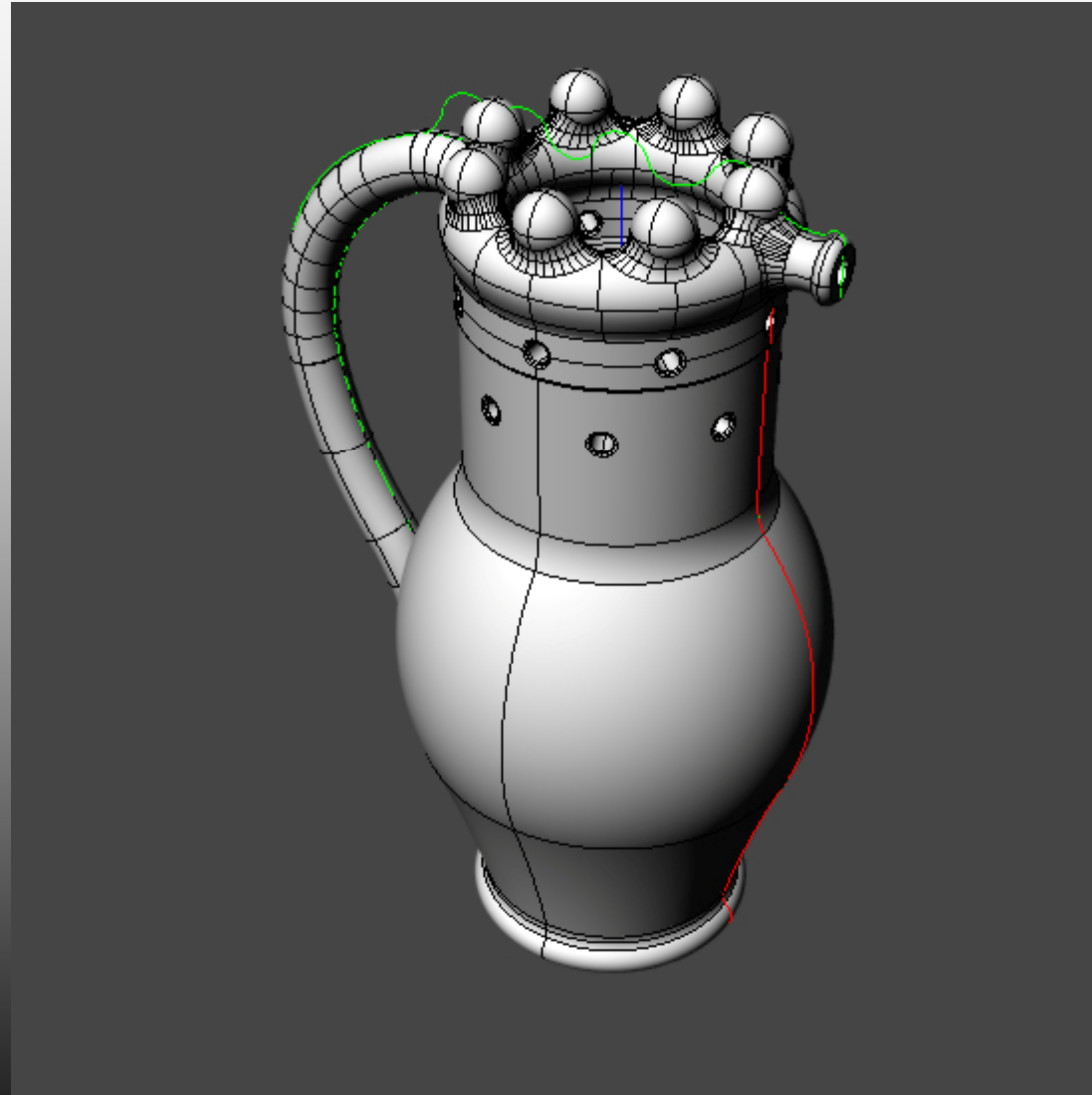
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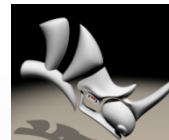
MATTEO PAGLIALONGA

SIMONE SCARDINO



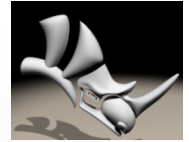
Perrone Davide





Perrone Davide

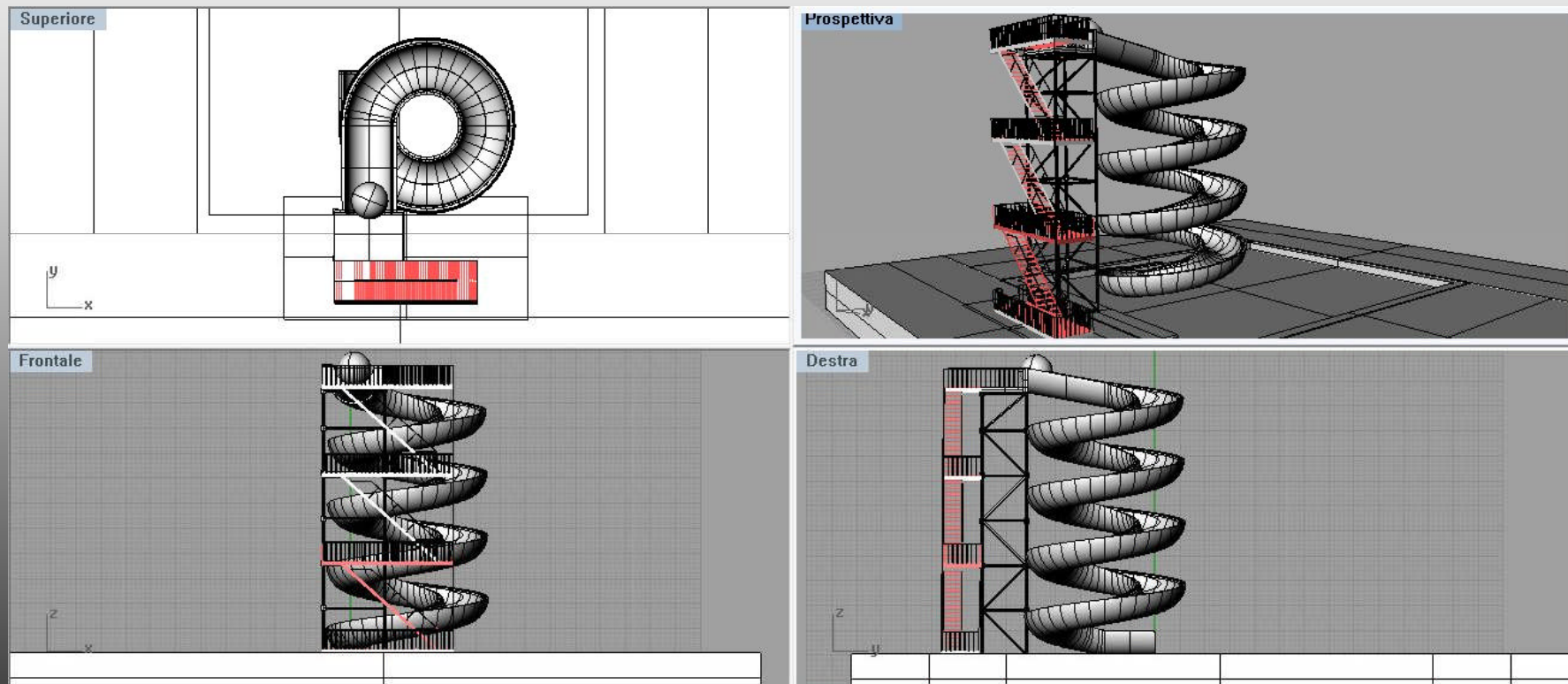
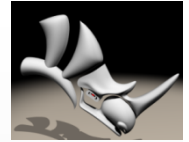




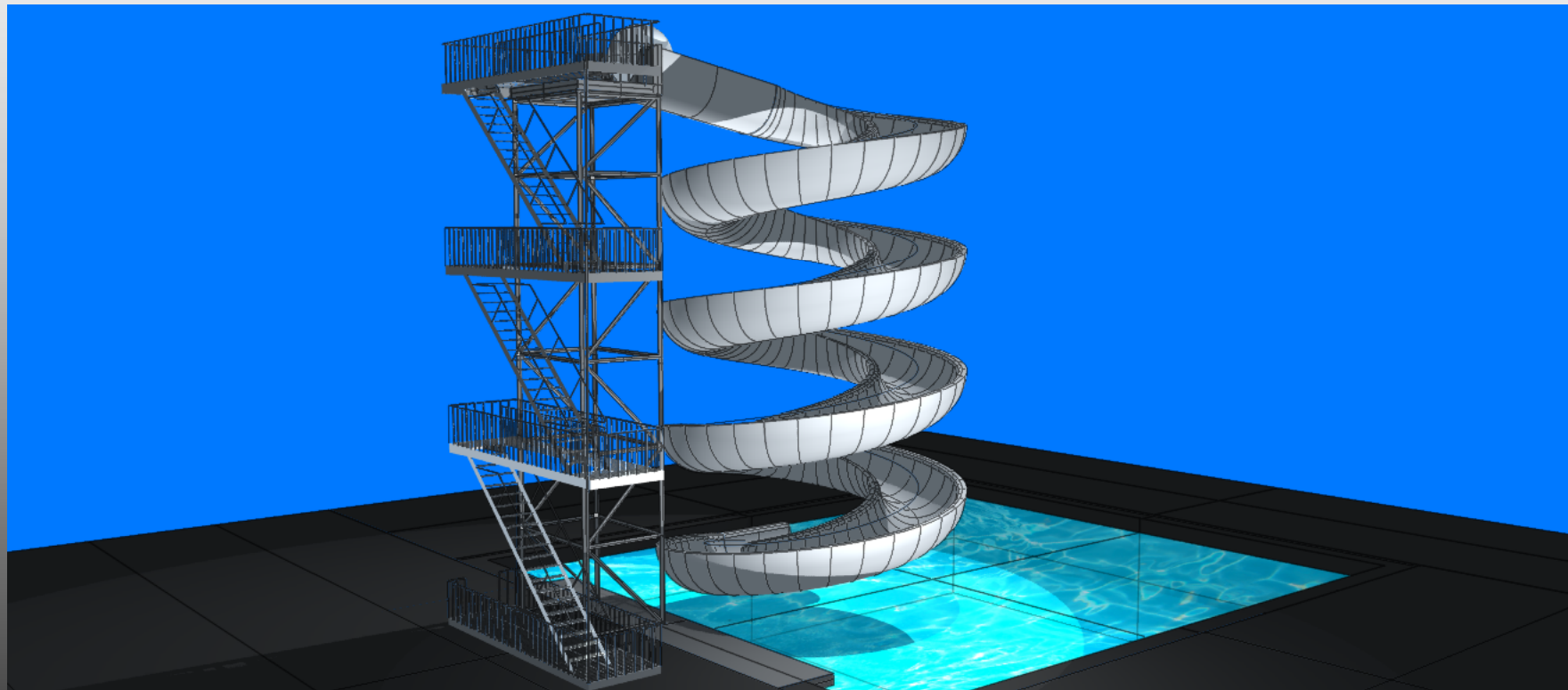
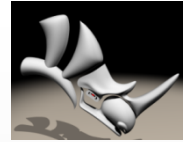
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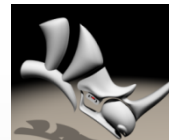


Paglialonga Matteo – Perrone Davide – Scardino Simone



Paglialonga Matteo – Perrone Davide – Scardino Simone





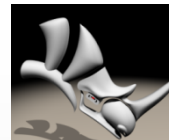
Classe: 4^a B

ANIMAZIONE TRIDIMENSIONALE 12

Anno: 2009 - 2010

Autore: DAVIDE PERRONE
Professore: arch. SERGIO VENTURA

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



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