

# CS451

# Ray Casting


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# Ray-Plane Sphere Intersection



- ▶ Detect intersection

- ▶ Intersection point

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# Ray-Plane Sphere Intersection

➤ Normal direction



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# Ray-Plane Intersection

- ▶ Detect intersection

- ▶ Intersection point

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# Ray-Triangle Intersection

- ▶ Detect intersection
    - ▶ Area of triangle
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# Ray-Triangle Intersection

- ▶ Degenerated cases
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