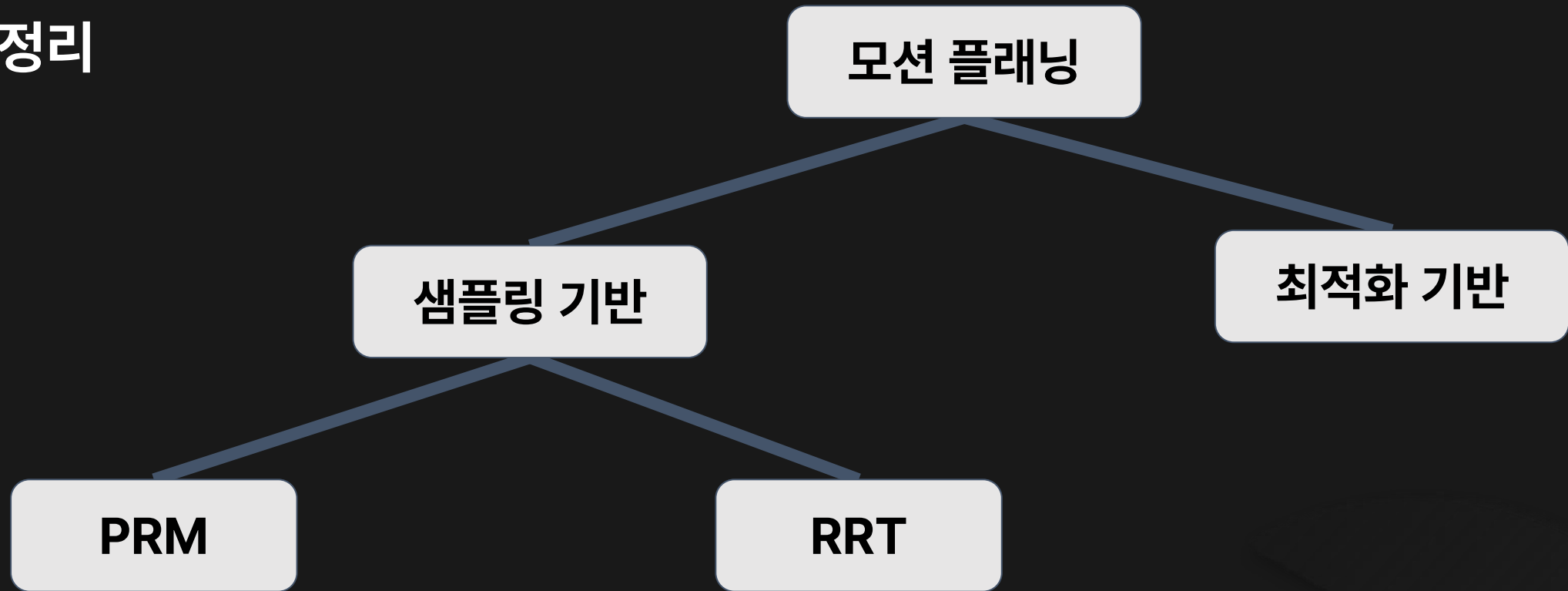
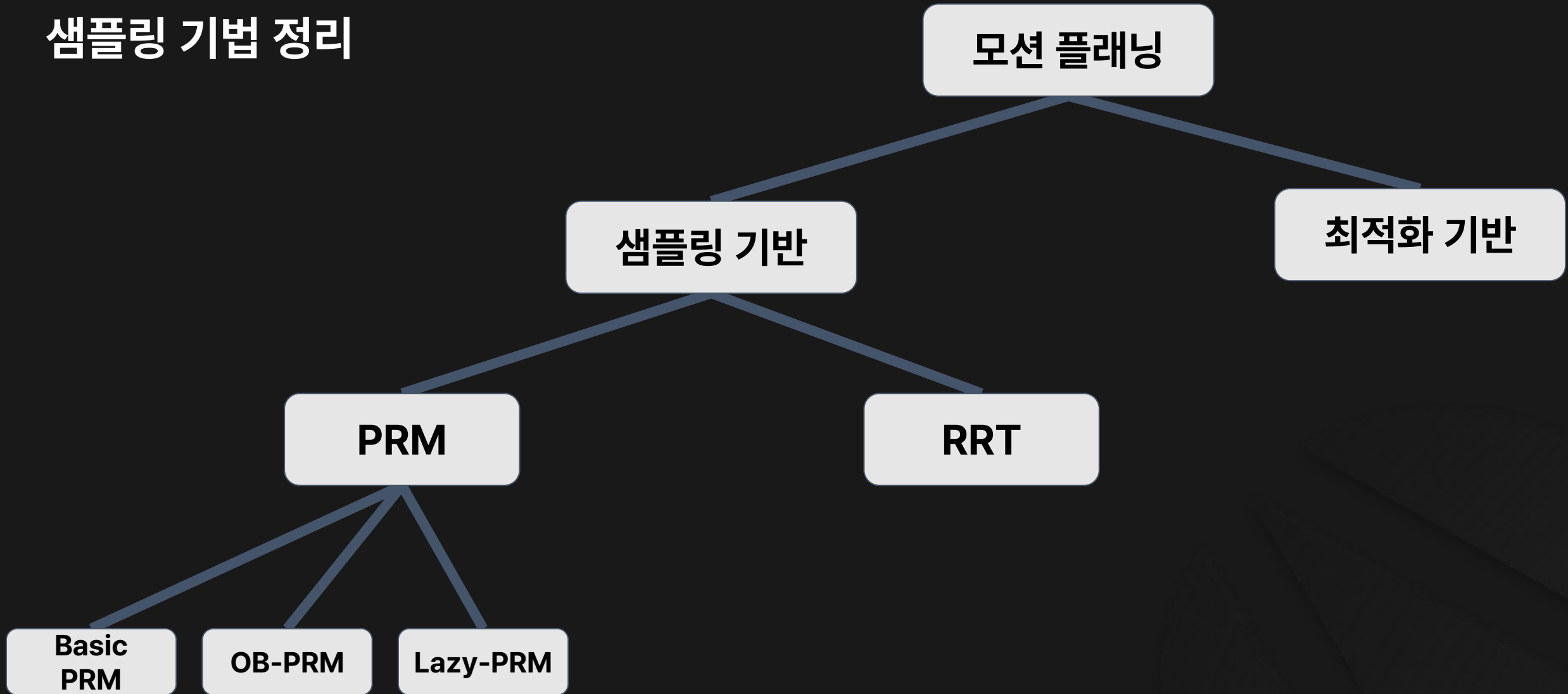


4-11 샘플링 기법 마무리

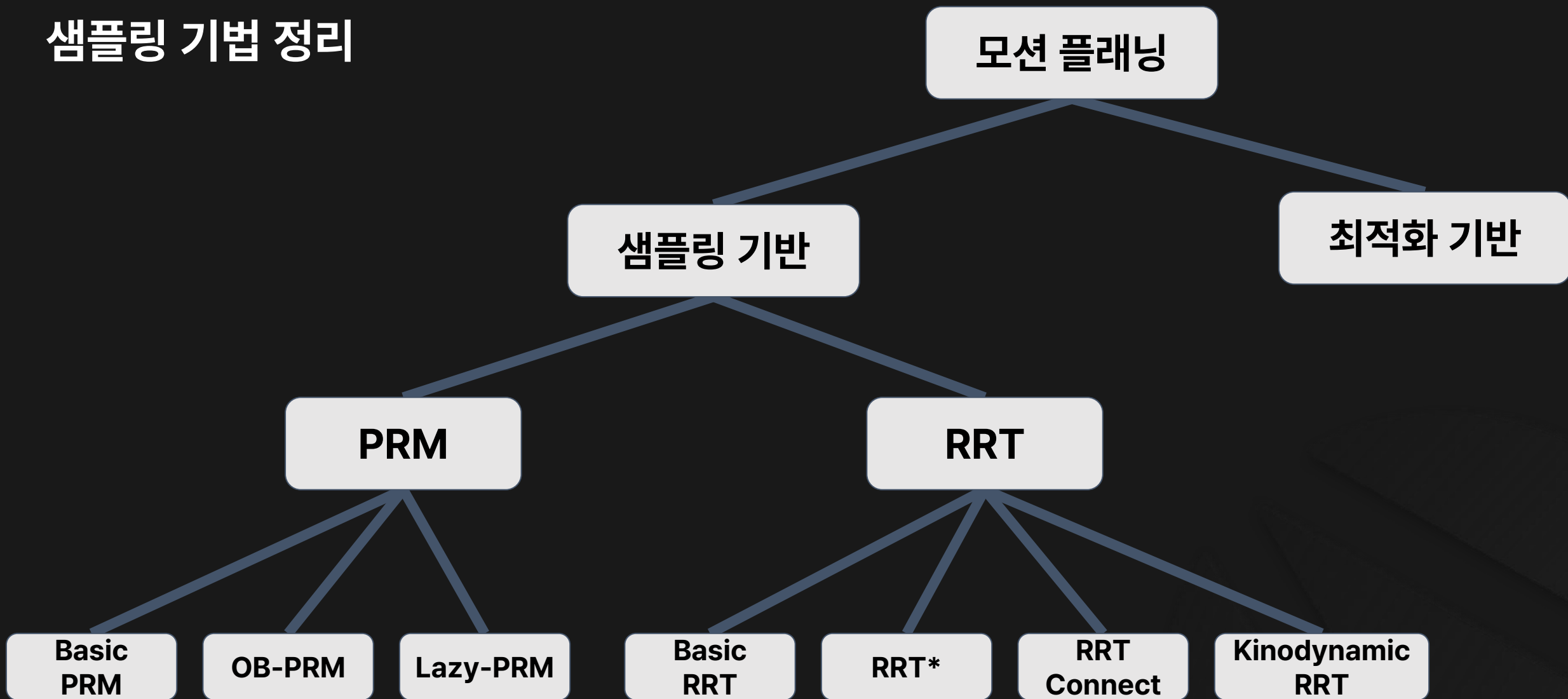
샘플링 기법 정리



샘플링 기법 정리

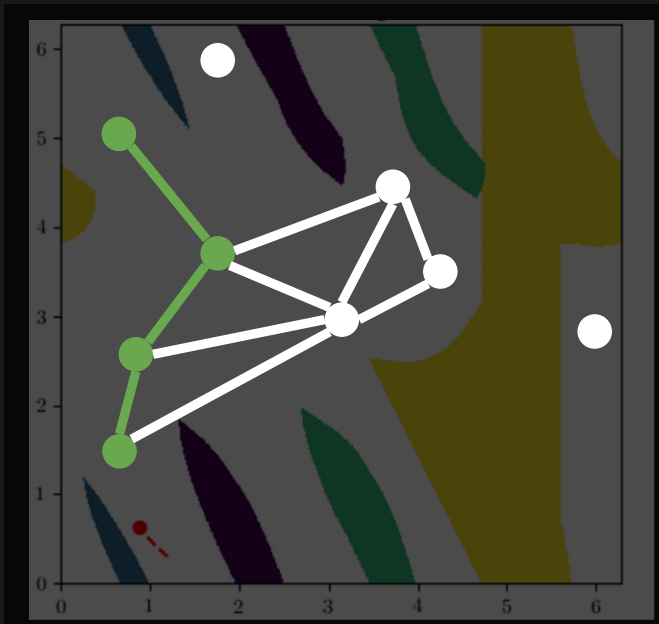


샘플링 기법 정리

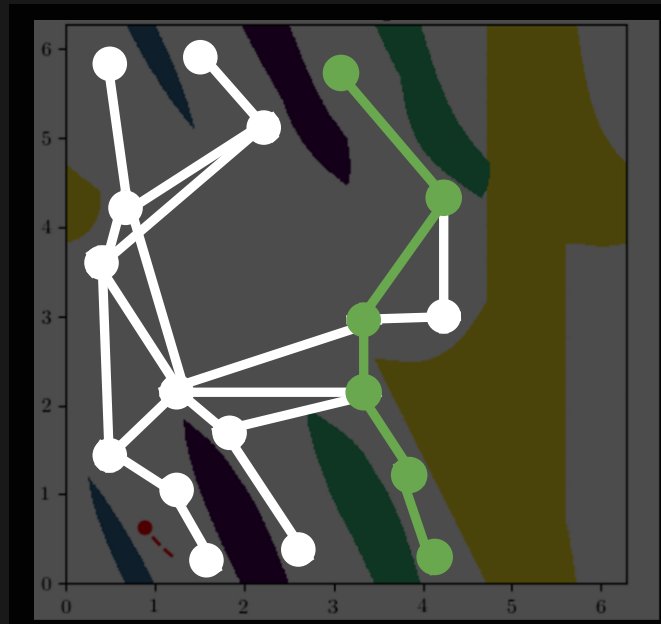


PRM, OB-PRM, Lazy-PRM

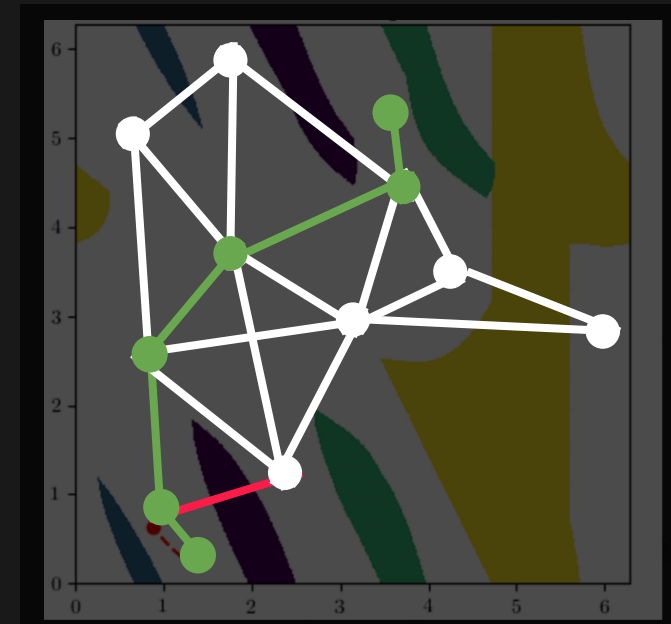
PRM



OB-PRM

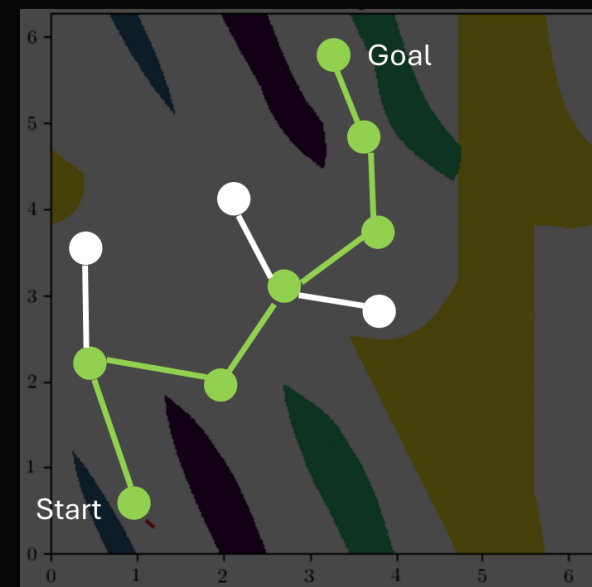


Lazy-PRM

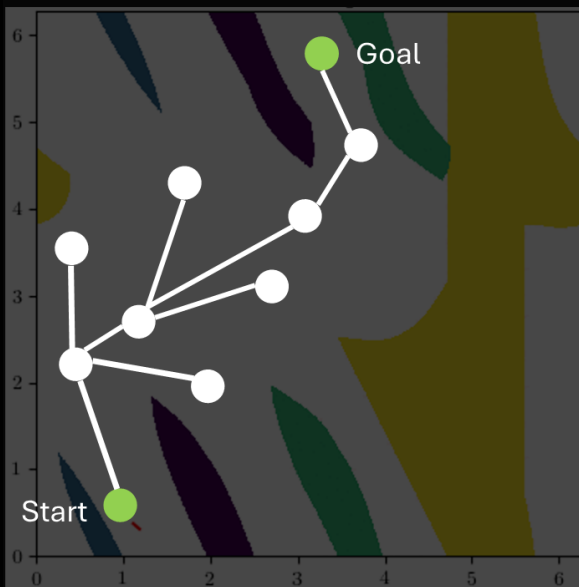


RRT, RRT*, RRT-Connect, Kinodynamic RRT

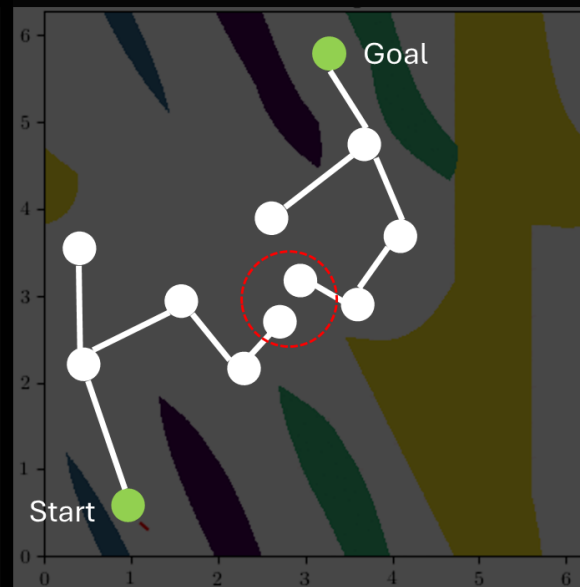
RRT



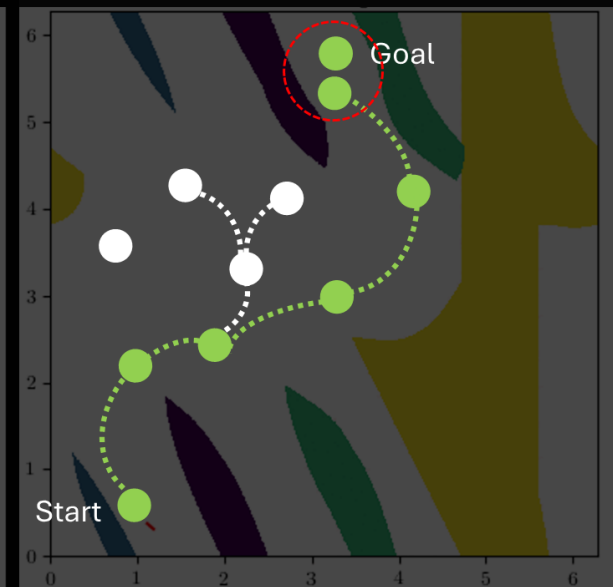
RRT*



RRT-Connect



Kinodynamic RRT



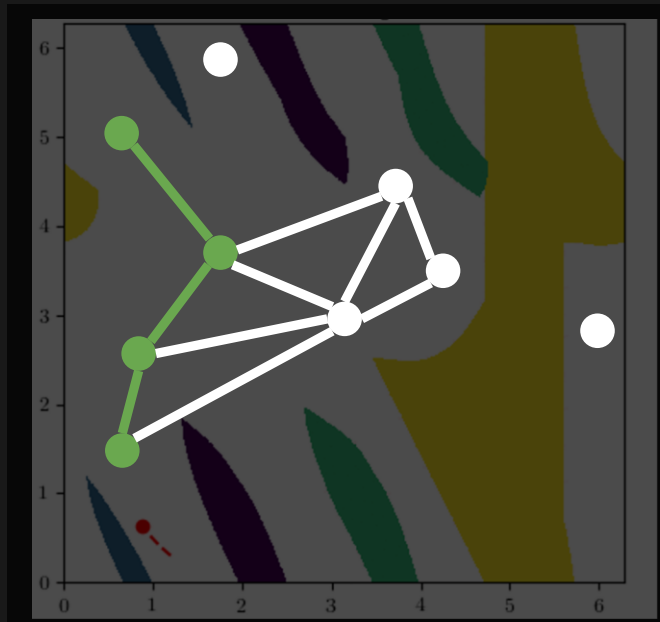
샘플링 기반 모션 플래닝

- Continuous & High-dimensional C-Space 를 효율적으로 근사
- Probabilistic Completeness
- Narrow Passage Problem
- 최적 솔루션을 보장하지 못함

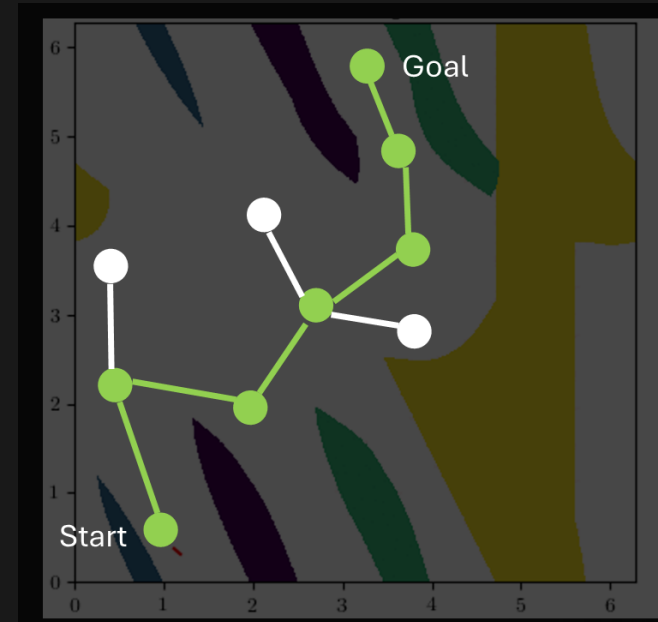
모션 퀄리티 향상 기법

- 솔루션 퀄리티가 떨어지는 이유

PRM



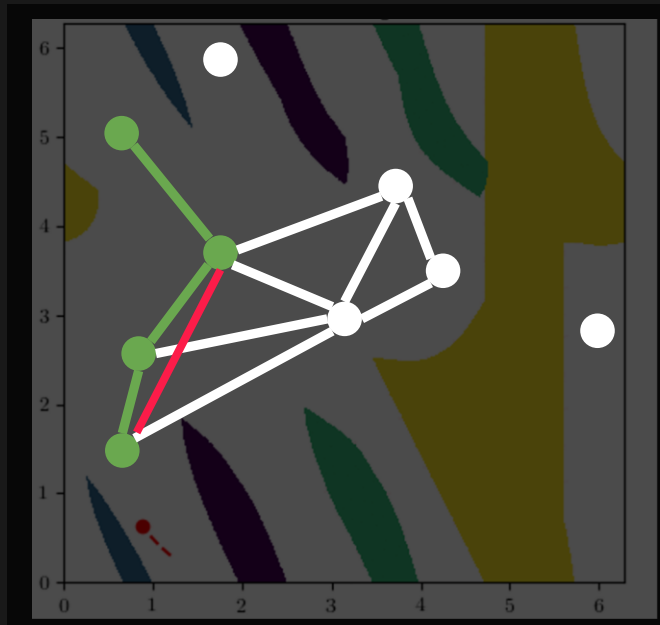
RRT



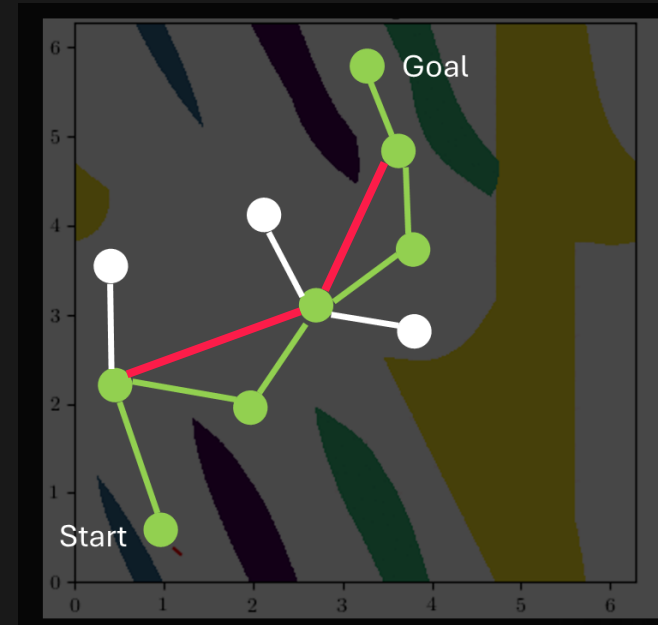
모션 퀄리티 향상 기법

- 솔루션 퀄리티가 떨어지는 이유

PRM



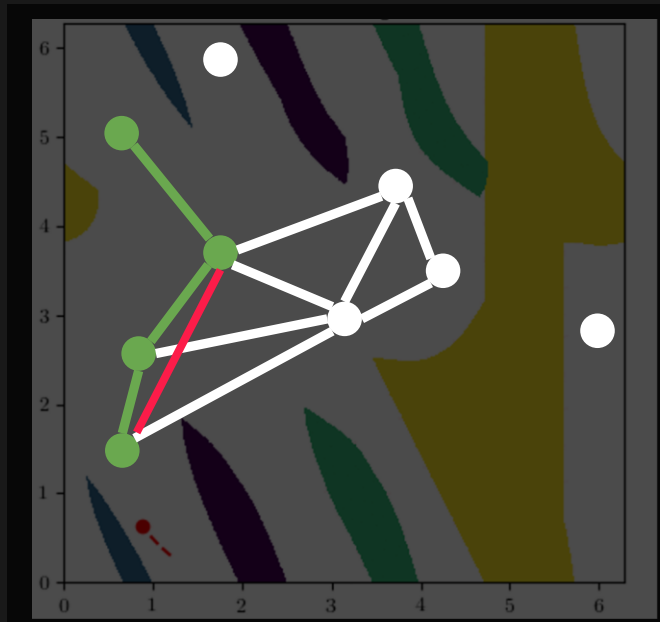
RRT



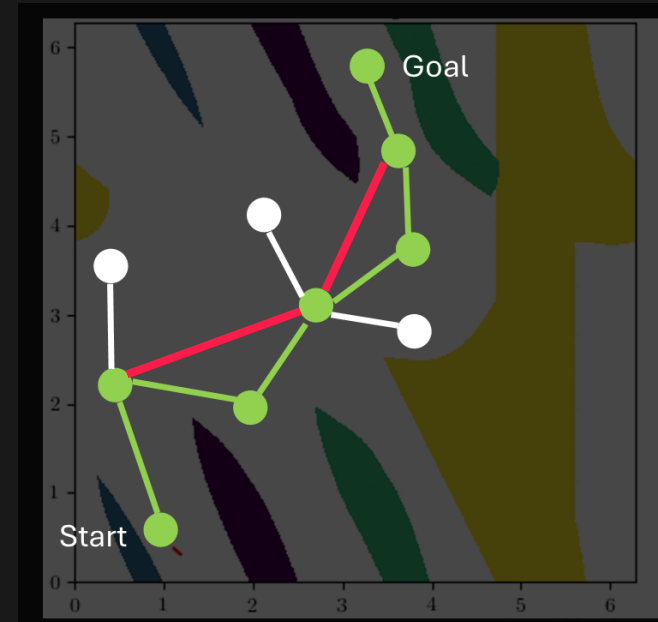
모션 퀄리티 향상 기법

- Path Shortcutting 기법

PRM



RRT



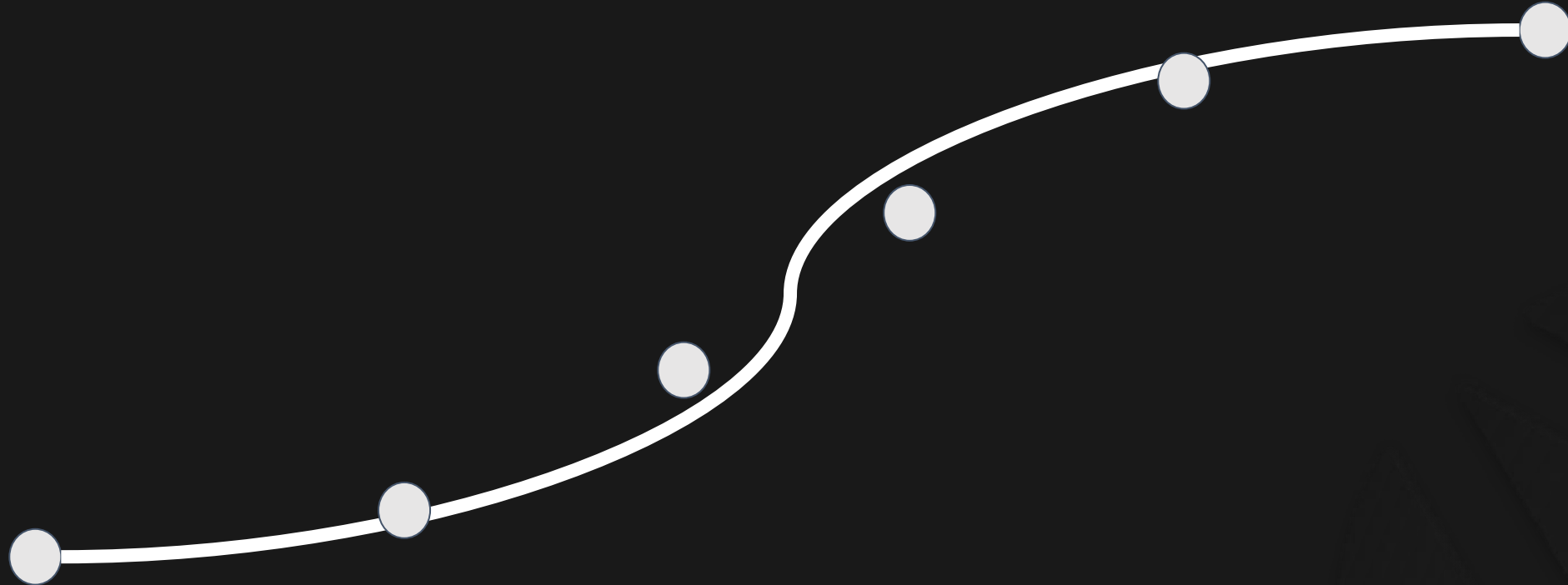
모션 퀄리티 향상 기법

- Path Shortcutting 기법



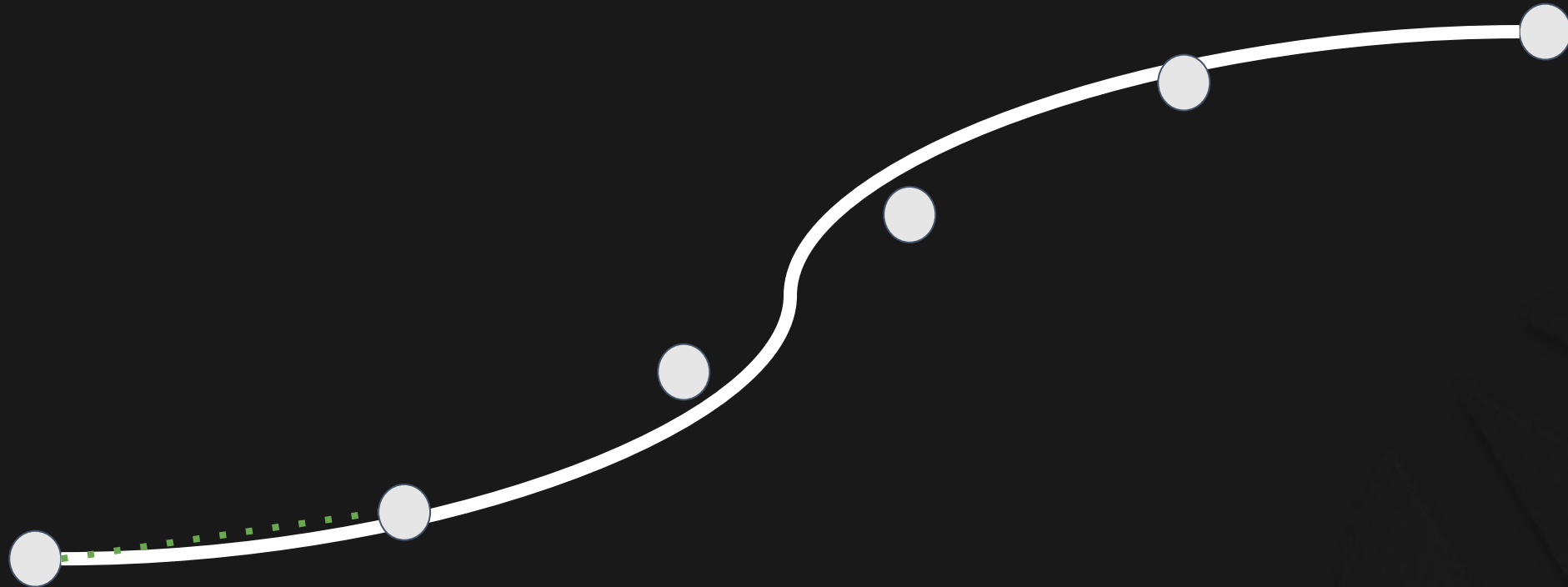
모션 퀄리티 향상 기법

- Path Shortcutting 기법



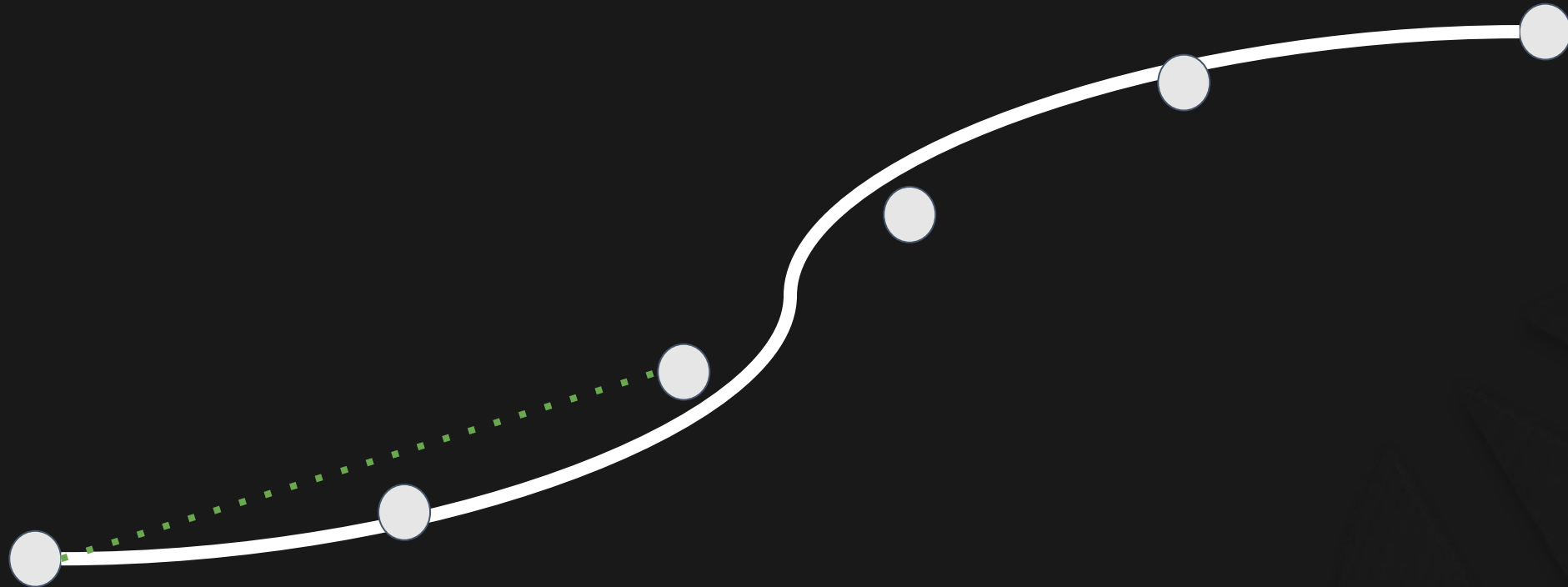
모션 퀄리티 향상 기법

- Path Shortcutting 기법



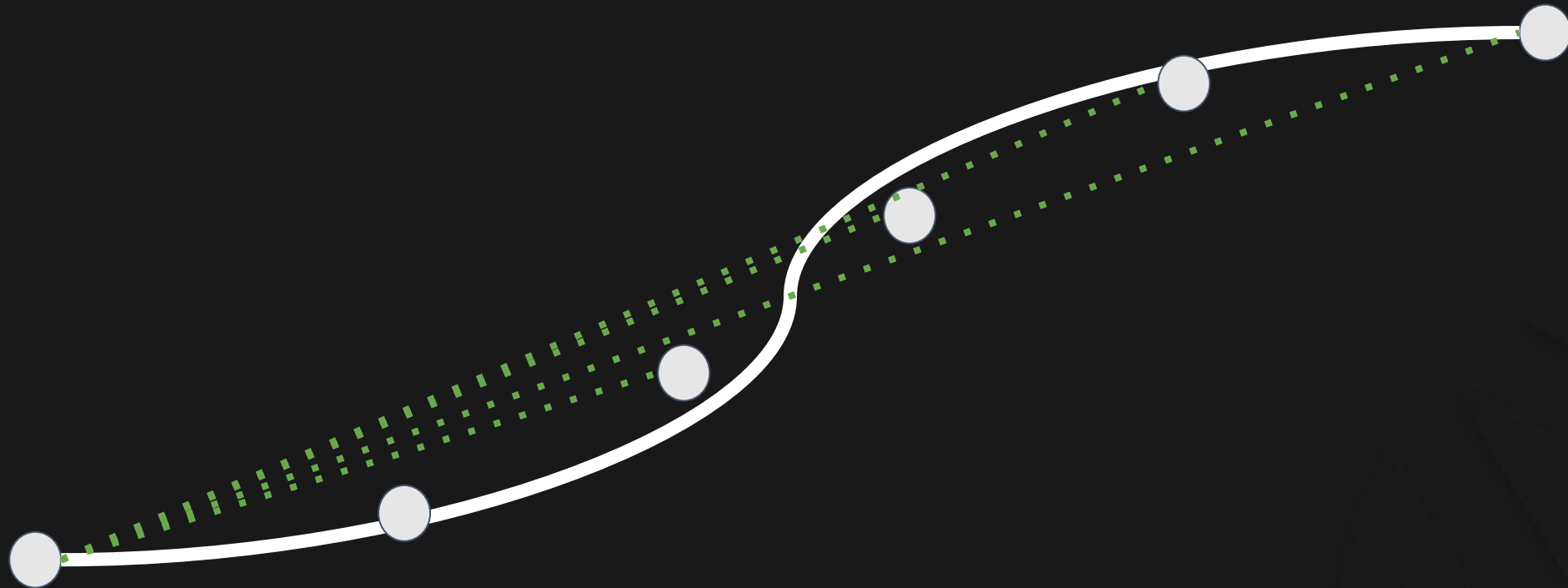
모션 퀄리티 향상 기법

- Path Shortcutting 기법



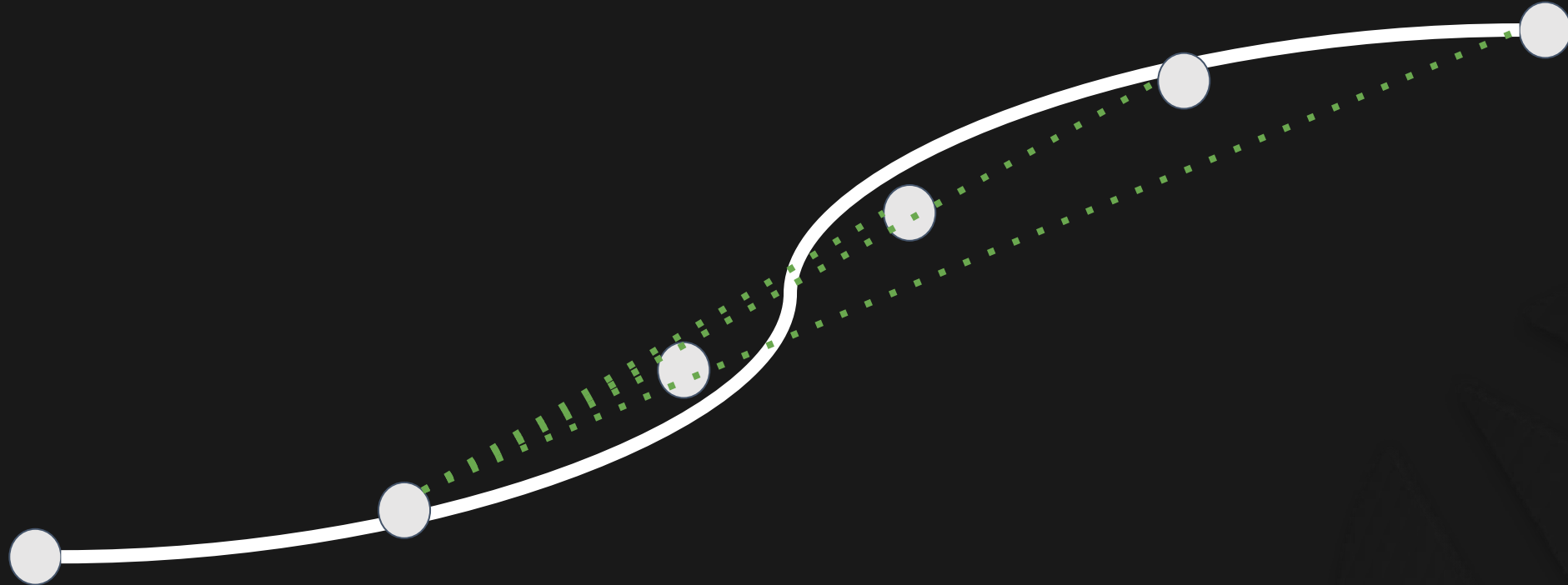
모션 퀄리티 향상 기법

- Path Shortcutting 기법



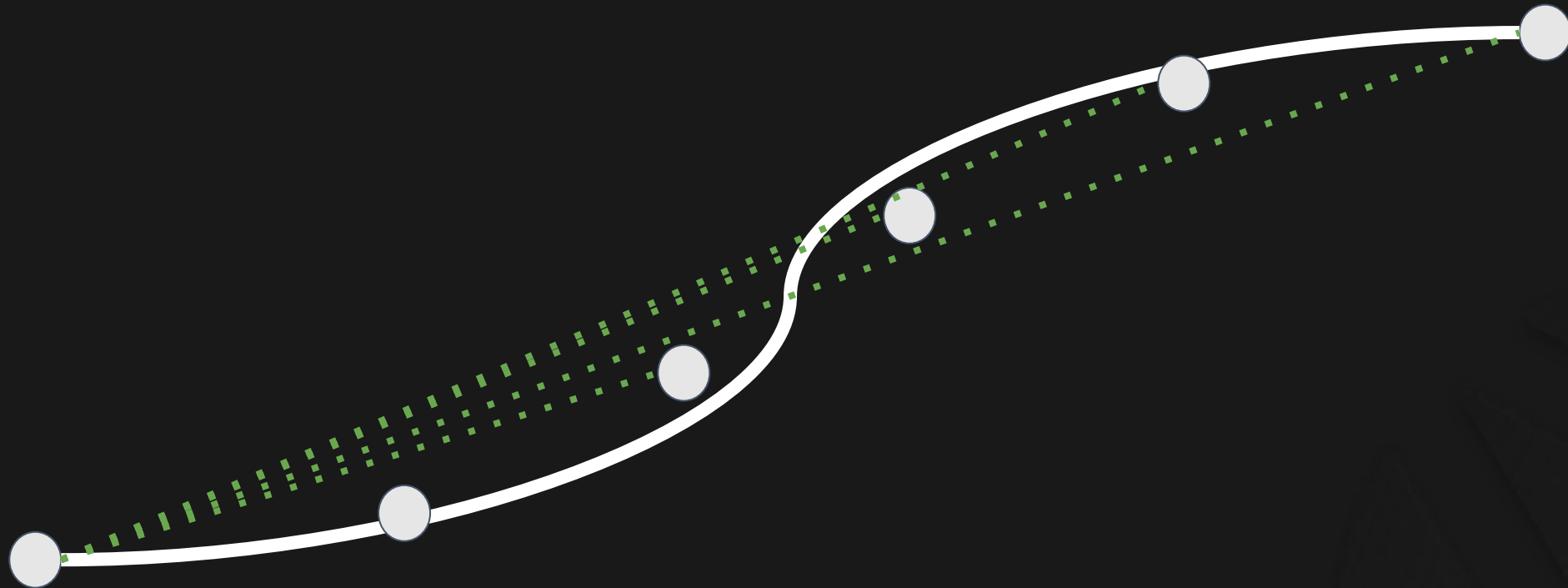
모션 퀄리티 향상 기법

- Path Shortcutting 기법



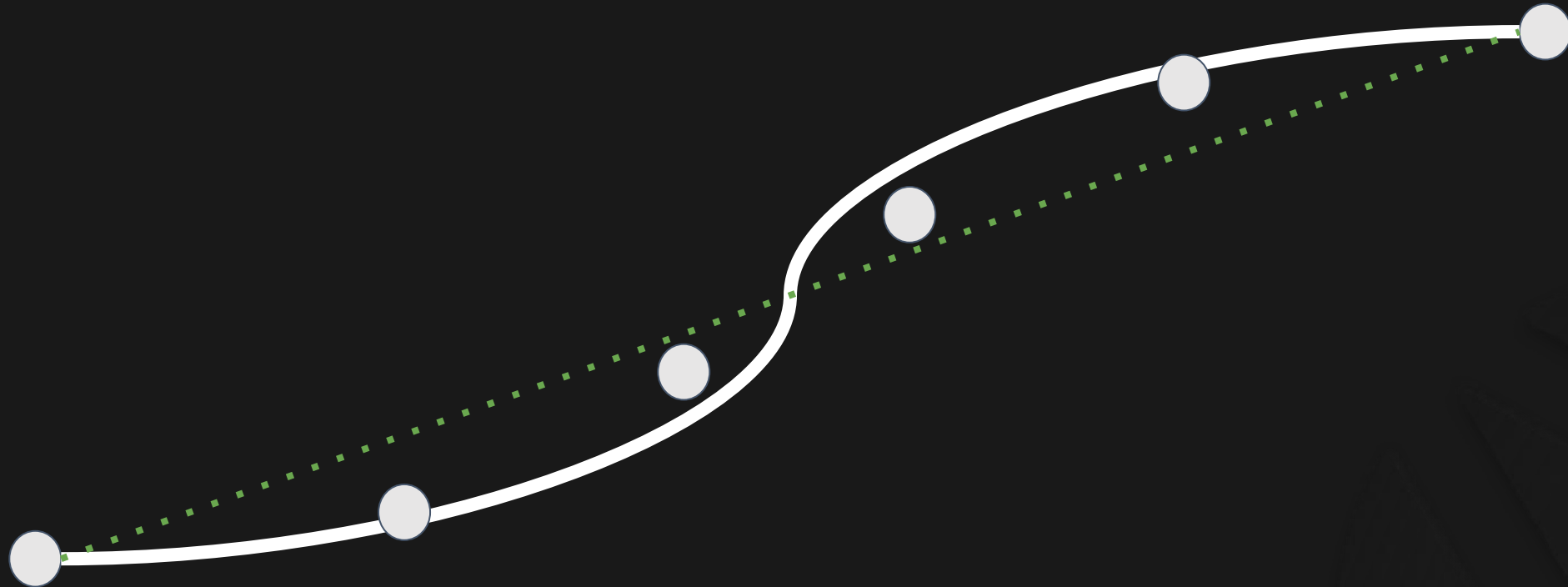
모션 퀄리티 향상 기법

- Path Shortcutting 기법



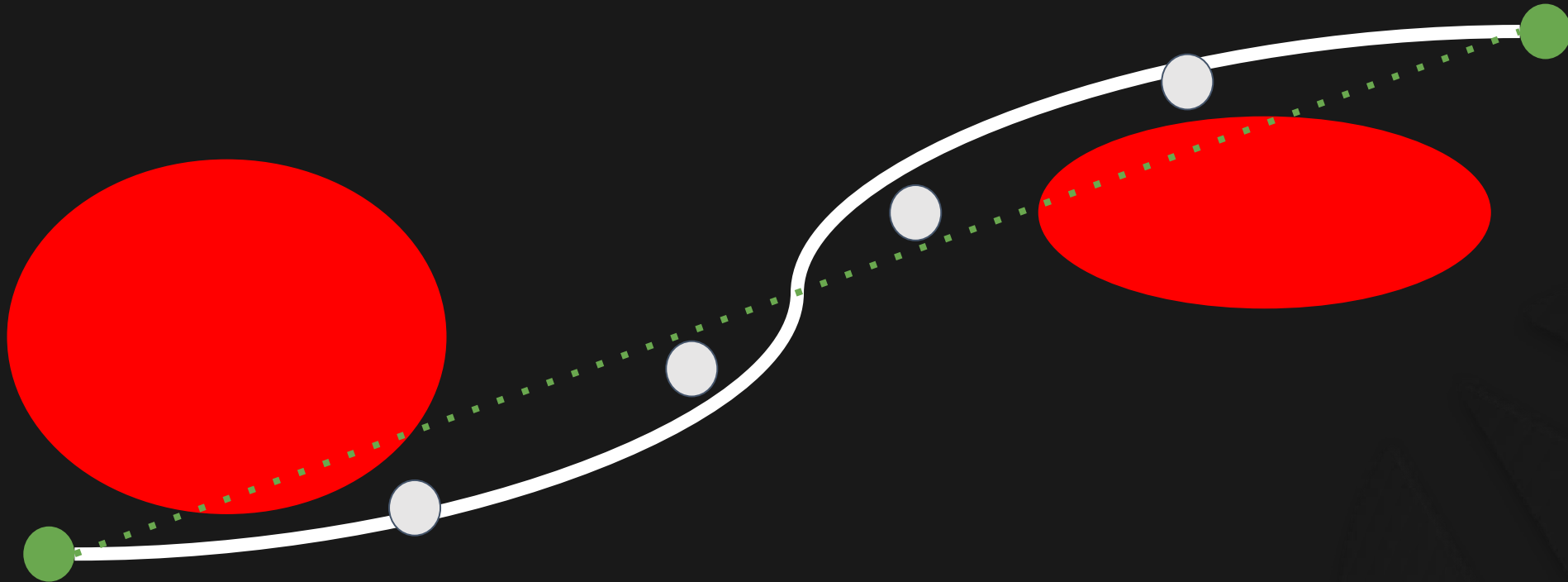
모션 퀄리티 향상 기법

- Path Shortcutting 기법



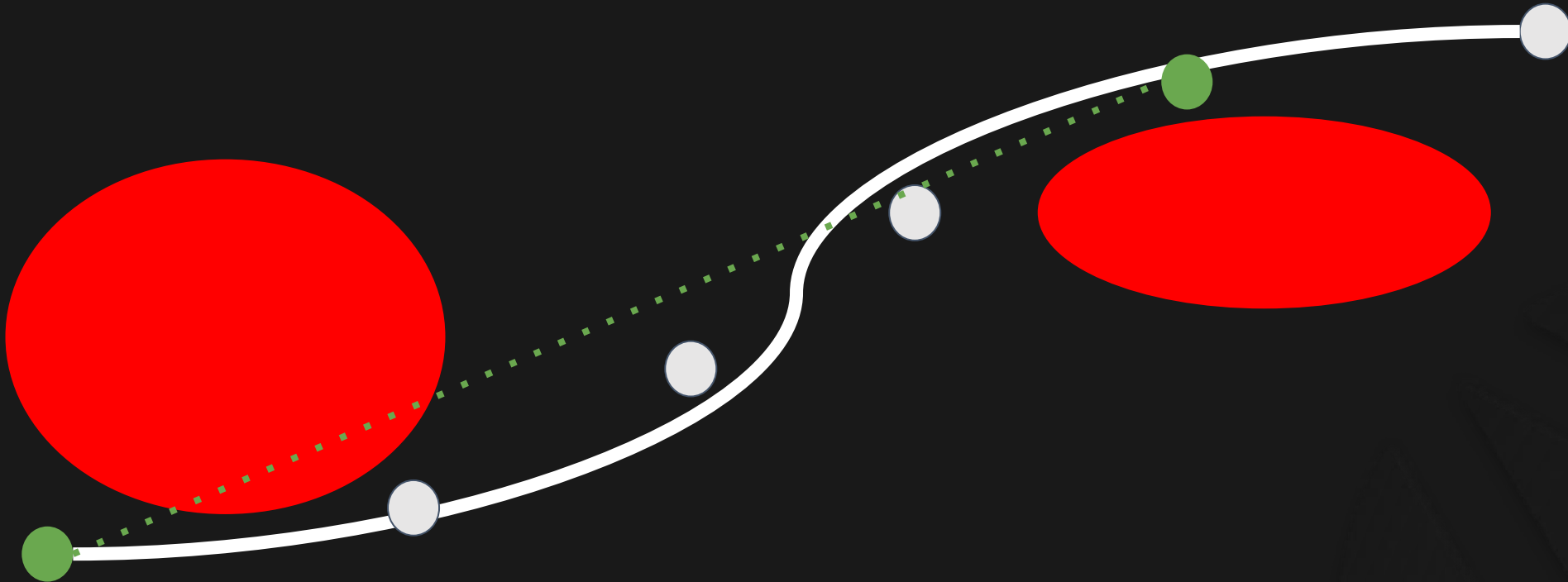
모션 퀄리티 향상 기법

- Path Shortcutting 기법



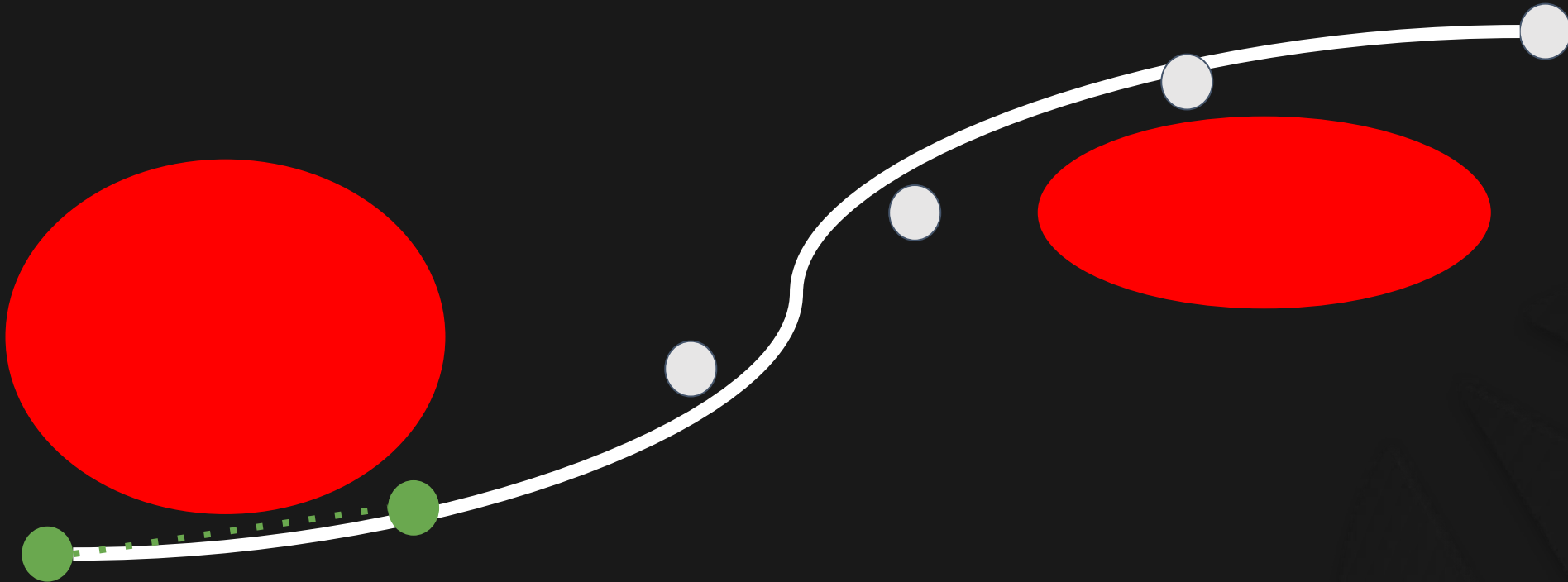
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- Path Shortcutting 기법



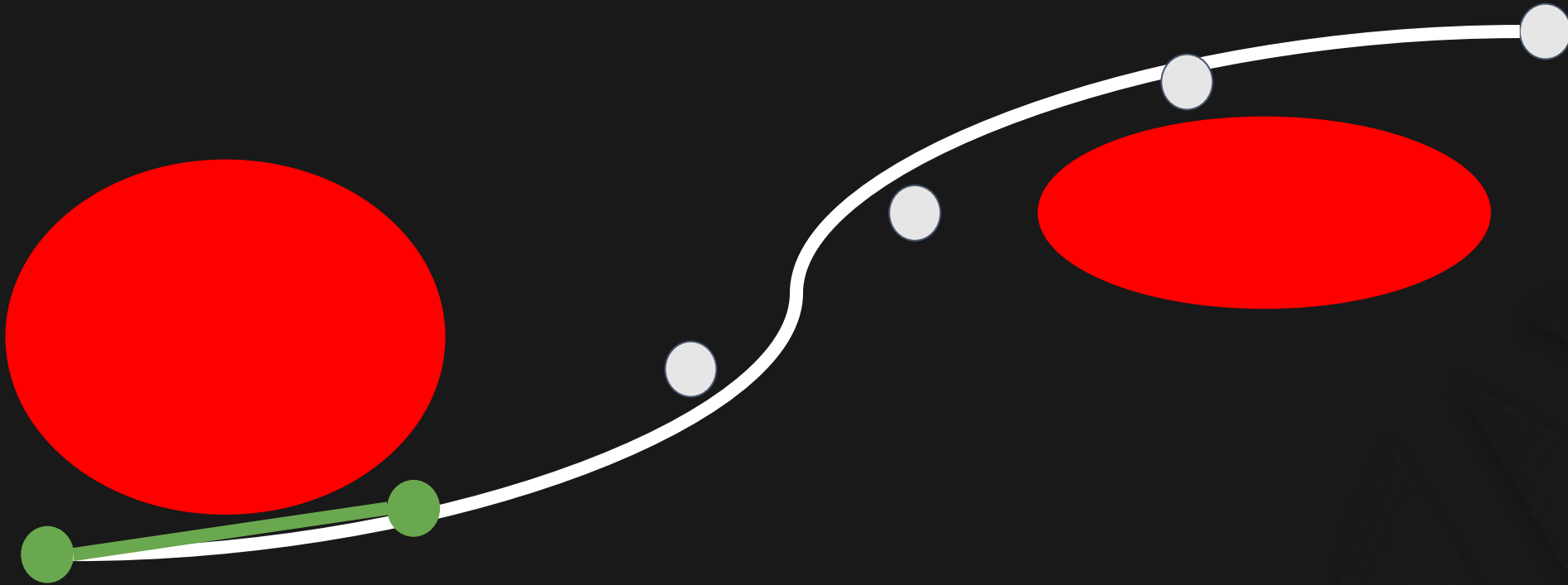
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- Path Shortcutting 기법



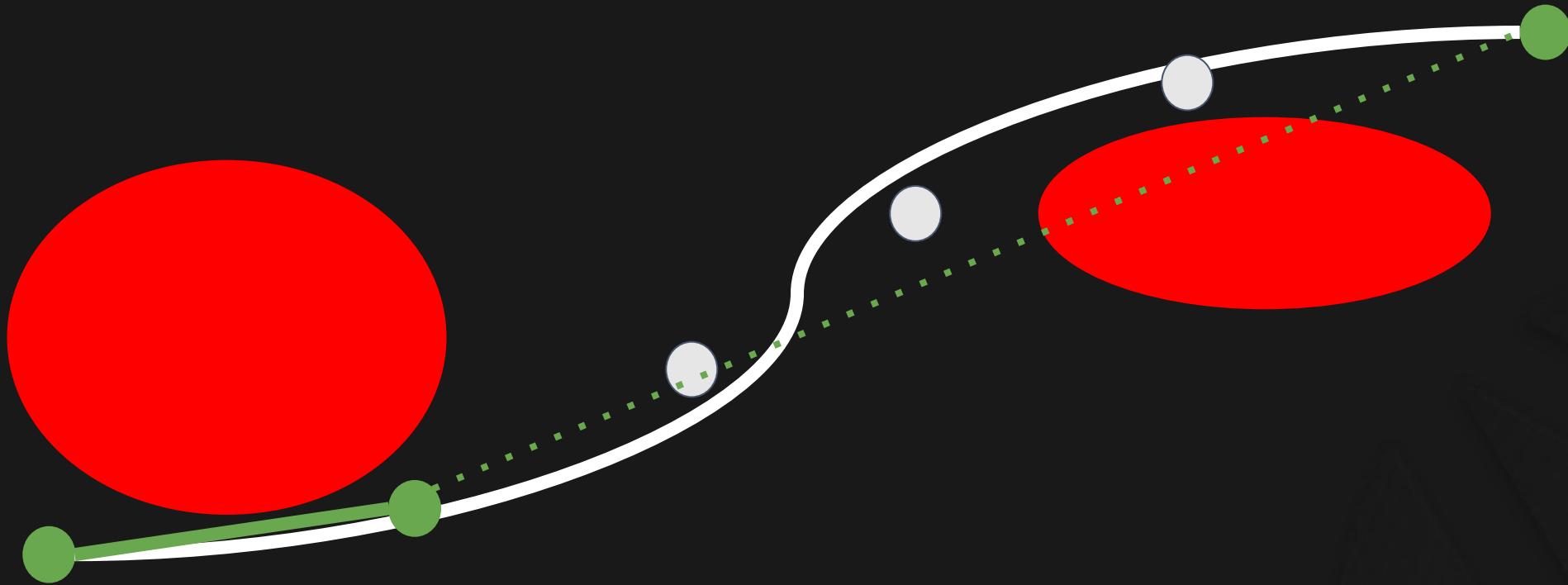
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- Path Shortcutting 기법



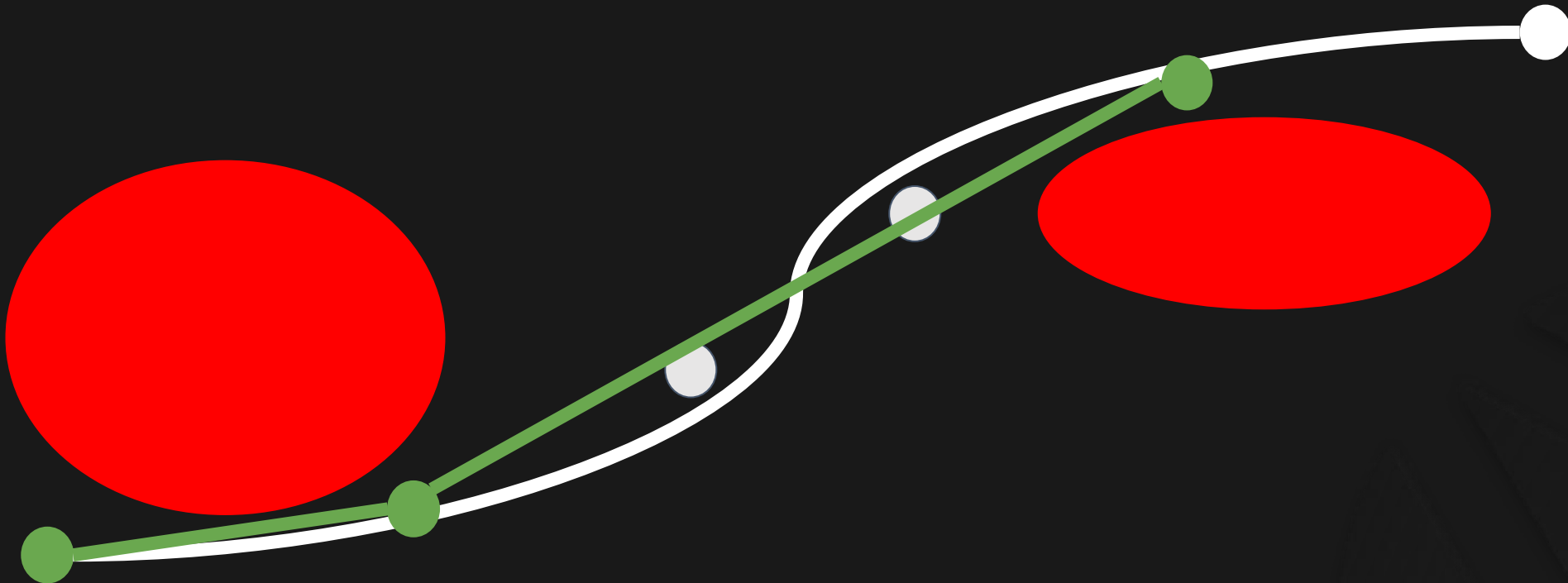
모션 퀄리티 향상 기법

- Path Shortcutting 기법



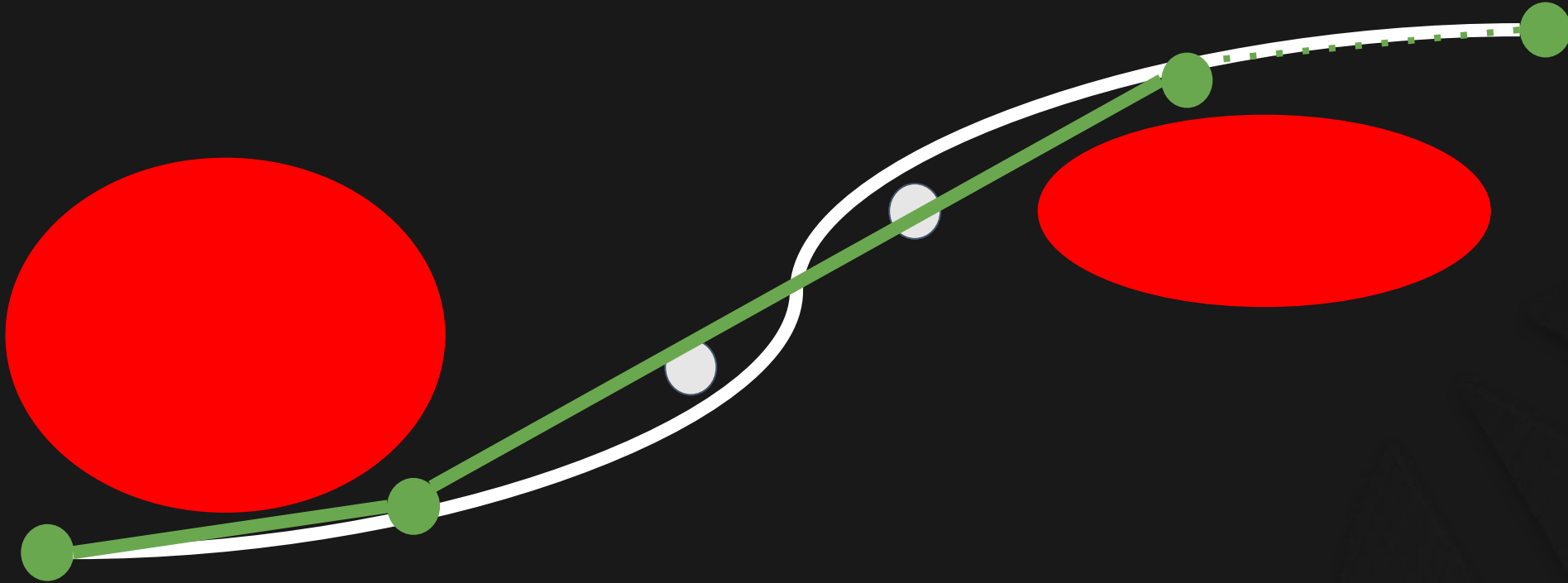
모션 퀄리티 향상 기법

- Path Shortcutting 기법



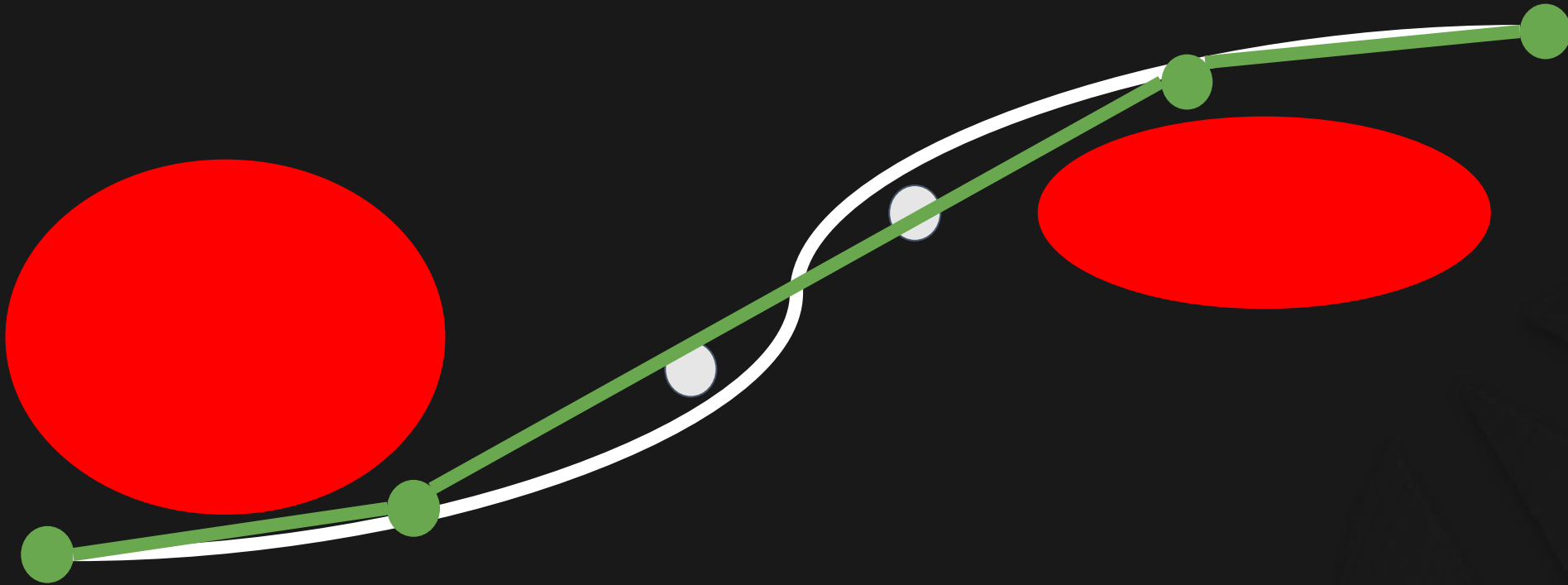
모션 퀄리티 향상 기법

- Path Shortcutting 기법



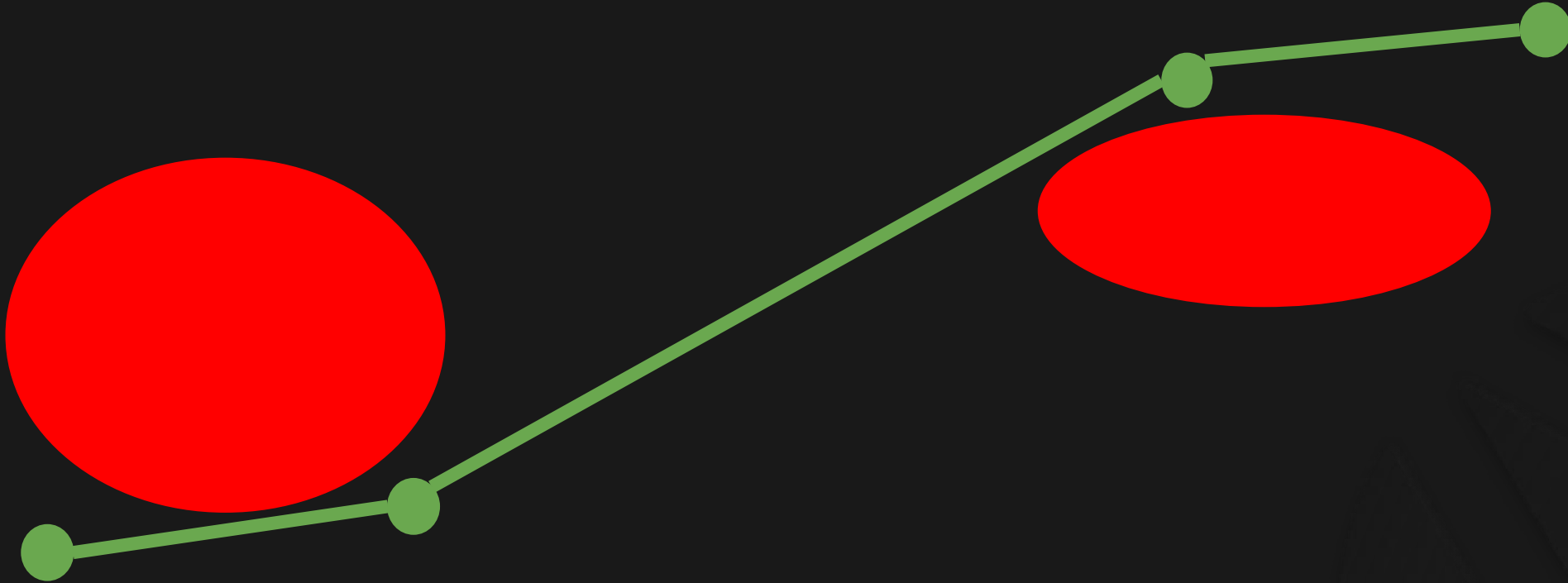
모션 퀄리티 향상 기법

- Path Shortcutting 기법



모션 퀄리티 향상 기법

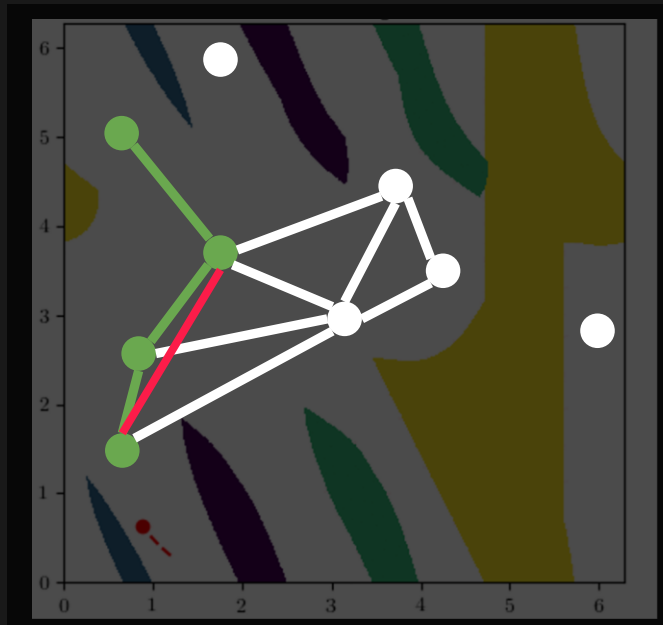
- Path Shortcutting 기법



모션 퀄리티 향상 기법

- Path Shortcutting 기법

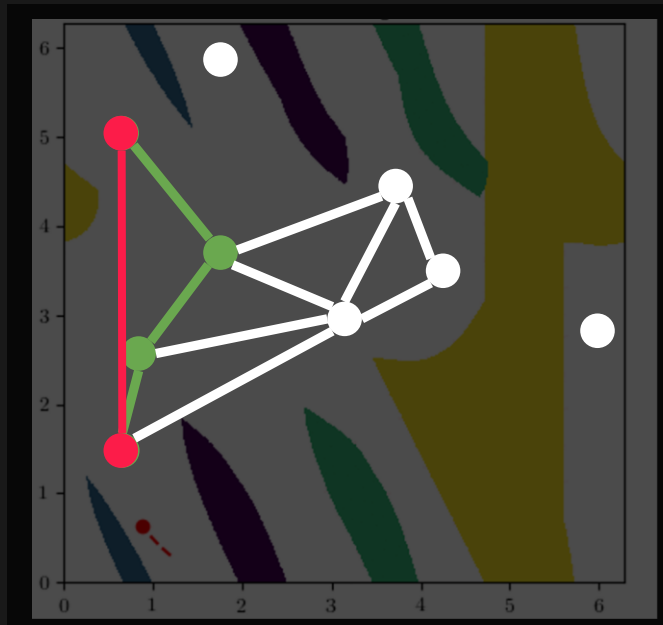
PRM



모션 퀄리티 향상 기법

- Path Shortcutting 기법

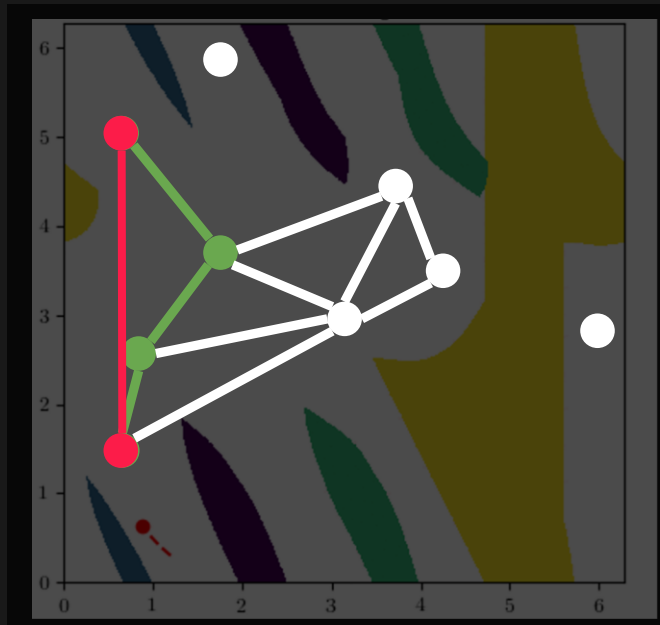
PRM



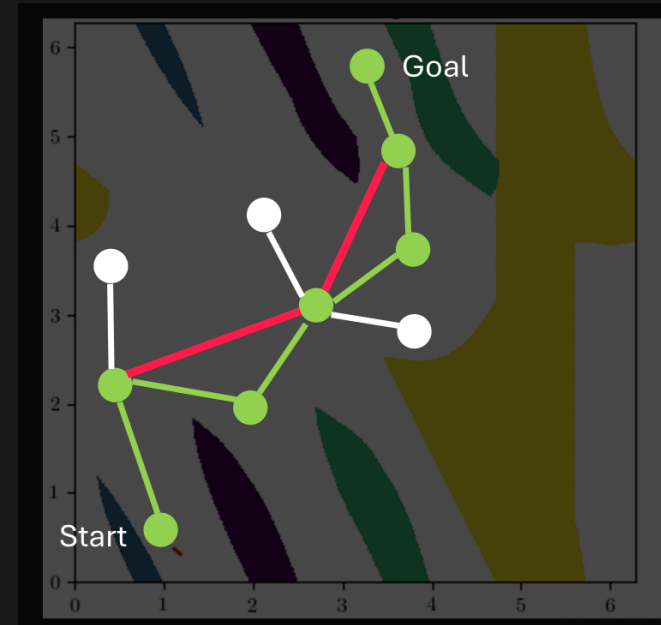
모션 퀄리티 향상 기법

- Path Shortcutting 기법

PRM



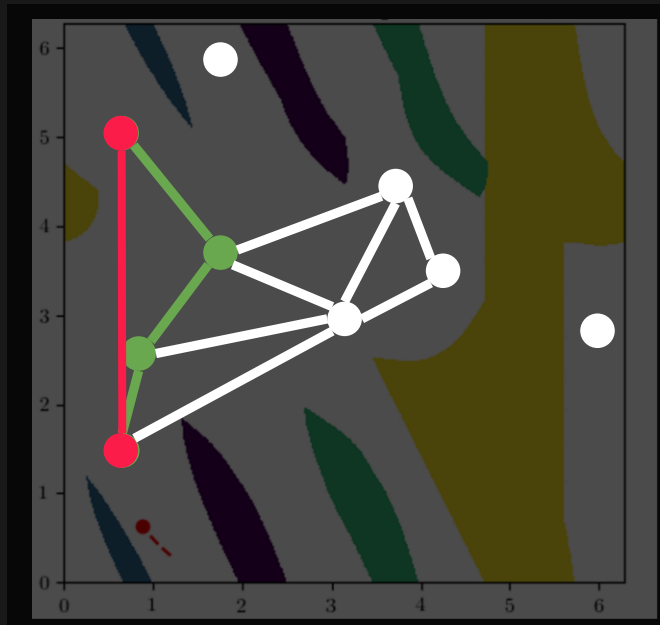
RRT



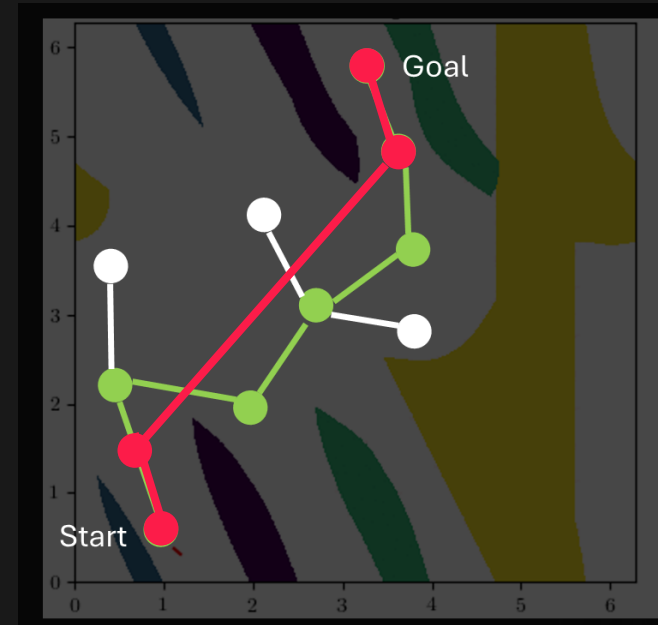
모션 퀄리티 향상 기법

- Path Shortcutting 기법

PRM



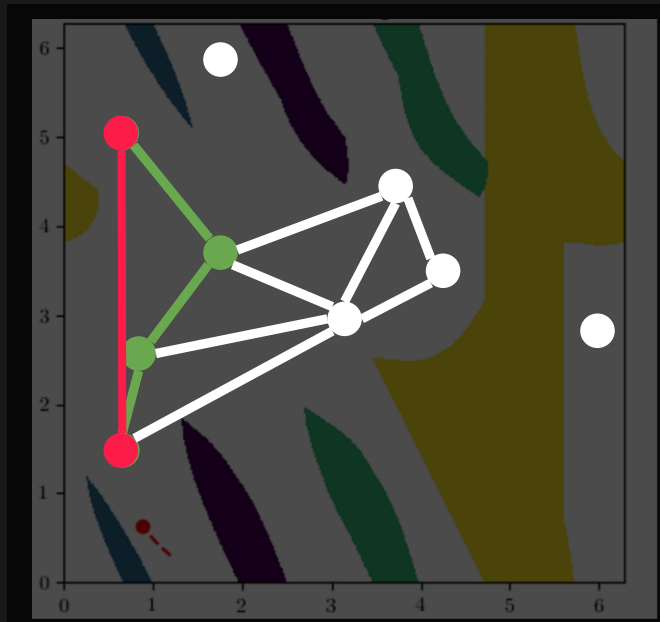
RRT



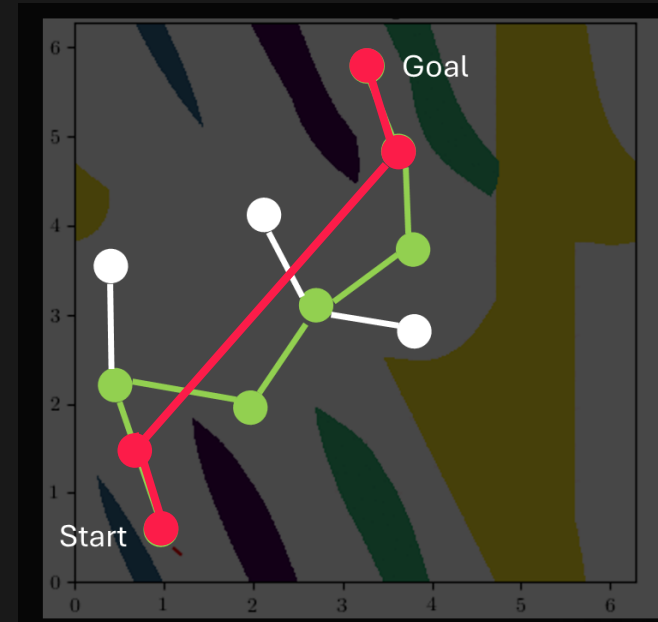
모션 퀄리티 향상 기법

- Path Shortcutting 기법
- 좀 더 부드러운 경로를 만들어낼 수는 없을까?

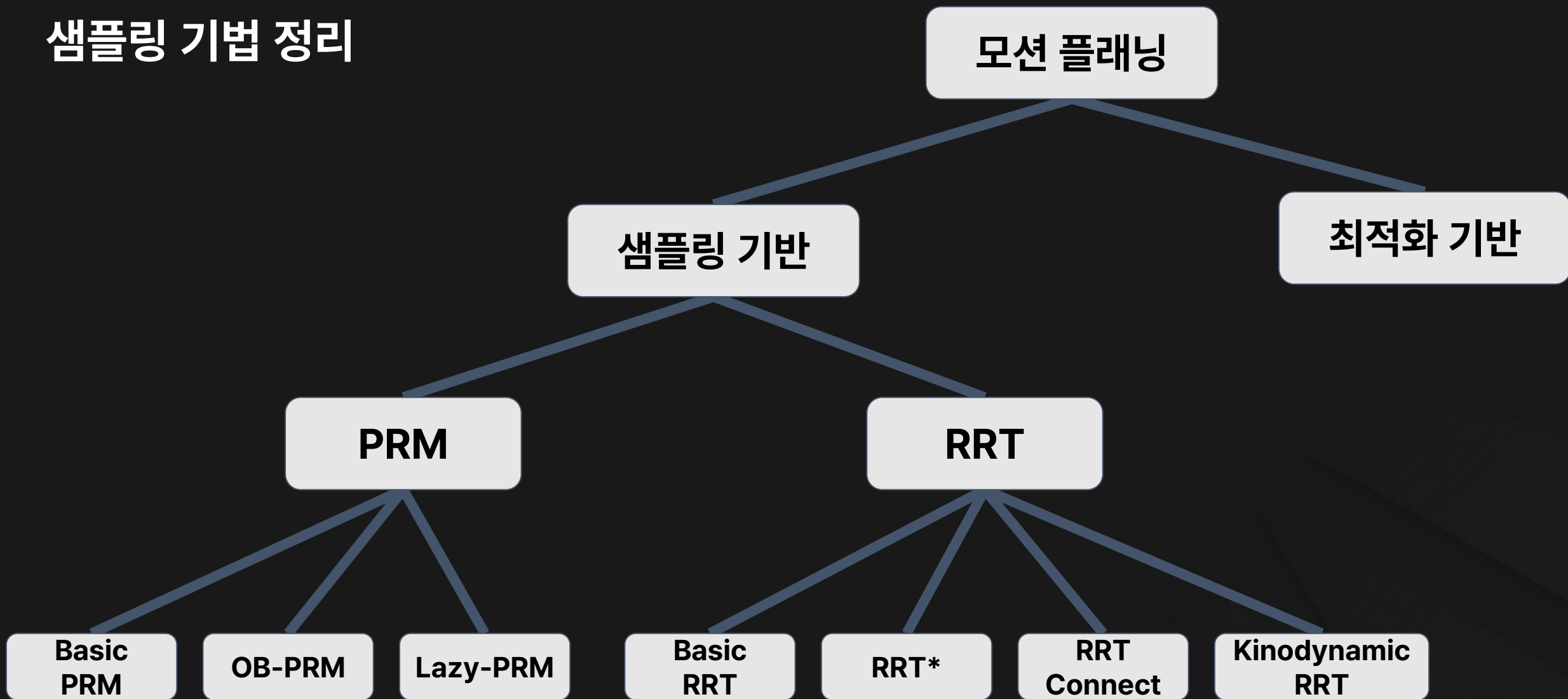
PRM



RRT



샘플링 기법 정리



강의 요약

01

샘플링 기법 정리

- PRM
- RRT

02

솔루션 퀄리티 향상 기법

- Shortcutting
- 최적화 기법
(다음 강의)