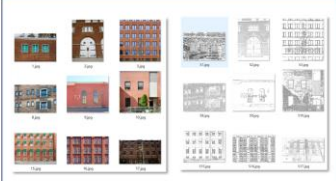

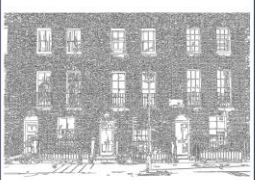













Dataset

Train	Test
 <ul style="list-style-type: none"> ✓ Google image crawling + Free stock sites → 총 405개의 brick building facade data ✓ Edge detection algorithm → (Image + outline) paired 	 <ul style="list-style-type: none"> ✓ CMP Facade Database (Center for Machine Perception) → 100개 general building facade data ✓ Edge detection using same method → trained Generator에 input으로 넣음

Preprocessing – pair generation

canny	bilateralFilter	HED
 <ul style="list-style-type: none"> ✓ OpenCV - Canny Edge Detection 함수 ✓ 속도는 빠르지만, threshold를 적게 주면 noise가 너무 많고, threshold가 높으면 중요한 outline을 지워버림 	 <ul style="list-style-type: none"> ✓ OpenCV - Filter 함수 ✓ Canny보다는 noise를 줄일 수 있지만, 여전히 중요한 outline을 지워버리는 문제가 있음 	 <ul style="list-style-type: none"> ✓ Holistically-Nested Edge Detection (ICCV 2015) ✓ 다른방법 활용에 중요한 edge만 detection하지만, 속도가 느림.

Real	Canny	BilateralFilter	HED
			
			
			
Average PSNR	2.4767 dB	3.4638 dB	3.8242 dB