3 Feature Detection Algos

SIFT

Pros

- Most accurate descriptors
- More scale invariant
- Performs best in most scenarios [1]

Cons

- Computationally heavy and expensive
- Doesn’t work well with lighting changes and blur

ORB

Pros

- Much faster
- Best percent of tracked features (mapping on dest and src) [0]
- More invariant to affine and rotation changes [2]

Cons

- Not as robust for scale and rotation invariance

BRISK

Pros

- More invariant to affine and rotation changes [2]
- Faster
- Higest accuracy (with SIFT) for all types of geometric transformations [2]

Cites

[0] https://computer-vision-talks.com/2011-07-13-comparison-of-the-opencv-feature-detection-algorithms/

[1] https://arxiv.org/pdf/1710.02726.pdf#:~:text=For%20images%20with%20varying%20intensity,for%20ORB%20is%20the%20least.&text=We%20considered%20here%20a%20rotation,the%20image%20to%20be%20matched

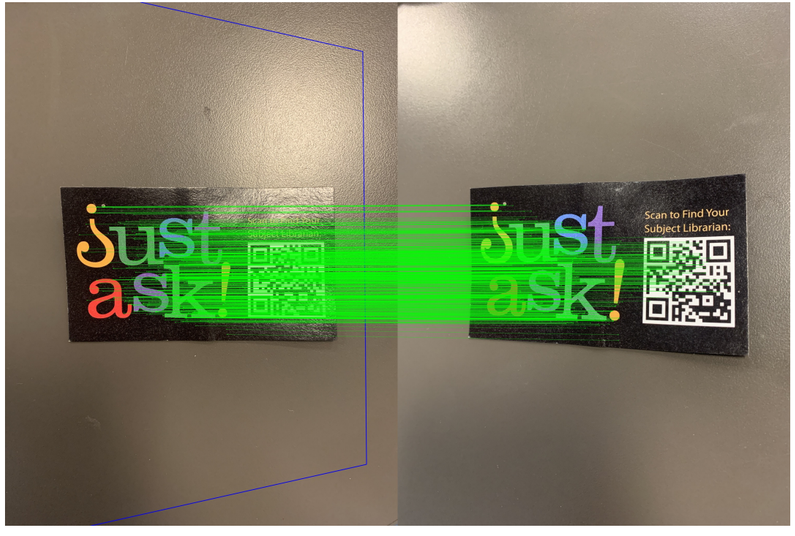
[2] https://ieeexplore.ieee.org/document/8346440#full-text-section

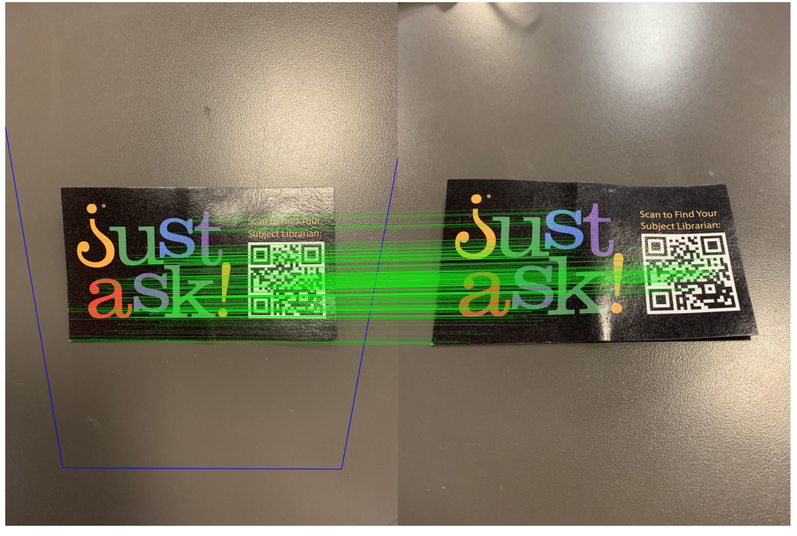
SIFT

ORB

BRISK


just
ask!


just
ask!
just
ask!
Scan to Find Your
Subject Librarian: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