

Computer Vision Archery Scoring

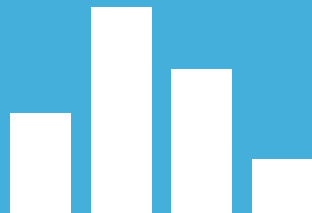
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Not very helpful... yet.

Building the App



Get target photo
from user

Extract shot data
using openCV

Visualize with
Flask and D3



Extracting Shot Data



Original Photo



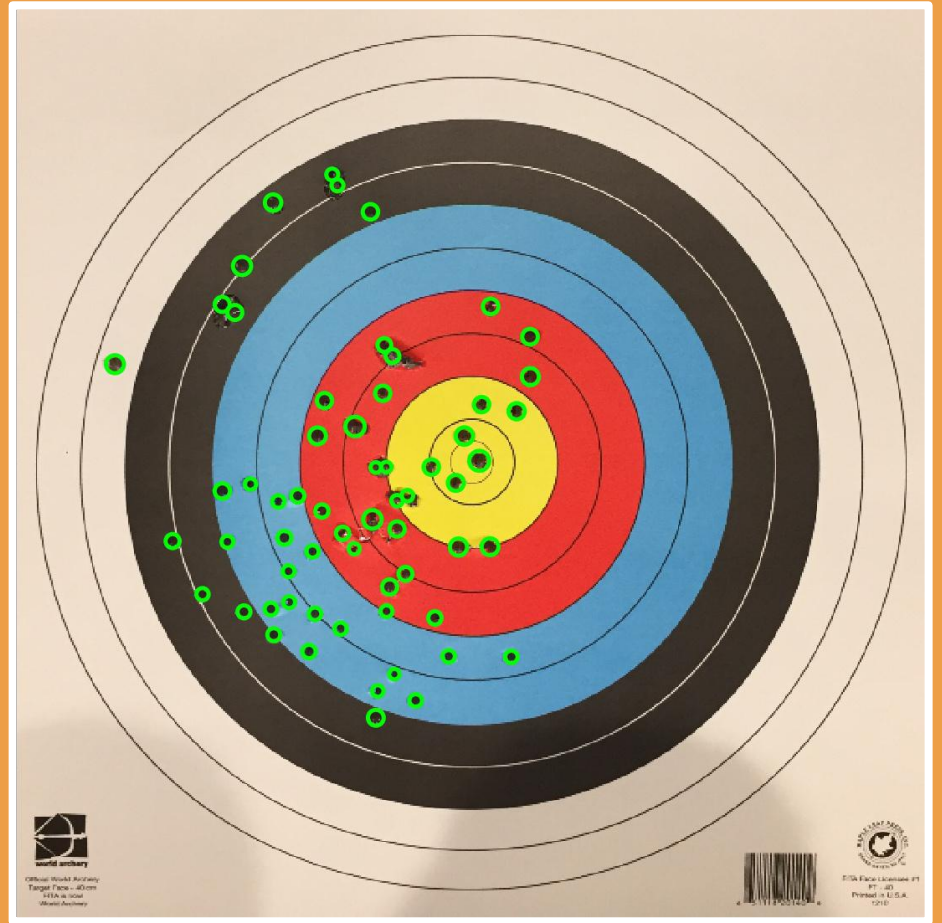
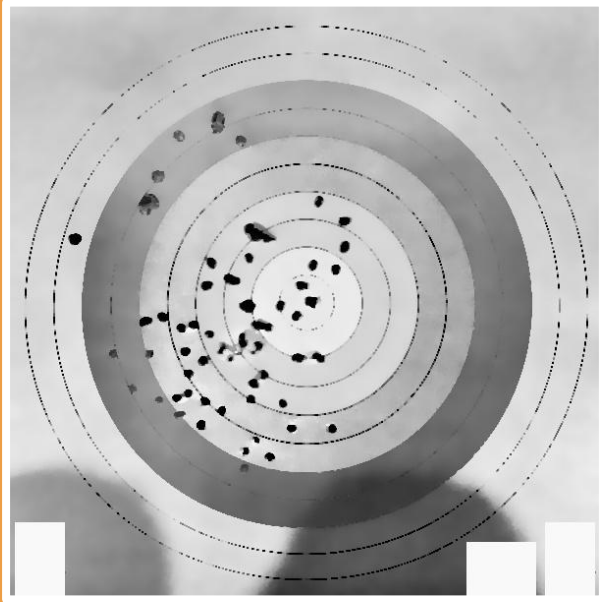
Corner Detection



Resized and
Reframed



Detecting Shots



Evaluation Metrics

Test Recall	.955
Test Precision	.983

	Not Labeled a Shot	Labeled a Shot
Not Actually a Shot	N/A	9
Actually a Shot	25	530



Counting is Hard



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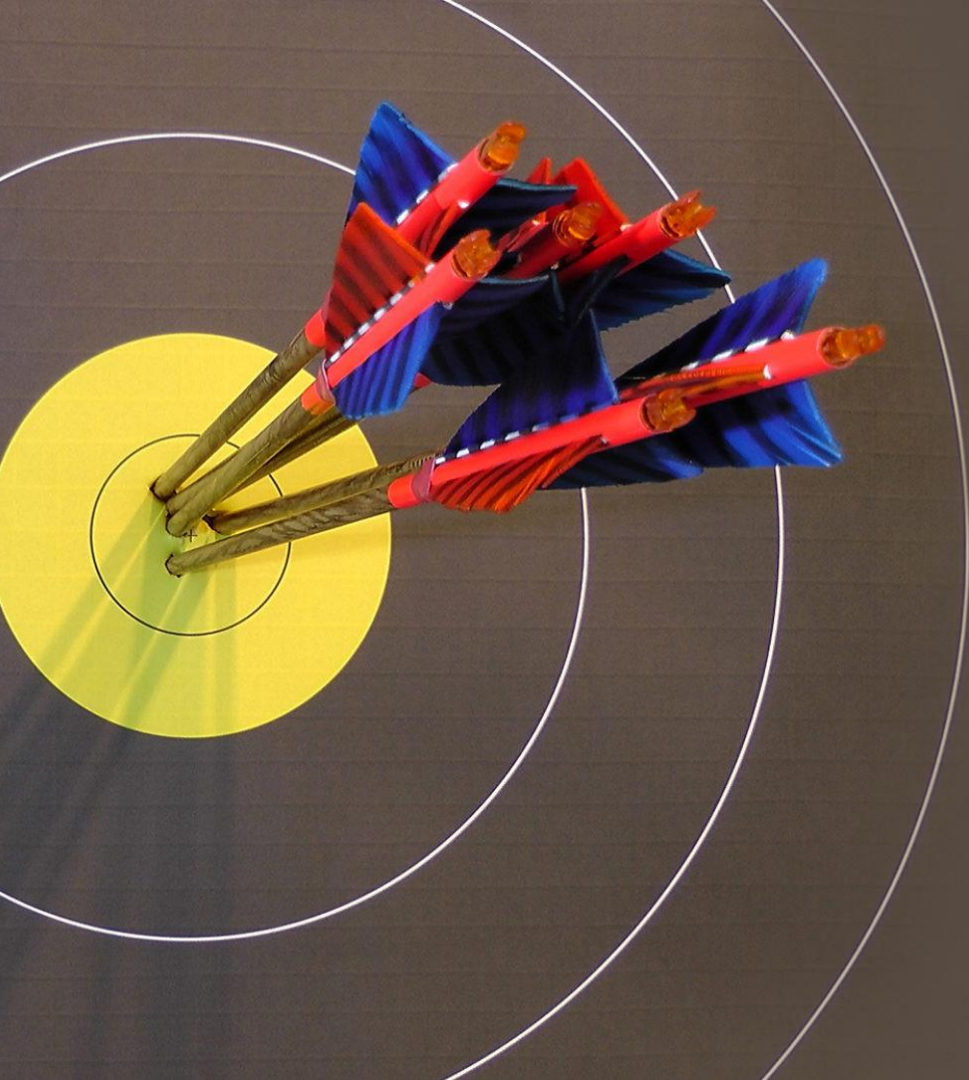
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Appendix



Future Work

- Recognize different target types
- Run on smartphone
- Visualize scores over time