











A Note about Notation

- This course material originated from the 2016 CV 2 lecture held together with Jörg Stückler (now Prof. @ MPI Tübingen)
- The notation follows the MASKS textbook and is slightly different from the notation used in the CV 1 lecture.
- We'll stick with this notation in order to be consistent with the later lectures
- In case you get confused by notation, please interrupt me and ask...

Visual Computing Institute | Prof. Dr., Bastian Leibe Computer Vision 2 Part 11 – Muti-Object Tracking II



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Recap: Keypoint Detectors

- Desirable properties of keypoint detectors for VO:
 High repeatability,
- Localization accuracy,
- Robustness,
- Invariance,
- Computational efficiency



Recap: Keypoint Detectors • Corners vs. blobs for visual odometry:

- Typically corners provide higher spatial localization accuracy, but are less well localized in scale
- Corners are typically detected in less distinctive local image regions
- Highly run-time efficient corner detectors exist (e.g., FAST)





















109/		Req. #points Outlier ratio ϵ					
10%	20%	30%	40%	50%	60%	70	
3	5	7	11	17	27	4	
4	7	11	19	35	70	16	
9	26	78	272	1177	7025	701	
	3 4 9	3 5 4 7 9 26	3 5 7 4 7 11 9 26 78	3 5 7 11 4 7 11 19 9 26 78 272	3 5 7 11 17 4 7 11 19 35 9 26 78 272 1177	3 5 7 11 17 27 4 7 11 19 35 70 9 26 78 272 1177 7025	

