Image Level



GT triplets:

- 1. cup on surfboard
- 2. surfboard with flower
- 3. table made of surfboard
- 4. head of man
- 5. man in shirt
- 6. chair behind surfboard
- 7. plant near door

Graph Constraint

keep only top-1 prediction between 'man' and 'shirt' (same for other pairs of objects)

(comme to to the competition)				
Top model predictions	Score			
 man wearing shirt 	0.10			
2. cup on table	0.08			
3. man has head	0.07			
4. chair behind surfboard	0.04			
5. sufrboard near man	0.03			
6. man near surfboard	0.02			
 100. plant near house	0.01			

Recall@100 = $1/7 \approx 14\%$

No Graph Constraint

multiple prediction between 'man' and 'shirt' are ranked

Top model predictions	Score
 man wearing shirt 	0.10
2. man in shirt	0.09
3. cup on table	0.08
4. man has head	0.07
5. chair behind surfboard	0.04
6. sufrboard near man	0.03
7. man near surfboard	0.02
100. man holding cup	0.01
	_

Recall@100 = $2/7 \approx 30\%$

Triplet Level



Weighted Triplet Recall

This metric treats triplets of all images as a joint set.







GT triple	ets Triplet-le	evel rank _t	n_{t}	$W_t \times 10^{-1}$
1. cup or	n surfboard	>100	0	70
2. surfbo	ard with flower	99	1	35
3. table r	made of surfboard	>100	0	70
4. head (of man	5	859	0.08
5. man ir	n shirt	2	1205	0.06
6. chair l	pehind surfboard	>100	0	70
7. plant r	near door	85	9	7
 183642.	man holding pho	ne 70	233	0.30

wRecall@100 = Σ_t w₁[rank_t \leq 100]= (35+0.08+0.06+7+...+0.30) x 10⁻⁶ \approx 28.2%