Mike and Jenny play outside in the sandbox. Mike is afraid of an owl that is in the tree. Jenny had a pie that she didn't want to share. That made Mike angry. Mike's soccer ball almost got struck by lightening. A cat anxiously sits in the park and stares at a unattended hot dog that someone left on a yellow bench. Mike and Jenny are enjoying playing with a volleyball in the park. Mike and Jenny are Playing pirates and their dog wants to play with the beach ball. Mike and Jenny are laughing while they play with the frisbee. 'OH NO!" shouts Mike as Jenny runs from the green snake! Jenny runs to ask mike if he can play tennis with her. Mike and Jenny are playing catch with a football while a dog watches and a hot air balloon flies past them. Jenny wants to play on the side but it's raining over there. Jenny and Mike are having a great time in the sunny park as she pitches a baseball to Mike who is waiting with his bat. Mike and Jenny are happy that it is finally time to eat! Jenny is scared of a snake at their campsite but Mike wants to go catch it. Mike was about to step into the sandbox when he saw there was snake in there. Mike went down the slide too guickly and Jenny is worried that he is hurt. Mike is sliding down the red slide and Jenny is asking him if he wants to play tennis or baseball. Nobody is playing at the park because a thunder storm started and rain came pouring down. Mike is so sad that he has to play alone. Mike is sad that the hot dogs are burning on the grill! Jenny is happy just to have the sandwich and pizza. Jenny is talking to an owl in the tree. The owl is actually a wizard that is disguised. Mike is happy to see a cat in the sandbox but Jenny doesn't like cats so she is afraid. Mike and Jenny are playing catch with a baseball but somehow Mike climbed up in a tree. Mike trips on his way to catch a frisbee. Jenny is frustrated with his incompetence. Mike and Jenny happily watch as a hat-wearing duck and a glasses-wearing owl stand under an apple tree. Jenny and Mike were happy to see each other even though it was raining. The cat comes to see Mike and Jenny while they are playing by the sandbox. Mike laughs when he sees Jenny coming with a owl on her arm! Jenny and Mike are having so much fun! They are resting after playing baseball. Mike is asking dog and cat where Jenny is. Look she is hiding behind the tree! Jenny's pie got wet. Mike was happy it was ruined since she'd refused to share it with him. Jenny bakes Mike a pie so that he will consider joining silly hats club. Mike and Jenny are happy that the dog has came back! Jenny is playing with a cat in the the case and laugh while they match a set try to slide down the dide telephone regulated up to fatch the burket for them. The while a Sbrown bhar tries to the the two free. ISe and Je ny ale papy to play the duch to fatch the burket for them. In all the part of the set of the tree. Jenny but of the set of the tree. Jenny had a sandbox. Mike pie that she didn't want to share. That made Mike angry. Mike's soccer ball almost got struck by lightening. A cat anxiously sits in the park and stares at a unattended Is actually a wizard that is disguised. Mike is happy to see a cat in the sandbox but Jenny doesn't like cats so she is afraid. Mike and Jenny are playing Larry Zitnick mbed up in a tree. Mike trips on his way to catch a frisbee. Jenny is frustrated with his increased. **Microsoft Research**

"Long, blue, spiky-edged shadows crept out across the snowfields, while a rosy glow, at first scarce discernible, gradually deepened and suffused every mountain-top, flushing the glaciers and the harsh crags above them." **John Muir**

Captions in the wild

Pigeon Point Lighthouse near Pescadero, California



I snapped this shot right before going to sleep in my car at the South Sister trailhead Thursday night. Nothing too spectacular by most standards, but it solidifies the memory in my brain, no doubt. A year ago I was staring at my feet in a hospital bed after having a stroke. It was discovered that I had a hole in my heart that caused the stroke and it was quickly fixed. For my one year anniversary, I hiked Table Mountain. It's over 12 miles with an elevation gain of nearly 4000 feet. The elevation at the top is 11,300 feet. It's my favorite hike and I try and do it every year. Last year, sitting in the hospital, I only dreamed of doing this again. I can't tell you how grateful I am for my good health and a full recovery. Serendipity is the best word to describe my feelings at the moment this image was captured. Please check the comment box for an image from last year.





i tried to stop my 365 and found i missed is a lot, more than i really imagined i would. so i am back at it: we all met at the Pancake house so many delicious choices so we shared taste getting up from the table full and happy justin and kacy headed home and brandon and courtney came back to the house for a bit before leaving for Bellingham he will leave is a bit too for the east side leaving the dog and i here alone for a few days to rest. . . This is the private poker room, formally owned by the late George Whittle, located at the Thunderbird lodge. The lodge and property is now managed by the Thunderbird Lodge Preservation Society. George lost a large chunk of North Tahoe land to a card shark by the name of Joe King, who used the land to create the town of King's Beach, California nearly a century ago. This photo is the poker room when that famous card game was played.





Late evening light lights up the famous pink rocks of Fionnphort and Kintra across the Sound of Iona.

Shot was taken thru a glass window. This was the best shot without glass reflection.



We did smile at each other after!



Walk up shot of Tower Bridge on an August evening

N Nasa



an in the star

I know of a few people that could use this reminder right about now. :)

r are Loved.

Captions in the wild

- How the photo was taken
- Proper names
- Special meaning behind the photo
- Events surrounding the photo

Describe the image using a single sentence.

Describe the image using a single sentence.



~300,000 images 5 sentences per image Talk on

Wec



Tsung-Yi Lin Cornell Tech

Cyrus Rashtchian, Peter Young, Micah Hodosh, and Julia Hockenmaier. Collecting Image Annotations Using Amazon's Mechanical Turk. NAACL HLT 2010 Workshop on Creating Speech and Language Data with Amazon's Mechanical Turk.



A man with a laptop and a cat on a table.A cat is sitting outside while a man works on his laptop.A hippy sitting at a table with a cat on top of it working on a laptop.A man using a laptop at a table with a cat on top of the table.A man at a table with his computer and a cat.



A dog trots and pants in front of two motorcycles parked in front of a fence.
A brown, black and white dog walking on a street.
A close up of a dog walking in front of parked motorcycles
An image of a dog walking in the street
A dog crossing a pavement path near motorcycles.



A man sits on a motorcycle holding a cat.

A motorcycle rider putting a cigarette in his mouth.

A person sitting on a motorcycle with a dog in their jacket.

Man on motorcycle holding a black cat in his jacket.

A caucasian female motorcycle rider sitting astride her motorcycle with a cat.



A person wearing a helmet and riding a motorcycle.A man riding a motorcycle with a small dog propped on the fuel tank.A man riding a motor cycle down a street.A person riding a motorcycle on a city streetA man who is riding on a motorcycle with a cat.



A man riding a large motorcycle near a sidewalk with bicycles.A man on a black and red motorcycle riding down the street.A man riding on the back of a motorcycle.A man with a helmet on is riding a motorcycle in the street.A man that is sitting on the back of a motorcycle.

The woman is working in the kitchen with the baby in the high chair next to her.

A living room with a couch a chair and a TV.



A living room and kitchen with various furniture.

The woman is working in the kitchen with the baby in the high chair next to her. A view of living room with brown sofas, with the kitchen in the background.

A living room with a couch a chair and a tv.

A woman works in a kitchen that is joined to a living room.



A living room with a laundry basket on the floor.

A television set a gray chair a table lamp and some pictures.



A room with an older model television in it. A living room with a laundry basket on the floor A living room that has a television and a chair A television set a gray chair a table lamp and some pictures A picture of a old fashioned looking living room.



Small dog with both a cat and a mouse riding on its back.

Cat and mouse riding on a dog on a busy city street.



Human agreement



Saurabh Gupta, Berkeley



Human agreement





How do we evaluate?



A photo taken indoors.

A dark haired man dressed in a black suit and blue paisley tie eating a hotdog in one hand and holding a beer and plate with a hotdog in the other.

Man suit hotdog tie eat.



ReferItGame: Referring to Objects in Photographs of Natural Scenes Sahar Zazemzadeh, Vicente Ordonez, Mark Matten, Tamara L. Berg, Empirical Methods in Natural Language Processing (EMNLP) 2014.





Write three simple sentences that describe the scene.



Jenny is upset because Mike isn't sharing the soccer ball. Mike is wearing sunglasses. Jenny is wearing a silly hat.



There is a hot dog on the table. The cat looks at the hot dog. There's food on the grill.



Mike and Jenny are playing with the beach ball. Mike is wearing sunglasses. The snake and the duck are watching.

Goal

Jenny is catching the ball. Mike is kicking the ball. The table is next to the tree.





Learning the Visual Interpretation of Sentences, Zitnick, Parikh, and Vanderwende, ICCV 2013.
Semantics

<primary object> <relation> <secondary object>

Jenny is catching the ball. Mike is kicking the ball. The table is next to the tree.



<Jenny> <catch> <ball> <Mike> <kick> <ball> <next to> <tree>

Jenny and Mike are running from the snake.



<Jenny> <run from> <snake> <Mike> <run from> <snake>

Relations



Qualitative results

Input Description

Jenny is catching the ball. Mike is kicking the ball. The table is next to the tree.

Mike is sitting next to Jenny. The catis sitting next to the tree. Jenny is throwing the ball.

GT Full-CRF Tuples <<Jenny>, <catch>, <ball>> <<Mike>, <kick>, <ball>> <<table>, <be>, <>>> <<Mike>, <sit next to>, <Jenny>> <<catis, <sit next to> <tree>> <<Jenny>, <throw>, <ball>>

Simple sentence = easy to parse More sentences = more details

Describe a scene for a children's story book.



Jenny loves to play soccer but she is worried that Mike will kick the ball too hard.



A cat anxiously sits in the park and stares at a unattended hot dog that someone left on a yellow bench.



Mike trips on his way to catch a frisbee. Jenny is frustrated with his incompetence.



Jenny's pie got wet. Mike was happy it was ruined since she'd refused to share it with him.

Generating data

"Jenny just threw the beach ball angrily at Mike while the dog watches them both."



Bringing Semantics Into Focus Using Visual Abstraction, Zitnick and Parikh, CVPR 2013

Mike fights off a bear by giving him a hotdog while jenny runs away.



Jenny and Mike are both playing dangerously in the park.



It was raining in the park and a duck and a snake were trying to take shelter.



Jenny and Mike are familiar = more stories Simple visuals \neq simple description















Xinlei Chen, CMU

Semantics

