












The following results correspond to **section 5.4:Generalization Capability Test** in the paper. Here we provide more results besides the ones shown in the paper submission. We show the original annotation output from the system, annotations after mapping, and ground truth.


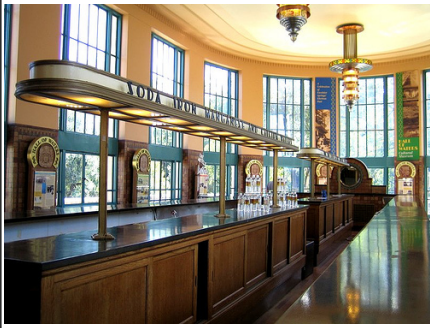

Image	Annotation before mapping	Annotation after mapping	Ground truth
	actress, kareena kapoor, bollywood, vestidos, atriz, katrina kaif, pavan kalyan photos, ramcharanteja, katrinakaif, ram charan tej, ram charan teja, saif ali khan, deepika padukone, hrithik, vestidos para novias, piper, shannen, holly marie combs 2009, shannen doherty, charmed, vestidos para novia, charmed wallpapers, holly marie, kaif, pavan kalyan, marie combs, khan, kareena, prue halliwell, saif and kareena, kareena kapur, kambakht ishq, vestidos para coctel, telugu movie, kareena kapoor bikini, iifa awards, vestidos de famosos, taylor momsen 2009, ramcharan tej, novia, kareenakapoor, los mejores vestidos de novia, sameera reddy pics, 27 dresses, charmed season, aishwarya rai, taylor lautner selena, sexy hotphoto, amrita arora	people, female, portrait, baby, car	female, people, plant life, portrait, structures
	salad, recipe, vegetables, pasta, meal, vegetable, ensalada, recipe box, salsa, beans, chocolate, indian foods, recette, frutas, yemek tarifleri, masala, alimentos, curry, south indian food photos, et yemekleri, pizza, food, oktay usta, ensaladas, fruit, biryani, vitaminas, dieta, camarones, tarif, fotos de frutas, indian food, soup, thai, fruta, chicken tikka, chicken curry, vafliai, chinese food, verinukai, hoa, kugelis, cukinija, pollo, vegetales, resepi, paneer masala, pudding	food, people, plant life, baby, tree	food, indoor

	<p>fireworks, at night, las vegas, new year, happy new, fire works, fireworks display, skyline, fireworks pictures, fire, 4th of july fireworks, 4th of july, paris, diwali, night, newyear, fireworks wallpaper, happy new year, guitar hero, firework, paris wallpaper, pictures of fireworks, eiffel tower at night, fireworks wallpapers, burning, eiffel, happy diwali, hong kong, new york night, wwe, new years, casino, illegal fireworks, fireworks background, fourth of july, new york, night skyline, paris las vegas, pics of fireworks, eiffel tower, eiffel tower wallpaper, lasvegas, vegas, diwali greetings, cities at night, undertaker, john cena, happy fourth of july, paris night, paris france</p>	<p>sky, night, structures, tree</p>	<p>night, sky, structures</p>
	<p>sunset, sunrise, the beach, beaches, wallpaper sunset, strand, beach sunset, storm, sunset wallpaper, deniz, sunset on the beach, sunset beach, pictures of cox's bazar, sunsets on the beach, beach sunsets, sunset pictures, sunset photos, mediterranean, beach, talkad, sunset love, sunsets, galilee, paisajes, spiagge, sunset wallpapers, channarayapatna, beautiful sunset, sea storm, sun set, ocean sunset, beach photos, chikhaldara, narayangaon, hawaii, maravanthe, pictures of sunsets, chorwad, ocean, kozhikode beach, lago, soleil, taptapani, thirunelli, sunrises, sunset images, sea, coucher, hawaii sunset</p>	<p>lake, structures, animals, sunset</p>	<p>clouds, sea, sky, sunset, structures</p>
	<p>national park, falls, beaches, resort, mountains, paisajes, valley, paisaje, the beach, machu picchu, caribbean, fotos de paisajes hermosos, mountains nepal, lago, himalaya, machu, iguazu, machu picchu, fishing, chile, paisajes de venezuela, macchu picchu, imagenes de paisajes, mejores paisajes del mundo, mountain of nepal, picchu, paisajes hermosos, alberta canada, paisajes de europa, machupicchu, canada wallpaper, canada, mount everest, aquarium, fotos paisajes, colorado, paisajes del mundo, mapa, lac, de paisajes, banff, bora bora, cataratas, machupichu, los mejores paisajes del mundo, mountains of nepal, fondos de pantalla de paisajes, banff national park, rocky mountains, annapurna</p>	<p>structures, people, lake, river, tree</p>	<p>clouds, lake, plant life, sky, structures, tree, water</p>

	<p>sunrise, sunset, hubble, wallpaper sunset, tornado, nasa, sunset wallpaper, sunset pictures, sunset photos, sun set, beach sunsets, sunset beach, beach sunset, storm, sunset wallpapers, sunset images, sunsets on the beach, clouds, sunset on the beach, sonnenuntergang, the beach, puesta de sol en la playa, sunrises, sunsets, tramonto, ocean sunset, sol, puesta de sol, amaneceres, hawaii, atardecer, thunderstorm, cloud, beautiful sunset, sunrise wallpaper, por do sol, pictures of sunsets, atardecer en la playa, strand, wolken, giza, sunset love, atardeceres en la playa, lightning, beach sunset wallpaper, ngc, eclipse, hawaii sunset, galaxy, sunsets pictures</p>	<p>sky, structures, clouds, sunset</p>	<p>clouds, sky, sunset, transport</p>
	<p>4x4, truck, vehicles, trucks, lifted truck, pickup, f250 lifted, lifted trucks, hummer, lifted dodge trucks, jeep, lifted ford trucks, lifted dodge ram, ford, v8, lifted ford, lifted chevy trucks, toyota, lifted tundra, lifted chevy colorado, off road jeep, hummerh2, lifted dodge, lifted chevy, lifted chevy silverado, hummer h2, hummer 2, lifted silverado, 4x4 trucks, hummer h1, h2, wrangler, custom lifted trucks, jeep wrangler, the car, ford truck, omega rebaixado, hummer h2 2009, lifted f250, wrangler unlimited, auto show, lifted duramax, hummer h3, parati rebaixada, s10 rebaixada, jeep wrangler unlimited, lifted f150, gol socado, wrangler rubicon, vectra rebaixado</p>	<p>car, people, animals, structures, plant life</p>	<p>car, clouds, plant life, sky, transport, tree</p>
	<p>plants, falls, forest, garden, tree, japanese garden, landscaping, rain forest, trees, planting, rainforest, forests, national park, hoa, tropical rainforest, garten, jardin, gardens, animated waterfall, amazonas, park, waterfall, garden design, garden design ideas, bosque, biggest dog, amazon rainforest, rainforest trees, cascade, waterfall wallpaper, rainforest pictures, amazon forest, tropical rain forest, the amazon rainforest, waterfalls, bosques, lord of the rings, wallpaper forest, redwood, rainforests, elephant, vegetable garden, pond waterfalls, pond waterfall, rainforest wallpaper, cascadas de mexico, panda, amazon, water fall</p>	<p>bird, tree, people, animals, plant life</p>	<p>male, people, plant life, sky, tree</p>



	<p>roses, rose wallpaper, rose, roses wallpaper, roses wallpapers, rose flower wallpaper, redrose, rose wallpapers, pink rose flowers, flowers, pink rose wallpapers, flower, pink rose, wallpaper flower, red rose, flower walpaper, flower wallpaper, red rose wallpaper, flowers wallpapers, bouquet, rose flowers, red flowers, red roses, flowers rose, flower rose, wallpaper rose, wallpapers flowers, rose flower, wallpapers of roses, beautiful rose, fotos de rosas, rosa, flower images, amor, rosas, rose flower photos, yellow rose, flores rosas, rose flower wallpapers, red rose flower, roseflower, roses flower, red rose flowers, rose flower pictures, rose background, pinkrose, rose flowers pictures, beautiful rose flowers, roses pictures, piercing</p>	<p>flower, plant life, people, tree, lake</p>	<p>flower, plant life</p>
	<p>chocolate, recipe box, recipe, torta, cakes, cookies, cake, muffins, bolo, bolo de chocolate, cupcakes, german chocolate cake, torte, salad, bolo de morango, peanut, cupcake ideas, csoki, dark chocolate, pasta, suupisted, katvond, pasteles de chocolate, cheesecake, cupcake, torta de morango, cup cakes, tarta, dessert, bread, lazanija, morango, pudding, sandro botticelli, torta de chocolate, bolos de chocolate, chocolate cake, mango, kuchen, peleas, salsa, tortu papuosimai, kugelis, tort, dort</p>	<p>food, bird, plant life, flower</p>	<p>food, indoor</p>
	<p>tower, dubai, burj dubai, burj, skyline, burjalarab, skyscraper, burj dubai tower, burjdubai, dubai burj, at night, towers, tallest buildings in the world, dubai tower, chicago, dubai the world, burj dubai 2009, new york, night skyline, burj tower, manhattan, petronas, the burj dubai, dubai buildings, world trade center, dubai tallest building, burj al arab, trade center, worlds tallest buildings, dubai towers, tallest building, las vegas, chicago spire, twin towers, skyline night, kuala lumpur, petronas towers, mosque, petronas twin towers, burj dubai skyscraper, new york city, the palm jumeirah, the tallest building in the world, petronas tower, architecture buildings, empire state, dubai skyline, taipei 101, dubai city</p>	<p>structures, plant life, bird, car</p>	<p>sky, structures, sunset</p>

	<p>storm, tornado, clouds, cloud, uss, sea storm, the clouds, carrier, chaiten, sky, hurricane, lightning, strand, surf, nimitz, surfers, thunderstorm, whale, f 22, the beach, waves, airbus, nasa, cumulus clouds, cumulonimbus clouds, iceberg, gunung berapi, wolken, maravanthe, cumulus, beaches, f 117, cumulonimbus, humpback whale, clouds wallpaper, aircraft, offshore, surf waves, cyclone, storm at sea, whale watching, tornados, channarayapatna, sunrise, chile, tsunami, kemmanagundi, fotos de tornados, aircraft carrier</p>	<p>clouds, lake, water, sky</p>	<p>clouds, lake, sea, sky, water</p>
	<p>kitchen, kitchen interior, living room, livingroom, modern interior design, living room designs, living room interiors, kitchens, kitchen interior design, interior decoration, living room decoration, kitchen design, small kitchen design, home decor ideas, home interior, kitchen cabinet design, interior design living room, home interior design, interior design, living room interior, kitchen ideas, apartment design, interior design ideas, kitchen design pictures, kitchen designs, kitchen island designs, kitchen decoration, modern living room designs, french kitchen, kitchen remodeling, cabinets, living room decorating images, modern living room design, interior designing, modern interior, room designs, living room decorating ideas, living room interior design, kitchen cabinet, kitchen cabinets, living room ideas, luxury living room, modern living, country style, country kitchens, living rooms designs, living room decor, minimalist living room, kitchens designs, country kitchen</p>	<p>people, structures</p>	<p>indoor, structures</p>
	<p>meal, chocolate, recipe, pizza, recipe box, pasta, salad, beans, food, beef, indian foods, vegetable, vegetables, chicken recipes, salsa, chinese food, burger, south indian food photos, cakes, thai, pizza hut, pork, cake, pudding, indian food, steak, comida, asado, indianfood, recette, cookies, tandoori chicken, grill, bread, chicken, pizza margherita, biryani, chinese foods, pizzas, tacos mexicanos, food indian, indian food pictures, curry, platillos mexicanos, pizza hut menu, crab, comida peruana, et yemekleri, roasted chicken, dinner</p>	<p>food, plant life, bird, baby</p>	<p>food, indoor</p>

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