Fashion Captioning: Towards Generating Accurate Descriptions with Semantic Rewards

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1 Supplementary

1.1 More Examples on FACAD

More examples can be found in the online anonymous website: https://github.com/xuewyang/Fashion_Captioning.

We also showcase some examples directly in Fig 1.

1.2 Categories and Attributes

To showcase the massive categories of FACAD, we split all 74 categories into 5 subsets: top, bottom, one-piece, shoes, bags and accessories and list the 5 subsets in Table 1.

To know more about the details of the items, we display a subset of all attributes in Table 2.

1.3 Evaluation Metrics Explained

We provide more information about BLEU, METEOR, ROUGE-L, CIDEr and SPICE metrics. BLEU roughly measures the fraction of N-grams that are in common between a generated one and a groundtruth. METEOR measures unigram precision and recall, extending the exact word matches to include similar words based on WordNet synonyms and stemmed tokens. ROUGH-L counts the number of overlapping word sequences between the generated sentence and the groundtruth caption. CIDEr measures the similarity of a generated sentence against a groundtrue caption using sentence similarity. SPICE compares semantic propositional content between a generated sentence and a groundtruth.
Title: Drape Collar Knit Blazer
Fashion Caption: A softer, more casual version of your workday blazer is made in a comfy cotton knit with a drape collar and raw-edge seams.
Color: Black
Meta: 26" regular front length; 22" back length (size Medium); 25" petite front length; 21" back length (size Medium P); Drape collar; Long sleeves blazer; Partially lined; 100% cotton; Hand wash; dry flat; knit

Title: Rounded V-Neck Tee
Fashion Caption: A gently rounded V-neck, short sleeves and a chest pocket style a soft cotton-blend tee in a multitude of colors.
Color: White
Meta: Rounded V-neck; Short sleeves tee; Semi-sheer; 60% cotton; 40% modal; Machine wash cold; dry flat; Imported; Point of View and Petite Focus

Title: Canvas Workwear Jacket
Fashion Caption: Rugged and ready for anything, this workwear inspired canvas jacket keeps it simple with a sleek button-front and multiple useful pockets.
Color: Military Green
Meta: Workwear; Front button closure; Spread collar jacket; Button cuffs; Dual-entry hand-warmer pockets; chest zip pocket; 100% cotton; Machine wash; line dry

Title: Yaro Ankle Strap Sandal
Fashion Caption: Modern and minimalist, an essential ankle strap sandal set on a chunky wrapped heel serves as a versatile go-to style.
Color: Pink
Meta: 4" heel (size 8.5); 3" ankle strap height; Adjustable ankle strap with buckle closure sandal; Leather, textile, synthetic or faux fur; upper/synthetic lining and sole; Imported; Women’s Shoes

Title: Reversible Faux Leather Tote & Wristlet
Fashion Caption: Supersoft faux leather flips inside-out for a reversible tote while a matching wristlet multiplies your styling options and keeps you organized on the go.
Color: Ivory
Meta: Magnetic closure; 100% polyurethane; Faux leather; Tote; By Street Level; imported; BP.

Fig. 1: More examples for FACAD. The images are of different perspectives, colors and scenarios (shop-street). Other information contained include a title, a description (caption) from a fashion expert, the color info and the meta info. Words in color denotes the attributes used in sentence.
### Table 1: List of categories.

| subset  | categories                        |
|---------|-----------------------------------|
| top     | tee, jacket, sweater, blouse, coat, sweatshirt, bra, cardigan, hood, tank, blazer, top, polo, pullover, camisole, vest, turtleneck, henley, parka |
| bottom  | jeans, pants, shorts, skirt, trousers, legging, trunk, thongs, sweatpants, jeggings, tights, chinos |
| one-piece | dress, gown, jumpsuit, swimsuit, bodysuit, pajamas, robe, suit, one-piece, bikini, chemise |
| shoes   | boot, sandal, sneaker, pump, loafer, joggers, flip, slippers, wedge, wingtip, clog |
| bags    | backpack, handbag, shoulder bag, beach bag, clutch bag, tote bag, belt bag, satchels |
| accessories | watch, hat, bracelet, gloves, necklace, glasses, wallet, rings, belt, brooches, earrings, tie, scarves |

### Table 2: List of attributes.

| attributes |
|------------|
| brief, paillette, slipdress, pull, park, linen, shell, sleeve, knit, maxi, dress, collar, poplin, cotton, wrap, strap, monk, logo, hood, plaid, slingback, water-resistant, fringe, stripe, sport, midi, bralette, paisley, platform, high-waist, faux-leather, front, henley, organic, track, nylon, pocket, stud, flare, thongs, waterproof, tie, neck, sparkle, graffiti, heart, chinos, cocktail, gown, silk, fill, power, brocade, sleeveless, print, skirt, solution, sequin, waffle, satin, biker, graphic, burnout, wide-leg, garment, v-neck, nursing, lace, miniskirt, blouson, chambray, step, hem, wool, straight, zip, ankle, leopard, fit, acid, cable, taper, corduroy, slide, ruffle, crop, boxer, reversible, camisole, slim, velvet, curve, dot, tank, sheath, denim, open, toe, basketball, floral, button, paperbag, trunk, wedding, bodice, chiffon, horse, stretch, crepe, twist, flag, oxford, thermal, cargo, teddy, bear, fur, patent, maternity, ponte, crewneck, classic, funnel, alpaca, blend, flannel, chukka, pinstripe, seersucker, side, bottom, sundress, cup, dye, isle, jacquard, shoulder, turtleneck, check, center, seam, jersey, athletic, dobby, strapless, pleat, utility, fleece, sweatshirt, pinafore, swim, gingham, wedge, cashmere, rib, lounge, georgette, control, tights, body, herringbone, line, espadrille, waistband, sock, metallic, minidress, board, boucl, reverse, weave, tech, joggers, split, cardigan, french, terry, knee, slit, poncho, trim, con, star, moon, inset, bib, space, chain, vintage, cutout, trench, shaker, stitch, twill, flat, trousers, trumpet, derby, peplum, illusion, mesh, bodysuit, romper, bandeau, keyhole, balloon, ribbed, cozy, slippers, solid, pliss, drawstring, hybrid, cap, merino, racerback, chemise, quarter, matthew, mixed, mountain, fine, gauge, coyote, rainbow, roll, zebra, cuff, portrait, pump, wave, girl, honeycomb, snake, puffer, skin, double, face, organza, butterfly, sheer, army, tunic, prairie, gore, tex, texture, sleep, sweatpants, loafer, … |