APPENDIX

A. Bias Defining Words

By default, WordBias shows 5 kinds of biases namely Gender, Religion, Age, Race and economic. Following are the list of words used to compute bias scores for each of those categories.

Male (Gender)

man, men, he, boy, boys, father, son, guy, male, his, himself, him, masculine

Female (Gender)

woman, women, girl, she, mother, daughter, gal, female, her, herself, hers, feminine

Young (Age)

Tiffany, michelle, cindy, kristy, brad, eric, joey, billy

Old (Age)

ethel, bernice, gertrude, agnes, cecil, wilbert, mortimer, edgar

Islam (Religion)

allah, ramadan, turban, emir, salaam, sunni, koran, imam, sultan, prophet, veil, ayatollah, shiite, mosque, islam, sheik, muslim, muhammad

Christainity (Religion)

baptism, messiah, catholicism, resurrection, christianity, salvation, protestant, gospel, trinity, jesus, christ, christian, cross, catholic, church

Black (Race)

aisha,keisha,tamika,lakisha,tanisha,latoya,kenya,latonya,ebony,rasheed,tremayne,kareem,darn ell,tyrone,hakim,jamal,leroy,jermaine

White (Race)

emily,anne,jill,allison,laurie,sarah,meredith,carrie,kristen,todd,neil,geoffrey,brett,brendan,greg,m atthew,jay,brad,harris, nelson, robinson, thompson, moore, wright, anderson, clark, jackson, taylor, scott, davis,allen, adams, lewis, williams, jones, wilson, martin, johnson

Rich (economic)

rich, richer, richest, affluence, affluent, wealthy, costly, lavish, luxury, plush, expensive, invaluable

Poor (economic)

poor, poorer, poorest, needy, impoverished, economical, inexpensive, cheap, bankrupt, worthless, basic, plain

B. Neutral Words

To quickly audit a given embedding for different biases, WordBias provides a set of words which should ideally be neutral for most kinds of biases like gender, race, etc. Following are the list of such neutral words based on different categories.

Profession

teacher, author, mechanic, broker, baker, surveyor, laborer,,surgeon, gardener, painter, dentist, janitor, athlete, manager, conductor, carpenter, housekeeper, secretary, economist, geologist, clerk, doctor, judge, physician, lawyer, artist, instructor, dancer, photographer, inspector, musician, soldier, librarian, professor, psychologist, nurse, sailor, accountant, architect, chemist, administrator, physicist, scientist, farmer

Physical Appearance

alluring, voluptuous, blushing, homely, plump, sensual, gorgeous, slim, bald, athletic, fashionable, stout, ugly, muscular, slender, feeble, handsome, healthy, attractive, fat, weak, thin, pretty, beautiful, strong

Extremism

terror, terrorism, violence, attack, death, military, war, radical, injuries, bomb, target,,conflict, dangerous, kill, murder, strike, dead, violence, fight, death, force, stronghold, wreckage, aggression,,slaughter, execute, overthrow, casualties, massacre, retaliation, proliferation, militia, hostility, debris, acid,,execution, militant, rocket, guerrilla, sacrifice, enemy, soldier, terrorist, missile, hostile, revolution, resistance,shoot

Personality Traits

adventurous, helpful, affable, humble, capable, imaginative, charming, impartial, confident, independent, conscientious, keen, cultured, meticulous, dependable, observant, discreet, optimistic, persistent, encouraging, precise, exuberant, reliable, fair, trusting, fearless, valiant, gregarious, arrogant, rude, sarcastic, cowardly, dishonest, sneaky, stingy, impulsive, sullen, lazy, surly, malicious, obnoxious, unfriendly, picky, unruly, pompous, vulgar