

The Alchemist by Paulo Coelho

For every method (LUHN, YAKE, and our method) we extracted 166 words. For our method the actual number of words is much larger; see below. Among those 166 words for each method, human experts selected keywords of the text that are colored green. The selected keywords were counted, red numbers indicate the running count. LUHN, YAKE and our method identified 54, 55 and 49 keywords, respectively. For our situation those 166 words were divided equally between global and local potential keywords. Word counting is indicated in brown.

OUR METHOD. GLOBAL KEYWORDS WERE SELECTED ACCORDING TO $A_6 < 1/3$ (A_6 is the sixth degree variance). 166 EXTRACTED WORDS.

['boy', 'desert', 'man', 'alchemist', 'day', 'time', 'thought', 'people', 'sheep', 'wind', 'treasure', 'dream', 'told', 'heart', 'merchant', 'englishman', 'men', 'love', 'woman', 'learn', 'book', 'crystal', 'language', 'omen', 'soul', 'shepherd', 'stone', 'understand', 'king', 'answer', 'hand', 'begin', 'place', 'night', 'money', 'shop', 'read', 'sand', 'turn', 'god', 'search', 'travel', 'sun', 'pyramid', 'good', 'caravan', 'strange', 'felt', 'eye', 'fatima', 'write', 'left', 'friend', 'talk', 'appear', 'lead', 'brought', 'remember', 'palm', 'hour', 'happen', 'entire', 'fear', 'point', 'animal', 'long', 'wise', 'father', 'continued', 'flock', 'future', 'buy', 'tea', 'sat', 'city', 'story', 'leave', 'sell', 'girl', 'son', 'ill', 'field', 'force', [83] 'pass', 'pouch', 'sense', 'alchemy', 'true', 'plaza', 'lot', 'hidden', 'urim', 'morning', 'conversation', 'beautiful', 'emerald', 'eat', 'fall', 'glass', 'afraid', 'dune', 'thummim', 'camp', 'sky', 'wine', 'tomorrow', 'transform', 'laugh', 'horizon', 'nearby', 'reading', 'white', 'mecca', 'achieve', 'piece', 'stop', 'forgotten', 'black', 'light', 'follow', 'desire', 'continue', 'need', 'approach', 'suffer', 'danger', 'matter', 'simple', 'wander', 'slowly', 'gypsy', 'frighten', 'come', 'philosopher', 'country', 'save', 'arrive', 'spoken', 'doesnt', 'exchange', 'stood', 'difficult', 'spanish', 'idea', 'stay', 'town', 'tarifa', 'spend', 'bird', 'recognize', 'hole', 'order', 'traveler', 'bag', 'metal', 'andalusia', 'today', 'awoke', 'hookah', 'play', 'strong', 'onetenth', 'simply', 'climb', 'relieve', 'church' [166]]

OUR METHOD. LOCAL KEYWORDS WERE SELECTED ACCORDING TO $A_6 > 3$ (A_6 is the sixth degree variance). 166 EXTRACTED WORDS.

['oasis', 'live', 'look', 'driver', 'arab', 'speak', 'war', 'change', 'person', 'silence', 'listen', 'call', 'face', 'heard', 'cross', 'happy', 'sword', 'stranger', 'falcon', 'young', 'tribesman', 'reason', 'arm', 'tree', 'universe', 'carry', 'daughter', 'smile', 'chieftain', 'spent', 'enter', 'battle', 'finally', 'decision', 'set', 'blow', 'teach', 'food', 'fill', 'held', 'tradition', 'tribe', 'monk', 'hawk', 'remind', 'remain', 'horseman', 'bad', 'secret', 'saalem', 'thief', 'shoulder', 'africa', 'jacket', 'deal', 'owner', 'tangier', 'bar', 'ready', 'surround', 'hill', 'serve', 'pay', 'angel', 'game', 'universal', 'arabic', 'fact', 'customer', 'creation', 'mount', 'flight', 'sought', 'concentrate', 'sit', 'courage', 'attention', 'street', 'castle', 'open', 'army', 'alfayoum', 'power', [83] 'rode', 'seer', 'shear', 'rock', 'charge', 'maktub', 'unable', 'presence', 'test', 'allow', 'offer', 'quiet', 'pursue', 'dig', 'warehouse', 'room', 'kind', 'swear', 'enemy', 'hear', 'clean', 'elixir', 'oil', 'priest', 'wool', 'foot', 'bring', 'fail', 'pursuit', 'village', 'candy', 'enjoy', 'head', 'pocket', 'stall', 'miner', 'signal', 'window', 'regret', 'circle', 'scream', 'seller', 'enormous', 'interested', 'avoid', 'dust', 'worry', 'impressed', 'chant', 'succeed', 'converse', 'business', 'liquid', 'sale', 'hop', 'spoon', 'obligation', 'dismount', 'display', 'pan', 'pray', 'excite', 'demonstrate', 'buying', 'disappointed', 'easy', 'wrong', 'fire', 'cold', 'copper', 'feed', 'blew', 'market', 'guess', 'area', 'well', 'fascinate', 'commander', 'fight', 'ticket', 'port', 'smell', 'military' [166]]

LUHN (166 EXTRACTED WORDS)

['boy', 'desert', 'man', 'alchemist', 'day', 'time', 'thought', 'people', 'life', 'sheep', 'wind', 'dream', 'treasure', 'told', 'ask', 'heart', 'merchant', 'englishman', 'men', 'love', 'woman', 'learn', 'book', 'knew', 'crystal', 'language', 'omen', 'shepherd', 'soul', 'destiny', 'oasis', 'stone', 'understand', 'king', 'want', 'answer', 'year', 'return', 'camel', 'begin', 'hand', 'place', 'night', 'gold', 'money', 'read', 'shop', 'god', 'turn', 'sand', 'search', 'travel', 'sun', 'live', 'good', 'pyramid', 'caravan', 'realize', 'work', 'tent', 'strange', 'eye', 'felt', 'die', 'look', 'driver', 'fatima', 'write', 'arab', 'left', 'decide', 'friend', 'talk', 'appear', 'child', 'speak', 'war', 'lead', 'moment', 'brought', 'spoke', 'change', 'remember', 'entire', 'wait', 'hour', 'walk', 'palm', 'happen', 'person', 'long', 'animal', 'water', 'think', 'point', 'fear', 'flock', 'longer', 'father', 'continued', 'buy', 'met', 'wise', 'listen', 'horse', 'silence', 'future', 'call', 'sat', 'feel', 'wasnt', 'understood', 'tea', 'sell', 'story', 'city', 'leave', 'heard', 'face', 'star', 'bit', 'girl', 'son', 'ill', 'happy', 'fell', 'egypt', 'cross', 'field', 'stranger', 'force', 'sword', 'pass', 'reach', 'young', 'pouch', 'earth', 'falcon', 'afternoon', 'great', 'true', 'sense', 'reason', 'alchemy', 'tree', 'arm', 'tribesman', 'lot', 'hidden',

'plaza', 'small', 'universe', 'observe', 'move', 'watch', 'tribal', 'moon', 'daughter',
'carry', 'beautiful', 'conversation', 'emerald', 'urim', 'morning', 'smile', 'chieftain']

YAKE (166 EXTRACTED WORDS)

['boy', 'desert', 'man', 'alchemist', 'day', 'thought', 'time', 'people', 'life', 'sheep',
'wind', 'treasure', 'dream', 'told', 'heart', 'merchant', 'englishman', 'men',
'crystal', 'love', 'woman', 'learn', 'language', 'book', 'knew', 'omen', 'destiny',
'stone', 'soul', 'shepherd', 'oasis', 'understand', 'king', 'answer', 'camel', 'begin',
'return', 'year', 'hand', 'gold', 'place', 'night', 'money', 'read', 'shop', 'turn', 'sand',
'search', 'god', 'sun', 'travel', 'pyramid', 'live', 'good', 'caravan', 'work', 'realize',
'tent', 'strange', 'driver', 'felt', 'eye', 'die', 'speak', 'fatima', 'write', 'arab', 'left',
'talk', 'decide', 'friend', 'child', 'war', 'lead', 'moment', 'brought', 'remember',
'spoke', 'change', 'entire', 'palm', 'wait', 'person', 'happen', 'walk', 'hour', 'water',
'long', 'point', 'animal', 'fear', 'buy', 'wise', 'listen', 'met', 'silence', 'continued',
'horse', 'flock', 'father', 'longer', 'future', 'tea', 'understood', 'call', 'sat', 'wasnt',
'feel', 'sell', 'face', 'leave', 'story', 'heard', 'city', 'cross', 'egypt', 'son', 'fell', 'star',
'bit', 'girl', 'happy', 'ill', 'pass', 'field', 'sword', 'stranger', 'force', 'young', 'pouch',
'earth', 'falcon', 'reach', 'tree', 'true', 'afternoon', 'arm', 'tribesman', 'great',
'sense', 'reason', 'alchemy', 'tribal', 'hidden', 'universe', 'watch', 'plaza', 'move',
'lot', 'observe', 'moon', 'small', 'urim', 'chieftain', 'emerald', 'daughter', 'smile',
'beautiful', 'carry', 'conversation', 'morning', 'thummim', 'enter', 'silent', 'glass',
'spent']