How do archaeologists write about race? Computational text analysis of 40 years of Society of American Archaeology Annual Meeting Abstracts.

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Text of abstract

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Keywords: keyword 1; keyword 2; keyword 3

Highlights: These are the highlights

source(here::here('analysis/code/001-word-stats-plots.R'))

source(here::here('analysis/code/002-topic-model.R'))  
#> Beginning Spectral Initialization   
#> Calculating the gram matrix...  
#> Using only 10000 most frequent terms during initialization...  
#> Finding anchor words...  
#> Initializing tSNE with PCA...  
#> Using tSNE to project to a low-dimensional space...  
#> Calculating exact convex hull...  
#>   
#> Recovering initialization...  
#> ....................................................................................................  
#> Initialization complete.  
#> ......................................................................................................  
#> Completed E-Step (48 seconds).   
#> Completed M-Step.   
#> Completing Iteration 1 (approx. per word bound = -9.018)   
#> ......................................................................................................  
#> Completed E-Step (46 seconds).   
#> Completed M-Step.   
#> Completing Iteration 2 (approx. per word bound = -8.427, relative change = 6.551e-02)   
#> ......................................................................................................  
#> Completed E-Step (44 seconds).   
#> Completed M-Step.   
#> Completing Iteration 3 (approx. per word bound = -8.391, relative change = 4.276e-03)   
#> ......................................................................................................  
#> Completed E-Step (66 seconds).   
#> Completed M-Step.   
#> Completing Iteration 4 (approx. per word bound = -8.383, relative change = 9.494e-04)   
#> ......................................................................................................  
#> Completed E-Step (42 seconds).   
#> Completed M-Step.   
#> Completing Iteration 5 (approx. per word bound = -8.379, relative change = 4.808e-04)   
#> Topic 1: mixtec, mexico, production, local, north   
#> Topic 2: wagner, mexico, artifacts, landscape, south   
#> Topic 3: valdez, northern, production, van, past   
#> Topic 4: production, southern, regional, middle, lithic   
#> Topic 5: itzá, past, landscape, spatial, first   
#> Topic 6: chichén, political, middle, mexico, large   
#> Topic 7: production, landscape, age, political, local   
#> Topic 8: political, production, armenia, california, landscape   
#> Topic 9: landscape, north, project, artifacts, northern   
#> Topic 10: production, landscape, project, features, age   
#> Topic 11: project, landscape, past, local, mexico   
#> Topic 12: landscape, lithic, production, political, oldowan   
#> Topic 13: ranged, landscape, local, age, practices   
#> Topic 14: regional, production, mexico, local, teotihuacan's   
#> Topic 15: production, local, mexico, political, regional   
#> Topic 16: north, regional, development, resource, artifacts   
#> Topic 17: past, local, project, public, heritage   
#> Topic 18: production, southern, mexico, north, northern   
#> Topic 19: mexico, north, production, landscape, southern   
#> Topic 20: mexico, landscape, northern, history, based   
#> Topic 21: project, carpathian, history, local, production   
#> Topic 22: regional, organization, past, production, systems   
#> Topic 23: production, political, southern, mexico, different   
#> Topic 24: rock, art, first, production, landscape   
#> Topic 25: production, mexico, political, community, southern   
#> Topic 26: middle, northern, production, upper, first   
#> Topic 27: sweet, north, landscape, history, coast   
#> Topic 28: political, past, based, mesoamérica, community   
#> Topic 29: project, local, past, public, landscape   
#> Topic 30: mexico, middle, north, field, california   
#> Topic 31: comparability, landscape, complex, moche, different   
#> Topic 32: landscape, based, north, first, south   
#> Topic 33: production, long, groups, different, middle   
#> Topic 34: lynch, first, landscape, mexico, artifacts   
#> Topic 35: field, community, century, based, local   
#> Topic 36: chase, different, production, age, local   
#> Topic 37: china, age, production, bronze, different   
#> Topic 38: age, mexico, leeward, production, political   
#> Topic 39: past, approaches, political, world, work   
#> Topic 40: landscape, first, production, political, mexico   
#> Topic 41: different, san, local, mexico, production   
#> Topic 42: landscape, regional, microartifact, local, based   
#> Topic 43: ritual, classic, landscape, mexico, political   
#> Topic 44: past, project, community, museum, landscape   
#> Topic 45: first, political, community, landscape, different   
#> Topic 46: production, age, pottery, artifacts, different   
#> Topic 47: project, local, stone, mexico, management   
#> Topic 48: landscape, regional, mexico, california, century   
#> Topic 49: different, national, asymmetry, north, groups   
#> Topic 50: project, local, national, public, mexico   
#> Topic 51: california, political, production, pottery, ritual   
#> Topic 52: history, south, mexico, southern, landscape   
#> Topic 53: landscape, community, years, past, project   
#> Topic 54: age, regional, local, project, political   
#> Topic 55: florida, history, museum, local, large   
#> Topic 56: community, artifacts, project, local, history   
#> Topic 57: production, landscape, project, century, mexico   
#> Topic 58: landscape, long, past, north, project   
#> Topic 59: mexico, landscape, project, communities, local   
#> Topic 60: local, project, community, groups, history   
#> Topic 61: project, mexico, first, classic, southern   
#> Topic 62: mexico, areas, systems, population, lithic   
#> Topic 63: political, organization, lithic, different, production   
#> Topic 64: california, project, local, materials, national   
#> Topic 65: production, southern, stone, political, north   
#> Topic 66: different, age, first, based, island   
#> Topic 67: production, mexico, southern, lithic, regional   
#> Topic 68: past, artifacts, age, project, middle   
#> Topic 69: community, mexico, local, landscape, communities   
#> Topic 70: first, community, mexico, landscape, production   
#> Topic 71: production, northern, landscape, mexico, political   
#> Topic 72: corps, army, engineers, program, national   
#> Topic 73: production, northern, island, north, local   
#> Topic 74: landscape, local, production, southern, century   
#> Topic 75: past, project, century, landscape, historic   
#> Topic 76: production, project, middle, landscape, southern   
#> Topic 77: past, project, island, artifacts, landscape   
#> Topic 78: local, political, different, regional, community   
#> Topic 79: age, production, first, southern, landscape   
#> Topic 80: china, pottery, project, vessels, qijia   
#> ......................................................................................................  
#> Completed E-Step (26 seconds).   
#> Completed M-Step.   
#> Completing Iteration 6 (approx. per word bound = -8.377, relative change = 3.017e-04)   
#> ......................................................................................................  
#> Completed E-Step (26 seconds).   
#> Completed M-Step.   
#> Completing Iteration 7 (approx. per word bound = -8.375, relative change = 2.037e-04)   
#> ......................................................................................................  
#> Completed E-Step (23 seconds).   
#> Completed M-Step.   
#> Completing Iteration 8 (approx. per word bound = -8.374, relative change = 1.436e-04)   
#> ......................................................................................................  
#> Completed E-Step (21 seconds).   
#> Completed M-Step.   
#> Completing Iteration 9 (approx. per word bound = -8.373, relative change = 1.060e-04)   
#> ......................................................................................................  
#> Completed E-Step (37 seconds).   
#> Completed M-Step.   
#> Completing Iteration 10 (approx. per word bound = -8.372, relative change = 8.238e-05)   
#> Topic 1: mixtec, mexico, production, local, north   
#> Topic 2: wagner, mexico, landscape, artifacts, south   
#> Topic 3: van, northern, production, valdez, past   
#> Topic 4: production, southern, regional, middle, northern   
#> Topic 5: past, landscape, itzá, spatial, first   
#> Topic 6: political, middle, mexico, large, production   
#> Topic 7: production, landscape, age, political, local   
#> Topic 8: political, production, california, landscape, different   
#> Topic 9: landscape, north, project, artifacts, northern   
#> Topic 10: production, landscape, project, features, age   
#> Topic 11: project, landscape, past, local, mexico   
#> Topic 12: landscape, production, lithic, political, regional   
#> Topic 13: landscape, local, age, practices, southern   
#> Topic 14: regional, production, mexico, local, middle   
#> Topic 15: production, local, mexico, political, regional   
#> Topic 16: north, development, regional, resource, middle   
#> Topic 17: past, local, project, public, heritage   
#> Topic 18: production, southern, mexico, north, northern   
#> Topic 19: mexico, north, production, landscape, southern   
#> Topic 20: mexico, landscape, northern, history, based   
#> Topic 21: project, production, local, history, landscape   
#> Topic 22: regional, organization, past, production, systems   
#> Topic 23: production, political, southern, mexico, different   
#> Topic 24: rock, art, first, production, landscape   
#> Topic 25: production, mexico, political, community, south   
#> Topic 26: middle, production, northern, southern, upper   
#> Topic 27: north, landscape, history, local, occupation   
#> Topic 28: political, past, based, community, features   
#> Topic 29: project, local, past, public, national   
#> Topic 30: mexico, middle, north, field, local   
#> Topic 31: landscape, complex, long, different, mexico   
#> Topic 32: landscape, based, north, first, south   
#> Topic 33: production, long, groups, different, middle   
#> Topic 34: first, landscape, mexico, artifacts, project   
#> Topic 35: field, community, based, century, political   
#> Topic 36: chase, different, production, age, local   
#> Topic 37: china, age, production, bronze, different   
#> Topic 38: age, mexico, political, southern, production   
#> Topic 39: past, approaches, political, world, work   
#> Topic 40: landscape, first, production, mexico, political   
#> Topic 41: different, san, local, mexico, production   
#> Topic 42: landscape, local, regional, based, large   
#> Topic 43: ritual, classic, mexico, landscape, political   
#> Topic 44: past, project, community, landscape, museum   
#> Topic 45: first, community, landscape, north, different   
#> Topic 46: production, age, pottery, artifacts, different   
#> Topic 47: project, local, mexico, stone, landscape   
#> Topic 48: landscape, mexico, regional, california, national   
#> Topic 49: different, national, north, groups, project   
#> Topic 50: project, local, national, public, mexico   
#> Topic 51: california, production, political, pottery, ritual   
#> Topic 52: history, south, southern, landscape, mexico   
#> Topic 53: landscape, years, community, project, past   
#> Topic 54: age, regional, local, project, political   
#> Topic 55: florida, history, museum, local, large   
#> Topic 56: community, artifacts, project, local, history   
#> Topic 57: production, project, landscape, mexico, century   
#> Topic 58: landscape, long, past, project, north   
#> Topic 59: mexico, project, communities, landscape, different   
#> Topic 60: local, project, community, history, groups   
#> Topic 61: project, mexico, first, classic, southern   
#> Topic 62: mexico, areas, lithic, systems, population   
#> Topic 63: political, organization, lithic, production, long   
#> Topic 64: project, california, local, materials, past   
#> Topic 65: production, southern, stone, landscape, political   
#> Topic 66: different, age, first, based, island   
#> Topic 67: production, mexico, southern, lithic, regional   
#> Topic 68: past, artifacts, age, project, middle   
#> Topic 69: community, local, landscape, mexico, communities   
#> Topic 70: first, community, mexico, landscape, production   
#> Topic 71: production, northern, landscape, political, mexico   
#> Topic 72: corps, engineers, regional, army, production   
#> Topic 73: production, northern, island, north, local   
#> Topic 74: landscape, local, production, southern, century   
#> Topic 75: past, project, landscape, century, political   
#> Topic 76: production, project, middle, landscape, southern   
#> Topic 77: past, island, project, different, production   
#> Topic 78: local, political, different, regional, community   
#> Topic 79: age, production, first, southern, landscape   
#> Topic 80: china, pottery, project, vessels, based   
#> ......................................................................................................  
#> Completed E-Step (30 seconds).   
#> Completed M-Step.   
#> Completing Iteration 11 (approx. per word bound = -8.372, relative change = 6.726e-05)   
#> ......................................................................................................  
#> Completed E-Step (27 seconds).   
#> Completed M-Step.   
#> Completing Iteration 12 (approx. per word bound = -8.371, relative change = 5.416e-05)   
#> ......................................................................................................  
#> Completed E-Step (32 seconds).   
#> Completed M-Step (3 seconds).   
#> Completing Iteration 13 (approx. per word bound = -8.371, relative change = 4.699e-05)   
#> ......................................................................................................  
#> Completed E-Step (35 seconds).   
#> Completed M-Step.   
#> Completing Iteration 14 (approx. per word bound = -8.371, relative change = 3.937e-05)   
#> ......................................................................................................  
#> Completed E-Step (54 seconds).   
#> Completed M-Step.   
#> Completing Iteration 15 (approx. per word bound = -8.370, relative change = 3.541e-05)   
#> Topic 1: mexico, production, local, north, mixtec   
#> Topic 2: wagner, mexico, landscape, artifacts, south   
#> Topic 3: van, northern, production, large, past   
#> Topic 4: production, southern, regional, middle, northern   
#> Topic 5: past, landscape, spatial, first, itzá   
#> Topic 6: political, middle, mexico, large, production   
#> Topic 7: production, landscape, age, political, local   
#> Topic 8: political, production, california, landscape, different   
#> Topic 9: landscape, north, project, artifacts, first   
#> Topic 10: production, landscape, project, features, age   
#> Topic 11: project, landscape, past, local, ritual   
#> Topic 12: landscape, production, lithic, political, regional   
#> Topic 13: landscape, local, age, practices, southern   
#> Topic 14: regional, production, mexico, middle, local   
#> Topic 15: production, local, mexico, political, regional   
#> Topic 16: north, development, regional, resource, middle   
#> Topic 17: past, local, project, public, heritage   
#> Topic 18: production, southern, mexico, north, northern   
#> Topic 19: mexico, north, production, landscape, southern   
#> Topic 20: mexico, landscape, northern, based, history   
#> Topic 21: project, production, local, history, landscape   
#> Topic 22: regional, organization, past, systems, development   
#> Topic 23: production, political, southern, mexico, different   
#> Topic 24: rock, art, first, production, landscape   
#> Topic 25: production, mexico, political, community, south   
#> Topic 26: middle, production, northern, southern, local   
#> Topic 27: north, landscape, local, history, occupation   
#> Topic 28: political, past, based, community, features   
#> Topic 29: project, local, past, public, national   
#> Topic 30: mexico, middle, north, field, local   
#> Topic 31: landscape, complex, long, different, mexico   
#> Topic 32: landscape, based, north, first, south   
#> Topic 33: production, long, groups, different, middle   
#> Topic 34: first, landscape, mexico, project, artifacts   
#> Topic 35: field, community, based, century, political   
#> Topic 36: chase, different, production, age, local   
#> Topic 37: china, age, production, bronze, different   
#> Topic 38: age, mexico, political, history, southern   
#> Topic 39: past, approaches, political, world, work   
#> Topic 40: landscape, first, production, mexico, large   
#> Topic 41: different, san, local, mexico, production   
#> Topic 42: landscape, local, regional, based, large   
#> Topic 43: ritual, classic, mexico, landscape, political   
#> Topic 44: past, project, community, landscape, museum   
#> Topic 45: first, community, landscape, north, different   
#> Topic 46: production, age, pottery, artifacts, different   
#> Topic 47: local, project, mexico, landscape, stone   
#> Topic 48: landscape, mexico, regional, california, national   
#> Topic 49: different, national, north, groups, project   
#> Topic 50: project, local, national, public, mexico   
#> Topic 51: production, california, political, pottery, ritual   
#> Topic 52: history, south, southern, landscape, political   
#> Topic 53: landscape, years, community, project, past   
#> Topic 54: age, regional, local, project, political   
#> Topic 55: florida, history, museum, local, large   
#> Topic 56: community, artifacts, project, local, history   
#> Topic 57: production, project, landscape, mexico, century   
#> Topic 58: landscape, long, past, north, project   
#> Topic 59: mexico, project, communities, landscape, different   
#> Topic 60: local, project, community, history, middle   
#> Topic 61: project, mexico, first, classic, southern   
#> Topic 62: mexico, areas, lithic, systems, techniques   
#> Topic 63: political, organization, lithic, production, long   
#> Topic 64: project, california, local, materials, past   
#> Topic 65: production, southern, stone, landscape, political   
#> Topic 66: different, age, first, based, island   
#> Topic 67: production, mexico, southern, lithic, archaic   
#> Topic 68: past, artifacts, age, project, middle   
#> Topic 69: community, local, landscape, mexico, communities   
#> Topic 70: first, community, mexico, landscape, production   
#> Topic 71: production, northern, landscape, political, mexico   
#> Topic 72: regional, production, corps, system, management   
#> Topic 73: production, island, northern, north, local   
#> Topic 74: landscape, local, production, southern, century   
#> Topic 75: past, project, landscape, century, political   
#> Topic 76: production, project, middle, landscape, southern   
#> Topic 77: past, island, project, different, local   
#> Topic 78: local, political, different, community, regional   
#> Topic 79: age, production, first, southern, landscape   
#> Topic 80: project, pottery, china, vessels, based   
#> ......................................................................................................  
#> Completed E-Step (24 seconds).   
#> Completed M-Step.   
#> Completing Iteration 16 (approx. per word bound = -8.370, relative change = 3.325e-05)   
#> ......................................................................................................  
#> Completed E-Step (31 seconds).   
#> Completed M-Step.   
#> Completing Iteration 17 (approx. per word bound = -8.370, relative change = 2.870e-05)   
#> ......................................................................................................  
#> Completed E-Step (21 seconds).   
#> Completed M-Step.   
#> Completing Iteration 18 (approx. per word bound = -8.370, relative change = 2.855e-05)   
#> ......................................................................................................  
#> Completed E-Step (19 seconds).   
#> Completed M-Step.   
#> Completing Iteration 19 (approx. per word bound = -8.369, relative change = 2.574e-05)   
#> ......................................................................................................  
#> Completed E-Step (22 seconds).   
#> Completed M-Step.   
#> Completing Iteration 20 (approx. per word bound = -8.369, relative change = 2.586e-05)   
#> Topic 1: mexico, production, local, north, classic   
#> Topic 2: mexico, wagner, landscape, artifacts, south   
#> Topic 3: van, northern, production, large, landscape   
#> Topic 4: production, southern, middle, regional, northern   
#> Topic 5: past, landscape, spatial, local, first   
#> Topic 6: political, middle, mexico, large, production   
#> Topic 7: production, landscape, age, political, local   
#> Topic 8: political, production, california, landscape, different   
#> Topic 9: landscape, north, artifacts, project, first   
#> Topic 10: production, landscape, project, features, age   
#> Topic 11: project, landscape, past, local, ritual   
#> Topic 12: landscape, production, lithic, political, regional   
#> Topic 13: landscape, local, age, practices, southern   
#> Topic 14: regional, production, mexico, middle, local   
#> Topic 15: production, local, mexico, political, regional   
#> Topic 16: north, development, resource, regional, project   
#> Topic 17: past, local, public, project, heritage   
#> Topic 18: production, southern, mexico, north, northern   
#> Topic 19: mexico, north, production, landscape, southern   
#> Topic 20: mexico, landscape, northern, history, based   
#> Topic 21: project, production, local, history, landscape   
#> Topic 22: regional, organization, past, systems, development   
#> Topic 23: production, political, southern, mexico, different   
#> Topic 24: rock, art, first, production, landscape   
#> Topic 25: production, mexico, political, community, south   
#> Topic 26: middle, production, northern, southern, local   
#> Topic 27: north, landscape, local, history, occupation   
#> Topic 28: political, past, based, community, features   
#> Topic 29: project, local, past, public, national   
#> Topic 30: mexico, middle, north, field, local   
#> Topic 31: landscape, complex, long, different, communities   
#> Topic 32: landscape, based, north, first, south   
#> Topic 33: production, long, groups, different, middle   
#> Topic 34: first, landscape, mexico, project, artifacts   
#> Topic 35: field, community, based, century, political   
#> Topic 36: chase, different, production, age, local   
#> Topic 37: china, age, production, bronze, different   
#> Topic 38: age, mexico, political, history, southern   
#> Topic 39: past, approaches, political, world, work   
#> Topic 40: landscape, first, production, age, large   
#> Topic 41: different, san, local, mexico, production   
#> Topic 42: landscape, local, regional, based, large   
#> Topic 43: ritual, classic, mexico, landscape, political   
#> Topic 44: past, project, community, landscape, museum   
#> Topic 45: first, community, landscape, north, different   
#> Topic 46: production, age, pottery, artifacts, different   
#> Topic 47: local, project, mexico, landscape, stone   
#> Topic 48: landscape, mexico, regional, california, past   
#> Topic 49: different, national, north, groups, project   
#> Topic 50: project, local, national, mexico, public   
#> Topic 51: production, california, political, pottery, ritual   
#> Topic 52: history, south, southern, political, landscape   
#> Topic 53: landscape, years, community, project, past   
#> Topic 54: age, regional, local, project, political   
#> Topic 55: florida, history, local, museum, large   
#> Topic 56: artifacts, community, project, local, history   
#> Topic 57: production, project, landscape, mexico, century   
#> Topic 58: landscape, long, past, north, project   
#> Topic 59: mexico, communities, project, landscape, different   
#> Topic 60: local, project, community, history, middle   
#> Topic 61: project, mexico, first, classic, southern   
#> Topic 62: mexico, areas, lithic, systems, techniques   
#> Topic 63: political, organization, production, lithic, long   
#> Topic 64: project, california, local, materials, past   
#> Topic 65: production, southern, stone, landscape, political   
#> Topic 66: different, age, first, based, island   
#> Topic 67: production, mexico, southern, lithic, archaic   
#> Topic 68: past, artifacts, age, project, middle   
#> Topic 69: community, local, mexico, landscape, communities   
#> Topic 70: first, community, mexico, landscape, production   
#> Topic 71: production, northern, landscape, california, political   
#> Topic 72: production, regional, system, management, northern   
#> Topic 73: production, island, northern, north, local   
#> Topic 74: landscape, local, production, southern, century   
#> Topic 75: past, project, landscape, century, political   
#> Topic 76: production, project, middle, landscape, southern   
#> Topic 77: past, project, island, different, local   
#> Topic 78: local, political, different, community, regional   
#> Topic 79: age, production, first, southern, landscape   
#> Topic 80: china, pottery, project, vessels, based   
#> ......................................................................................................  
#> Completed E-Step (25 seconds).   
#> Completed M-Step.   
#> Completing Iteration 21 (approx. per word bound = -8.369, relative change = 2.354e-05)   
#> ......................................................................................................  
#> Completed E-Step (21 seconds).   
#> Completed M-Step.   
#> Completing Iteration 22 (approx. per word bound = -8.369, relative change = 2.276e-05)   
#> ......................................................................................................  
#> Completed E-Step (20 seconds).   
#> Completed M-Step.   
#> Completing Iteration 23 (approx. per word bound = -8.369, relative change = 2.109e-05)   
#> ......................................................................................................  
#> Completed E-Step (23 seconds).   
#> Completed M-Step.   
#> Completing Iteration 24 (approx. per word bound = -8.368, relative change = 1.949e-05)   
#> ......................................................................................................  
#> Completed E-Step (18 seconds).   
#> Completed M-Step.   
#> Completing Iteration 25 (approx. per word bound = -8.368, relative change = 2.131e-05)   
#> Topic 1: production, mexico, local, north, classic   
#> Topic 2: mexico, wagner, landscape, artifacts, south   
#> Topic 3: van, northern, production, landscape, large   
#> Topic 4: production, southern, middle, regional, northern   
#> Topic 5: past, landscape, spatial, local, first   
#> Topic 6: political, middle, mexico, large, production   
#> Topic 7: production, landscape, age, political, local   
#> Topic 8: political, production, california, landscape, different   
#> Topic 9: landscape, north, artifacts, project, first   
#> Topic 10: production, landscape, project, features, age   
#> Topic 11: project, landscape, past, local, ritual   
#> Topic 12: landscape, production, lithic, political, regional   
#> Topic 13: landscape, local, age, practices, southern   
#> Topic 14: regional, mexico, production, middle, local   
#> Topic 15: production, local, mexico, political, regional   
#> Topic 16: north, development, resource, regional, project   
#> Topic 17: past, local, public, project, heritage   
#> Topic 18: production, southern, mexico, north, northern   
#> Topic 19: mexico, north, production, landscape, southern   
#> Topic 20: mexico, landscape, northern, history, based   
#> Topic 21: project, production, local, history, landscape   
#> Topic 22: regional, organization, past, systems, development   
#> Topic 23: production, political, southern, mexico, different   
#> Topic 24: rock, art, first, production, landscape   
#> Topic 25: production, mexico, political, community, south   
#> Topic 26: middle, production, northern, local, southern   
#> Topic 27: north, local, landscape, history, occupation   
#> Topic 28: political, past, community, based, features   
#> Topic 29: project, local, past, public, national   
#> Topic 30: middle, mexico, north, field, local   
#> Topic 31: landscape, complex, long, different, communities   
#> Topic 32: landscape, based, north, first, south   
#> Topic 33: production, long, groups, middle, different   
#> Topic 34: first, landscape, mexico, project, artifacts   
#> Topic 35: field, community, based, century, political   
#> Topic 36: chase, different, production, age, local   
#> Topic 37: china, age, production, bronze, different   
#> Topic 38: age, mexico, political, history, production   
#> Topic 39: past, approaches, political, world, work   
#> Topic 40: landscape, first, production, age, communities   
#> Topic 41: different, san, mexico, local, production   
#> Topic 42: landscape, local, regional, based, large   
#> Topic 43: ritual, mexico, classic, landscape, political   
#> Topic 44: past, project, community, landscape, museum   
#> Topic 45: first, community, landscape, north, different   
#> Topic 46: production, age, pottery, artifacts, different   
#> Topic 47: local, project, mexico, landscape, stone   
#> Topic 48: landscape, mexico, regional, past, california   
#> Topic 49: different, national, north, groups, project   
#> Topic 50: project, local, national, mexico, public   
#> Topic 51: production, california, political, pottery, ritual   
#> Topic 52: history, south, southern, political, landscape   
#> Topic 53: landscape, years, community, project, past   
#> Topic 54: age, regional, local, project, political   
#> Topic 55: florida, history, local, museum, large   
#> Topic 56: artifacts, community, project, local, history   
#> Topic 57: production, project, landscape, mexico, middle   
#> Topic 58: landscape, long, past, north, project   
#> Topic 59: mexico, communities, project, landscape, different   
#> Topic 60: local, project, community, history, middle   
#> Topic 61: project, mexico, first, classic, southern   
#> Topic 62: mexico, areas, lithic, systems, techniques   
#> Topic 63: political, organization, production, long, lithic   
#> Topic 64: project, california, local, past, materials   
#> Topic 65: production, southern, stone, landscape, political   
#> Topic 66: different, age, first, based, island   
#> Topic 67: production, mexico, southern, lithic, archaic   
#> Topic 68: past, artifacts, age, project, middle   
#> Topic 69: community, local, mexico, landscape, communities   
#> Topic 70: first, community, mexico, landscape, production   
#> Topic 71: production, northern, landscape, california, political   
#> Topic 72: production, regional, system, northern, management   
#> Topic 73: production, island, northern, north, local   
#> Topic 74: landscape, local, production, southern, century   
#> Topic 75: past, project, landscape, century, political   
#> Topic 76: production, project, middle, landscape, southern   
#> Topic 77: past, project, island, local, different   
#> Topic 78: local, political, community, different, regional   
#> Topic 79: age, production, first, southern, landscape   
#> Topic 80: china, pottery, project, vessels, based   
#> ......................................................................................................  
#> Completed E-Step (22 seconds).   
#> Completed M-Step.   
#> Completing Iteration 26 (approx. per word bound = -8.368, relative change = 1.698e-05)   
#> ......................................................................................................  
#> Completed E-Step (27 seconds).   
#> Completed M-Step.   
#> Completing Iteration 27 (approx. per word bound = -8.368, relative change = 1.514e-05)   
#> ......................................................................................................  
#> Completed E-Step (20 seconds).   
#> Completed M-Step.   
#> Completing Iteration 28 (approx. per word bound = -8.368, relative change = 1.428e-05)   
#> ......................................................................................................  
#> Completed E-Step (25 seconds).   
#> Completed M-Step.   
#> Completing Iteration 29 (approx. per word bound = -8.368, relative change = 1.436e-05)   
#> ......................................................................................................  
#> Completed E-Step (21 seconds).   
#> Completed M-Step.   
#> Completing Iteration 30 (approx. per word bound = -8.368, relative change = 1.260e-05)   
#> Topic 1: production, mexico, local, north, classic   
#> Topic 2: mexico, landscape, wagner, artifacts, production   
#> Topic 3: van, northern, production, landscape, large   
#> Topic 4: southern, production, middle, regional, northern   
#> Topic 5: past, landscape, spatial, local, first   
#> Topic 6: political, middle, mexico, large, production   
#> Topic 7: production, landscape, age, political, local   
#> Topic 8: political, production, california, landscape, different   
#> Topic 9: landscape, north, artifacts, project, first   
#> Topic 10: production, landscape, project, features, age   
#> Topic 11: project, landscape, past, local, ritual   
#> Topic 12: landscape, production, lithic, political, regional   
#> Topic 13: landscape, local, age, practices, southern   
#> Topic 14: regional, mexico, production, middle, local   
#> Topic 15: production, local, mexico, political, regional   
#> Topic 16: north, development, resource, project, regional   
#> Topic 17: past, local, public, project, heritage   
#> Topic 18: production, southern, mexico, north, northern   
#> Topic 19: mexico, north, production, landscape, southern   
#> Topic 20: mexico, landscape, northern, history, based   
#> Topic 21: project, production, local, history, landscape   
#> Topic 22: regional, organization, past, systems, development   
#> Topic 23: production, political, southern, mexico, different   
#> Topic 24: rock, art, first, production, landscape   
#> Topic 25: production, mexico, political, community, south   
#> Topic 26: middle, production, northern, local, southern   
#> Topic 27: north, local, landscape, history, occupation   
#> Topic 28: political, past, community, based, features   
#> Topic 29: project, local, past, public, national   
#> Topic 30: middle, mexico, north, field, local   
#> Topic 31: landscape, complex, long, different, communities   
#> Topic 32: landscape, based, north, first, south   
#> Topic 33: production, long, groups, middle, north   
#> Topic 34: first, landscape, mexico, project, artifacts   
#> Topic 35: field, community, based, century, political   
#> Topic 36: chase, different, production, age, local   
#> Topic 37: china, age, production, bronze, different   
#> Topic 38: age, mexico, political, history, production   
#> Topic 39: past, approaches, political, world, work   
#> Topic 40: landscape, first, production, age, communities   
#> Topic 41: different, san, mexico, local, production   
#> Topic 42: landscape, local, regional, based, large   
#> Topic 43: ritual, mexico, classic, landscape, political   
#> Topic 44: past, project, community, landscape, people   
#> Topic 45: first, community, landscape, north, different   
#> Topic 46: production, age, pottery, artifacts, different   
#> Topic 47: local, project, mexico, landscape, stone   
#> Topic 48: landscape, mexico, regional, past, national   
#> Topic 49: different, national, north, groups, project   
#> Topic 50: project, local, national, mexico, public   
#> Topic 51: production, california, political, pottery, ritual   
#> Topic 52: history, south, southern, political, landscape   
#> Topic 53: landscape, years, community, project, past   
#> Topic 54: age, regional, local, project, political   
#> Topic 55: florida, history, local, museum, large   
#> Topic 56: artifacts, community, project, local, history   
#> Topic 57: production, landscape, project, middle, mexico   
#> Topic 58: landscape, long, past, north, project   
#> Topic 59: mexico, project, communities, landscape, different   
#> Topic 60: local, project, community, history, middle   
#> Topic 61: project, mexico, first, classic, southern   
#> Topic 62: mexico, areas, lithic, systems, techniques   
#> Topic 63: political, organization, production, long, lithic   
#> Topic 64: project, california, local, past, materials   
#> Topic 65: production, southern, stone, landscape, political   
#> Topic 66: different, age, first, based, island   
#> Topic 67: production, mexico, southern, lithic, archaic   
#> Topic 68: past, artifacts, project, age, middle   
#> Topic 69: community, local, mexico, landscape, communities   
#> Topic 70: first, community, mexico, landscape, production   
#> Topic 71: production, northern, landscape, california, political   
#> Topic 72: production, regional, system, northern, lithic   
#> Topic 73: production, island, northern, north, local   
#> Topic 74: landscape, local, production, southern, century   
#> Topic 75: past, project, landscape, century, political   
#> Topic 76: production, project, middle, landscape, southern   
#> Topic 77: past, project, island, local, different   
#> Topic 78: local, community, political, different, regional   
#> Topic 79: age, production, first, southern, landscape   
#> Topic 80: pottery, china, project, vessels, based   
#> ......................................................................................................  
#> Completed E-Step (20 seconds).   
#> Completed M-Step.   
#> Completing Iteration 31 (approx. per word bound = -8.367, relative change = 1.278e-05)   
#> ......................................................................................................  
#> Completed E-Step (24 seconds).   
#> Completed M-Step.   
#> Completing Iteration 32 (approx. per word bound = -8.367, relative change = 1.237e-05)   
#> ......................................................................................................  
#> Completed E-Step (22 seconds).   
#> Completed M-Step.   
#> Completing Iteration 33 (approx. per word bound = -8.367, relative change = 1.016e-05)   
#> ......................................................................................................  
#> Completed E-Step (17 seconds).   
#> Completed M-Step.   
#> Completing Iteration 34 (approx. per word bound = -8.367, relative change = 1.268e-05)   
#> ......................................................................................................  
#> Completed E-Step (22 seconds).   
#> Completed M-Step.   
#> Completing Iteration 35 (approx. per word bound = -8.367, relative change = 1.305e-05)   
#> Topic 1: production, mexico, local, north, classic   
#> Topic 2: mexico, landscape, wagner, artifacts, production   
#> Topic 3: van, northern, production, landscape, large   
#> Topic 4: southern, production, middle, regional, northern   
#> Topic 5: past, landscape, spatial, local, first   
#> Topic 6: political, middle, mexico, production, large   
#> Topic 7: production, landscape, age, political, local   
#> Topic 8: political, production, california, landscape, different   
#> Topic 9: landscape, north, artifacts, project, first   
#> Topic 10: production, landscape, project, features, age   
#> Topic 11: project, landscape, past, local, ritual   
#> Topic 12: landscape, production, lithic, political, regional   
#> Topic 13: landscape, local, age, practices, southern   
#> Topic 14: regional, mexico, production, middle, local   
#> Topic 15: production, local, mexico, political, regional   
#> Topic 16: development, north, resource, project, regional   
#> Topic 17: past, local, public, project, heritage   
#> Topic 18: production, southern, mexico, north, northern   
#> Topic 19: mexico, north, production, landscape, southern   
#> Topic 20: mexico, landscape, northern, history, based   
#> Topic 21: project, production, local, history, landscape   
#> Topic 22: regional, organization, past, systems, development   
#> Topic 23: production, political, southern, mexico, different   
#> Topic 24: rock, art, first, production, landscape   
#> Topic 25: production, mexico, political, community, south   
#> Topic 26: middle, production, northern, local, southern   
#> Topic 27: north, local, landscape, history, occupation   
#> Topic 28: political, past, community, based, features   
#> Topic 29: project, local, past, public, national   
#> Topic 30: mexico, middle, north, field, local   
#> Topic 31: landscape, complex, long, communities, different   
#> Topic 32: landscape, based, north, first, south   
#> Topic 33: production, long, groups, north, middle   
#> Topic 34: first, landscape, mexico, project, artifacts   
#> Topic 35: field, community, based, century, political   
#> Topic 36: chase, different, production, age, local   
#> Topic 37: china, age, production, bronze, different   
#> Topic 38: age, mexico, political, history, production   
#> Topic 39: past, approaches, world, political, work   
#> Topic 40: landscape, first, production, age, communities   
#> Topic 41: different, san, mexico, local, production   
#> Topic 42: landscape, local, regional, based, large   
#> Topic 43: ritual, mexico, classic, landscape, political   
#> Topic 44: past, project, community, landscape, people   
#> Topic 45: first, community, landscape, north, different   
#> Topic 46: production, age, pottery, artifacts, different   
#> Topic 47: local, project, mexico, landscape, past   
#> Topic 48: landscape, mexico, regional, past, national   
#> Topic 49: different, national, north, groups, project   
#> Topic 50: project, local, national, mexico, public   
#> Topic 51: production, california, political, pottery, ritual   
#> Topic 52: history, south, southern, political, landscape   
#> Topic 53: landscape, years, community, project, past   
#> Topic 54: age, regional, local, project, production   
#> Topic 55: florida, history, local, museum, large   
#> Topic 56: artifacts, community, project, local, history   
#> Topic 57: production, landscape, project, middle, mexico   
#> Topic 58: landscape, long, past, north, project   
#> Topic 59: mexico, project, communities, landscape, different   
#> Topic 60: local, project, community, history, middle   
#> Topic 61: project, mexico, first, classic, southern   
#> Topic 62: mexico, areas, lithic, systems, techniques   
#> Topic 63: political, organization, production, long, lithic   
#> Topic 64: project, california, local, past, materials   
#> Topic 65: production, southern, stone, landscape, political   
#> Topic 66: different, age, first, based, island   
#> Topic 67: production, mexico, southern, lithic, archaic   
#> Topic 68: past, artifacts, project, age, middle   
#> Topic 69: community, local, mexico, landscape, communities   
#> Topic 70: first, community, mexico, landscape, production   
#> Topic 71: production, northern, landscape, california, political   
#> Topic 72: production, regional, system, northern, lithic   
#> Topic 73: production, island, northern, north, local   
#> Topic 74: landscape, local, production, southern, century   
#> Topic 75: past, project, landscape, century, political   
#> Topic 76: production, project, middle, landscape, southern   
#> Topic 77: past, island, project, local, different   
#> Topic 78: local, community, political, different, regional   
#> Topic 79: age, production, first, southern, landscape   
#> Topic 80: pottery, china, project, vessels, based   
#> ......................................................................................................  
#> Completed E-Step (18 seconds).   
#> Completed M-Step.   
#> Completing Iteration 36 (approx. per word bound = -8.367, relative change = 1.273e-05)   
#> ......................................................................................................  
#> Completed E-Step (18 seconds).   
#> Completed M-Step.   
#> Completing Iteration 37 (approx. per word bound = -8.367, relative change = 1.156e-05)   
#> ......................................................................................................  
#> Completed E-Step (21 seconds).   
#> Completed M-Step.   
#> Completing Iteration 38 (approx. per word bound = -8.367, relative change = 1.072e-05)   
#> ......................................................................................................  
#> Completed E-Step (20 seconds).   
#> Completed M-Step.   
#> Completing Iteration 39 (approx. per word bound = -8.367, relative change = 1.079e-05)   
#> ......................................................................................................  
#> Completed E-Step (20 seconds).   
#> Completed M-Step.   
#> Model Converged   
#> 4 topics contained 3 words in the list: 34, 35, 39, 68

source(here::here('analysis/code/003-word-distances-and-similarities.R'))

source(here::here('analysis/code/004-keyword-in-context.R'))

source(here::here('analysis/code/005-social-event-correlation.R'))

### 0.0.1 Colophon

This report was generated on 2021-06-17 21:19:37 using the following computational environment and dependencies:

# which R packages and versions?  
if ("devtools" %in% installed.packages()) devtools::session\_info()  
#> ─ Session info ───────────────────────────────────────────────────────────────  
#> setting value   
#> version R version 4.0.5 (2021-03-31)  
#> os macOS Catalina 10.15.7   
#> system x86\_64, darwin17.0   
#> ui X11   
#> language (EN)   
#> collate en\_US.UTF-8   
#> ctype en\_US.UTF-8   
#> tz America/Los\_Angeles   
#> date 2021-06-17   
#>   
#> ─ Packages ───────────────────────────────────────────────────────────────────  
#> package \* version date lib  
#> abind 1.4-5 2016-07-21 [1]  
#> assertthat 0.2.1 2019-03-21 [1]  
#> backports 1.2.1 2020-12-09 [1]  
#> bookdown 0.22 2021-04-22 [1]  
#> broom 0.7.6 2021-04-05 [1]  
#> cachem 1.0.5 2021-05-15 [1]  
#> callr 3.7.0 2021-04-20 [1]  
#> car 3.0-10 2020-09-29 [1]  
#> carData 3.0-4 2020-05-22 [1]  
#> cellranger 1.1.0 2016-07-27 [1]  
#> cli 2.5.0 2021-04-26 [1]  
#> colorspace 2.0-1 2021-05-04 [1]  
#> cowplot \* 1.1.1 2020-12-30 [1]  
#> crayon 1.4.1 2021-02-08 [1]  
#> curl 4.3.1 2021-04-30 [1]  
#> data.table 1.14.0 2021-02-21 [1]  
#> DBI 1.1.1 2021-01-15 [1]  
#> dbplyr 2.1.1 2021-04-06 [1]  
#> desc 1.3.0 2021-03-05 [1]  
#> devtools 2.4.1 2021-05-05 [1]  
#> digest 0.6.27 2020-10-24 [1]  
#> dplyr \* 1.0.6 2021-05-05 [1]  
#> ellipsis 0.3.2 2021-04-29 [1]  
#> evaluate 0.14 2019-05-28 [1]  
#> fansi 0.5.0 2021-05-25 [1]  
#> farver 2.1.0 2021-02-28 [1]  
#> fastmap 1.1.0 2021-01-25 [1]  
#> fastmatch 1.1-0 2017-01-28 [1]  
#> forcats \* 0.5.1 2021-01-27 [1]  
#> foreign 0.8-81 2020-12-22 [1]  
#> fs 1.5.0 2020-07-31 [1]  
#> generics 0.1.0 2020-10-31 [1]  
#> geometry 0.4.5 2019-12-04 [1]  
#> ggplot2 \* 3.3.3 2020-12-30 [1]  
#> ggpubr \* 0.4.0 2020-06-27 [1]  
#> ggrepel \* 0.9.1.9999 2021-02-25 [1]  
#> ggsignif 0.6.1 2021-02-23 [1]  
#> glue 1.4.2 2020-08-27 [1]  
#> gtable 0.3.0 2019-03-25 [1]  
#> haven 2.4.1 2021-04-23 [1]  
#> here 1.0.1 2020-12-13 [1]  
#> hms 1.1.0 2021-05-17 [1]  
#> htmltools 0.5.1.1 2021-01-22 [1]  
#> httr 1.4.2 2020-07-20 [1]  
#> ISOcodes 2021.02.24 2021-02-24 [1]  
#> janeaustenr 0.1.5 2017-06-10 [1]  
#> jsonlite 1.7.2 2020-12-09 [1]  
#> knitr 1.33 2021-04-24 [1]  
#> labeling 0.4.2 2020-10-20 [1]  
#> lattice 0.20-44 2021-05-02 [1]  
#> lifecycle 1.0.0 2021-02-15 [1]  
#> lubridate 1.7.10 2021-02-26 [1]  
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#> magick \* 2.7.2 2021-05-02 [1]  
#> magrittr 2.0.1 2020-11-17 [1]  
#> Matrix 1.3-3 2021-05-04 [1]  
#> matrixStats 0.58.0 2021-01-29 [1]  
#> memoise 2.0.0 2021-01-26 [1]  
#> mgcv 1.8-35 2021-04-18 [1]  
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#> nlme 3.1-152 2021-02-04 [1]  
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#> openxlsx 4.2.3 2020-10-27 [1]  
#> patchwork \* 1.1.1 2020-12-17 [1]  
#> pillar 1.6.1 2021-05-16 [1]  
#> pkgbuild 1.2.0 2020-12-15 [1]  
#> pkgconfig 2.0.3 2019-09-22 [1]  
#> pkgload 1.2.1 2021-04-06 [1]  
#> plyr 1.8.6 2020-03-03 [1]  
#> polynom 1.4-0 2019-03-22 [1]  
#> prettyunits 1.1.1 2020-01-24 [1]  
#> processx 3.5.2 2021-04-30 [1]  
#> proxyC 0.2.0 2021-05-11 [1]  
#> ps 1.6.0 2021-02-28 [1]  
#> purrr \* 0.3.4 2020-04-17 [1]  
#> quanteda \* 3.0.0 2021-04-06 [1]  
#> quanteda.textstats \* 0.94.1 2021-05-11 [1]  
#> R6 2.5.0 2020-10-28 [1]  
#> ragg \* 1.1.2 2021-03-17 [1]  
#> Rcpp 1.0.6 2021-01-15 [1]  
#> RcppParallel 5.1.4 2021-05-04 [1]  
#> readr \* 1.4.0 2020-10-05 [1]  
#> readxl \* 1.3.1 2019-03-13 [1]  
#> remotes 2.3.0 2021-04-01 [1]  
#> reprex 2.0.0 2021-04-02 [1]  
#> reshape2 1.4.4 2020-04-09 [1]  
#> rio 0.5.26 2021-03-01 [1]  
#> rlang 0.4.11 2021-04-30 [1]  
#> rmarkdown 2.8 2021-05-07 [1]  
#> rprojroot 2.0.2 2020-11-15 [1]  
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#> rstudioapi 0.13 2020-11-12 [1]  
#> rsvd 1.0.5 2021-04-16 [1]  
#> Rtsne 0.15 2018-11-10 [1]  
#> rvest \* 1.0.0 2021-03-09 [1]  
#> scales \* 1.1.1 2020-05-11 [1]  
#> selectr 0.4-2 2019-11-20 [1]  
#> sessioninfo 1.1.1 2018-11-05 [1]  
#> SnowballC 0.7.0 2020-04-01 [1]  
#> stm \* 1.3.6 2020-09-18 [1]  
#> stopwords 2.2 2021-02-10 [1]  
#> stringi 1.6.2 2021-05-17 [1]  
#> stringr \* 1.4.0 2019-02-10 [1]  
#> systemfonts 1.0.2 2021-05-11 [1]  
#> testthat 3.0.2 2021-02-14 [1]  
#> textshaping 0.3.4 2021-05-11 [1]  
#> tibble \* 3.1.2 2021-05-16 [1]  
#> tidyr \* 1.1.3 2021-03-03 [1]  
#> tidyselect 1.1.1 2021-04-30 [1]  
#> tidytext \* 0.3.1 2021-04-10 [1]  
#> tidyverse \* 1.3.1 2021-04-15 [1]  
#> tokenizers 0.2.1 2018-03-29 [1]  
#> usethis 2.0.1 2021-02-10 [1]  
#> utf8 1.2.1 2021-03-12 [1]  
#> vctrs 0.3.8 2021-04-29 [1]  
#> withr 2.4.2 2021-04-18 [1]  
#> xfun 0.23 2021-05-15 [1]  
#> xml2 1.3.2 2020-04-23 [1]  
#> yaml 2.2.1 2020-02-01 [1]  
#> zip 2.2.0 2021-05-31 [1]  
#> source   
#> CRAN (R 4.0.0)   
#> CRAN (R 4.0.0)   
#> CRAN (R 4.0.2)   
#> CRAN (R 4.0.2)   
#> CRAN (R 4.0.2)   
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#> [1] /Library/Frameworks/R.framework/Versions/4.0/Resources/library

The current Git commit details are:

# what commit is this file at?   
if ("git2r" %in% installed.packages() & git2r::in\_repository(path = ".")) git2r::repository(here::here())   
#> Local: master /Users/bmarwick/Desktop/bulletinracisminarchy  
#> Remote: master @ origin (https://github.com/parkgayoung/bulletinracisminarchy)  
#> Head: [0cadf2d] 2021-06-18: deal with “individual abstracts of the” on many pages