FinalProject

April 21, 2020

1 Applied Data Science Capstone - IBM Professional Certificate

1.0.1 Marcelo Porto

1.1 Introduction

The skills learned during this course give us tools to solve some interesting problem. If you are deciding to open a new business, it might be interesting to explore a city and find a neighborhood where your business is needed.

Let's say you want to open a coffee shop. It wouldn't be interesting to open in an area where there are 3 Starbucks' already. We can use the Foursquare API to find neighborhoods where there might be a need for your new coffee shop.

We can use clustering to find similar neighborhoods in the city that might support your plan: neighborhood X has a couple of coffee shops and it is similar to neighborhood Y. So it might be good to take our business to neighborhood Y if there isn't many coffee shops there already. Are neighborhoods X and Y similar enough if we remove coffee shops from the equation?

1.1.1 Target Audience

Prospective business owners could use this to find the best location for their business.

City officials or the appropriate city departments could use this project to identify areas to invest in and attract new business, enhancing the value of possible up-and-coming neighborhoods.

1.1.2 Data Required

Some cities do not have postal codes. Abu Dhabi, in the United Arab Emirates, is one of the cities. So first I will need to search for a list of neighborhoods in Abu Dhabi. Then, I will need to find coordinates for each one of these neighborhoods with the geopy service. After this is done, I will be able to search the city for different venues with the Foursquare API, using this data to cluster and compare neighborhoods.

For Abu Dhabi, Wikipedia provides a list of neighborhoods, which I can use to search for coordinates.

1.1.3 Structure

The Methodology section will explain how the process was done and methods applied. In Results, the findings will be presented along with the codes used. This reports ends with a brief discussion about the results and limitations of this exercise, and improvements that can be made.

1.2 Methodology

The Foursquare API will be used to extract information from business venues in the city. Geopy will be used to turn neighborhood names into latitude and longitude coordinates. The folium package will allows us to visualize these findings in beautiful interactive maps. And talking about beautiful, I will use the BeautifulSoup package to scrape neighborhood names for Abu Dhabi from Wikipedia.

Last but not least, I will apply K-means to cluster the neighborhoods based on what type of businesses are most common between them. After specifying how many clusters are to be created, this unsupervised machine learning algorithm chooses random points as cluster centers, and every other point is assigned to the closest center via the calculation of its Euclidean distances. The mean point of each cluster, or centroids, is calculated, and it becomes the new center for the cluster. This centroid minimizes the total squared distance of each point to the cluster center (Source: my thesis. Just trust me on this). There are limitations to this method, but this is out of the scope of this exercise.

All the coding here is done in Python, in a Jupyter Notebook, using the IBM Skill Network Labs platform, which is free and I **highly** recommend, it will make your life easier. As you can see, a Github repository is used to store the notebook. Feel free to clone it and use for your own learning!

(By the way, even though I am not using it here, I also suggest you to open an account on IBM Cloud. They have loads of free and cool resources for Data Science!)

1.3 Results

Let's begin by loading and installing our tools!

```
[1]: import numpy as np # library to handle data in a vectorized manner
    import pandas as pd # library for data analsysis
    pd.set_option('display.max_columns', None)
    pd.set_option('display.max_rows', None)
    import json # library to handle JSON files

!conda install -c conda-forge geopy --yes # uncomment this line if you haven['tu completed the Foursquare API lab
    from geopy.geocoders import Nominatim # convert an address into latitude and longitude values

import requests # library to handle requests
    from pandas.io.json import json_normalize # tranform JSON file into a pandas_u chataframe

# Matplotlib and associated plotting modules
import matplotlib.cm as cm
import matplotlib.colors as colors
```

Collecting package metadata (current_repodata.json): done Solving environment: done

Package Plan

The following packages will be downloaded:

package		build		
geographiclib-1.50 geopy-1.21.0		py_0 py_0		conda-forge conda-forge
		Total:	92 KB	

The following NEW packages will be INSTALLED:

geographiclib conda-forge/noarch::geographiclib-1.50-py_0
geopy conda-forge/noarch::geopy-1.21.0-py_0

Downloading and Extracting Packages

Preparing transaction: done Verifying transaction: done Executing transaction: done

Collecting package metadata (current_repodata.json): done

Solving environment: failed with initial frozen solve. Retrying with flexible

solve.

Collecting package metadata (repodata.json): done

Solving environment: done

Package Plan

```
environment location: /home/jupyterlab/conda/envs/python
added / updated specs:
  - folium=0.5.0
```

The following packages will be downloaded:

package	build		
altair-4.1.0	py_1	614 KB	conda-forge
branca-0.4.0	py_0	26 KB	conda-forge
brotlipy-0.7.0	py36h8c4c3a4_1000	346 KB	conda-forge
chardet-3.0.4	py36h9f0ad1d_1006	188 KB	conda-forge
cryptography-2.8	py36h45558ae_2	628 KB	conda-forge
folium-0.5.0	py_0	45 KB	conda-forge
pandas-1.0.3	py36h830a2c2_1	11.1 MB	conda-forge
pysocks-1.7.1	<pre> py36h9f0ad1d_1</pre>	27 KB	conda-forge
toolz-0.10.0	py_0	46 KB	conda-forge
urllib3-1.25.9	py_0	92 KB	conda-forge
vincent-0.4.4	py_1	28 KB	conda-forge
	Total:	13.1 MB	

The following NEW packages will be INSTALLED:

```
altair
                     conda-forge/noarch::altair-4.1.0-py_1
                     conda-forge/noarch::attrs-19.3.0-py_0
  attrs
  branca
                     conda-forge/noarch::branca-0.4.0-py_0
                     conda-forge/linux-64::brotlipy-0.7.0-py36h8c4c3a4_1000
  brotlipy
  chardet
                     conda-forge/linux-64::chardet-3.0.4-py36h9f0ad1d_1006
                     conda-forge/linux-64::cryptography-2.8-py36h45558ae 2
  cryptography
                     conda-forge/linux-64::entrypoints-0.3-py36h9f0ad1d_1001
  entrypoints
  folium
                     conda-forge/noarch::folium-0.5.0-py_0
  idna
                     conda-forge/noarch::idna-2.9-py_1
  importlib-metadata conda-forge/linux-64::importlib-
metadata-1.6.0-py36h9f0ad1d_0
  importlib_metadata conda-forge/noarch::importlib_metadata-1.6.0-0
                     conda-forge/noarch::jinja2-2.11.2-pyh9f0ad1d_0
  jinja2
  jsonschema
                     conda-forge/linux-64::jsonschema-3.2.0-py36h9f0ad1d_1
                     conda-forge/linux-64::markupsafe-1.1.1-py36h8c4c3a4_1
 markupsafe
 pandas
                     conda-forge/linux-64::pandas-1.0.3-py36h830a2c2_1
 pyopenssl
                     conda-forge/noarch::pyopenssl-19.1.0-py_1
  pyrsistent
                     conda-forge/linux-64::pyrsistent-0.16.0-py36h8c4c3a4_0
                     conda-forge/linux-64::pysocks-1.7.1-py36h9f0ad1d_1
 pysocks
```

```
pytz conda-forge/noarch::pytz-2019.3-py_0
requests conda-forge/noarch::requests-2.23.0-pyh8c360ce_2
toolz conda-forge/noarch::toolz-0.10.0-py_0
urllib3 conda-forge/noarch::urllib3-1.25.9-py_0
vincent conda-forge/noarch::vincent-0.4.4-py_1
zipp conda-forge/noarch::zipp-3.1.0-py_0
```

```
Downloading and Extracting Packages
          | 27 KB
pysocks-1.7.1
                | 628 KB
                cryptography-2.8
toolz-0.10.0
          | 46 KB
                | ############## | 100%
chardet-3.0.4
          I 188 KB
                folium-0.5.0
          | 45 KB
                urllib3-1.25.9
          I 92 KB
                brotlipy-0.7.0
          | 346 KB
                pandas-1.0.3
          | 11.1 MB
                altair-4.1.0
          I 614 KB
                | ############## | 100%
branca-0.4.0
          I 26 KB
                vincent-0.4.4
                | ############### | 100%
          I 28 KB
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
```

First, let's test with some location, to see if there are entries in the Foursquare database for Abu Dhabi.

Libraries imported.

```
[2]: #Test with Abu Dhabi
     CLIENT_ID = 'yourid' # your Foursquare ID
     CLIENT_SECRET = 'yoursecret' # your Foursquare Secret
     VERSION = '20200401' # Foursquare API version
     neighborhood_latitude =24.4539
     neighborhood_longitude =54.3773
     # type your answer here
     LIMIT = 100 # limit of number of venues returned by Foursquare API
     radius = 500 # define radius
     url = 'https://api.foursquare.com/v2/venues/explore?
       \rightarrow \&client_id={}\&client_secret={}\&v={}\&ll={},{}\&radius={}\&limit={}'.format(
         CLIENT_ID,
         CLIENT_SECRET,
         VERSION,
         neighborhood_latitude,
         neighborhood_longitude,
         radius,
         LIMIT)
     url # display URL
```

```
results = requests.get(url).json()
results
```

```
[2]: {'meta': {'code': 200, 'requestId': '5e9e8d9c6001fe001c91e8d2'},
      'response': {'suggestedFilters': {'header': 'Tap to show:',
        'filters': [{'name': 'Open now', 'key': 'openNow'}]},
       'headerLocation': 'Abu Dhabi',
       'headerFullLocation': 'Abu Dhabi',
       'headerLocationGranularity': 'city',
       'totalResults': 5.
       'suggestedBounds': {'ne': {'lat': 24.458400004500007,
         'lng': 54.38223422930707},
        'sw': {'lat': 24.449399995499995, 'lng': 54.37236577069292}},
       'groups': [{'type': 'Recommended Places',
         'name': 'recommended',
         'items': [{'reasons': {'count': 0,
            'items': [{'summary': 'This spot is popular',
              'type': 'general',
              'reasonName': 'globalInteractionReason'}]},
           'venue': {'id': '52958c2d11d2ce1a0539c550',
            'name': 'Umm Al Emarat Park
                                           )
                                                  (
            'location': {'address': 'Al Karamah St',
             'crossStreet': 'Mohammed bin Khalifa St',
             'lat': 24.453299953559355,
             'lng': 54.3810916845015,
             'labeledLatLngs': [{'label': 'display',
               'lat': 24.453299953559355,
               'lng': 54.3810916845015}],
             'distance': 389,
             'cc': 'AE',
             'neighborhood': 'Al Mushrif',
             'city': ' ',
             'state': ' ',
             'country': '
             'formattedAddress': ['Al Karamah St (Mohammed bin Khalifa St)',
                             ']},
            'categories': [{'id': '4bf58dd8d48988d163941735',
              'name': 'Park',
              'pluralName': 'Parks',
              'shortName': 'Park',
              'icon': {'prefix':
     'https://ss3.4sqi.net/img/categories_v2/parks_outdoors/park_',
               'suffix': '.png'},
              'primary': True}],
            'photos': {'count': 0, 'groups': []}},
```

```
'referralId': 'e-0-52958c2d11d2ce1a0539c550-0'},
    {'reasons': {'count': 0,
       'items': [{'summary': 'This spot is popular',
         'type': 'general',
         'reasonName': 'globalInteractionReason'}]},
      'venue': {'id': '5921762b2a7ab62513eaef0d',
       'name': 'Home Bakery',
       'location': {'address': 'Umm Al-Emarat Park',
       'lat': 24.45333677996986,
        'lng': 54.38101845236142,
        'labeledLatLngs': [{'label': 'display',
          'lat': 24.45333677996986,
          'lng': 54.38101845236142}],
        'distance': 381,
        'cc': 'AE',
        'city': '
        'state': ' ',
        'country': '
        'formattedAddress': ['Umm Al-Emarat Park',
                        ']},
       'categories': [{'id': '4bf58dd8d48988d16a941735',
         'name': 'Bakery',
         'pluralName': 'Bakeries',
         'shortName': 'Bakery',
         'icon': {'prefix':
'https://ss3.4sqi.net/img/categories_v2/food/bakery_',
         'suffix': '.png'},
         'primary': True}],
       'photos': {'count': 0, 'groups': []}},
      'referralId': 'e-0-5921762b2a7ab62513eaef0d-1'},
    {'reasons': {'count': 0,
       'items': [{'summary': 'This spot is popular',
         'type': 'general',
         'reasonName': 'globalInteractionReason'}]},
      'venue': {'id': '4d4d7a0a4aa3a093124c43ae',
       'name': 'Café Arabia',
       'location': {'address': '15th Street',
        'crossStreet': 'btwn 2nd/Airport Road and 24th/Karamah',
        'lat': 24.455759648289817,
        'lng': 54.37931840807956,
        'labeledLatLngs': [{'label': 'display',
          'lat': 24.455759648289817,
         'lng': 54.37931840807956}],
        'distance': 291,
        'cc': 'AE',
        'city': ' ',
```

```
'state': ' ',
        'country': '
        'formattedAddress': ['15th Street (btwn 2nd/Airport Road and
24th/Karamah)',
        ٠,
                        ']},
       'categories': [{'id': '4bf58dd8d48988d16d941735',
         'name': 'Café',
         'pluralName': 'Cafés',
         'shortName': 'Café',
         'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/cafe_',
          'suffix': '.png'},
         'primary': True}],
       'photos': {'count': 0, 'groups': []}},
      'referralId': 'e-0-4d4d7a0a4aa3a093124c43ae-2'},
     {'reasons': {'count': 0,
       'items': [{'summary': 'This spot is popular',
         'type': 'general',
         'reasonName': 'globalInteractionReason'}]},
      'venue': {'id': '4d932666d176a1cd105332f0',
       'name': 'Mushrif palace park',
       'location': {'address': 'Mushrif palace',
        'lat': 24.45337508860367,
        'lng': 54.37472906857962,
        'labeledLatLngs': [{'label': 'display',
          'lat': 24.45337508860367,
          'lng': 54.37472906857962}],
        'distance': 266,
        'cc': 'AE',
        'citv': '
        'state': ' ',
        'country': '
        'formattedAddress': ['Mushrif palace',
                        ']},
       'categories': [{'id': '4bf58dd8d48988d163941735',
         'name': 'Park',
         'pluralName': 'Parks',
         'shortName': 'Park',
         'icon': {'prefix':
'https://ss3.4sqi.net/img/categories_v2/parks_outdoors/park_',
          'suffix': '.png'},
         'primary': True}],
       'photos': {'count': 0, 'groups': []}},
      'referralId': 'e-0-4d932666d176a1cd105332f0-3'},
     {'reasons': {'count': 0,
       'items': [{'summary': 'This spot is popular',
```

```
'reasonName': 'globalInteractionReason'}]},
           'venue': {'id': '4e3ddac72271d21e86fcb9cf',
            'name': 'Murjan Asfar Hotel Apartment',
            'location': {'lat': 24.453511255348968,
             'lng': 54.377871397437495,
             'labeledLatLngs': [{'label': 'display',
               'lat': 24.453511255348968,
               'lng': 54.377871397437495}],
             'distance': 72,
             'cc': 'AE',
             'city': ' ',
             'state': ' ',
             'country': '
             'formattedAddress': [' ', '
                                                        ']},
            'categories': [{'id': '4bf58dd8d48988d1fa931735',
              'name': 'Hotel',
              'pluralName': 'Hotels',
              'shortName': 'Hotel',
              'icon': {'prefix':
     'https://ss3.4sqi.net/img/categories_v2/travel/hotel_',
              'suffix': '.png'},
              'primary': True}],
            'photos': {'count': 0, 'groups': []}},
           'referralId': 'e-0-4e3ddac72271d21e86fcb9cf-4'}]}}}
[3]: # function that extracts the category of the venue
    def get_category_type(row):
        try:
            categories_list = row['categories']
         except:
             categories_list = row['venue.categories']
         if len(categories_list) == 0:
            return None
         else:
            return categories_list[0]['name']
[4]: venues = results['response']['groups'][0]['items']
    nearby venues = json normalize(venues) # flatten JSON
     # filter columns
    filtered_columns = ['venue.name', 'venue.categories', 'venue.location.lat',_
     nearby_venues =nearby_venues.loc[:, filtered_columns]
```

'type': 'general',

/home/jupyterlab/conda/envs/python/lib/python3.6/sitepackages/ipykernel_launcher.py:3: FutureWarning: pandas.io.json.json_normalize is deprecated, use pandas.json_normalize instead

This is separate from the ipykernel package so we can avoid doing imports until

```
[4]:
                                            name categories
                                                                  lat
                                                                             lng
    O Umm Al Emarat Park
                                              Park 24.453300 54.381092
                                                     Bakery 24.453337 54.381018
    1
                                     Home Bakery
    2
                                     Café Arabia
                                                       Café 24.455760 54.379318
    3
                             Mushrif palace park
                                                      Park 24.453375 54.374729
                                                     Hotel 24.453511 54.377871
                     Murjan Asfar Hotel Apartment
```

[5]: nearby_venues.shape

[5]: (5, 4)

Ok, apparently there are some. Let's plot these venues in a map of Abu Dhabi.

```
[6]: # create map of AD using latitude and longitude values
     latitude = 24.4539
     longitude = 54.3773
     #neighborhood latitude =24.4539
     #neighborhood longitude =54.3773
     map_AD = folium.Map(location=[latitude, longitude], zoom_start=10)
     # add markers to map
     for lat, lng, borough, neighborhood in zip(nearby_venues['lat'],__
      -nearby_venues['lng'], nearby_venues['name'], nearby_venues['categories']):
         label = '{}, {}'.format(neighborhood, borough)
         label = folium.Popup(label, parse_html=True)
         folium.CircleMarker(
             [lat, lng],
             radius=5,
             popup=label,
             color='blue',
             fill=True,
             fill_color='#3186cc',
```

```
fill_opacity=0.7,
    parse_html=False).add_to(map_AD)
map_AD
```

[6]: <folium.folium.Map at 0x7fb4cd72bdd8>

Cool! Now, those are venues. There are no postal codes in Abu Dhabi.

We can find a list of neighborhoods on Wikipedia.

Let's see if I can find coordinates for one of these neighborhoods, Al Karama.

```
[7]: address = 'Al Karama, Abu Dhabi, United Arab Emirates'

geolocator = Nominatim(user_agent="foursquare_agent")
location = geolocator.geocode(address)
latitude = location.latitude
longitude = location.longitude
print(latitude, longitude)
```

25.244402800000003 55.30475541735386

Alright, it works. There aren't that many, so I could probably copy the list to a spreadsheet and load here as a csy file.

But that's no fun. Let's scrape the Wikipedia page to get the Neighborhood names, using the BeautifulSoup package.

```
[8]: import requests
website_url = requests.get('https://en.wikipedia.org/wiki/Abu_Dhabi').text
!pip install BeautifulSoup4
from bs4 import BeautifulSoup
soup = BeautifulSoup(website_url,'html.parser')
```

Collecting BeautifulSoup4

Downloading https://files.pythonhosted.org/packages/e8/b5/7bb03a696f2c9b7af792a8f51b82974e51c268f15e925fc834876a4efa0b/beautifulsoup4-4.9.0-py3-none-any.whl (109kB)

```
| 112kB 6.1MB/s eta 0:00:01
```

Collecting soupsieve>1.2 (from BeautifulSoup4)

Downloading https://files.pythonhosted.org/packages/05/cf/ea245e52f55823f19992 447b008bcbb7f78efc5960d77f6c34b5b45b36dd/soupsieve-2.0-py2.py3-none-any.whl Installing collected packages: soupsieve, BeautifulSoup4 Successfully installed BeautifulSoup4-4.9.0 soupsieve-2.0

The output is pretty long, so I suggest collapsing it for a better read of the notebook. But printing the whole thing is necessary to find what we want. Or you can check the source code of the page.

[9]: print(soup)

<html class="client-nojs" dir="ltr" lang="en">

```
<meta charset="utf-8"/>
<title>Abu Dhabi - Wikipedia</title>
<script>document.documentElement.className="client-js";RLCONF={"wgBreakFrames":!
1, "wgSeparatorTransformTable":["",""], "wgDigitTransformTable":["",""], "wgDefault
DateFormat": "dmy", "wgMonthNames": ["", "January", "February", "March", "April", "May",
"June", "July", "August", "September", "October", "November", "December"], "wgRequestId
":"XptYvApAEJcAAoQ3thkAAADU","wgCSPNonce":!1,"wgCanonicalNamespace":"","wgCanoni
calSpecialPageName":!1,"wgNamespaceNumber":0,"wgPageName":"Abu_Dhabi","wgTitle":
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wgUserGroups":["*"],"wgCategories":["Webarchive template wayback links","All
articles with dead external links", "Articles with dead external links from
August 2016", "Webarchive template webcite links", "Articles with dead external
links from June 2016", "CS1 maint: archived copy as title", "CS1 maint: BOT:
original-url status unknown",
"Webarchive template archiveis links", "CS1 Russian-language sources
(ru)", "Articles with short description", "EngvarB from September 2017", "Articles
containing Arabic-language text", "Coordinates on Wikidata", "Pages using infobox
settlement with possible demonym list", "Articles to be expanded from August
2017", "All articles to be expanded", "Articles using small message
boxes", "Articles containing potentially dated statements from July 2008", "All
articles containing potentially dated statements", "Articles containing
potentially dated statements from 2006", "Articles containing potentially dated
statements from 2007", "All articles with unsourced statements", "Articles with
unsourced statements from August 2017", "Articles containing potentially dated
statements from 2014", "Articles containing potentially dated statements from
2005", "Articles with Curlie links", "Use dmy dates from June 2013", "Wikipedia
articles with GND identifiers", "Wikipedia articles with LCCN identifiers",
"Wikipedia articles with MusicBrainz area identifiers", "Wikipedia articles with
NDL identifiers", "Wikipedia articles with NKC identifiers", "Wikipedia articles
with NLI identifiers", "Wikipedia articles with VIAF identifiers", "Wikipedia
articles with WorldCat identifiers", "Abu Dhabi", "Capitals in Asia", "Populated
coastal places in the United Arab Emirates", "Populated places in Abu Dhabi
(emirate)", "Port cities in the Arabian Peninsula"], "wgPageContentLanguage": "en",
"wgPageContentModel":"wikitext","wgRelevantPageName":"Abu_Dhabi","wgRelevantArti
cleId":18950756, "wgIsProbablyEditable":!0, "wgRelevantPageIsProbablyEditable":!0,
"wgRestrictionEdit":[],"wgRestrictionMove":[],"wgMediaViewerOnClick":!0,"wgMedia
ViewerEnabledByDefault": !0, "wgPopupsReferencePreviews": !1, "wgPopupsConflictsWith
NavPopupGadget":!1, "wgVisualEditor": { "pageLanguageCode": "en", "pageLanguageDir": "
ltr", "pageVariantFallbacks": "en"}, "wgMFDisplayWikibaseDescriptions": { "search": !0
,"nearby":!0,"watchlist":!0,
"tagline":!1}, "wgWMESchemaEditAttemptStepOversample":!1, "wgULSCurrentAutonym":"E
nglish", "wgNoticeProject": "wikipedia", "wgCoordinates": { "lat": 24.46666666666666665,
"lon":54.366666666666667}, "wgWikibaseItemId": "Q1519", "wgCentralAuthMobileDomain":
```

```
!1, "wgEditSubmitButtonLabelPublish": !0}; RLSTATE={ "ext.globalCssJs.user.styles": "
ready", "site.styles": "ready", "noscript": "ready", "user.styles": "ready", "ext.globa
lCssJs.user": "ready", "user": "ready", "user.options": "loading", "ext.cite.styles": "
ready", "mediawiki.page.gallery.styles": "ready", "jquery.makeCollapsible.styles": "
ready", "mediawiki.toc.styles": "ready", "skins.vector.styles.legacy": "ready", "wiki
base.client.init": "ready", "ext.visualEditor.desktopArticleTarget.noscript": "read
y", "ext.uls.interlanguage": "ready", "ext.wikimediaBadges": "ready"}; RLPAGEMODULES=
["ext.cite.ux-enhancements", "ext.scribunto.logs", "site", "mediawiki.page.startup"
,"skins.vector.js", "mediawiki.page.ready", "jquery.makeCollapsible", "mediawiki.to
"ext.gadget.ReferenceTooltips","ext.gadget.charinsert","ext.gadget.refToolbar","
ext.gadget.extra-toolbar-buttons", "ext.gadget.switcher", "ext.centralauth.central
autologin", "mmv.head", "mmv.bootstrap.autostart", "ext.popups", "ext.visualEditor.d
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});});</script>
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District">Abu Dhabi Central Capital District</a>. For the emirate, see <a
href="/wiki/Emirate_of_Abu_Dhabi" title="Emirate of Abu Dhabi">Emirate of Abu
Dhabi</a>. For other uses, see <a class="mw-disambig"
href="/wiki/Abu_Dhabi_(disambiguation)" title="Abu Dhabi (disambiguation)">Abu
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Dhabi</div></div></div></div><div>Abu Dhabi (Asia)</div><span class="switcher-
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aerial photos, and other data for this location"><span
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scope="row"><a href="/wiki/Emirate_of_Abu_Dhabi#Sub-divisions" title="Emirate of</pre>
Abu Dhabi">Municipal region</a><a
href="/wiki/Abu_Dhabi_Central_Capital_District" title="Abu Dhabi Central Capital
District">Central Capital District</a><sup class="reference" id="cite_ref-
OBG2016_1-0"><a href="#cite_note-OBG2016-1">[1]</a></sup><tr
class="mergedtoprow">
align:left">Government<div style="font-
weight:normal;display:inline;"></div><th</pre>
scope="row"> • Type<a href="/wiki/Municipality"</pre>
title="Municipality">Municipality</a><th
scope="row"> • General Manager of City MunicipalityHE Saif Badr Al
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Qubaisi<th colspan="2" style="text-
align:center;text-align:left">Area<div style="font-
weight:normal;display:inline;"></div><th</pre>
scope="row"> \bullet Total972 km<sup>2</sup> (375 sq mi)<tr
class="mergedtoprow">Elevation<div style="font-
weight:normal;display:inline;"></div>27 m (89 ft)<tr
class="mergedtoprow"><th colspan="2" style="text-align:center;text-
align:left">Population<div style="font-weight:normal;display:inline;"><span
class="nowrap"> </span>(2018)<sup class="reference" id="cite ref-wg 2-0"><a
href="#cite_note-wg-2">[2]</a></sup>
<sup class="reference" id="cite_ref-3"><a</pre>
href="#cite note-3">[3]</a></sup></div><th
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title="Demonym">Demonym(s)</a>Abu Dhabian, Dhabyani
class="mergedtoprow"><a href="/wiki/Time_zone" title="Time
zone">Time zone</a><a class="mw-redirect" href="/wiki/UTC%2B4"
title="UTC+4">UTC+4</a> (<a href="/wiki/Time_in_the_United_Arab_Emirates"
title="Time in the United Arab Emirates">UAE Standard Time</a>)<tr
class="mergedtoprow">GDP PPP2014 estimate
class="mergedrow">Total<a class="mw-redirect"
href="/wiki/USD" title="USD">USD</a> 178 billion<sup class="reference"
id="cite_ref-4"><a href="#cite_note-4">[4]</a></sup><tr
class="mergedrow">Per capita<a class="mw-redirect"</pre>
href="/wiki/USD" title="USD">USD</a> 61,000<tr
class="mergedtoprow">Website<a class="external text"</pre>
href="http://www.tamm.abudhabi/"
rel="nofollow">tamm.abudhabi</a>
<b>Abu Dhabi</b> (<span class="rt-commentedText nowrap"><small><a
href="/wiki/American_English" title="American English">US</a>: </small><span
class="IPA nopopups noexcerpt"><a href="/wiki/Help:IPA/English"</pre>
title="Help:IPA/English">/<span style="border-bottom:1px dotted"><span
title="//: primary stress follows"> </span> < span title="//: 'a' in
'father'"> </span><span title="'b' in 'buy'">b</span><span title="/u/: 'oo' in
'goose'">u </span></span><span class="wrap"> </span><span style="border-
bottom:1px dotted"><span title="//: primary stress follows"> </span><span
title="'d' in 'dye'">d</span><span title="/ /: 'a' in 'father'"> </span><span
title="'b' in 'buy'">b</span><span title="/i/: 'y' in
'happy'">i</span></span>/</a></span></span>, <span class="rt-commentedText
nowrap"><small><a href="/wiki/British_English" title="British English">UK</a>:
</small><span class="IPA nopopups noexcerpt"><a href="/wiki/Help:IPA/English"
title="Help:IPA/English">/<span style="border-bottom:1px dotted"><span
title="//: primary stress follows"> </span> < span title="/x/: 'a' in
'bad'"></span><span title="'b' in 'buy'">b</span><span title="/u/: 'oo' in
'goose'">u </span></span>/</a></span>; <a class="mw-redirect"
href="/wiki/Arabic_language" title="Arabic language">Arabic</a>: <span dir="rtl"
lang="ar" < >/span> <i><i lang="ar-Latn" title="Arabic-language</pre>
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romanization">Abū Zaby</i></i> <small>Arabic pronunciation: </small><span
class="IPA" title="Representation in the International Phonetic Alphabet
(IPA)"><a href="/wiki/Help:IPA/Arabic"
title="Help:IPA/Arabic">[ bu ð bi]</a></span>)<sup class="reference"
id="cite ref-name 5-0"><a href="#cite note-name-5">[5]</a></sup> is the <a
href="/wiki/Capital_city" title="Capital city">capital</a> and the second-most
populous city of the <a href="/wiki/United Arab Emirates" title="United Arab
Emirates">United Arab Emirates</a> (after <a href="/wiki/Dubai"
title="Dubai">Dubai</a>). It is also the largest of the <a
href="/wiki/Emirates_of_the_United_Arab_Emirates" title="Emirates of the United
Arab Emirates">UAE's seven emirates</a>. The city of Abu Dhabi is located on an
island in the <a href="/wiki/Persian Gulf" title="Persian Gulf">Persian
Gulf</a>, off the Central West Coast. Most of the city and the Emirate reside on
the mainland connected to the rest of the country. As of 2020, Abu Dhabi's urban
area had an estimated population of 1.48 million, <sup class="reference"
id="cite_ref-6"><a href="#cite_note-6">[6]</a></sup> out of 2.9 million in the
emirate of Abu Dhabi, as of 2016. <sup class="reference" id="cite_ref-7"><a
href="#cite_note-7">[7]</a></sup>
Abu Dhabi houses local and federal government offices and is the home of
the <a href="/wiki/Federal National Council" title="Federal National
Council">United Arab Emirates Government</a> and the <a
href="/wiki/Supreme_Petroleum_Council" title="Supreme Petroleum Council">Supreme
Petroleum Council</a>. The city is home to the <a
href="/wiki/President_of_the_United_Arab_Emirates" title="President of the
United Arab Emirates">President of the UAE</a>, who is a member of the <a
href="/wiki/Al Nahyan family" title="Al Nahyan family">Al Nahyan family</a>. Abu
Dhabi's rapid development and <a href="/wiki/Urbanization"
title="Urbanization">urbanization</a>, coupled with the massive oil and gas
reserves and production and relatively high average income, have transformed it
into a large, developed metropolis. It is the country's center of <a
href="/wiki/Politics" title="Politics">politics</a> and <a href="/wiki/Industry"
title="Industry">industry</a>, and a major <a href="/wiki/Culture"
title="Culture">culture</a> and <a href="/wiki/Commerce"
title="Commerce">commerce</a> center. Abu Dhabi accounts for about two-thirds of
the roughly $400 billion UAE economy. <sup class="reference" id="cite ref-8"><a
href="#cite_note-8">[8]</a></sup>
<div aria-labelledby="mw-toc-heading" class="toc" id="toc"</pre>
role="navigation"><input class="toctogglecheckbox" id="toctogglecheckbox"
role="button" style="display:none" type="checkbox"/><div class="toctitle"
dir="ltr" lang="en"><h2 id="mw-toc-heading">Contents</h2><span
class="toctogglespan"><label class="toctogglelabel"</pre>
for="toctogglecheckbox"></label></span></div>
<l
<a href="#History"><span</pre>
class="tocnumber">1</span> <span class="toctext">History</span></a>
ul>
class="toclevel-2 tocsection-2"><a href="#Etymology"><span</pre>
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class="tocnumber">1.1</span> <span class="toctext">Etymology</span></a>
<a href="#Origins_of_Al_Nahyan"><span</pre>
class="tocnumber">1.2</span> <span class="toctext">Origins of Al
Nahyan</span></a>
<a href="#Pearl trade"><span</pre>
class="tocnumber">1.3</span> <span class="toctext">Pearl trade</span></a>
<a href="#Trucial coast"><span</pre>
class="tocnumber">1.4</span> <span class="toctext">Trucial coast</span></a>
<a href="#First_oil_discoveries"><span</pre>
class="tocnumber">1.5</span> <span class="toctext">First oil
discoveries</span></a>
<a</pre>
href="#A_Pictorial_essay_of_old_Abu_Dhabi"><span class="tocnumber">1.6</span>
<span class="toctext">A Pictorial essay of old Abu Dhabi//a>
<a href="#Geography"><span</pre>
class="tocnumber">2</span> <span class="toctext">Geography</span></a>
<l
<a href="#Climate"><span</pre>
class="tocnumber">2.1</span> <span class="toctext">Climate</span></a>
class="toclevel-1 tocsection-10"><a href="#Government"><span</pre>
class="tocnumber">3</span> <span class="toctext">Government</span></a>
<a href="#Cityscape"><span</pre>
class="tocnumber">4</span> <span class="toctext">Cityscape</span></a>
<l
class="toclevel-2 tocsection-12"><a href="#Neighborhoods"><span</pre>
class="tocnumber">4.1</span> <span class="toctext">Neighborhoods</span></a>
class="toclevel-2 tocsection-13"><a href="#Architecture"><span</pre>
class="tocnumber">4.2</span> <span class="toctext">Architecture</span></a>
<l
class="toclevel-3 tocsection-14"><a href="#Sheikh_Zayed_Grand_Mosque"><span</pre>
class="tocnumber">4.2.1</span> <span class="toctext">Sheikh Zayed Grand
Mosque</span></a>
class="toclevel-3 tocsection-15"><a href="#The Founder's Memorial"><span</pre>
class="tocnumber">4.2.2</span> <span class="toctext">The Founder's
Memorial</span></a>
class="toclevel-3 tocsection-16"><a href="#Presidential_Palace"><span</pre>
class="tocnumber">4.2.3 <span class="toctext">Presidential
Palace</span></a>
class="toclevel-3 tocsection-17"><a href="#Multi-faith_worship_places"><span</pre>
class="tocnumber">4.2.4</span> <span class="toctext">Multi-faith worship
places</span></a>
<a href="#Qasr_Al_Hosn"><span</pre>
class="tocnumber">4.2.5span class="toctext">Qasr Al
Hosn</span></a>
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gardens</span></a>
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class="tocnumber">5</span> <span class="toctext">Economy</span></a>
class="toclevel-1 tocsection-21"><a href="#Utility_services"><span</pre>
class="tocnumber">6</span> <span class="toctext">Utility
services</span></a>
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class="tocnumber">7</span> <span class="toctext">City planning</span></a>
<a href="#Human_rights"><span</pre>
class="tocnumber">8</span> <span class="toctext">Human rights</span></a>
<a href="#Demographics"><span</pre>
class="tocnumber">9</span> <span class="toctext">Demographics</span></a>
class="toclevel-1 tocsection-25"><a href="#Transportation"><span</pre>
class="tocnumber">10</span> <span class="toctext">Transportation</span></a>
ul>
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class="tocnumber">10.1</span> <span class="toctext">Air</span></a>
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class="tocnumber">10.2<span class="toctext">Public
transport</span></a>
class="toclevel-2 tocsection-28"><a href="#Water_transport"><span</pre>
class="tocnumber">10.3</pan> <span class="toctext">Water
transport</span></a>
<a href="#Culture"><span</pre>
class="tocnumber">11</span> <span class="toctext">Culture</span></a>
<a href="#Education"><span</pre>
class="tocnumber">12</span> <span class="toctext">Education</span></a>
<a href="#Sports"><span</pre>
class="tocnumber">13</span> <span class="toctext">Sports</span></a>
<a href="#Abu_Dhabi_Grand_Prix"><span</pre>
class="tocnumber">13.1</span> <span class="toctext">Abu Dhabi Grand
Prix</span></a>
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class="tocnumber">13.2</span> <span class="toctext">Abu Dhabi Grand
Slam</span></a>
<a</pre>
href="#Special_Olympics_World_Games_Abu_Dhabi_2019"><span
class="tocnumber">13.3</span> <span class="toctext">Special Olympics World Games
Abu Dhabi 2019</span></a>
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class="tocnumber">14</span> <span class="toctext">Cinema and
media</span></a>
class="toclevel-1 tocsection-36"><a href="#Twin_towns_and_cities"><span</pre>
class="tocnumber">15</span> <span class="toctext">Twin towns and
cities</span></a>
class="toclevel-1 tocsection-37"><a href="#Sites and attractions"><span</pre>
class="tocnumber">16</span> <span class="toctext">Sites and
attractions</span></a>
<a href="#See also"><span</pre>
class="tocnumber">17</span> <span class="toctext">See also</span></a>
<a href="#Notes"><span</pre>
class="tocnumber">18</span> <span class="toctext">Notes</span></a>
<a href="#References"><span</pre>
class="tocnumber">19</span> <span class="toctext">References</span></a>
<a href="#Bibliography"><span</pre>
class="tocnumber">20</span> <span class="toctext">Bibliography</span></a>
<a href="#External links"><span</pre>
class="tocnumber">21</span> <span class="toctext">External links</span></a>
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href="/w/index.php?title=Abu Dhabi&action=edit&section=1" title="Edit
section: History">edit</a><span class="mw-editsection-
bracket">]</span></span></h2>
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%8A%D8%AF 19-1-1961.jpg/170px-%D8%A7%D9%84%D8%B4%D9%8A%D8%AE %D8%B3%D9%84%D8%B7%
D8%A7%D9%86_%D8%A8%D9%86_%D8%B2%D8%A7%D9%8A%D8%AF_19-1-1961.jpg" srcset="//uploa
d.wikimedia.org/wikipedia/commons/thumb/1/12/%D8%A7%D9%84%D8%B4%D9%8A%D8%AE %D8%
B3%D9%84%D8%B7%D8%A7%D9%86_%D8%A8%D9%86_%D8%B2%D8%A7%D9%8A%D8%AF_19-1-1961.jpg/2
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%D8%B2%D8%A7%D9%8A%D8%AF_19-1-1961.jpg 1.5x, //upload.wikimedia.org/wikipedia/co
mmons/thumb/1/12/%D8%A7%D9%84%D8%B4%D9%8A%D8%AE_%D8%B3%D9%84%D8%B7%D8%A7%D9%86_%
D8%A8%D9%86_%D8%B2%D8%A7%D9%8A%D8%AF_19-1-1961.jpg/340px-%D8%A7%D9%84%D8%B4%D9%8
A%D8%AE_%D8%B3%D9%84%D8%B7%D8%A7%D9%86_%D8%A8%D9%86_%D8%B2%D8%A7%D9%8A%D8%AF_19-
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61.jpg" title="Enlarge"></a></div>Sheikh <a
href="/wiki/Shakhbut bin Sultan Al Nahyan" title="Shakhbut bin Sultan Al
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Nahyan">Shakhbut bin Sultan Al Nahyan</a>, brother of Sheikh <a
href="/wiki/Zayed_bin_Sultan_Al_Nahyan" title="Zayed bin Sultan Al
Nahyan">Zayed</a>, ruled Abu Dhabi from 1928 to 1966</div></div></div>
<div class="thumb tleft"><div class="thumbinner" style="width:222px;"><a</pre>
class="image" href="/wiki/File:Umm Al Nar Cup.jpg"><img alt=""
class="thumbimage" data-file-height="2473" data-file-width="2473"
decoding="async" height="220" src="//upload.wikimedia.org/wikipedia/commons/thum
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1.5x.
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class="magnify"><a class="internal" href="/wiki/File:Umm_Al_Nar_Cup.jpg"</pre>
title="Enlarge"></a></div>Decorated stone cup from <a class="mw-redirect"
href="/wiki/Umm_al-Nar_culture" title="Umm al-Nar culture">Umm Al Nar site</a>,
Abu Dhabi on display at the <a href="/wiki/Louvre_Abu_Dhabi" title="Louvre Abu
Dhabi">Louvre Abu Dhabi</a></div></div>
<div class="hatnote navigation-not-searchable" role="note">See also: <a</pre>
href="/wiki/Timeline_of_Abu_Dhabi" title="Timeline of Abu Dhabi">Timeline of Abu
Dhabi</a></div>
The <a href="/wiki/Abu Dhabi Central Capital District" title="Abu Dhabi</p>
Central Capital District">area surrounding Abu Dhabi</a> is full of
archaeological evidence from historical civilizations, such as the <a class="mw-
redirect" href="/wiki/Umm_an-Nar_Culture" title="Umm an-Nar Culture">Umm an-Nar
Culture </a>, which dates back from the third millennium BCE. Other settlements
were also found farther outside the modern city of Abu Dhabi, including the <a
href="/wiki/Al-Ain_Region, Abu_Dhabi" title="Al-Ain Region, Abu
Dhabi">eastern</a><sup class="reference" id="cite_ref-9"><a
href="#cite_note-9">[9]</a></sup> and <a class="mw-redirect"
href="/wiki/Al Gharbia, Abu Dhabi" title="Al Gharbia, Abu Dhabi">western</a>
regions of the Emirate. sup class="reference" id="cite_ref-DCTAD2017_10-0"><a</pre>
href="#cite_note-DCTAD2017-10">[10]</a></sup>
<h3><span class="mw-headline" id="Etymology">Etymology</span><span class="mw-
editsection"><span class="mw-editsection-bracket">[</span><a
href="/w/index.php?title=Abu Dhabi&action=edit&section=2" title="Edit
section: Etymology">edit</a><span class="mw-editsection-
bracket">]</span></span></h3>
"Abu" is Arabic for father, and "Dhabi" is the Arabic word for <a
href="/wiki/Gazelle" title="Gazelle">gazelle</a>. <i><a
href="/wiki/Ab_(Semitic)" title="Ab (Semitic)">Abu</a> Dhabi</i> means "Father
of Gazelle." It is thought that this name came about because of the abundance of
gazelles in the area and a folk tale involving <a class="mw-redirect"
href="/wiki/Shakhbut bin Dhiyab al Nahyan" title="Shakhbut bin Dhiyab al
Nahyan">Shakhbut bin Dhiyab al Nahyan</a>.<sup class="reference" id="cite ref-
name_5-1"><a href="#cite_note-name-5">[5]</a></sup><sup class="reference"</pre>
id="cite_ref-11"><a href="#cite_note-11">[11]</a></sup>
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<h3>Origins of Al Nahyan[<a

href="/w/index.php?title=Abu_Dhabi&action=edit§ion=3" title="Edit
section: Origins of Al Nahyan">edit]</h3>

<div class="hatnote navigation-not-searchable" role="note">Main article: Al Nahyan
family</div>

The Bani Yas bedouin was
originally centered on the Liwa
Oasis in the western region of the Emirate. This tribe was the most
significant in the area, having over 20 subsections. In 1793, the <i>Al Bu
Falah</i> subsection migrated to the island of Abu Dhabi on the coast of the
Persian Gulf due to the discovery of freshwater there. One family within this
section was the Nahyan
family, which is now the ruling family of Abu Dhabi.<sup class="reference"
id="cite_ref-12">[12]</sup>

<h3>Pearl trade[<a
href="/w/index.php?title=Abu_Dhabi&action=edit&section=4" title="Edit
section: Pearl trade">edit]</h3>

The pearl diving business was a key industry prior to the discovery of oil reserves. According to a source about pearling, the Persian Gulf was the best location for pearls.
class="reference" id="cite_ref-13">[13]</sup> Pearl divers dive for one to one-and-a-half minutes and would have dived up to thirty times per day. There were no air tanks and any other sort of mechanical device was forbidden. The divers had a leather nose clip and leather coverings on their fingers and big toes to protect them while they searched for oysters.
class="reference" id="cite_ref-14">[14]</sup> The divers were not paid for a day's work but received a portion of the season's earnings.
csup class="reference" id="cite_ref-15">[15]</sup>

<h3>Trucial coast[<a
href="/w/index.php?title=Abu_Dhabi&action=edit&section=5" title="Edit
section: Trucial coast">edit]</h3></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan></pan>

In the 19th century, as a result of treaties (known as "truces" which gave the coast its name) entered into between Great Britain and the sheikhs of the Arab States of the Persian Gulf, Britain became the predominant influence in the area.

href="#cite_note-16">[16]</sup> The main purpose of British interest was to protect the trade route to India from pirates, hence, the earlier name for the

area, the "Pirate Coast". After piracy was suppressed, other considerations came into play, such as a strategic need of the British to exclude other powers from the region. Following their withdrawal from India in 1947, the British maintained their influence in Abu Dhabi as interest in the oil potential of the Persian Gulf grew. sup class="reference" id="cite ref-17"><a</pre> href="#cite_note-17">[17]</sup> <h3>First oil discoveries[edit]</h3> In the mid to late 1930s, as the pearl trade declined, interest grew in the oil possibilities of the region. On 5 January 1936, Petroleum Development Trucial Coast Ltd (PDTC), an associate company of the Iraq Petroleum Company, entered into a concession agreement with the ruler, Sheikh Shakhbut bin Sultan Al Nahyan, to explore for oil. This was followed by a seventy-five-year concession signed in January 1939. However, owing to the desert terrain, inland exploration was fraught with difficulties. In 1953, D'Arcy Exploration Company, the exploration arm of BP, obtained an offshore concession which was then transferred to a company created to operate the concession: Abu Dhabi Marine Areas (ADMA) was a joint venture between BP and Compagnie Française des Pétroles (later Total). In 1958, using a marine drilling platform, the ADMA Enterprise, oil was struck in the Umm Shaif field at a depth of about 2,669 metres (8,755 ft). This was followed in 1959 by PDTC's onshore discovery well at Murban No.3. sup class="reference" id="cite_ref-AB_18-0">[18]</sup> In 1962, the company discovered the Bu Hasa field and ADMA followed in 1965 with the discovery of the Zakum offshore field. Today, in addition to the oil fields mentioned, the main producing fields onshore are Asab, Sahil and Shah, and offshore are al-Bunduq, and Abu al-Bukhoosh. < sup class="reference" id="cite_ref-AB_18-1">[18]</sup> <h3>A Pictorial essay of old Abu Dhabi[<a</pre> href="/w/index.php?title=Abu Dhabi&action=edit§ion=7" title="Edit section: A Pictorial essay of old Abu Dhabi">edit]</h3> In 1904, German explorer, Hermann Burchardt, took many photographs of historical sites in Abu Dhabi, photos that are now held at the <a

href="/wiki/Ethnological_Museum_of_Berlin" title="Ethnological Museum of

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Berlin">Ethnological Museum of Berlin</a>.<sup class="reference"
id="cite_ref-19"><a href="#cite_note-19">[19]</a></sup>
<h2><span class="mw-headline" id="Geography">Geography</span><span class="mw-
editsection"><span class="mw-editsection-bracket">[</span><a
href="/w/index.php?title=Abu_Dhabi&action=edit&section=8" title="Edit
section: Geography">edit</a><span class="mw-editsection-
bracket">]</span></span></h2>
<div class="thumb tright"><div class="thumbinner" style="width:222px;"><a</pre>
class="image" href="/wiki/File:Abu_Dhabi_SPOT_1034.jpg"><img alt=""
class="thumbimage" data-file-height="500" data-file-width="500" decoding="async"
height="220" src="//upload.wikimedia.org/wikipedia/commons/thumb/b/b4/Abu_Dhabi_
SPOT_1034.jpg/220px-Abu_Dhabi_SPOT_1034.jpg" srcset="//upload.wikimedia.org/wiki
pedia/commons/thumb/b/b4/Abu_Dhabi_SPOT_1034.jpg/330px-Abu_Dhabi_SPOT_1034.jpg
1.5x, //upload.wikimedia.org/wikipedia/commons/thumb/b/b4/Abu_Dhabi_SPOT_1034.jp
g/440px-Abu_Dhabi_SPOT_1034.jpg 2x" width="220"/></a> <div
class="thumbcaption"><div class="magnify"><a class="internal"</pre>
href="/wiki/File:Abu_Dhabi_SPOT_1034.jpg" title="Enlarge"></a></div>Abu_Dhabi
seen from SPOT satellite</div></div></div>
The city of Abu Dhabi is on the south<a href="/wiki/Eastern Arabia"</p>
title="Eastern Arabia">eastern side</a> of the <a href="/wiki/Arabian Peninsula"
title="Arabian Peninsula">Arabian Peninsula</a>, adjoining the <a
href="/wiki/Persian Gulf" title="Persian Gulf">Persian Gulf</a>. It is on an
island less than 250 metres (820 ft) from the mainland and is joined to the
mainland by the Maqta and <a href="/wiki/Mussafah" title="Mussafah">Mussafah</a>
Bridges. A third, <a class="mw-redirect" href="/wiki/Sheikh Zayed Bridge"
title="Sheikh Zayed Bridge">Sheikh Zayed Bridge</a>, designed by <a
href="/wiki/Zaha_Hadid" title="Zaha Hadid">Zaha Hadid</a>, opened in late 2010.
Abu Dhabi Island is also connected to <a href="/wiki/Saadiyat_Island"
title="Saadiyat Island">Saadiyat Island</a> by a five-lane motorway bridge. Al-
Mafraq bridge connects the city to <a href="/wiki/Al_Reem_Island" title="Al Reem
Island">Reem Island</a> and was completed in early 2011. This is a multi-layer
interchange bridge and it has 27 lanes which allow roughly 25,000 automobiles to
move per hour. There are three major bridges in the project, the largest has
eight lanes, four leaving Abu Dhabi city and four coming in. < sup
class="reference" id="cite ref-20"><a href="#cite note-20">[20]</a></sup>
Most of Abu Dhabi city is located on the island itself, but it has many
suburban districts on the mainland, for example, Khalifa City A, B, and C; < sup
class="reference" id="cite_ref-21"><a href="#cite_note-21">[21]</a></sup>
Khalifa City Al Raha Beach; <sup class="reference" id="cite_ref-22" ><a
href="#cite_note-22">[22]</a></sup> Al Bahia City A, B, and C; Al Shahama; Al
Rahba; Between Two Bridges; Baniyas; Shamkha; AL Wathba and Mussafah
Residential.
Gulf waters of Abu Dhabi holds the world's largest population of <a
class="mw-redirect" href="/wiki/Indo-Pacific_humpbacked_dolphin" title="Indo-
Pacific humpbacked dolphin">Indo-Pacific humpbacked dolphins</a>.<sup
class="reference" id="cite_ref-23"><a href="#cite_note-23">[23]</a></sup><sup
class="reference" id="cite_ref-24"><a href="#cite_note-24">[24] </a></sup><sup
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class="reference" id="cite_ref-25"><a href="#cite_note-25">[25]</a></sup> To the
east of the island is the <a class="mw-redirect"
href="/wiki/Mangrove National Park, Abu Dhabi" title="Mangrove National Park,
Abu Dhabi">Mangrove National Park</a>, located on Al Qurm Corniche. <i>Al-
Qurm</i> (<span dir="rtl" lang="ar" title="Arabic language
      <>/span>) is <a href="/wiki/Arabic" title="Arabic">Arabic</a> for
"The <a href="/wiki/Mangrove" title="Mangrove">Mangrove</a>".<sup
class="reference" id="cite ref-TheNational 04-2019 26-0"><a href="#cite note-
TheNational_04-2019-26">[26]</a></sup>
<h3><span class="mw-headline" id="Climate">Climate</span><span class="mw-
editsection"><span class="mw-editsection-bracket">[</span><a
href="/w/index.php?title=Abu_Dhabi&action=edit&section=9" title="Edit
section: Climate">edit</a><span class="mw-editsection-
bracket">]</span></h3>
Abu Dhabi has a <a class="mw-redirect" href="/wiki/Hot_desert_climate"</p>
title="Hot desert climate">hot desert climate</a> (<a
href="/wiki/K%C3%B6ppen_climate_classification" title="Köppen climate
classification">Köppen climate classification</a> <i>BWh</i>). Sunny blue skies
can be expected throughout the year. The months of June through September are
generally extremely hot and humid with maximum temperatures averaging above
41 °C (106 °F). During this time, sandstorms occur intermittently, in some cases
reducing visibility to a few meters. < sup class="reference" id="cite_ref-27" > < a
href="#cite note-27">[27]</a></sup>
The cooler season is from November to March, which ranges between
moderately hot to mild. This period also sees dense fog on some days and a few
days of rain. On average, January is the coolest month of the year, while August
is the hottest. Since the Tropic of Cancer passes through the emirate, the
southern part falls within the <a href="/wiki/Tropics"
title="Tropics">Tropics</a>. However, despite the coolest month having an
18.8 °C (65.8 °F) average, its climate is far too dry to be classed as tropical.
<div>
height: 1.2em; margin:auto;">
Climate data for Abu Dhabi
Month
Jan
Feb
Mar
Apr
```

```
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Year
Record high °C (°F)
33.7<br/>(92.7)
38.1<br/>(100.6)
43.0<br/>(109.4)
44.7<br/>(112.5)
46.9<br/>(116.4)
48.8<br/>(119.8)
48.7<br/>(119.7)
49.2<br/>(120.6)
47.7<br/>(117.9)
43.0<br/>(109.4)
38.0<br/>(100.4)
33.4<br/>(92.1)
width:medium">49.2<br/>(120.6)
```

```
Average high °C (°F)
24.1<br/>(75.4)
26.0<br/>(78.8)
29.5<br/>(85.1)
34.5<br/>(94.1)
39.3<br/>(102.7)
40.8<br/>(105.4)
42.1<br/>(107.8)
42.9<br/>(109.2)
40.4<br/>(104.7)
36.5<br/>(97.7)
31.1<br/>(88.0)
26.3<br/>(79.3)
width:medium">34.5<br/>(94.0)
Daily mean °C (°F)
18.8<br/>(65.8)
19.6<br/>(67.3)
22.6<br/>(72.7)
26.4<br/>(79.5)
31.2<br/>(88.2)
33.0<br/>(91.4)
34.9<br/>(94.8)
```

```
35.3<br/>(95.5)
32.7<br/>(90.9)
29.1<br/>(84.4)
24.5<br/>(76.1)
20.8<br/>(69.4)
width:medium">27.4<br/>(81.3)
Average low °C (°F)
13.2<br/>(55.8)
14.6<br/>(58.3)
17.5<br/>(63.5)
20.8<br/>(69.4)
23.8<br/>(74.8)
26.1<br/>(79.0)
28.8<br/>(83.8)
29.5<br/>(85.1)
26.6<br/>(79.9)
23.2<br/>(73.8)
18.7<br/>(65.7)
15.8<br/>(60.4)
<td style="background: #FF8914; color:#000000; border-left-
width:medium">21.5<br/>(70.8)
Record low °C (°F)
5.0<br/>(41.0)
```

```
5.0<br/>(41.0)
8.4<br/>(47.1)
11.2<br/>(52.2)
16.0<br/>(60.8)
19.8<br/>(67.6)
16.5<br/>(61.7)
17.0<br/>(62.6)
19.0<br/>(66.2)
12.0<br/>(53.6)
10.5<br/>(50.9)
7.1<br/>(44.8)
<td style="background: #FFFBF8; color:#000000; border-left-
width:medium">5.0<br/>(41.0)
Average <a href="/wiki/Precipitation"</pre>
title="Precipitation">precipitation</a> mm (inches)
7.0<br/>(0.28)
21.2<br/>(0.83)
14.5<br/>(0.57)
6.1<br/>(0.24)
1.3<br/>(0.05)
0<br/>>(0)
0<br/>>(0)
1.5<br/>(0.06)
0<br/>(0)
0<br/>>(0)
```

```
0.3<br/>(0.01)
5.2<br/>(0.20)
<td style="background: #F7FFF7; color:#000000; border-left-
width:medium">57.1<br/>(2.24)
Average precipitation days <span</pre>
class="nowrap" style="font-size:90%;">( 0.2 mm)</span>
1.2
2.8
2.8
1.2
0.1
0.0
0.0
0.1
0.0
0.0
0.2
1.5
9.9
Average <a href="/wiki/Relative_humidity"</pre>
title="Relative humidity">relative humidity</a> (%)
68
67
63
```

```
58
55
60
61
63
64
65
65
68
63
Mean monthly <a</pre>
href="/wiki/Sunshine duration" title="Sunshine duration">sunshine hours</a>
246.1
232.6
251.1
280.5
342.2
336.9
314.2
307.5
302.4
304.7
286.6
257.6
```

```
3,462.4
Source: NOAA
(1971-1991) < sup class="reference" id="cite_ref-NOAA_28-0" > <a href="#cite_note-
NOAA-28">[28]</a></sup>
</div>
<center>
<caption>Abu Dhabi mean sea temperature<sup class="reference" id="cite ref-</pre>
Seatemperature_29-0"><a href="#cite_note-Seatemperature-29">[29]</a></sup>
</caption>
Jan
Feb
Mar
Apr
May
<t.h>>.Jiin
Jul
Aug
Sep
Oct
Nov
Dec
22.2 °C<br/>72.0 °F
20.6 °C<br/>69.1 °F
22.4 °C<br/>72.3 °F
25.0 °C<br/>77.0 °F
29.0 °C<br/>84.2 °F
```

```
31.6 °C<br/>88.9 °F
32.7 °C<br/>90.9 °F
33.8 °C<br/>92.8 °F
33.4 °C<br/>92.1 °F
31.5 °C<br/>88.7 °F
28.3 °C<br/>82.9 °F
24.5 °C<br/>76.1 °F
</center>
<h2><span class="mw-headline" id="Government">Government</span><span class="mw-
editsection"><span class="mw-editsection-bracket">[</span><a
href="/w/index.php?title=Abu_Dhabi&action=edit&section=10" title="Edit
section: Government">edit</a><span class="mw-editsection-
bracket">]</span></span></h2>
ambox-content" role="presentation"><a
class="image" href="/wiki/File:Wiki_letter_w_cropped.svg"><img alt="[icon]"
data-file-height="31" data-file-width="44" decoding="async" height="14" src="//u
pload.wikimedia.org/wikipedia/commons/thumb/1/1c/Wiki_letter_w_cropped.svg/20px-
Wiki letter w_cropped.svg.png" srcset="//upload.wikimedia.org/wikipedia/commons/
thumb/1/1c/Wiki_letter_w_cropped.svg/30px-Wiki_letter_w_cropped.svg.png 1.5x, //
upload.wikimedia.org/wikipedia/commons/thumb/1/1c/Wiki_letter_w_cropped.svg/40px
-Wiki_letter_w_cropped.svg.png 2x" width="20"/></a><td class="mbox-
text"><div class="mbox-text-span">This section <b>needs expansion</b>.
<small>You can help by <a class="external text" href="https://en.wikipedia.org/w</pre>
/index.php?title=Abu Dhabi&action=edit&section=">adding to
it</a>.</small> <small class="date-container"><i>(<span class="date">August
2017</span>)</i></small></div>
Under the rule of the <a
href="/wiki/Department of Municipal Affairs (Abu Dhabi)" title="Department of
Municipal Affairs (Abu Dhabi)">Department of Municipal Affairs</a>, the city is
part of the <a href="/wiki/Abu_Dhabi_Central_Capital_District" title="Abu Dhabi
Central Capital District">Central Capital District</a>,<sup class="reference"
id="cite_ref-30"><a href="#cite_note-30">[a]</a></sup> which is separate from
the eastern and western municipal regions of the Emirate of Abu Dhabi. The main
settlement of the <a href="/wiki/Al-Ain_Region, Abu_Dhabi" title="Al-Ain Region,
Abu Dhabi">eastern region, officially "Al Ain Region"</a> since a decree by <a
href="/wiki/Khalifa_bin_Zayed_Al_Nahyan" title="Khalifa bin Zayed Al
Nahyan">Sheikh Khalifa</a> in March 2017, is <a href="/wiki/Al_Ain" title="Al
Ain">Al Ain</a> City, and that of the <a class="mw-redirect"
href="/wiki/Al Gharbia, Abu Dhabi" title="Al Gharbia, Abu Dhabi">western region,
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officially "Al Dhafra Region"</a> as per the same decree, <sup class="reference"
id="cite_ref-GulfNews_03-2017_31-0"><a href="#cite_note-
GulfNews_03-2017-31">[30]</a></sup><sup class="reference" id="cite ref-
TheNational_03-2017_32-0"><a href="#cite_note-
TheNational 03-2017-32">[31]</a></sup> is <a href="/wiki/Madinat Zayed"
title="Madinat Zayed">Madinat Zayed</a>.<sup class="reference" id="cite ref-
OBG2016 1-2"><a href="#cite note-OBG2016-1">[1]</a></sup><sup class="reference"
id="cite ref-DCTAD2017 10-1"><a href="#cite note-DCTAD2017-10">[10]</a></sup>
Councils such as the <a href="/wiki/Abu Dhabi Urban Planning Council"
title="Abu Dhabi Urban Planning Council">Abu Dhabi Urban Planning Council</a>
and the <a href="/wiki/Regulation and Supervision Bureau" title="Regulation and
Supervision Bureau">Regulation and Supervision Bureau</a> are responsible for
infrastructure projects in the city. Finances are mainly through the state
government. Because Abu Dhabi is the capital of the UAE, the president's office
is located here. sup class="reference" id="cite_ref-33"><a</pre>
href="#cite_note-33">[32]</a></sup>
The <a class="new" href="/w/index.php?title=Abu_Dhabi_Government_Media_Of
fice(ADGMO)&action=edit&redlink=1" title="Abu Dhabi Government Media
Office(ADGMO) (page does not exist)">Abu Dhabi Government Media Office
(ADGMO) </a> was formed in 2019 and is responsible for representing the
government in the media, organizing press conferences for the emirate and
monitoring local and international media. It is a state-sponsored organization
that communicates the latest developments in the capital, and the emirate's
vision, values and traditions.<sup class="reference" id="cite_ref-34"><a
href="#cite_note-34">[33]</a>></sup><sup class="reference" id="cite_ref-35"><a
href="#cite note-35">[34]</a></sup><sup class="reference" id="cite ref-36"><a
href="#cite note-36">[35]</a></sup><sup class="reference" id="cite ref-37"><a
href="#cite_note-37">[36]</a></sup>
<h2><span class="mw-headline" id="Cityscape">Cityscape</span><span class="mw-
editsection"><span class="mw-editsection-bracket">[</span><a
href="/w/index.php?title=Abu_Dhabi&action=edit&section=11" title="Edit
section: Cityscape">edit</a><span class="mw-editsection-
bracket">]</span></span></h2>
<div class="thumb tnone" style="margin:0 auto;overflow:hidden;width:auto;max-</pre>
width:1008px"><div class="thumbinner"><div class="noresize"</pre>
style="overflow:auto"><a class="image"
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Dhabi skyline as seen from the Marina"><img alt="" data-file-height="2041" data-
file-width="11658" decoding="async" height="175" src="//upload.wikimedia.org/wik
ipedia/commons/thumb/1/11/Panoramic_view_from_Marina_Village_-
_Abu_Dhabi.jpg/1000px-Panoramic_view_from_Marina_Village - Abu_Dhabi.jpg" srcset
="//upload.wikimedia.org/wikipedia/commons/thumb/1/11/Panoramic_view_from_Marina
_Abu_Dhabi.jpg 1.5x, //upload.wikimedia.org/wikipedia/commons/thumb/1/11/Panoram
ic_view_from_Marina_Village_-_Abu_Dhabi.jpg/2000px-
Panoramic_view_from_Marina_Village_-_Abu_Dhabi.jpg 2x"
width="1000"/></a></div><div class="thumbcaption" style="text-align:center"><div
```

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class="magnify"><a href="/wiki/File:Panoramic_view_from_Marina_Village_-
_Abu_Dhabi.jpg" title="File:Panoramic view from Marina Village - Abu Dhabi.jpg">
</a></div>Abu Dhabi skyline as seen from the Marina</div></div></div>
<h3><span class="mw-headline" id="Neighborhoods">Neighborhoods</span><span
class="mw-editsection"><span class="mw-editsection-bracket">[</span><a
href="/w/index.php?title=Abu_Dhabi&action=edit&section=12" title="Edit
section: Neighborhoods">edit</a><span class="mw-editsection-
bracket">]</span></span></h3>
<span id="List_of_neighbourhoods_in_Abu_Dhabi"></span>
<div class="div-col columns column-width" style="-moz-column-width: 18em;</pre>
-webkit-column-width: 18em; column-width: 18em;">
<a class="new"</li>
href="/w/index.php?title=Al_Aman&action=edit&redlink=1" title="Al Aman
(page does not exist)">Al Aman</a>
<a class="new"</li>
href="/w/index.php?title=Al_Bateen&action=edit&redlink=1" title="Al
Bateen (page does not exist)">Al Bateen</a>
<a class="new"</li>
href="/w/index.php?title=Al Dhafrah&action=edit&redlink=1" title="Al
Dhafrah (page does not exist)">Al Dhafrah</a>
<a class="new"</li>
href="/w/index.php?title=Al_Falah&action=edit&redlink=1" title="Al Falah
(page does not exist)">Al Falah</a>
<a href="/wiki/Al_Karama,_United_Arab_Emirates" title="Al Karama, United</pre>
Arab Emirates">Al Karama</a>
<a class="new"
href="/w/index.php?title=Al_Khubeirah&action=edit&redlink=1" title="Al
Khubeirah (page does not exist)">Al Khubeirah</a>
<a href="/wiki/Al_Lulu_Island" title="Al Lulu Island">Al Lulu
Island</a>
<a class="new"</li>
href="/w/index.php?title=Al_Madina_(Abu_Dhabi)&action=edit&redlink=1"
title="Al Madina (Abu Dhabi) (page does not exist)">Al Madina</a>
<a href="/wiki/Al Maryah Island" title="Al Maryah Island">Al Maryah
Island</a>
<a class="new"</li>
href="/w/index.php?title=Al_Manaseer&action=edit&redlink=1" title="Al
Manaseer (page does not exist)">Al Manaseer</a>
<a class="new"
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Manhal (page does not exist)">Al Manhal</a>
<a class="new"</li>
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Maqtaa (page does not exist)">Al Maqtaa</a>
<a class="new"</li>
href="/w/index.php?title=Al_Markaziyah&action=edit&redlink=1" title="Al
Markaziyah (page does not exist)">Al Markaziyah</a>
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(page does not exist)">Al Meena</a>
<a class="new"</li>
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Moroor (page does not exist)">Al Moroor</a>
<a href="/wiki/Al Mushrif" title="Al Mushrif">Al Mushrif</a>
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Muzoon (page does not exist)">Al Muzoon</a>
<a href="/wiki/Al_Nahyan_neighbourhood" title="Al Nahyan neighbourhood">Al</a>
Nahyan</a>
<a class="new"</li>
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Qubesat (page does not exist)">Al Qubesat</a>
<a class="new"</li>
href="/w/index.php?title=Al_Ras_Al_Akhdar&action=edit&redlink=1"
title="Al Ras Al Akhdar (page does not exist)">Al Ras Al Akhdar</a>
<a class="new"</li>
href="/w/index.php?title=Al Reef&action=edit&redlink=1" title="Al Reef
(page does not exist)">Al Reef</a>
<a href="/wiki/Al_Reem_Island" title="Al Reem Island">Al Reem
Island</a>
<a class="new"
href="/w/index.php?title=Al_Rehhan&action=edit&redlink=1" title="Al
Rehhan (page does not exist)">Al Rehhan</a>
<a class="new"</li>
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Rowdah (page does not exist)">Al Rowdah</a>
<a class="new"</li>
href="/w/index.php?title=Al_Shamkha&action=edit&redlink=1" title="Al
Shamkha (page does not exist)">Al Shamkha</a>
<a href="/wiki/Bani_Yas" title="Bani Yas">Bani Yas</a>
<a class="new"
href="/w/index.php?title=Al_Zaab&action=edit&redlink=1" title="Al Zaab
(page does not exist)">Al Zaab</a>
<a href="/wiki/Al Zahiyah" title="Al Zahiyah">Al Zahiyah</a>
<a class="new"</li>
href="/w/index.php?title=Al_Zahraa&action=edit&redlink=1" title="Al
Zahraa (page does not exist)">Al Zahraa</a>
<a class="new"</li>
href="/w/index.php?title=Al_Khalidyah&action=edit&redlink=1" title="Al
Khalidyah (page does not exist)">Al Khalidyah</a>
<a class="new"</li>
href="/w/index.php?title=Bain_Al_Jisrain&action=edit&redlink=1"
title="Bain Al Jisrain (page does not exist)">Bain Al Jisrain</a>
<a class="new"</li>
href="/w/index.php?title=Hideriyyat&action=edit&redlink=1"
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title="Hideriyyat (page does not exist)">Hideriyyat</a>
<a href="/wiki/Khalifa_City" title="Khalifa City">Khalifa City</a>
<a class="new" href="/w/index.php?title=Marina_Village_(Abu_Dhabi)&amp;actio</pre>
n=edit&redlink=1" title="Marina Village (Abu Dhabi) (page does not
exist)">Marina Village</a>
<a href="/wiki/Masdar_City" title="Masdar City">Masdar City</a>
<a class="mw-redirect" href="/wiki/Mohammed Bin Zayed City" title="Mohammed</pre>
Bin Zayed City">Mohammed Bin Zayed City</a>
<a href="/wiki/Saadiyat Island" title="Saadiyat Island">Saadiyat
Island</a>
<a class="new"
href="/w/index.php?title=Shakhbout_City&action=edit&redlink=1"
title="Shakhbout City (page does not exist)">Shakhbout City</a>
<a class="new"</li>
href="/w/index.php?title=Officers_City&action=edit&redlink=1"
title="Officers City (page does not exist)">Officers City</a>
<a class="new"
href="/w/index.php?title=Qasr_El_Bahr&action=edit&redlink=1" title="Qasr
El Bahr (page does not exist)">Qasr El Bahr</a>
<a class="new"
href="/w/index.php?title=Qasr El Shatie&action=edit&redlink=1"
title="Qasr El Shatie (page does not exist)">Qasr El Shatie</a>
<a href="/wiki/Yas_Island" title="Yas Island">Yas Island</a>
<a href="/wiki/Al_Samha" title="Al Samha">Al Samha</a>
</div>
<h3><span class="mw-headline" id="Architecture">Architecture</span><span
class="mw-editsection"><span class="mw-editsection-bracket">[</span><a
href="/w/index.php?title=Abu_Dhabi&action=edit&section=13" title="Edit
section: Architecture">edit</a><span class="mw-editsection-
bracket">]</span></span></h3>
<div class="hatnote navigation-not-searchable" role="note">See also: <a</pre>
href="/wiki/List_of_tallest_buildings_in_Abu_Dhabi" title="List of tallest
buildings in Abu Dhabi">List of tallest buildings in Abu Dhabi</a></div>
<div class="thumb tleft"><div class="thumbinner" style="width:172px;"><a</pre>
class="image"
href="/wiki/File:ADIA_Tower_and_The_Landmark_in_Abu_Dhabi.jpg"><img alt=""
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decoding="async" height="227" src="//upload.wikimedia.org/wikipedia/en/thumb/d/d
9/ADIA_Tower_and_The_Landmark_in_Abu_Dhabi.jpg/170px-
ADIA_Tower_and_The_Landmark_in_Abu_Dhabi.jpg" srcset="//upload.wikimedia.org/wik
ipedia/en/thumb/d/d9/ADIA_Tower_and_The_Landmark_in_Abu_Dhabi.jpg/255px-
ADIA Tower and The Landmark in Abu Dhabi.jpg 1.5x, //upload.wikimedia.org/wikipe
dia/en/thumb/d/d9/ADIA_Tower_and_The_Landmark_in_Abu_Dhabi.jpg/340px-
ADIA Tower and The Landmark in Abu Dhabi.jpg 2x" width="170"/></a> <div
class="thumbcaption"><div class="magnify"><a class="internal"</pre>
href="/wiki/File:ADIA_Tower_and_The_Landmark_in_Abu_Dhabi.jpg"
title="Enlarge"></a></div><a href="/wiki/Abu_Dhabi_Investment_Authority"
title="Abu Dhabi Investment Authority">ADIA Tower</a> to the left and <a
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href="/wiki/The_Landmark_(Abu_Dhabi)" title="The Landmark (Abu_Dhabi)">The
Landmark</a> at the right in Abu Dhabi</div></div></div>
<div class="thumb tright"><div class="thumbinner" style="width:172px;"><a</pre>
class="image" href="/wiki/File:Capital_Gate.jpg"><img alt="" class="thumbimage"
data-file-height="5184" data-file-width="3456" decoding="async" height="255"
src="//upload.wikimedia.org/wikipedia/en/thumb/e/e5/Capital_Gate.jpg/170px-
Capital Gate.jpg"
srcset="//upload.wikimedia.org/wikipedia/en/thumb/e/e5/Capital_Gate.jpg/255px-
Capital_Gate.jpg 1.5x,
//upload.wikimedia.org/wikipedia/en/thumb/e/e5/Capital_Gate.jpg/340px-
Capital_Gate.jpg 2x" width="170"/></a> <div class="thumbcaption"><div
class="magnify"><a class="internal" href="/wiki/File:Capital_Gate.jpg"</pre>
title="Enlarge"></a></div><a href="/wiki/Capital_Gate" title="Capital
Gate">Capital Gate</a></div></div>
The city was planned under the guidance of Sheikh Zayed by Japanese architect
<a class="new" href="/w/index.php?title=Katsuhiko_Takahashi_(architect)&amp;acti</pre>
on=edit&redlink=1" title="Katsuhiko Takahashi (architect) (page does not
exist)">Katsuhiko Takahashi</a> in 1967 initially for a population of
40,000.<sup class="reference" id="cite_ref-38"><a
href="#cite note-38">[37]</a></sup> The density of Abu Dhabi varies, with high
employment density in the central area, high residential densities in central
downtown and lower densities in the suburban districts. In the dense areas, most
of the concentration is achieved with medium- and high-rise buildings. Abu
Dhabi's skyscrapers such as the notable <a
href="/wiki/World_Trade_Center_Abu_Dhabi" title="World Trade Center Abu
Dhabi">Burj Mohammed bin Rashid (World Trade Center Abu Dhabi)</a>, <a
href="/wiki/Etihad Towers" title="Etihad Towers">Etihad Towers</a>, <a
href="/wiki/Abu Dhabi Investment Authority Tower" title="Abu Dhabi Investment
Authority Tower">Abu Dhabi Investment Authority Tower</a>,<sup class="reference"
id="cite_ref-39"><a href="#cite_note-39">[38]</a></sup> the <a class="mw-
redirect" href="/wiki/National Bank_of Abu_Dhabi" title="National Bank of Abu
Dhabi">National Bank of Abu Dhabi</a> headquarters, <sup class="reference"
id="cite_ref-40"><a href="#cite_note-40">[39]</a></sup> the Baynunah (<a
class="mw-redirect" href="/wiki/Hilton_Hotels" title="Hilton Hotels">Hilton
Hotel</a>) Tower.<sup class="reference" id="cite ref-41"><a
href="#cite note-41">[40]</a></sup> and the <a href="/wiki/Etisalat"
title="Etisalat">Etisalat</a> headquarters are usually found in the financial
districts of Abu Dhabi. <sup class="reference" id="cite_ref-42" ><a
href="#cite_note-42">[41]</a></sup> Other notable modern buildings include the
<a href="/wiki/Aldar_Headquarters_building" title="Aldar Headquarters</pre>
building">Aldar Headquarters</a>, the first circular skyscraper in the middle
east<sup class="reference" id="cite_ref-43"><a
href="#cite note-43">[42]</a></sup> and the <a href="/wiki/Emirates_Palace"
title="Emirates Palace">Emirates Palace</a> with its design inspired by Arab
heritage.<sup class="reference" id="cite_ref-44"><a
href="#cite_note-44">[43]</a></sup>
The development of tall buildings has been encouraged in the <a
href="/wiki/Abu_Dhabi_Urban_Planning_Council" title="Abu Dhabi Urban Planning
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Council">Abu Dhabi Plan 2030</a>, which will lead to the construction of many
new skyscrapers over the next decade, particularly in the expansion of Abu
Dhabi's central business district such as the new developments on <a
href="/wiki/Al_Maryah_Island" title="Al Maryah Island">Al Maryah Island</a> and
<a href="/wiki/Al Reem Island" title="Al Reem Island">Al Reem Island</a>.<sup
class="reference" id="cite ref-autogenerated1 45-0"><a href="#cite note-
autogenerated1-45">[44]</a></sup> Abu Dhabi already has a number of <a
class="mw-redirect" href="/wiki/List_of_tallest_buildings_in_the_world"
title="List of tallest buildings in the world">supertall skyscrapers</a> under
construction throughout the city. Some of the tallest buildings on the skyline
include the 382 m (1,253.28 ft) <a class="mw-redirect"</pre>
href="/wiki/Central_Market_Project" title="Central Market Project">Central
Market Residential Tower</a>, the 324 m (1,062.99 ft) <a
href="/wiki/The_Landmark_(Abu_Dhabi)" title="The Landmark (Abu_Dhabi)">The
Landmark</a> and the 74-story, 310 m (1,017.06 ft) <a class="mw-redirect"
href="/wiki/The_Gate_Shams_Abu_Dhabi" title="The Gate_Shams_Abu_Dhabi">Sky
Tower</a>, all of them completed. Also, many other skyscrapers over 150 m
(492.13 ft) (500 ft) are either proposed or approved and could transform the
city's skyline. As of July 2008<sup class="plainlinks noexcerpt noprint asof-tag
update" style="display:none;"><a class="external text" href="https://en.wikipedi
a.org/w/index.php?title=Abu Dhabi&action=edit">[update]</a></sup>, there
were 62 high-rise buildings 23 to 150 m (75.46 to 492.13 <a
href="/wiki/Foot (unit)" title="Foot (unit)">ft</a>) under construction,
approved for construction, or proposed for construction. < sup class="reference"
id="cite_ref-46"><a href="#cite_note-46">[45]</a></sup>
<h4><span class="mw-headline" id="Sheikh Zayed Grand Mosque">Sheikh Zayed Grand
Mosque</span><span class="mw-editsection"><span class="mw-editsection-
bracket">[</span><a
href="/w/index.php?title=Abu_Dhabi&action=edit&section=14" title="Edit
section: Sheikh Zayed Grand Mosque">edit</a><span class="mw-editsection-
bracket">]</span></span></h4>
<div class="hatnote navigation-not-searchable" role="note">Main article: <a</pre>
href="/wiki/Sheikh_Zayed_Mosque" title="Sheikh Zayed Mosque">Sheikh Zayed
Mosque</a></div>
<div class="thumb tleft"><div class="thumbinner" style="width:222px;"><a</pre>
class="image" href="/wiki/File:Front of Sheikh Zayed Mosque.jpg"><img alt=""
class="thumbimage" data-file-height="3456" data-file-width="5184"
decoding="async" height="147" src="//upload.wikimedia.org/wikipedia/en/thumb/6/6
b/Front_of_Sheikh_Zayed_Mosque.jpg/220px-Front_of_Sheikh_Zayed_Mosque.jpg" srcse
t="//upload.wikimedia.org/wikipedia/en/thumb/6/6b/Front_of_Sheikh_Zayed_Mosque.j
pg/330px-Front_of_Sheikh_Zayed_Mosque.jpg 1.5x, //upload.wikimedia.org/wikipedia
/en/thumb/6/6b/Front_of_Sheikh_Zayed_Mosque.jpg/440px-
Front_of_Sheikh_Zayed_Mosque.jpg 2x" width="220"/></a> <div
class="thumbcaption"><div class="magnify"><a class="internal"</pre>
href="/wiki/File:Front_of_Sheikh_Zayed_Mosque.jpg"
title="Enlarge"></a></div>Front and entrance of the Grand
Mosque</div></div>
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The Sheikh Zayed Mosque represents a key fixture of the city's architectural patrimony. Its construction was initiated under the administration of the late President HH Sheikh Zayed bin Sultan Al Nahyan, a key figure in the foundation of the modern UAE.
sup class="reference" id="cite_ref-szgmc.ae_47-0">[46]

The mosque was constructed with materials from countries around the
world, including Italy, Germany, Morocco, Pakistan, India, Turkey, Iran, China,
the United Kingdom, New Zealand, Greece, and the United Arab Emirates.<sup
class="reference" id="cite_ref-48">[47]</sup> More
than 3,000 workers and 38 contracting companies took part in the construction of
the mosque. Consideration of durability motivated the choice of many materials
specified in the design of the structure. These materials include marble, stone,
gold, semi-precious stones, crystals, and ceramics. Construction began on 5
November 1996. The building is large enough to safely contain a maximum of
approximately 41,000 people. The overall structure is 22,412 square metres
(241,240 square feet). The
internal prayer halls were initially opened in December 2007.<sup
class="reference" id="cite_ref-szgmc.ae_47-1">[46]</sup>

As one of the most visited buildings in the UAE, the Sheikh Zayed Grand
Mosque Center was established to manage the day-to-day operations, as a place of
worship and Friday gathering and as a center of learning and discovery through
its education and visitor programs.<sup class="reference" id="cite_ref-49">[48]</sup>

In July 2019, the Grand Mosque was listed among the top global
attractions by TripAdvisor.
As a part of its Travelers Choice Awards, the travel website placed the
architectural masterpiece on number three out of the 750 landmarks considered
from 68 different countries.<sup class="reference" id="cite_ref-50">[49]</sup>

<h4><span class="mw-headline"
id="The_Founder's_Memorial">The Founder's Memorial[<a
href="/w/index.php?title=Abu_Dhabi&action=edit&section=15" title="Edit
section: The Founder's Memorial">edit]</h4>

<div class="hatnote navigation-not-searchable" role="note">Main article: The
Founder's Memorial</div>

The Founder's Memorial, a monument and visitor center in Abu Dhabi, United Arab Emirates (UAE) is a memorial to Sheikh Zayed bin Sultan Al Nahyan, the first President of the United Arab Emirates, who died in 2004. The memorial consists of an open Heritage Garden and Sanctuary Garden at the center of which is a cubic pavilion housing The Constellation, an artwork dedicated to Zayed's memory.

href="#cite_note-51">[50]</sup>

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<h4><span class="mw-headline" id="Presidential_Palace">Presidential
Palace</span><span class="mw-editsection"><span class="mw-editsection-
bracket">[</span><a
href="/w/index.php?title=Abu_Dhabi&action=edit&section=16" title="Edit
section: Presidential Palace">edit</a><span class="mw-editsection-
bracket">]</span></span></h4>
<div class="hatnote navigation-not-searchable" role="note">Main article: <a</pre>
href="/wiki/Qasr_Al_Watan" title="Qasr Al Watan">Qasr Al Watan</a></div>
The UAE <a class="mw-redirect" href="/wiki/Presidential Palace"</p>
title="Presidential Palace">Presidential Palace</a>, <i>Qasr Al-Watan</i>
("Palace of the Nation"), <sup class="reference" id="cite_ref-
GulfNews_11-03-2019,_Inside_52-0"><a href="#cite_note-
GulfNews_11-03-2019, Inside-52">[51]</a></sup> opened to the public in March
2019. sup class="reference" id="cite_ref-GulfNews_11-03-2019,_Open_53-0"><a</pre>
href="#cite_note-GulfNews_11-03-2019,_Open-53">[52]</a></sup><sup
class="reference" id="cite_ref-QAM_54-0"><a href="#cite_note-
QAM-54">[53]</a></sup> It was built on the grounds of Ladies beach and
construction was finished in 2018.
<h4><span class="mw-headline" id="Multi-faith worship places">Multi-faith
worship places</span><span class="mw-editsection"><span class="mw-editsection-
bracket">[</span><a
href="/w/index.php?title=Abu_Dhabi&action=edit&section=17" title="Edit
section: Multi-faith worship places">edit</a><span class="mw-editsection-
bracket">]</span></span></h4>
In September 2019, the construction of UAE's first official <a</p>
href="/wiki/Synagogue" title="Synagogue">synagogue</a> was announced to begin in
2020, as a part of the multi-faith "Abrahamic Family House" complex in Abu
Dhabi. It will also give space to a <a href="/wiki/Mosque"
title="Mosque">mosque</a> and a <a href="/wiki/Church_(building)" title="Church
(building)">church</a>, the full construction of which was announced to be
completed by 2022. <sup class="reference" id="cite_ref-55"><a
href="#cite_note-55">[54]</a></sup>
On September 22, 2019, the Department of Community Development (DCD) in
Abu Dhabi held a ceremony to grant licenses to 17 churches and the first-ever
traditional <a class="mw-redirect" href="/wiki/Hindu" title="Hindu">Hindu</a> <a
href="/wiki/Temple" title="Temple">temple</a>. The listed churches were <a
href="/wiki/Catholic_Church" title="Catholic Church">Catholic</a>, <a
href="/wiki/Eastern_Orthodox_Church" title="Eastern Orthodox
Church">Orthodox</a> and <a href="/wiki/Protestantism"
title="Protestantism">Protestant</a> <a href="/wiki/Church_(building)"
title="Church (building)">churches</a>, including <a
href="/wiki/St._Joseph%27s_Cathedral,_Abu_Dhabi" title="St. Joseph's Cathedral,
Abu Dhabi">St Joseph's Cathedral</a>. The initiative was taken under the slogan
"A Call for Harmony", to allow people from all religions and cultures to
practice their faith in the country.<sup class="reference" id="cite ref-56"><a
href="#cite_note-56">[55]</a></sup>
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<h4><span class="mw-headline" id="Qasr_Al_Hosn">Qasr_Al_Hosn</span><span
class="mw-editsection"><span class="mw-editsection-bracket">[</span><a</pre>
href="/w/index.php?title=Abu_Dhabi&action=edit&section=18" title="Edit
section: Qasr Al Hosn">edit</a><span class="mw-editsection-
bracket">]</span></span></h4>
<div class="hatnote navigation-not-searchable" role="note">Main article: <a</pre>
href="/wiki/Qasr al-Hosn" title="Qasr al-Hosn">Qasr Al Hosn</a></div>
Qasr Al Hosn is the oldest building in the Emirate of Abu Dhabi, built by the
Bani Yas tribe and once the seat of the government and the palace of the ruling
Al Nahyan family. Today, it is a museum open to all visitors portraying the
history of Abu Dhabi and early lifestyles.
<h3><span class="mw-headline" id="Parks_and_gardens">Parks and
gardens</span><span class="mw-editsection"><span class="mw-editsection-
bracket">[</span><a
href="/w/index.php?title=Abu_Dhabi&action=edit&section=19" title="Edit
section: Parks and gardens">edit</a><span class="mw-editsection-
bracket">]</span></span></h3>
Abu Dhabi has several parks and gardens and more than 400 kilometres (249)
miles) of coastline, of which 10 kilometres (6 miles) are <a href="/wiki/Beach"
title="Beach">public beaches</a>.<sup class="reference" id="cite_ref-57"><a
href="#cite_note-57">[56]</a></sup>
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A_view_from_Lake_Park_in_Abu_Dhabi%2C_UAE.JPG" srcset="//upload.wikimedia.org/wi
kipedia/commons/thumb/4/41/A_view_from_Lake_Park_in_Abu_Dhabi%2C_UAE.JPG/180px-
A view from Lake Park in Abu Dhabi%2C UAE.JPG 1.5x, //upload.wikimedia.org/wikip
edia/commons/thumb/4/41/A_view_from_Lake_Park_in_Abu_Dhabi%2C_UAE.JPG/240px-
A view from Lake Park in Abu Dhabi%2C UAE.JPG 2x" width="120"/></a></div></div>
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The Lake Park
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"//upload.wikimedia.org/wikipedia/commons/thumb/a/a7/A_view_from_Heritage_Park_i
n_Abu_Dhabi%2C_UAE..JPG/120px-
A view_from_Heritage_Park_in_Abu_Dhabi%2C_UAE...JPG" srcset="//upload.wikimedia.o
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rg/wikipedia/commons/thumb/a/a7/A view from Heritage Park in Abu Dhabi%2C_UAE...J
PG/180px-A_view_from_Heritage_Park_in_Abu_Dhabi%2C_UAE..JPG 1.5x, //upload.wikim
edia.org/wikipedia/commons/thumb/a/a7/A view from Heritage Park in Abu Dhabi%2C
UAE...JPG/240px-A_view_from_Heritage_Park_in_Abu_Dhabi%2C_UAE...JPG 2x"
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A view from Heritage Park
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Turmeric plants at the Heritage Park in Abu Dhabi%2C UAE.JPG 1.5x, //upload.wiki
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bu Dhabi%2C UAE.JPG/168px-
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Turmeric plants at the Heritage Park
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data-file-height="4608" data-file-width="3456" decoding="async" height="120" src
="//upload.wikimedia.org/wikipedia/commons/thumb/8/84/Inside the Heritage Park i
n_Abu_Dhabi%2C_UAE.JPG/90px-Inside_the_Heritage_Park_in_Abu_Dhabi%2C_UAE.JPG" sr
cset="//upload.wikimedia.org/wikipedia/commons/thumb/8/84/Inside_the_Heritage_Pa
rk_in_Abu_Dhabi%2C_UAE.JPG/135px-
Inside_the_Heritage_Park_in_Abu_Dhabi%2C_UAE.JPG 1.5x, //upload.wikimedia.org/wi
kipedia/commons/thumb/8/84/Inside_the_Heritage_Park_in_Abu_Dhabi%2C_UAE.JPG/180p
x-Inside_the_Heritage_Park_in_Abu_Dhabi%2C_UAE.JPG 2x"
width="90"/></a></div>
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Inside the Heritage Park
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</div>
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Watch Tower at the Heritage Park in Abu Dhabi%2C UAE.JPG" srcset="//upload.wikim
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abi%2C UAE.JPG/180px-Watch Tower at the Heritage Park in Abu Dhabi%2C UAE.JPG
1.5x, //upload.wikimedia.org/wikipedia/commons/thumb/d/d4/Watch_Tower_at_the Her
itage_Park_in_Abu_Dhabi%2C_UAE.JPG/240px-
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Watch Tower at the Heritage Park
</div>
</div>
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Abu_Dhabi_Mangroves.jpg" srcset="//upload.wikimedia.org/wikipedia/commons/thumb/
5/5e/Abu Dhabi Mangroves.jpg/180px-Abu Dhabi Mangroves.jpg 1.5x, //upload.wikime
dia.org/wikipedia/commons/thumb/5/5e/Abu_Dhabi_Mangroves.jpg/240px-
Abu_Dhabi_Mangroves.jpg 2x" width="120"/></a></div></div>
<div class="gallerytext">
<a href="/wiki/Avicennia_marina" title="Avicennia marina">Mangroves</a> at <a
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class="mw-redirect" href="/wiki/Mangrove_National_Park,_Abu_Dhabi"
title="Mangrove National Park, Abu Dhabi">Mangrove National Park</a>, near Al
Qurm Corniche on <a class="mw-redirect"
href="/wiki/Sheikh_Zayed_Bin_Sultan_Street,_Abu_Dhabi" title="Sheikh Zayed Bin
Sultan Street, Abu Dhabi">Sheikh Zayed Bin Sultan Street</a> in the eastern part
of the city<sup class="reference" id="cite_ref-TheNational_04-2019_26-1"><a
href="#cite note-TheNational 04-2019-26">[26]</a></sup>
</div>
</div>
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href="/w/index.php?title=Abu_Dhabi&action=edit&section=20" title="Edit
section: Economy">edit</a><span class="mw-editsection-
bracket">]</span></span></h2>
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mons/thumb/4/4f/Night_city_18-01-2013_-_panoramio.jpg/440px-
Night_city_18-01-2013_-_panoramio.jpg 2x" width="220"/></a> <div
class="thumbcaption"><div class="magnify"><a class="internal"</pre>
href="/wiki/File:Night_city_18-01-2013_-_panoramio.jpg"
title="Enlarge"></a></div><a href="/wiki/Etihad_Towers" title="Etihad
Towers">Etihad Towers</a> in the evening</div></div>
The UAE's large hydrocarbon wealth gives it one of the highest GDP per capita
in the world and Abu Dhabi owns the majority of these resources-95% of the oil
and 92% of gas. <sup class="reference" id="cite_ref-58"><a
href="#cite_note-58">[57]</a></sup> Abu Dhabi thus holds 9% of the world's
proven oil reserves (98.2bn barrels) and almost 5% of the world's natural gas
(5.8 <a class="mw-redirect" href="/wiki/1000000000 (number)" title="1000000000
(number) ">billion</a> <a href="/wiki/Cubic metre" title="Cubic metre">cubic
metres</a> or 200 billion <a href="/wiki/Cubic_foot" title="Cubic foot">cubic
feet</a>). Oil production in the UAE was about 2.3 million barrels per day (BPD)
in 2010, <sup class="reference" id="cite_ref-59"><a
href="#cite_note-59">[58]</a></sup> and projects are in progress to boost
production to 3m BPD. In recent years the focus has turned to gas as increasing
domestic consumption for power, desalination and reinjection of gas into oil
fields increases demand. Gas extraction is not without its difficulties,
however, as demonstrated by the sour gas project at Shah where the gas is rich
in hydrogen sulfide content and expensive to develop and process. < sup
class="reference" id="cite_ref-AB_18-2"><a href="#cite_note-
AB-18">[18]</a></sup>
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<div class="thumb tleft"><div class="thumbinner" style="width:222px;"><a</pre>
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Airbus A380-861.jpg/330px-Etihad Airways - Airbus A380-861.jpg 1.5x,
//upload.wikimedia.org/wikipedia/commons/thumb/5/58/Etihad_Airways_-
_Airbus_A380-861.jpg/440px-Etihad Airways_- Airbus_A380-861.jpg 2x"
width="220"/></a> <div class="thumbcaption"><div class="magnify"><a
class="internal" href="/wiki/File:Etihad_Airways_-_Airbus_A380-861.jpg"
title="Enlarge"></a></div>An <a href="/wiki/Airbus A380" title="Airbus
A380">Airbus A380</a> belonging to <a href="/wiki/Etihad Airways" title="Etihad
Airways">Etihad Airways</a>, the second-largest airline in the UAE after <a
href="/wiki/Dubai" title="Dubai">Dubai</a>-based <a
href="/wiki/Emirates_(airline)" title="Emirates
(airline)">Emirates</a></div></div>
In 2009, the government diversified its economic plans. Served by high oil
prices, the country's non-oil and gas GDP outstripped that attributable to the
energy sector. Non-oil and gas GDP now constitutes 64% of the UAE's total GDP.
This trend is reflected in Abu Dhabi with substantial new investment in
industry, <a href="/wiki/Real_estate" title="Real estate">real estate</a>,
tourism and retail. As Abu Dhabi is the largest oil producer of the UAE, it has
reaped the most benefits from this trend. It has taken on an active
diversification and liberalization program to reduce the UAE's reliance on the
hydrocarbon sector. This is evident in the emphasis on industrial
diversification with the completion of free zones, Industrial City of Abu Dhabi,
<a class="new" href="/w/index.php?title=Twofour54&amp;action=edit&amp;redlink=1"</pre>
title="Twofour54 (page does not exist)">twofour54</a> Abu Dhabi media free zone
and the construction of another, ICAD II, in the pipeline. There has also been a
drive to promote tourism and real estate with the <a
href="/wiki/Abu_Dhabi_Tourism_Authority" title="Abu Dhabi Tourism Authority">Abu
Dhabi Tourism Authority</a> and the Tourism and Development Investment Company
undertaking several large-scale development projects. These will be served by
improved transport infrastructure, with a new port, an expanded airport and a
proposed rail link between Abu Dhabi and Dubai all in the development
stages.<sup class="reference" id="cite_ref-60"><a
href="#cite_note-60">[59]</a></sup>
Abu Dhabi's Emirate is the wealthiest of the UAE in terms of <a
href="/wiki/Gross_domestic_product" title="Gross domestic product">Gross
domestic product</a> (GDP) and <a href="/wiki/Per_capita_income" title="Per
capita income">per capita income</a>. More than $1 trillion is invested
worldwide in the city. In 2010, the GDP <a href="/wiki/Per_capita" title="Per
capita">per capita</a> reached $49,600, which ranks ninth in the world. <a
href="/wiki/Taxation_in_the_United_Arab_Emirates" title="Taxation in the United
Arab Emirates">Taxation in Abu Dhabi</a>, as in the rest of the UAE, is nil for
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a resident or a non-bank, non-oil company. Abu Dhabi is also planning many
future projects sharing with the <a class="mw-redirect"
href="/wiki/Cooperation_Council_for_the_Arab_States_of_the_Gulf"
title="Cooperation Council for the Arab States of the Gulf">Cooperation Council
for the Arab States of the Gulf</a> (GCC) and taking 29% of all the GCC future
plannings. The UAE has a fast-growing economy: in 2006 the <a
href="/wiki/Per capita income" title="Per capita income">per capita income</a>
grew by 9%, providing a GDP per capita of $49,700 and ranking third in the world
at <a href="/wiki/Purchasing_power_parity" title="Purchasing power
parity">purchasing power parity</a>. Abu Dhabi's <a
href="/wiki/Sovereign wealth fund" title="Sovereign wealth fund">sovereign
wealth fund</a>, the <a href="/wiki/Abu_Dhabi_Investment_Authority" title="Abu
Dhabi Investment Authority">Abu Dhabi Investment Authority</a> (ADIA), currently
estimated at $875 billion, is the world's wealthiest sovereign fund in terms of
total asset value. <sup class="reference" id="cite_ref-adia_61-0"><a
href="#cite_note-adia-61">[60]</a></sup> <a href="/wiki/Etihad_Airways"
title="Etihad Airways">Etihad Airways</a> maintains its headquarters in Abu
Dhabi. class="reference" id="cite_ref-62"><a</pre>
href="#cite_note-62">[61]</a></sup>
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86%D8%A7_%D9%85%D9%88%D9%84_%D9%84%D9%84%D8%AA%D8%B3%D9%88%D9%82_-_panoramio.jpg
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- %D9%85%D8%A7%D8%B1%D9%8A%D9%86%D8%A7 %D9%85%D9%88%D9%84 %D9%84%D9%84%D8%AA%D8%
B3%D9%88%D9%82_-_panoramio.jpg"
srcset="//upload.wikimedia.org/wikipedia/commons/thumb/6/64/Abu_Dhabi_-_Marina S
hopping_Mall_-_%D8%A3%D8%A8%D9%88_%D8%B8%D8%A8%D9%8A_-_%D9%85%D8%A7%D8%B1%D9%8A%
D9%86%D8%A7 %D9%85%D9%88%D9%84 %D9%84%D9%84%D8%AA%D8%B3%D9%88%D9%82 - panoramio.
jpg/330px-Abu_Dhabi_-_Marina_Shopping_Mall_-_%D8%A3%D8%A8%D9%88_%D8%B8%D8%A8%D9%
8A - %D9%85%D8%A7%D8%B1%D9%8A%D9%86%D8%A7 %D9%85%D9%88%D9%84 %D9%84%D9%84%D8%AA%
D8%B3%D9%88%D9%82_-_panoramio.jpg 1.5x,
//upload.wikimedia.org/wikipedia/commons/thumb/6/64/Abu_Dhabi_-_Marina_Shopping_
Mall_-_%D8%A3%D8%A8%D9%88_%D8%B8%D8%A8%D9%8A_-_%D9%85%D8%A7%D8%B1%D9%8A%D9%86%D8
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x-Abu Dhabi - Marina Shopping Mall - %D8%A3%D8%A8%D9%88 %D8%B8%D8%A8%D9%8A - %D9
\%85\%D8\%A7\%D8\%B1\%D9\%8A\%D9\%86\%D8\%A7\_\%D9\%85\%D9\%88\%D9\%84\_\%D9\%84\%D9\%84\%D8\%AA\%D8\%B3\%D9
%88%D9%82_-_panoramio.jpg 2x" width="220"/></a> <div class="thumbcaption"><div
class="magnify"><a class="internal" href="/wiki/File:Abu_Dhabi_-_Marina_Shopping</pre>
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8%A7_%D9%85%D9%88%D9%84_%D9%84%D9%84%D8%AA%D8%B3%D9%88%D9%82_-_panoramio.jpg"
title="Enlarge"></a></div><a href="/wiki/Marina Mall, Abu Dhabi" title="Marina
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Mall, Abu Dhabi">Marina Shopping Mall, one of the largest shopping malls in the city</div></div>

Abu Dhabi's government is looking to expand revenue from oil and gas production to tourism and other things that would attract different types of people. This goal is seen in the amount of attention Abu Dhabi is giving its International Airport. The airport experienced a 30%+ growth in passenger usage in 2009. sup class="reference" id="cite ref-forbescustom 63-0"><a</pre> href="#cite_note-forbescustom-63">[62]</sup> This idea of diversifying the economy is also seen in the Abu Dhabi Economic Vision 2030^{[63]} planned by the Abu Dhabi Urban Planning Council. In this plan, Abu Dhabi's economy will be sustainable and not dependent on any single source of revenue. More specifically the non-oil portion of income is planned to be increased from about 40% to about 70%. < sup class="reference" id="cite ref-adia 61-1" > < a href="#cite noteadia-61">[60]</sup> As of July 2019, Abu Dhabi allocated \$163 million to finance global entertainment partners as part of its plan to diversify the economy and wean it off oil.^{[64]}

Many Hollywood and other national film production teams have used parts
of the UAE as filming locations. Neighboring Dubai gets a lot of attention, but
in recent years Abu Dhabi has become a popular destination. The Etihad Towers and <a
class="mw-redirect" href="/wiki/Emirates_Palace_Hotel" title="Emirates Palace
Hotel">Emirates Palace Hotel were some of the city's landmarks used as
filming locations for the movie <i>Furious 7</i>, in which cars rush through the
building and smashed through the windows of the towers.<sup class="reference"
id="cite_ref-66">[65]</sup>

In 2018, Abu Dhabi launched Ghadan 21, a string of initiatives to
diversify the economy. The total injection is AED 50 billion.<sup
class="reference" id="cite_ref-67">[66]</sup>
There are four main areas these initiatives must fall under business and
investment, society, knowledge and innovation and lifestyle. The first phase
includes over 50 initiatives that reflect the priorities of citizens, residents
and investors.<sup class="reference" id="cite_ref-68">[67]</sup>

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<h2>Utility services[edit]</h2>

<div class="hatnote navigation-not-searchable" role="note">See also: <a
href="/wiki/Water_supply_and_sanitation_in_Abu_Dhabi" title="Water supply and
sanitation in Abu Dhabi">Water supply and sanitation in Abu Dhabi</div>
The desalinated water supply and power production are managed by the Abu
Dhabi Water and Electricity Authority (ADWEA). As of 2006<sup class="plainlinks" noexcerpt noprint asof-tag update" style="display:none;"><a class="external text" href="https://en.wikipedia.org/w/index.php?title=Abu_Dhabi&action=edit</pre>

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">[update]</a></sup>, it supplied 560.2 MiGD (million <a class="mw-redirect"
href="/wiki/Imperial_gallon" title="Imperial gallon">imperial gallons</a> per
day) of water, <sup class="reference" id="cite_ref-69"><a
href="#cite_note-69">[68]</a></sup> while the water demand for 2005-06 was
estimated to be 511 MiGD. <sup class="reference" id="cite ref-70" ><a
href="#cite note-70">[69] </a> </sup> The Environment Agency of Abu Dhabi (EAD)
states that groundwater is the most significant source of water, as well as
desalinated potable water, and treated sewage effluent. At 40.6 MiGD, the Umm Al
Nar storage is the largest water source for Abu Dhabi, followed by the rivers
Shuweihat and Taweelah. <sup class="reference" id="cite_ref-71" ><a
href="#cite note-71">[70]</a></sup> With falling groundwater level and rising
population density, Abu Dhabi faces a severely acute water shortage.
On average each Abu Dhabi resident uses 550 litres (120 imp gal; 150 US gal) of
water per day. <sup class="reference" id="cite_ref-72" ><a
href="#cite_note-72">[71]</a></sup>
Abu Dhabi daily produces 1,532 <a href="/wiki/Tonne" title="Tonne">tonnes</a> of
solid wastes which are dumped at three landfill sites by the Abu Dhabi
Municipality. <sup class="reference" id="cite_ref-73" ><a
href="#cite_note-73">[72]</a></sup><sup class="reference" id="cite_ref-
soe.ae 74-0"><a href="#cite note-soe.ae-74">[73]</a></sup> The daily domestic
wastewater production is 330 MiGD and industrial waste water is 40 MiGD. A large
portion of the sewerage flows as waste into streams, and separation plants. < sup
class="reference" id="cite_ref-soe.ae_74-1"><a href="#cite_note-
soe.ae-74">[73]</a></sup>
The city's per capita electricity consumption is about 41,000 kWh and the
total supplied is 8,367 MW as of 2007<sup class="plainlinks noexcerpt noprint
asof-tag update" style="display:none;"><a class="external text" href="https://en
.wikipedia.org/w/index.php?title=Abu Dhabi&action=edit">[update]</a></sup>.<
sup class="reference" id="cite_ref-75"><a href="#cite_note-75">[74]</a></sup>
The distribution of electricity is carried out by companies run by SCIPCO Power
and APC Energy. As part of UAE's Energy Strategy 2050 to reduce the carbon
emission of power generation by 70%, Noor Abu Dhabi solar park project which is
the largest solar project in the world was completed on July 2, 2019. < sup
class="reference" id="cite_ref-76"><a href="#cite_note-76">[75] </a></sup><sup
class="reference" id="cite ref-77"><a href="#cite note-77">[76] </a></sup><sup
class="reference" id="cite ref-78"><a href="#cite note-78">[77] </a></sup>
The Abu Dhabi Fire Service runs 13 fire stations that attend about 2,000 fire
and rescue calls per year.
State-owned <a href="/wiki/Etisalat" title="Etisalat">Etisalat</a> and
private <a class="mw-redirect"</pre>
href="/wiki/Emirates_Integrated_Telecommunications_Company" title="Emirates
Integrated Telecommunications Company">du</a> communication companies provide
telephone and cell phone service to the city. Cellular coverage is extensive,
and both GSM and CDMA (from Etisalat and Du) services are available. <a
href="/wiki/Etisalat" title="Etisalat">Etisalat</a>, the government-owned
telecommunications provider, held a virtual monopoly over telecommunication
services in Abu Dhabi prior to the establishment of other, smaller
telecommunications companies such as Emirates Integrated Telecommunications
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Company (EITC - better known as <a class="mw-redirect"
href="/wiki/Emirates_Integrated_Telecommunications_Company" title="Emirates
Integrated Telecommunications Company">Du</a>) in 2006. The Internet was
introduced into Abu Dhabi in 1995. The current network is supported by a <a
href="/wiki/Bandwidth (computing)" title="Bandwidth (computing)">bandwidth</a>
of 6 <a href="/wiki/Gigabyte" title="Gigabyte">GB</a>, with 50,000 <a
href="/wiki/Dial-up Internet access" title="Dial-up Internet access">dialup</a>
and 150,000 <a class="mw-redirect" href="/wiki/Broadband_Internet_access"
title="Broadband Internet access">broadband</a> <a
href="/wiki/Computer_port_(hardware)" title="Computer port
(hardware)">ports</a>.
Etisalat announced implementing a fiber-to-the-home (FTTH) network in Abu
Dhabi during the third quarter of 2009 to make the emirate the world's first
city to have such a network. < sup class="reference" id="cite ref-79" > < a
href="#cite_note-79">[78]</a></sup>
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habi06.JPG/300px-AbuDhabi06.JPG 1.5x,
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Beach Rotana Abu Dhabi - beach. JPG 1.5x,
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height="852" data-file-width="1280" decoding="async" height="133"
src="//upload.wikimedia.org/wikipedia/commons/thumb/f/f4/Evening_park_-
_panoramio_%281%29.jpg/200px-Evening_park_-_panoramio_%281%29.jpg"
srcset="//upload.wikimedia.org/wikipedia/commons/thumb/f/f4/Evening_park_-
_panoramio_%281%29.jpg/300px-Evening_park_-_panoramio_%281%29.jpg 1.5x,
//upload.wikimedia.org/wikipedia/commons/thumb/f/f4/Evening park -
panoramio %281%29.jpg/400px-Evening park - panoramio %281%29.jpg 2x"
width="200"/></a></div><div class="thumbcaption">A public
park</div></div></div></div>
Abu Dhabi in the 1970s was planned for a predicted topmost population of
600,000. Following the urban planning ideals of the time period, the city has
high-density tower blocks and wide grid-pattern roads. < sup class="reference"
id="cite_ref-80"><a href="#cite_note-80">[79]</a></sup>
The population density is at its apex on the most northerly part of the island.
At this point, the main streets have a large amount of 20- to 30-story towers.
These towers are in a rectangular pattern, and inside is an ordinary grid
pattern of roads with low rise buildings such as 2-story villas or 6-story low-
rise buildings.
Due to this planning, a modern city with tall offices, apartment
buildings, broad boulevards, and busy shops is present. Principal thoroughfares
are the Corniche, Airport Road, Sheikh Zayed Street, Hamdan Street, and Khalifa
Street. Abu Dhabi is known in the region for its greenery; the former desert
strip today includes numerous parks and gardens. The design of the inner city
roads and main roads are quite organized. Starting from the Corniche, all
horizontal streets are oddly numbered, while all vertical streets are evenly
numbered. Thus, the Corniche is Street No. 1, Khalifa Street is Street No. 3,
Hamdan Street is Street No. 5, Electra Street is Street No. 7 and so on.
Conversely, <a href="/wiki/Salam Street" title="Salam Street">Salam Street</a>
is St No. 8. <sup class="reference" id="cite_ref-81"><a
href="#cite_note-81">[80]</a></sup>
Mail is generally delivered to post-office boxes only; however, there is
door-to-door delivery for commercial organizations.
There are many parks throughout the city. Entrance is usually free for children,
however, there is often an entrance fee for adults. The Corniche, the city's
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seaside promenade, is about 10 kilometres (6.2 mi) in length, with gardens,
playgrounds, and a BMX/skateboard ring.<sup class="reference"
id="cite_ref-82"><a href="#cite_note-82">[81]</a></sup>
In 2007 the <a href="/wiki/Abu_Dhabi_Urban_Planning_Council" title="Abu
Dhabi Urban Planning Council">Abu Dhabi Urban Planning Council</a> (UPC) was
established, which is the agency responsible for the future of Abu Dhabi's urban
environments and the expert authority behind the visionary Plan Abu Dhabi 2030
Urban Structure Framework Plan that was published in September 2007. < sup
class="reference" id="cite ref-autogenerated1 45-1"><a href="#cite note-
autogenerated1-45">[44]</a></sup> The UPC is also working on similar plans for
the regions of Al-Ain and Al-Gharbia.
Because of the rapid development of Abu Dhabi, a number of challenges to
the city's urban organization have developed, among them:
Today, the city's population far surpasses the original estimated
maximum population when it was designed. This causes traffic congestion, a
shortage of car parking spaces, and overcrowding.
Although there is an addressing system for the city, it is not widely used,
causing problems in describing building locations. Directions must often be
given based on nearby landmarks.
However, there is a new naming system under the name of Onwani which is
overhauling the entire addressing system of the entire Abu Dhabi Emirate. Its
phases have already been implemented and are a success. The addressing system is
up to international standards
In 2018, Abu Dhabi was ranked the safest city in the world for the second
year running by the statistical analysis website Numbeo. <sup class="reference"
id="cite_ref-83"><a href="#cite_note-83">[82]</a></sup>
<h2><span class="mw-headline" id="Human rights">Human rights</span><span
class="mw-editsection"><span class="mw-editsection-bracket">[</span><a
href="/w/index.php?title=Abu_Dhabi&action=edit&section=23" title="Edit
section: Human rights">edit</a><span class="mw-editsection-
bracket">]</span></span></h2>
<div class="hatnote navigation-not-searchable" role="note">Main article: <a</pre>
class="mw-redirect" href="/wiki/Human rights in the UAE" title="Human rights in
the UAE">Human rights in the UAE</a></div>
Human rights organisations have heavily criticized violations of human rights
in Abu Dhabi. As with other parts of the UAE, foreign workers are not given
proper treatment<sup class="noprint Inline-Template Template-Fact" style="white-
space:nowrap;">[<i><a href="/wiki/Wikipedia:Citation_needed"</pre>
title="Wikipedia:Citation needed"><span title="This claim needs references to
reliable sources. (August 2017)">citation needed</span></a></i>]</sup> and many
companies (both government and private) have yet to improve things. < sup
class="reference" id="cite_ref-84"><a href="#cite_note-84">[83]</a></sup> In
April 2009 a videotape of <a href="/wiki/Torture" title="Torture">torture</a>
smuggled out of the UAE showed businessman <a
href="/wiki/Issa_bin_Zayed_Al_Nahyan" title="Issa bin Zayed Al Nahyan">Issa bin
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Zayed Al Nahyan torturing a man and running him over repeatedly with an SUV.

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In addition to this, Issa was alleged to have ill-treated several other men,
mostly foreign nationals.<sup class="reference" id="cite ref-85"><a
href="#cite_note-85">[84]</a></sup>
<h2><span class="mw-headline" id="Demographics">Demographics</span><span
class="mw-editsection"><span class="mw-editsection-bracket">[</span><a
href="/w/index.php?title=Abu Dhabi&action=edit&section=24" title="Edit
section: Demographics">edit</a><span class="mw-editsection-
bracket">]</span></span></h2>
<div class="thumb tleft"><div class="thumbinner" style="width:222px;"><a</pre>
class="image" href="/wiki/File:The Corniche as seen from the Marina Mall, Abu Dh
abi, UAE.JPG"><img alt="" class="thumbimage" data-file-height="3456" data-file-
width="4608" decoding="async" height="165" src="//upload.wikimedia.org/wikipedia
/commons/thumb/d/d3/The Corniche as seen from the Marina Mall%2C Abu Dhabi%2C UA
E.JPG/220px-The_Corniche_as_seen_from_the_Marina_Mall%2C_Abu_Dhabi%2C_UAE.JPG" s
rcset="//upload.wikimedia.org/wikipedia/commons/thumb/d/d3/The_Corniche_as_seen_
from_the_Marina_Mall%2C_Abu_Dhabi%2C_UAE.JPG/330px-
The Corniche as seen from the Marina Mall%2C Abu Dhabi%2C UAE.JPG 1.5x, //upload
.wikimedia.org/wikipedia/commons/thumb/d/d3/The_Corniche_as_seen_from_the_Marina
Mall%2C Abu Dhabi%2C UAE.JPG/440px-
The_Corniche_as_seen_from_the_Marina_Mall%2C_Abu_Dhabi%2C_UAE.JPG 2x"
width="220"/></a> <div class="thumbcaption"><div class="magnify"><a
class="internal"
href="/wiki/File:The_Corniche_as_seen_from_the_Marina_Mall,_Abu_Dhabi,_UAE.JPG"
title="Enlarge"></a></div><a href="/wiki/Corniche_(Abu_Dhabi)" title="Corniche
(Abu Dhabi)">The Corniche</a> as seen from the Marina Mall</div></div>
O;float:right;clear:right;margin:0.5em 0 1em 0.5em;"><th
class="navbox-title" colspan="3" style="padding:0.25em">Historical
population<th style="border-bottom:1px solid"
black; padding: 1px; width: 3em">Year<th style="border-bottom: 1px solid
black;padding:1px 2px;text-align:right"><abbr</pre>
title="Population">Pop.</abbr><th style="border-bottom:1px solid
black;padding:1px;text-align:right"><abbr title="Percent"</pre>
change">±%</abbr>
196025,000<td style="text-
align:right;padding:1px">-
                           <th style="text-
align:center;padding:1px">1965<td style="text-
align:right;padding:1px">50,000<td style="text-
align:right;padding:1px">+100.0%<th style="text-
align:center;padding:1px">1969<td style="text-
align:right;padding:1px">46,400<td style="text-
align:right;padding:1px">-7.2%style="text-
align:center;padding:1px">1975<td style="text-
align:right;padding:1px">127,763<td style="text-
align:right;padding:1px">+175.4%<th style="text-
align:center;padding:1px;border-bottom:1px solid #bbbbbb">1980<td
style="text-align:right;padding:1px;border-bottom:1px solid
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#bbbbbb">243,257<td style="text-align:right;padding:1px;border-bottom:1px
solid #bbbbbb">+90.4%<th style="text-
align:center; padding:1px">1985<td style="text-
align:right;padding:1px">283,361<td style="text-
align:right;padding:1px">+16.5%<th style="text-
align:center;padding:1px">1995<td style="text-
align:right;padding:1px">398,695<td style="text-
align:right;padding:1px">+40.7%<th style="text-
align:center;padding:1px">2003<td style="text-
align:right;padding:1px">552,000<td style="text-
align:right;padding:1px">+38.5%style="text-
align:center;padding:1px">2009<td style="text-
align:right;padding:1px">896,751<td style="text-
align:right;padding:1px">+62.5%<th style="text-
align:center;padding:1px;border-bottom:1px solid #bbbbbb">2013<td
style="text-align:right;padding:1px;border-bottom:1px solid
#bbbbbb">921,000
solid #bbbbbb">+2.7%
20141,205,963<td style="text-
align:right;padding:1px">+30.9%<th style="text-
align:center;padding:1px">2018<td style="text-
align:right;padding:1px">1,807,000<td style="text-
align:right;padding:1px">+49.8%<td colspan="3" style="border-
top:1px solid black;font-size:85%;text-align:left">The town of Abu Dhabi first
conducted a census in 1968. All population figures in this table prior to 1968
are estimates obtained from populstat.info.<br/>Sources:<sup class="reference"
id="cite_ref-wg_2-1"><a href="#cite_note-wg-2">[2]</a></sup><sup
class="reference" id="cite_ref-86"><a href="#cite_note-86">[85]</a></sup><sup
class="reference" id="cite ref-87"><a
href="#cite_note-87">[86]</a></sup>
As the emirate covers 67,341 km<sup>2</sup> (26,001 sq mi), nearly 87% of the
UAE, the population density is 21.73/km<sup>2</sup> (56.3/sq mi), making it the
largest emirate in the UAE.<sup class="reference" id="cite_ref-88"><a
href="#cite_note-88">[87]</a></sup>
Abu Dhabi also ranks as the <a
href="/wiki/List_of_most_expensive_cities_for_expatriate_employees" title="List
of most expensive cities for expatriate employees">67th most expensive city in
the world</a> and the second-most in the region behind <a href="/wiki/Dubai"
title="Dubai">Dubai</a>.<sup class="reference" id="cite_ref-89"><a
href="#cite_note-89">[88]</a></sup>
As of 2014<sup class="plainlinks noexcerpt noprint asof-tag update"
style="display:none;"><a class="external text" href="https://en.wikipedia.org/w/
index.php?title=Abu Dhabi&action=edit">[update]</a>></sup>, 477,000 of
2,650,000 people living in the emirate were UAE nationals. Approximately 80% of
the population were expatriates.<sup class="reference" id="cite_ref-90"><a
href="#cite note-90">[89]</a></sup> The median age in the emirate was about 30.1
years. The crude birth rate, as of 2005<sup class="plainlinks noexcerpt noprint
asof-tag update" style="display:none;"><a class="external text" href="https://en
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.wikipedia.org/w/index.php?title=Abu_Dhabi&action=edit">[update]</a></sup>,
was 13.6%, while the crude death rate was about 2%. < sup class="reference"
id="cite_ref-91"><a href="#cite_note-91">[90]</a></sup>
Article 7 of the UAE's Provisional Constitution declares <a
href="/wiki/Islam" title="Islam">Islam</a> the official <a
href="/wiki/State religion" title="State religion">state religion</a> of the
UAE. <sup class="reference" id="cite ref-92"><a
href="#cite note-92">[91]</a></sup> The government subsidises almost 95% of
mosques and employs all imams. A majority of mosques are <a href="/wiki/Maliki"
title="Maliki">Maliki</a> or <a class="mw-redirect" href="/wiki/Muwahhid"
title="Muwahhid">Muwahhid</a> oriented.<sup class="reference"
id="cite_ref-93"><a href="#cite_note-93">[92]</a></sup>
The majority of the inhabitants of Abu Dhabi are expatriate workers from <a
href="/wiki/Nepal" title="Nepal">Nepal</a>, <a href="/wiki/India"
title="India">India</a>, <a href="/wiki/Pakistan" title="Pakistan">Pakistan</a>,
<a href="/wiki/Eritrea" title="Eritrea">Eritrea</a>, <a href="/wiki/Ethiopia"</pre>
title="Ethiopia">Ethiopia</a>, <a href="/wiki/Somalia"
title="Somalia">Somalia</a>, <a href="/wiki/Bangladesh"
title="Bangladesh">Bangladesh</a>, <a href="/wiki/Sri_Lanka" title="Sri
Lanka">Sri Lanka</a>, <a href="/wiki/Philippines"
title="Philippines">Philippines</a>, the <a href="/wiki/United Kingdom"
title="United Kingdom">United Kingdom</a> and various countries from across the
Arab world. Some of these expatriates have been in the country for many decades
with only a few of them awarded nationality<sup class="reference"
id="cite_ref-94"><a href="#cite_note-94">[93]</a></sup> Consequently, English,
<a href="/wiki/Hindi" title="Hindi">Hindi</a>-<a href="/wiki/Urdu"
title="Urdu">Urdu</a> (<a href="/wiki/Hindustani_language" title="Hindustani
language">Hindustani</a>), <a href="/wiki/Malayalam"</pre>
title="Malayalam">Malayalam</a>, <a href="/wiki/Tamil language" title="Tamil
language">Tamil</a>, <a href="/wiki/Tulu_language" title="Tulu</pre>
language">Tulu</a>, <a href="/wiki/Somali_language" title="Somali</pre>
language">Somali</a>, <a href="/wiki/Tigrinya_language" title="Tigrinya</pre>
language">Tigrinya</a>, <a href="/wiki/Amharic" title="Amharic">Amharic</a> and
<a href="/wiki/Bengali_language" title="Bengali language">Bengali</a> are widely
spoken.<sup class="reference" id="cite ref-95"><a
href="#cite note-95">[94]</a></sup>
The native-born population is <a class="mw-redirect"</pre>
href="/wiki/Arabic_language" title="Arabic language">Arabic</a>-speaking <a
class="mw-redirect" href="/wiki/Arab_people" title="Arab people">Arabs</a> who
are part of a clan-based society. The Al Nahyan family, part of the al-Falah
branch of the Bani Yas clan, rules the emirate and has a central place in
society.<sup class="reference" id="cite_ref-96"><a</pre>
href="#cite note-96">[95] </a>> There are also Arabs who are from other
parts of the <a class="mw-redirect" href="/wiki/Arab World" title="Arab
World">Arab World</a>.
<div style="clear:both;"></div>
<h2><span class="mw-headline" id="Transportation">Transportation</span><span
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class="mw-editsection"><span class="mw-editsection-bracket">[</span><a
href="/w/index.php?title=Abu_Dhabi&action=edit&section=25" title="Edit
section: Transportation">edit</a><span class="mw-editsection-
bracket">]</span></span></h2>
<div class="thumb tright"><div class="thumbinner" style="width:222px;"><a</pre>
class="image" href="/wiki/File:Abu_Dhabi_International_Airport_-
Air Traffic Control Tower.jpg"><img alt="" class="thumbimage" data-file-
height="640" data-file-width="640" decoding="async" height="220" src="//upload.w
ikimedia.org/wikipedia/commons/thumb/3/3b/Abu_Dhabi_International_Airport_-
_Air_Traffic_Control_Tower.jpg/220px-Abu_Dhabi_International_Airport_-
_Air_Traffic_Control_Tower.jpg" srcset="//upload.wikimedia.org/wikipedia/commons
/thumb/3/3b/Abu_Dhabi_International_Airport_-
_Air_Traffic_Control_Tower.jpg/330px-Abu_Dhabi_International_Airport_-
_Air_Traffic_Control_Tower.jpg 1.5x, //upload.wikimedia.org/wikipedia/commons/th
umb/3/3b/Abu_Dhabi_International_Airport_-_Air_Traffic_Control_Tower.jpg/440px-
Abu Dhabi International Airport - Air Traffic Control Tower.jpg 2x"
width="220"/></a> <div class="thumbcaption"><div class="magnify"><a
class="internal" href="/wiki/File:Abu_Dhabi_International_Airport_-
_Air_Traffic_Control_Tower.jpg" title="Enlarge"></a></div>Air Traffic Control
Tower of <a href="/wiki/Abu Dhabi International Airport" title="Abu Dhabi
International Airport">Abu Dhabi International Airport</a></div></div>
<div class="thumb tright"><div class="thumbinner" style="width:222px;"><a</pre>
class="image" href="/wiki/File:13-08-06-abu-dhabi-airport-15.jpg"><img alt=""
class="thumbimage" data-file-height="2848" data-file-width="4288"
decoding="async" height="146"
src="//upload.wikimedia.org/wikipedia/commons/thumb/9/92/13-08-06-abu-dhabi-
airport-15.jpg/220px-13-08-06-abu-dhabi-airport-15.jpg"
srcset="//upload.wikimedia.org/wikipedia/commons/thumb/9/92/13-08-06-abu-dhabi-
airport-15.jpg/330px-13-08-06-abu-dhabi-airport-15.jpg 1.5x,
//upload.wikimedia.org/wikipedia/commons/thumb/9/92/13-08-06-abu-dhabi-
airport-15.jpg/440px-13-08-06-abu-dhabi-airport-15.jpg 2x" width="220"/></a>
<div class="thumbcaption"><div class="magnify"><a class="internal"</pre>
href="/wiki/File:13-08-06-abu-dhabi-airport-15.jpg"
title="Enlarge"></a></div>Entrance to Abu Dhabi International
Airport</div></div>
One of the busiest streets in Abu Dhabi is the Sheikh Zayed Bin Sultan
Street, also known as <a href="/wiki/Salam Street" title="Salam Street">Salam
Street</a>, which goes near Al Qurm Corniche.<sup class="reference"
id="cite_ref-TheNational_04-2019_26-2"><a href="#cite_note-
TheNational_04-2019-26">[26]</a></sup> Corniche is also the other main street in
Abu Dhabi, it overlooks the Arabian Gulf.
<h3><span class="mw-headline" id="Air">Air</span><span class="mw-
editsection"><span class="mw-editsection-bracket">[</span><a
href="/w/index.php?title=Abu_Dhabi&action=edit&section=26" title="Edit
section: Air">edit</a><span class="mw-editsection-bracket">]</span></span></h3>
<a href="/wiki/Abu_Dhabi_International_Airport" title="Abu Dhabi</p>
International Airport">Abu Dhabi International Airport</a> (AUH) is the city's
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main aviation hub and the second busiest airport in the UAE. Passenger numbers
at Abu Dhabi International Airport rose by 17.2 percent in 2015, with more than
23 million travelers passing through its terminals during that year. A 2nd
runway and new terminal was also built recently<sup class="reference"
id="cite ref-97"><a href="#cite note-97">[96]</a></sup>
<a href="/wiki/Al_Bateen_Executive_Airport" title="Al Bateen Executive">
Airport">Al Bateen Executive Airport</a> was the old international airport in
Abu Dhabi until the one above opened in 1982. Now it is being used by the
military and small commercial planes.
On June 30, 2019, the Department of Community Development (DCD) in Abu
Dhabi officially inaugurated a multi-faith prayer room at Abu Dhabi
International Airport. Located away from the main airport, the prayer room aims
at enhancing the country's "position as an international hub for tolerance". < sup
class="reference" id="cite_ref-98"><a href="#cite_note-98">[97]</a></sup>
<h3><span class="mw-headline" id="Public_transport">Public transport</span><span
class="mw-editsection"><span class="mw-editsection-bracket">[</span><a</pre>
href="/w/index.php?title=Abu_Dhabi&action=edit&section=27" title="Edit
section: Public transport">edit</a><span class="mw-editsection-
bracket">]</span></span></h3>
<div class="hatnote navigation-not-searchable" role="note">See also: <a</pre>
class="mw-redirect" href="/wiki/Abu Dhabi Bus service" title="Abu Dhabi Bus
service">Abu Dhabi Bus service</a></div>
<div class="thumb tright"><div class="thumbinner" style="width:222px;"><a</pre>
class="image" href="/wiki/File:Abu_Dhabi_Bus_56.JPG"><img alt=""</pre>
class="thumbimage" data-file-height="1536" data-file-width="2048"
decoding="async" height="165" src="//upload.wikimedia.org/wikipedia/commons/thum
b/6/67/Abu Dhabi Bus 56.JPG/220px-Abu Dhabi Bus 56.JPG" srcset="//upload.wikimed
ia.org/wikipedia/commons/thumb/6/67/Abu_Dhabi_Bus_56.JPG/330px-
Abu_Dhabi_Bus_56.JPG 1.5x,
//upload.wikimedia.org/wikipedia/commons/thumb/6/67/Abu Dhabi Bus 56.JPG/440px-
Abu Dhabi Bus 56.JPG 2x" width="220"/></a> <div class="thumbcaption"><div
class="magnify"><a class="internal" href="/wiki/File:Abu_Dhabi_Bus_56.JPG"
title="Enlarge"></a></div>City Bus Number 56</div></div>
Public transport systems in Abu Dhabi include the Abu Dhabi public buses,
taxis, ferries, and hydroplanes.<sup class="reference" id="cite_ref-99"><a
href="#cite note-99">[98]</a></sup>
Street taxis are easily recognized. They are either silver with a yellow roof
sign (newer taxis) or white and gold with a green roof sign (older taxis). All
the old taxis have been phased out. There are no old taxis available for
transportation anymore. <sup class="reference" id="cite_ref-100" > <a</pre>
href="#cite_note-100">[99]</a></sup>
The first town bus entered service in about 1969 but this was all part of
a very informal service. There are other inter-city buses departing the Abu
Dhabi central bus station; these inter-city buses are not only intra-emirate
buses, but also inter-emirate services. On 30 June 2008, the Department of
Transport began public bus service in Abu Dhabi with four routes. < sup
class="reference" id="cite_ref-101"><a href="#cite_note-101">[100]</a></sup>
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There are also public buses serving the airport. In an attempt to entice people to use the bus system, all routes were zero-fare until the end of 2008.^{[101]} The four routes, which operate between 6 am and midnight every day, run at a frequency of 10 to 20 minutes.^{[101]}

Within the first week of service, the bus network had seen high usage. Some of the buses, which have a maximum capacity of 45 passengers, only had room for standing left. Some bus drivers reported as many as 100 passengers on a bus at one time. sup class="reference" id="cite_ref-Bulge_103-0">[102]
Bulge-103">[102]
Due to the new, zero-fare bus service success, many taxi drivers were losing business. Taxi drivers have seen a considerable decrease in the demand for taxis while lines were forming for the buses.
sup class="reference" id="cite_ref-104">[103]
The service steadily expanded and by the end of 2008, 230 buses were in service. In 2009, the Department of Transport plans to have 21 bus routes in the city, operated by 820 buses. A total of 1,360 buses are expected to be in operation by 2010.
Sup class="reference" id="cite_ref-Bulge_103-1">[102]
Sup class="reference" id="cite_ref-Bulge_103-1">[102]

A massive expansion of public transport is anticipated within the
framework of the government's Surface Transport Master Plan 2030.<sup
class="reference" id="cite_ref-105">[104]</sup> The
expansion is expected to see 130 km (81 mi) of <a href="/wiki/Abu_Dhabi_Metro"
title="Abu Dhabi Metro">metro and 340 km (210 mi) of tramways and/or bus rapid
transit (BRT) routes.

<h3>Water transport[<a
href="/w/index.php?title=Abu_Dhabi&action=edit&section=28" title="Edit
section: Water transport">edit]</h3>

The Emirate has many ports. One is <a class="mw-redirect"
href="/wiki/Port_Zayed" title="Port Zayed">Port Zayed. The others are Musaffah Port and Khalifa Port, which opened in
2012.<sup class="reference" id="cite_ref-106"><a</pre>

href="#cite_note-106">[105]</sup>

They are owned by Abu Dhabi Ports Company and managed by Abu Dhabi Terminals.^{[106]}

A couple of ferries are operated by the government.^{[107]}

<h2>Culture<span class="mw-</pre>

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editsection"><span class="mw-editsection-bracket">[</span><a
href="/w/index.php?title=Abu_Dhabi&action=edit&section=29" title="Edit
section: Culture">edit</a><span class="mw-editsection-
bracket">]</span></h2>
<div class="hatnote navigation-not-searchable" role="note">See also: <a</pre>
class="mw-redirect" href="/wiki/Cultural_Policy_in_Abu_Dhabi" title="Cultural
Policy in Abu Dhabi">Cultural Policy in Abu Dhabi</a></div>
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/wikipedia/commons/thumb/5/5b/Louvre Abu_Dhabi%2C_plaza_%28from_balcony%29.jpg/3
30px-Louvre_Abu_Dhabi%2C_plaza_%28from_balcony%29.jpg 1.5x, //upload.wikimedia.o
rg/wikipedia/commons/thumb/5/5b/Louvre_Abu_Dhabi%2C_plaza_%28from_balcony%29.jpg
/440px-Louvre_Abu_Dhabi%2C_plaza_%28from_balcony%29.jpg 2x" width="220"/></a>
<div class="thumbcaption"><div class="magnify"><a class="internal"</pre>
href="/wiki/File:Louvre_Abu_Dhabi,_plaza_(from_balcony).jpg"
title="Enlarge"></a></div>Inside the <a href="/wiki/Louvre Abu Dhabi"
title="Louvre Abu Dhabi">Louvre Abu Dhabi</a>, the <a
href="/wiki/Arabian Peninsula" title="Arabian Peninsula">Arabian Peninsula</a>'s
largest art museum</div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></di>
Abu Dhabi has a diverse and multicultural society.<sup class="reference"</p>
id="cite_ref-migrationinformation_109-0"><a href="#cite_note-
migrationinformation-109">[108]</a></sup> The city's cultural imprint as a
small, ethnically homogeneous <a href="/wiki/Pearl hunting" title="Pearl
hunting">pearling</a> community was changed with the arrival of other <a
href="/wiki/Ethnic_group" title="Ethnic group">ethnic groups</a> and
nationals-first by the <a href="/wiki/Iranian_peoples" title="Iranian
peoples">Iranians</a> in the early 1900s, and later by various Asian and
European ethnicities in the 1950s and 60s. Abu Dhabi has been criticised for
perpetuating a class-based society, where <a class="mw-redirect"
href="/wiki/Migrant_workers_in_the_Gulf_region" title="Migrant workers in the
Gulf region">migrant workers</a> are in the <a href="/wiki/Social class"
title="Social class">lower classes</a>, and suffer abuse which "is endemic to
the system". <sup class="reference" id="cite ref-110"><a
href="#cite_note-110">[109]</a></sup> Major holidays in Abu Dhabi include <i><a
class="mw-redirect" href="/wiki/Eid_ul-Fitr" title="Eid ul-Fitr">Eid al
Fitr</a></i>, which marks the end of <i><a href="/wiki/Ramadan"
title="Ramadan">Ramadan</a></i>, Eid ul-Adha which marks the end of Hajj, and <a
href="/wiki/National Day (United Arab Emirates)" title="National Day (United
Arab Emirates)">National Day</a> (2 December), which marks the formation of the
United Arab Emirates. < sup class="reference" id="cite_ref-111" > < a
href="#cite_note-111">[110]</a></sup>
This unique <a class="mw-redirect" href="/wiki/Socioeconomic_development"</p>
title="Socioeconomic development">socioeconomic development</a> in the Persian
Gulf has meant that Abu Dhabi is generally more tolerant than its neighbors,
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including Saudi Arabia. sup class="reference" id="cite_ref-112" > <a</pre>
href="#cite note-112">[111] </a> </sup> Emiratis have been known for their
tolerance; <a href="/wiki/Christianity" title="Christianity">Christian</a>
churches, <a href="/wiki/Hindu_temple" title="Hindu temple">Hindu temples</a>,
and <a href="/wiki/Gurdwara" title="Gurdwara">Sikh gurdwaras</a> (with the first
synagogue commencing construction in 2020) can be found alongside mosques. The
cosmopolitan atmosphere is gradually growing and as a result, there are a
variety of Asian and Western schools, cultural centers and themed restaurants.
Abu Dhabi is home to a number of cultural institutions including the <a
href="/wiki/Abu_Dhabi_Cultural_Foundation" title="Abu Dhabi Cultural
Foundation">Cultural Foundation</a> and the National Theater. The Cultural
Foundation, while closed for reconstruction as of spring 2011, is home to the <a
href="/wiki/UAE_Public_Library_and_Cultural_Center" title="UAE Public Library
and Cultural Center">UAE Public Library and Cultural Center</a>.<sup
class="reference" id="cite_ref-113"><a href="#cite_note-113">[112]</a></sup>
Various cultural societies such as the Abu Dhabi Classical Music Society have a
strong and visible following in the city. The recently launched <a
href="/wiki/Emirates Foundation" title="Emirates Foundation">Emirates
Foundation</a> offers grants in support of the arts, as well as to advance
science and technology, education, environmental protection, and social
development. The International Prize for Arabic Fiction (IPAF) will be based in
Abu Dhabi. The city also stages hundreds of conferences and exhibitions each
year in its state-of-the-art venues, including the <a
href="/wiki/Abu_Dhabi_National_Exhibition_Centre" title="Abu Dhabi National
Exhibition Centre">Abu Dhabi National Exhibition Centre</a> (ADNEC) which is the
Persian Gulf's largest exhibition center and welcomes around 1.8 million
visitors every year. <sup class="reference" id="cite_ref-114"><a
href="#cite_note-114">[113]</a></sup>
<div class="thumb tright"><div class="thumbinner" style="width:222px;"><a</pre>
class="image" href="/wiki/File:Founders Memorial.jpg"><img alt=""
class="thumbimage" data-file-height="3024" data-file-width="3024"
decoding="async" height="220" src="//upload.wikimedia.org/wikipedia/commons/thum
b/6/65/Founders_Memorial.jpg/220px-Founders_Memorial.jpg" srcset="//upload.wikim
edia.org/wikipedia/commons/thumb/6/65/Founders Memorial.jpg/330px-
Founders Memorial.jpg 1.5x,
//upload.wikimedia.org/wikipedia/commons/thumb/6/65/Founders Memorial.jpg/440px-
Founders_Memorial.jpg 2x" width="220"/></a> <div class="thumbcaption"><div
class="magnify"><a class="internal" href="/wiki/File:Founders_Memorial.jpg"</pre>
title="Enlarge"></a></div><a href="/wiki/The_Founder%27s_Memorial" title="The
Founder's Memorial">The Founder's Memorial</a>, a monument and visitor center
dedicated to the memory of Sheikh <a href="/wiki/Zayed_bin_Sultan_Al_Nahyan"
title="Zayed bin Sultan Al Nahyan">Zayed bin Sultan Al
Nahyan</a></div></div>
The <a href="/wiki/Red_Bull_Air_Race_World_Championship" title="Red Bull Air_Race_World_Championship" title=
Race World Championship">Red Bull Air Race World Series</a> has been a
spectacular sporting staple for the city for many years, bringing tens of
thousands to the waterfront.<sup class="reference" id="cite_ref-115"><a
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href="#cite_note-115">[114]</a></sup> Another major event is the <a
class="external text" href="https://www.adipec.com/" rel="nofollow">Abu Dhabi
International Petroleum Exhibition and Conference (ADIPEC).</a>
The diversity of <a href="/wiki/Cuisine" title="Cuisine">cuisine</a> in
Abu Dhabi is a reflection of the cosmopolitan nature of society. Arab food is
very popular and is available everywhere in the city, from the small <a
href="/wiki/Shawarma" title="Shawarma">shawarma</a> to the upscale restaurants
in the city's many hotels. Fast food and <a class="mw-redirect"
href="/wiki/South Asian cuisine" title="South Asian cuisine">South Asian
cuisine</a> are also very popular and are widely available. The sale and
consumption of pork, though not illegal, is regulated and it is sold only to
non-<a class="mw-redirect" href="/wiki/Muslim" title="Muslim">Muslims</a> in
designated areas.<sup class="reference" id="cite_ref-pork_116-0"><a</pre>
href="#cite_note-pork-116">[115]</a></sup> Similarly, the sale of <a
href="/wiki/Alcoholic_drink" title="Alcoholic drink">alcoholic beverages</a> is
regulated. A liquor permit is required to purchase alcohol; however, alcohol,
although available in bars and restaurants within <a
href="/wiki/Star_(classification)" title="Star (classification)">four</a> or <a
href="/wiki/Star_(classification)" title="Star (classification)">five star</a>
hotels, is not sold as widely as in its more liberal neighbor Dubai. < sup
class="reference" id="cite_ref-alcohol_117-0"><a href="#cite_note-
alcohol-117">[116]</a></sup> <i><a href="/wiki/Hookah"
title="Hookah">Shisha</a></i> and <i><a href="/wiki/Coffee"
title="Coffee">qahwa</a></i> boutiques are also popular in Abu Dhabi.
Poetry in Abu Dhabi and the UAE is highly regarded and often is centric
around the themes of satire, religion, family, chivalry, and love. According to
an article from an Abu Dhabi tourism page, sheikhs, teachers, sailors and
princes make a large bulk of the poets within the UAE. A unique form of poetry
to the UAE was formed in the 8th century by Al Khalil bin Ahmed and it was
written in 16 metres (52 feet). Another Emirati poet, <a class="new"
href="/w/index.php?title=Ibn_Daher&action=edit&redlink=1" title="Ibn
Daher (page does not exist)">Ibn Daher</a> is from the 17th century. Daher is
important because he used Nabati poetry (AKA Bedouin poetry), poetry written in
the vernacular instead of the classical/religious Arabic. Other important poets
from the UAE are Mubarak Al Oqaili (1880-1954), Salem bin Ali al Owais
(1887-1959) and Abdulla bin Sulayem (1905-1976). These poets made headway in the
field of Classical Arabic poetry as opposed to the Nabati poetry of the 17th
century. <sup class="reference" id="cite_ref-118" >< a
href="#cite_note-118">[117]</a></sup>
Today in Abu Dhabi there is a group called the Abu Dhabi Cultural
Foundation that works to preserve the art and culture of the city. According to
an article from the English Pen Atlas Al Jawaher wal la'li was the first
manuscript to come out of the UAE. According to another article this book was
written in the 1990s and was banned in the city for some time for making
accusations about the ruling family.

sup class="reference" id="cite_ref-119"><a</pre>
href="#cite_note-119">[118]</a></sup>
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<h2>Education<span class="mw-

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section: Education">edit</a><span class="mw-editsection-
bracket">]</span></h2>
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Abu Dhabi</a></div>
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.org/wikipedia/commons/thumb/1/1b/Abu Dhabi_University_2013_03_13_%288582695329%
29.jpg/300px-Abu_Dhabi_University_2013_03_13_%288582695329%29.jpg 1.5x, //upload
.wikimedia.org/wikipedia/commons/thumb/1/1b/Abu Dhabi University 2013 03 13 %288
582695329%29.jpg/400px-Abu_Dhabi_University_2013_03_13_%288582695329%29.jpg 2x"
width="200"/></a></div><div class="thumbcaption"><a
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style="width:202px;max-width:202px"><div class="thumbimage"><a class="image"
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data-file-width="4032" decoding="async" height="150" src="//upload.wikimedia.org
/wikipedia/commons/thumb/1/1a/NYUAbuDhabiSaadiyat.jpg/200px-
NYUAbuDhabiSaadiyat.jpg" srcset="//upload.wikimedia.org/wikipedia/commons/thumb/
1/1a/NYUAbuDhabiSaadiyat.jpg/300px-NYUAbuDhabiSaadiyat.jpg 1.5x, //upload.wikime
dia.org/wikipedia/commons/thumb/1/1a/NYUAbuDhabiSaadiyat.jpg/400px-
NYUAbuDhabiSaadiyat.jpg 2x" width="200"/></a></div><div class="thumbcaption"><a
href="/wiki/New_York_University_Abu_Dhabi" title="New York_University_Abu_
Dhabi">New York University Abu Dhabi</a> campus on <a
href="/wiki/Saadiyat Island" title="Saadiyat Island">Saadiyat
Island</a></div></div></div>
Abu Dhabi is home to international and local private schools and
universities, including government-sponsored <a href="/wiki/New_York_University"
title="New York University">New York University</a>, <a
href="/wiki/Masdar_Institute_of_Science_and_Technology" title="Masdar Institute
of Science and Technology">Masdar Institute of Science and Technology</a>, <a
href="/wiki/New_York_Institute_of_Technology" title="New York Institute_of_
Technology">New York Institute of Technology</a>, <a
href="/wiki/Higher_Colleges_of_Technology" title="Higher Colleges of
Technology">Higher Colleges of Technology</a>, <a
href="/wiki/New_York_Film_Academy" title="New York Film Academy">New York Film
Academy</a>, <a class="mw-redirect" href="/wiki/Paris-
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Sorbonne University Abu Dhabi" title="Paris-Sorbonne University Abu

Dhabi">Paris-Sorbonne University Abu Dhabi and Abu Dhabi University">Abu Dhabi University. These boast several languages that make up the population of the city. For example, the international business school established a campus in February 2010, offering an Executive MBA and executive education courses. New York University">New York University opened a government-sponsored satellite campus in Abu Dhabi in September 2010.^{[119]}

All schools in the emirate are under the authority of the <a class="mwredirect" href="/wiki/Abu_Dhabi_Education_Council" title="Abu Dhabi Education
Council">Abu Dhabi Education Council. This organization oversees and
administers public schools and licenses and inspects private schools. From 2009,
the Council has brought over thousands of licensed teachers from native English
speaking countries to support their New School Model Program in government
schools.

<a class="mw-redirect" href="/wiki/Abu_Dhabi_Education_Council"
title="Abu Dhabi Education Council">Abu Dhabi Education Council (ADEC)
maintains a comprehensive after-school program for interested and talented
jiujitsu students.<sup class="reference" id="cite_ref-121">[120]</sup> The Abu Dhabi Jiujitsu Schools Program
began in 2008 under the patronage of <a</pre>

href="/wiki/Mohammed_bin_Zayed_Al_Nahyan" title="Mohammed bin Zayed Al Nahyan">Mohammed bin Zayed Al Nahyan, a keen Brazilian jiujitsu competitor. The program launched in 14 schools for pupils in grades 6 and 7 and has since expanded to 42 government schools, with 81 Brazilian coaches brought in as instructors.^{[121]}

9 to 13-year-old students are taught Brazilian jiu-jitsu as part of the
curriculum. The plan is for up to 500 schools to be participating in the schoolJitsu program by 2015. The project was set up by special request of Sheikh
Mohammad bin Zayed Al Nahyan to the head coach of the Emirates jiujitsu team, <a
href="/wiki/Carlos_%22Carl%C3%A3o%22_Santos" title='Carlos "Carlão"
Santos'>Carlos "Carlão" Santos, now also the managing director of the
School-Jitsu Project.<sup class="reference" id="cite_ref-123">[122]</sup>

Every year in the season of admissions an exhibition is launched in Abu
Dhabi Exhibition Center under government supervision.<sup class="reference"
id="cite_ref-124">[123]</sup> Universities from
every corner of the world exhibit their career programs and scholarship
programs. Heriot-Watt University, University of Bolton, Cambridge University,
Oxford University, the Petroleum Institute, Khalifa University, and Abu Dhabi
University attend.

 $\protect{}In October 2019 Abu Dhabi announced the world's first graduate-level AI research institution, <math>\protect{<a}$

href="/wiki/Mohamed_bin_Zayed_University_of_Artificial_Intelligence" title="Mohamed bin Zayed University of Artificial Intelligence">Mohamed bin

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Zayed University of Artificial Intelligence (MBZUAI) </a>. It enables graduation
for students, businesses and governments to advance <a
href="/wiki/Artificial_intelligence" title="Artificial_intelligence">artificial_
intelligence</a>. The university began accepting applications for masters and
Ph.D. programmes a year before the classes, which are scheduled to begin in
September 2020. sup class="reference" id="cite_ref-125"><a</pre>
href="#cite note-125">[124]</a></sup>
<h2><span class="mw-headline" id="Sports">Sports</span><span class="mw-
editsection"><span class="mw-editsection-bracket">[</span><a
href="/w/index.php?title=Abu_Dhabi&action=edit&section=31" title="Edit
section: Sports">edit</a><span class="mw-editsection-
bracket">]</span></span></h2>
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b/a/a7/Abu_Dhabi_Zayed_Sports_City_Stadium_2.jpg/220px-
Abu_Dhabi_Zayed_Sports_City_Stadium_2.jpg" srcset="//upload.wikimedia.org/wikipe
dia/commons/thumb/a/a7/Abu_Dhabi_Zayed_Sports_City_Stadium_2.jpg/330px-
Abu_Dhabi_Zayed_Sports_City_Stadium_2.jpg 1.5x, //upload.wikimedia.org/wikipedia
/commons/thumb/a/a7/Abu Dhabi Zayed Sports City Stadium 2.jpg/440px-
Abu_Dhabi_Zayed_Sports_City_Stadium_2.jpg 2x" width="220"/></a> <div
class="thumbcaption"><div class="magnify"><a class="internal"</pre>
href="/wiki/File:Abu_Dhabi_Zayed_Sports_City_Stadium_2.jpg"
title="Enlarge"></a></div><a href="/wiki/Zayed Sports_City_Stadium" title="Zayed
Sports City Stadium">Abu Dhabi Zayed Sports City Stadium</a></div></div></div>
Abu Dhabi has four football stadiums: Al Jazeera Stadium, Al Wahda Stadium
and Sheikh Zayed Football Stadium (<a href="/wiki/Zayed_Sports_City"
title="Zayed Sports City">Zayed Sports City</a>) and Hazza Stadium. ZSC also
contains a tennis court, an ice rink, and a bowling alley. The <a
href="/wiki/Sheikh_Zayed_Cricket_Stadium" title="Sheikh Zayed Cricket
Stadium">Sheikh Zayed Cricket Stadium</a> is located on the outskirts of the
city and is currently home to the Pakistan Cricket Team. The stadium hosts at
least two series per year in the last 4 years. In 2014, the stadium also hosted
one leg of the Indian Premier League. It has also been considered as a venue for
the B Pakistan Super League too.
Football and cricket are very popular in the city. Many people play
football in parking lots near the Corniche because of the pleasant weather and
space. Cricket is also popular because of the South Asian ex-pats. There have
been many small competitions conducted between small-time football and cricket
teams.
Another location known as the Dome has been created for mainly football
events among others. The purpose behind the development of the Dome@Rawdhat was
to create a community football and sporting facility with indoor and outdoor
pitches in the heart of the city of Abu Dhabi.
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<div class="thumb tright"><div class="thumbinner" style="width:222px;"><a</pre>

class="image" href="/wiki/File:YasMarina2.jpeg"> <div class="thumbcaption"><div class="magnify"><a class="internal" href="/wiki/File:YasMarina2.jpeg"</pre> title="Enlarge"></div>Yas Marina Circuit</div></div> <h3>Abu Dhabi Grand Prix[edit]</h3> <div class="hatnote navigation-not-searchable" role="note">Main article: <a</pre> href="/wiki/Abu Dhabi Grand Prix" title="Abu Dhabi Grand Prix">Abu Dhabi Grand Prix</div> Since 2009, Abu Dhabi has hosted a <a href="/wiki/Formula One" title="Formula One">Formula One race every year in November or December at the Yas Marina Circuit. Motorsport is popular throughout the country and the circuit has also hosted other events such as the V8 Supercars series of Dubai. <h3>Abu Dhabi Grand Slam[edit]</h3> Abu Dhabi regularly hosts the <a href="/wiki/International_Judo_Federation"</p> title="International Judo Federation">International Judo Federation Abu Dhabi grand slam. Engendering some criticism, the International Judo Federation refused to allow the Israeli flag and the Israeli national anthem at the international games in 2017. Some referred to this action as anti-Semitic. < sup class="reference" id="cite_ref-126">[125]</sup>^{[126]} The ban on Israeli symbols was lifted in 2018 and Israeli flag and the national anthem was allowed to be displayed. <sup class="reference" id="cite_ref-</pre> IJF_128-0">[127]</sup> Israeli minister of sports Miri_Regev was also allowed to attend the event. sup class="reference" id="cite_ref-IJF_128-1"><a</pre> href="#cite_note-IJF-128">[127]</sup>

69

id="Special Olympics World Games Abu Dhabi 2019">Special Olympics World Games

<h3><span class="mw-headline"

Abu Dhabi 2019[edit]</h3>

<div class="hatnote navigation-not-searchable" role="note">Main article: <a
href="/wiki/2019_Special_Olympics_World_Summer_Games" title="2019 Special
Olympics World Summer Games">2019 Special Olympics World Summer Games</div>
In March 2019, Abu Dhabi hosted the first Special Olympics World Games in the
Middle East. The event took place from 14 to 21 March 2019 and featured more
than 7,500 athletes participating in 24 sporting disciplines. The official World
Games Flame of Hope was lit in Athens and flown to Abu Dhabi, where it then
embarked on the torch run, visiting all seven emirates of the UAE.<sup
class="reference" id="cite_ref-129">[128]

<h2>Cinema and media[edit]</h2>

Since 2010, Abu Dhabi has become one of the major shooting spots for foreign films. Some of the films featuring Abu Dhabi are (in ascending order of release):

<i>The Kingdom</i> (2007)

<i>Sex and the City 2</i> (2010)^{[129]}

<i>Arrambam</i> (2013) <i>Furious 7</i> (2015)

<i><a href="/wiki/Star_Wars:_The_Force_Awakens" title="Star Wars: The Force
Awakens">Star Wars: The Force Awakens</i> (2015)

<i>Dishoom</i> (2016)
<i>War
Machine</i> (2017)

<i>Tiger Zinda
Hai</i> (2017)

<i>Race 3</i> (2018) <i>Six Underground</i> (2019)

<i>Saaho</i> (2019)
<h2>Twin towns and
cities[<a</pre>

href="/w/index.php?title=Abu_Dhabi&action=edit§ion=36" title="Edit
section: Twin towns and cities">edit]</h2>

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<div class="hatnote navigation-not-searchable" role="note">Main article: <a href</pre>
="/wiki/List_of_twin_towns_and_sister_cities_in_Asia#United_Arab_Emirates_.28UAE
.29" title="List of twin towns and sister cities in Asia">List of twin towns and
cities in United Arab Emirates</a></div>
Abu Dhabi is <a class="mw-redirect" href="/wiki/Town twinning" title="Town</p>
twinning">twinned</a> with:
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Flag_of_Palestine.svg.png" srcset="//upload.wikimedia.org/wikipedia/commons/thum
b/0/00/Flag_of_Palestine.svg/35px-Flag_of_Palestine.svg.png 1.5x,
//upload.wikimedia.org/wikipedia/commons/thumb/0/00/Flag of Palestine.svg/46px-
Flag_of_Palestine.svg.png 2x" width="23"/></a></span> <a href="/wiki/Bethlehem"
title="Bethlehem">Bethlehem</a>, <a href="/wiki/West_Bank" title="West
Bank">West Bank</a>, <a href="/wiki/State_of_Palestine" title="State of
Palestine">Palestine</a><sup class="reference" id="cite ref-
BethlehemTwinning 131-0"><a href="#cite note-
BethlehemTwinning-131">[130]</a></sup>
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Flag_of_Spain.svg.png 1.5x,
//upload.wikimedia.org/wikipedia/en/thumb/9/9a/Flag_of_Spain.svg/45px-
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Zayed Mosque

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their names? Experts reveal all"</a>. UAE Interact. 3 October 2007. Archived
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<i>World Population Review</i>. 12 May 2019.</cite><span class="Z3988" title="ct
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international relations of Minsk City Executive Committee. Archived from <a
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<a class="mw-redirect" href="/wiki/Swaihan" title="Swaihan">Swaihan</a>
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Central Capital District">Abu Dhabi Region</a>
<a href="/wiki/Al_Dhafra,_Abu_Dhabi" title="Al Dhafra, Abu Dhabi">Adh-</a>
Dhafrah (<i>Gharbiyyah</i>, Western) Region</a>
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<a href="/wiki/Khalifa bin Zayed Al Nahyan" title="Khalifa bin Zayed Al</a>
Nahyan">Khalifa bin Zayed Al Nahyan</a> <small>(<a class="mw-redirect"
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Island</a>
<a class="mw-redirect" href="/wiki/Central_Market_Project" title="Central</pre>
Market Project">Central Market Project</a>
<a href="/wiki/Khalifa_Port" title="Khalifa Port">Khalifa Port</a>
<a class="mw-redirect" href="/wiki/Kizad" title="Kizad">Kizad</a>
<a href="/wiki/Masdar_City" title="Masdar City">Masdar City</a>
<a href="/wiki/Saadiyat_Island" title="Saadiyat Island">Saadiyat
Island</a>
<a href="/wiki/List_of_tallest_buildings_in_Abu_Dhabi" title="List of</pre>
tallest buildings in Abu Dhabi">Tallest buildings</a>
</div><a
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National Museum

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title="Timeline of Abu Dhabi (city)">Timeline of Abu Dhabi (city)</a>
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<a href="/wiki/Madrid" title="Madrid">Madrid</a>
<a href="/wiki/Rahim_Yar_Khan" title="Rahim Yar Khan">Rahim Yar</a>
Khan</a>
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transparent; border: none; -moz-box-shadow: none; -webkit-box-shadow: none; box-
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php?title=Template:Developments_in_Abu_Dhabi&action=edit"><abbr
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Dhabi">Guggenheim Abu Dhabi</a>
<a href="/wiki/Louvre_Abu_Dhabi" title="Louvre Abu Dhabi">Louvre Abu</a>
Dhabi</a>
<a href="/wiki/Zayed_National_Museum" title="Zayed National Museum">Zayed</a>
National Museum</a>
</div><th class="navbox-group" scope="row"
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Zayed</a>
<a href="/wiki/Salam_Street" title="Salam Street">Salam
Street</a>
</div><th class="navbox-group" scope="row"
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Island</a>
<a href="/wiki/Al Maryah Island" title="Al Maryah Island">Al Maryah
Island</a>
<a href="/wiki/Al_Reem_Island" title="Al Reem Island">Al Reem
Island</a>
<a href="/wiki/Saadiyat_Island" title="Saadiyat Island">Saadiyat
Island</a>
<a href="/wiki/Yas_Island" title="Yas Island">Yas Island</a>
</div>Other
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<a href="/wiki/Al Raha" title="Al Raha">Al Raha</a>
<a href="/wiki/Capital_Centre_(Abu_Dhabi)" title="Capital Centre (Abu</pre>
Dhabi)">Capital Centre</a>
<a class="mw-redirect" href="/wiki/Central_Market_Project" title="Central</pre>
Market Project">Central Market Project</a>
<a href="/wiki/Empire_Island_Tower,_Abu_Dhabi" title="Empire Island Tower,</pre>
Abu Dhabi">Empire Island Tower</a>
<a href="/wiki/Masdar_City" title="Masdar City">Masdar City</a>
<a href="/wiki/Shams_Abu_Dhabi" title="Shams Abu Dhabi">Shams Abu
Dhabi</a>
<a href="/wiki/Abu_Dhabi_Global_Market" title="Abu Dhabi Global Market">Abu
Dhabi Global Market</a>
</div><div><a
href="/wiki/List of tallest buildings in Abu Dhabi" title="List of tallest
buildings in Abu Dhabi">List of tallest buildings in Abu
Dhabi</a></div></div>
<div aria-labelledby="28px&amp;#124;border_&amp;#124;alt=United_Arab_Emirates&am</pre>
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this template">v</abbr></a><a
href="/wiki/Template_talk:UAE_cities" title="Template talk:UAE cities"><abbr
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this template">e</abbr></a></div><div id="28px&amp;#124;border &amp;#1
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8px-Flag of the United Arab Emirates.svg.png" srcset="//upload.wikimedia.org/wik
ipedia/commons/thumb/c/cb/Flag_of_the_United_Arab_Emirates.svg/42px-
Flag_of_the_United_Arab_Emirates.svg.png 1.5x, //upload.wikimedia.org/wikipedia/
commons/thumb/c/cb/Flag_of_the_United_Arab_Emirates.svg/56px-
Flag_of_the_United_Arab_Emirates.svg.png 2x" width="28"/></a></span> Major
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of Abu Dhabi">Abu Dhabi</a><td class="navbox-list navbox-odd hlist"
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<a href="/wiki/Al_Ain" title="Al Ain">Al Ain</a>
<a href="/wiki/Madinat_Zayed" title="Madinat Zayed">Madinat</a>
Zayed</a>
</div><a
href="/wiki/Emirate_of_Dubai" title="Emirate of Dubai">Dubai</a><td
class="navbox-list navbox-even hlist" style="text-align:left;border-left-
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style="padding:0em 0.25em">
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<a href="/wiki/Hatta, United Arab Emirates" title="Hatta, United Arab</pre>
Emirates">Hatta</a>
</div><a
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style="padding:0em 0.25em">
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<a href="/wiki/Dibba Al-Hisn" title="Dibba Al-Hisn">Dibba Al-Hisn</a>
<a href="/wiki/Kalba" title="Kalba">Kalba</a>
<a href="/wiki/Khor Fakkan" title="Khor Fakkan">Khor Fakkan</a>
<a href="/wiki/Sharjah" title="Sharjah">Sharjah</a>
</div><a
href="/wiki/Emirate_of_Ajman" title="Emirate of Ajman">Ajman</a><td
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style="padding:0em 0.25em">
<a href="/wiki/Ajman" title="Ajman">Ajman</a>
</div><a
href="/wiki/Umm_Al_Quwain" title="Umm Al Quwain">Umm Al Quwain</a><td
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Quwain</a>
</div><a
class="mw-redirect" href="/wiki/Ras_Al_Khaimah" title="Ras Al Khaimah">Ras Al
Khaimah</a><td class="navbox-list navbox-even hlist" style="text-
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style="padding:0em 0.25em">
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Fujairah</a>
<a href="/wiki/Fujairah_City" title="Fujairah City">Fujairah</a>
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href="/wiki/Algeria" title="Algeria">Algeria</a>
<b><a href="/wiki/Cairo" title="Cairo">Cairo</a></b>, <a href="/wiki/Egypt"</li>
title="Egypt">Egypt</a>
<b><a class="mw-redirect" href="/wiki/Djibouti_City" title="Djibouti</pre>
City">Djibouti</a></b>, <a href="/wiki/Djibouti"</pre>
title="Djibouti">Djibouti</a>
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<small>(proclaimed)</small><br/>><b><a href="/wiki/Tifariti"</pre>
title="Tifariti">Tifariti</a></b> <small>(de facto)</small>, <i><a
href="/wiki/Sahrawi_Arab_Democratic_Republic" title="Sahrawi Arab Democratic
Republic">Sahrawi Arab Democratic
Republic</a></i><sup>1</sup></div>
<div class="hlist hlist-separated"><o> href="/wiki/Hargeisa"
title="Hargeisa">Hargeisa</a></b>, <i><a href="/wiki/Somaliland"
title="Somaliland">Somaliland</a></i><sup>1</sup></div>
<b><a href="/wiki/Khartoum" title="Khartoum">Khartoum</a></b>, <a</pre>
href="/wiki/Sudan" title="Sudan">Sudan</a>
<b><a href="/wiki/Mogadishu" title="Mogadishu">Mogadishu</a></b>, <a</pre>
href="/wiki/Somalia" title="Somalia">Somalia</a>
<b><a href="/wiki/Moroni,_Comoros" title="Moroni, Comoros">Moroni</a></b>,
<a href="/wiki/Comoros" title="Comoros">Comoros</a>
<b><a href="/wiki/Nouakchott" title="Nouakchott">Nouakchott</a></b>, <a</pre>
href="/wiki/Mauritania" title="Mauritania">Mauritania</a>
<b><a href="/wiki/Rabat" title="Rabat">Rabat</a></b>, <a</pre>
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<b><a href="/wiki/Tripoli" title="Tripoli">Tripoli</a></b>, <a</pre>
href="/wiki/Libya" title="Libya">Libya</a>
<b><a href="/wiki/Tunis" title="Tunis">Tunis</a></b>, <a</pre>
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Emirates</a>
<b><a href="/wiki/Amman" title="Amman">Amman</a></b>, <a href="/wiki/Jordan"</pre>
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<b><a href="/wiki/Baghdad" title="Baghdad">Baghdad</a></b>, <a</p>
href="/wiki/Iraq" title="Iraq">Iraq</a>
<b><a href="/wiki/Beirut" title="Beirut">Beirut</a></b>, <a</pre>
href="/wiki/Lebanon" title="Lebanon">Lebanon</a>
<b><a href="/wiki/Damascus" title="Damascus">Damascus</a></b>, <a</pre>
href="/wiki/Syria" title="Syria">Syria</a>
<b><a href="/wiki/Doha" title="Doha">Doha</a></b>, <a href="/wiki/Qatar"</li>
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<small>(proclaimed)</small><br/><b><a href="/wiki/Ramallah"</pre>
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href="/wiki/State of Palestine" title="State of
Palestine">Palestine</a><sup>1</sup></div>
<b><a href="/wiki/Kuwait_City" title="Kuwait City">Kuwait City</a></b>, <a</pre>
href="/wiki/Kuwait" title="Kuwait">Kuwait</a>
<b><a href="/wiki/Manama" title="Manama">Manama</a></b>, <a
href="/wiki/Bahrain" title="Bahrain">Bahrain</a>
<b><a href="/wiki/Muscat" title="Muscat">Muscat</a></b>. <a
href="/wiki/Oman" title="Oman">Oman</a>
<b><a href="/wiki/Riyadh" title="Riyadh">Riyadh</a></b>, <a
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title="List of states with limited recognition">An unrecognised or partially-
recognised nation</a>
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on&action=edit"><abbr style=";;background:none transparent;border:none;-moz-
box-shadow:none;-webkit-box-shadow:none;box-shadow:none; padding:0;" title="Edit
this template">e</abbr></a></div><div id="Capitals_of_Asia"
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city">Capitals</a> of Asia</div><td class="navbox-abovebelow"
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href="/wiki/Dependent_territory" title="Dependent territory">Dependent
territories</a> and <a href="/wiki/List of states with limited recognition"
title="List of states with limited recognition">states with limited
recognition</a> are in <i>italics</i></div>class="navbox-list"
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href="/wiki/Russia" title="Russia">Russia</a>
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<b><a href="/wiki/Ashgabat" title="Ashgabat">Ashgabat</a></b>, <a
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<b><a href="/wiki/Bishkek" title="Bishkek">Bishkek</a></b>, <a</li>
href="/wiki/Kyrgyzstan" title="Kyrgyzstan">Kyrgyzstan</a>
<b><a href="/wiki/Dushanbe" title="Dushanbe">Dushanbe</a></b>, <a</pre>
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<b><a href="/wiki/Nur-Sultan" title="Nur-Sultan">Nur-Sultan</a></b>, <a</pre>
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<b><a href="/wiki/Tashkent" title="Tashkent">Tashkent</a></b>, <a</pre>
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(China)
<b><a href="/wiki/Macau" title="Macau">Macau</a></b> (China)
<b><a href="/wiki/Pyongyang" title="Pyongyang">Pyongyang</a></b>, <a</pre>
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<b><a href="/wiki/Seoul" title="Seoul">Seoul</a></b>, <a
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<b><a href="/wiki/Taipei" title="Taipei">Taipei</a></b>, <i><a</pre>
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<b><a href="/wiki/Tokyo" title="Tokyo">Tokyo</a></b>, <a href="/wiki/Japan"</li>
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<b><a href="/wiki/Ulaanbaatar" title="Ulaanbaatar">Ulaanbaatar</a></b>, <a
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estate<td class="navbox-list navbox-even" style="text-align:left;border-
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style="padding:0em 0.25em">
<a href="/wiki/Shams Abu_Dhabi" title="Shams Abu Dhabi">Shams Abu
Dhabi</a>
<a href="/wiki/Cityscape Abu Dhabi" title="Cityscape Abu Dhabi">Cityscape
Abu Dhabi</a>
</div><div
style="padding:0.1em 0; line-height:1.2em; ">Bridges and <br/>tunnels </div><td
class="navbox-list navbox-odd" style="text-align:left;border-left-
width:2px;border-left-style:solid;width:100%;padding:0px"><div
style="padding:0em 0.25em">
<a href="/wiki/Maqta" title="Maqta">Maqta</a>
<a href="/wiki/Mussafah" title="Mussafah">Mussafah</a>
<a class="mw-redirect" href="/wiki/Sheikh Zayed Bridge" title="Sheikh Zayed</pre>
Bridge">Sheikh Zayed Bridge</a>
</div><div></div><div></div>
class="navbox-list navbox-odd" colspan="2"
style="width:100%;padding:0px"><div style="padding:0em 0.25em"></div><table
class="nowraplinks mw-collapsible mw-collapsed navbox-subgroup" style="border-
spacing:0"><div
id="*_Economy_*_Trade_*_Commerce_*_Places" style="font-size:114%;margin:0 4em">
<a href="/wiki/Abu Dhabi#Economy" title="Abu Dhabi">Economy</a>
Trade
Commerce
<a href="/wiki/Abu_Dhabi#Places_to_see_in_Abu_Dhabi" title="Abu</pre>
Dhabi">Places</a>
</div><td class="navbox-list navbox-odd" colspan="2"
style="width:100%;padding:0px"><div style="padding:0em 0.25em"></div><table
class="nowraplinks navbox-subgroup" style="border-spacing:0"><th
class="navbox-group" scope="row" style="width:1%"><div style="padding:0.1em
0; line-height: 1.2em; ">Trade and <br/>commerce </div><td class="navbox-list"
navbox-odd" style="text-align:left;border-left-width:2px;border-left-
style:solid;width:100%;padding:0px"><div style="padding:0em 0.25em">
<a href="/wiki/Etisalat" title="Etisalat">Etisalat</a>
<a href="/wiki/Abu Dhabi TV" title="Abu Dhabi TV">Abu Dhabi TV</a>
```

```
<a href="/wiki/Abu_Dhabi_Grand_Prix" title="Abu_Dhabi Grand_Prix">Abu_Dhabi</a>
Grand Prix</a>
<a href="/wiki/Abu_Dhabi_National_Oil_Company" title="Abu Dhabi National Oil</a>
Company">Abu Dhabi National Oil Company</a>
</div><a
href="/wiki/List_of_shopping_malls_in_Abu_Dhabi" title="List of shopping malls
in Abu Dhabi">Shopping malls</a><td class="navbox-list navbox-even"
style="text-align:left;border-left-width:2px;border-left-
style:solid;width:100%;padding:0px"><div style="padding:0em 0.25em">
<a href="/wiki/Abu_Dhabi_Mall" title="Abu Dhabi Mall">Abu Dhabi
Mall</a>
<a href="/wiki/Al_Wahda_Mall" title="Al Wahda Mall">Al Wahda Mall</a>
<a href="/wiki/Dalma Mall" title="Dalma Mall">Dalma Mall</a>
<a href="/wiki/Khalidiyah Mall" title="Khalidiyah Mall">Khalidiyah</a>
Mall</a>
<a class="mw-redirect" href="/wiki/Marina Mall" title="Marina Mall">Marina
Mall</a>
</div><th class="navbox-group" scope="row"
style="width:1%">Places<td class="navbox-list navbox-odd" style="text-
align:left;border-left-width:2px;border-left-
style:solid;width:100%;padding:0px"><div style="padding:0em 0.25em">
<a href="/wiki/Louvre_Abu_Dhabi" title="Louvre Abu Dhabi">Louvre Abu
Dhabi</a>
</div><div></div><div>>
<td class="navbox-list navbox-odd" colspan="2"
style="width:100%;padding:0px"><div style="padding:0em 0.25em"></div><table
class="nowraplinks mw-collapsible mw-collapsed navbox-subgroup" style="border-
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id="Transport" style="font-size:114%; margin:0 4em"><a
href="/wiki/Abu_Dhabi#Transportation" title="Abu
Dhabi">Transport</a></div><td class="navbox-list navbox-odd"
colspan="2" style="width:100%;padding:0px"><div style="padding:0em
0.25em"></div><table class="nowraplinks navbox-subgroup" style="border-
spacing:0">
style="width:1%">Transport<td class="navbox-list navbox-odd" style="text-
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style:solid;width:100%;padding:0px"><div style="padding:0em 0.25em">
<a href="/wiki/Abu_Dhabi_bus_service" title="Abu Dhabi bus service">Abu</a>
Dhabi bus service</a>
<a href="/wiki/Abu_Dhabi_International_Airport" title="Abu Dhabi</pre>
International Airport">Abu Dhabi International Airport</a>
<a href="/wiki/Abra_(boat)" title="Abra (boat)">Abra</a>
<a href="/wiki/Abu_Dhabi_Metro" title="Abu Dhabi Metro">Abu Dhabi
Metro</a>
<a href="/wiki/Etihad_Airways" title="Etihad Airways">Etihad
Airways</a>
</div><a
class="new" href="/w/index.php?title=Abu_Dhabi_route_numbering_system&action
```

```
=edit& redlink=1" title="Abu Dhabi route numbering system (page does not
exist)">Routes</a><td class="navbox-list navbox-even" style="text-
align:left;border-left-width:2px;border-left-
style:solid;width:100%;padding:0px"><div style="padding:0em 0.25em">
<a href="/wiki/E 11 road (United Arab Emirates)" title="E 11 road</a>
(United Arab Emirates)">E 11</a>
</div><div></div><div>>
<td class="navbox-list navbox-odd" colspan="2"
style="width:100%;padding:0px"><div style="padding:0em 0.25em"></div><table
class="nowraplinks mw-collapsible mw-collapsed navbox-subgroup" style="border-
spacing:0"><div
id="Sister_cities" style="font-size:114%; margin:0 4em">Sister
cities</div><td class="navbox-list navbox-odd" colspan="2"
style="width:100%;padding:0px"><div style="padding:0em 0.25em">
<a href="/wiki/Dubai" title="Dubai">Dubai</a>
</div><div></div><td class="navbox-
abovebelow" colspan="2"><div>
<ii><iii><img alt="Category" data-file-height="31" data-file-width="36"
decoding="async" height="14" src="//upload.wikimedia.org/wikipedia/en/thumb/4/48
/Folder Hexagonal Icon.svg/16px-Folder Hexagonal Icon.svg.png" srcset="//upload.
wikimedia.org/wikipedia/en/thumb/4/48/Folder_Hexagonal_Icon.svg/24px-
Folder Hexagonal Icon.svg.png 1.5x,
//upload.wikimedia.org/wikipedia/en/thumb/4/48/Folder_Hexagonal_Icon.svg/32px-
Folder_Hexagonal_Icon.svg.png 2x" title="Category" width="16"/> <a
href="/wiki/Category:Abu_Dhabi" title="Category:Abu Dhabi">Category</a>
<img alt="Portal" data-file-height="28" data-file-width="32"</pre>
decoding="async" height="14"
src="//upload.wikimedia.org/wikipedia/en/thumb/f/fd/Portal-puzzle.svg/16px-
Portal-puzzle.svg.png"
srcset="//upload.wikimedia.org/wikipedia/en/thumb/f/fd/Portal-puzzle.svg/24px-
Portal-puzzle.svg.png 1.5x,
//upload.wikimedia.org/wikipedia/en/thumb/f/fd/Portal-puzzle.svg/32px-Portal-
puzzle.svg.png 2x" title="Portal" width="16"/> <a</pre>
href="/wiki/Portal:United_Arab_Emirates" title="Portal:United Arab
Emirates">United Arab Emirates portal</a>
<img alt="WikiProject" data-file-height="100" data-file-width="100"</pre>
decoding="async" height="16"
src="//upload.wikimedia.org/wikipedia/commons/thumb/3/37/People_icon.svg/16px-
People_icon.svg.png" srcset="//upload.wikimedia.org/wikipedia/commons/thumb/3/37
/People_icon.svg/24px-People_icon.svg.png 1.5x,
//upload.wikimedia.org/wikipedia/commons/thumb/3/37/People_icon.svg/32px-
People_icon.svg.png 2x" title="WikiProject" width="16"/> <a
href="/wiki/Wikipedia:WikiProject_Abu_Dhabi" title="Wikipedia:WikiProject Abu
Dhabi">WikiProject</a>
</div></div>
<div aria-labelledby="Authority_control_frameless_&amp;#124;text-top_&amp;#124;1</pre>
```

```
Opx & amp; #124; alt = Edit this at Wikidata & amp; #124; link = https & amp; #58; //www.wikid
ata.org/wiki/Q1519|Edit_this_at_Wikidata" class="navbox authority-
control" role="navigation" style="padding:3px"><table class="nowraplinks hlist
navbox-inner" style="border-
spacing:0;background:transparent;color:inherit"><th class="navbox-
group" id="Authority_control_frameless_|text-top_|10px_&#1
24; alt=Edit this at Wikidata & amp; #124; link=https& #58; //www.wikidata.org/wik
i/Q1519|Edit_this_at_Wikidata" scope="row" style="width:1%"><a
href="/wiki/Help:Authority control" title="Help:Authority control">Authority
control</a> <a href="https://www.wikidata.org/wiki/Q1519" title="Edit this at
Wikidata"><img alt="Edit this at Wikidata" data-file-height="20" data-file-
width="20" decoding="async" height="10"
src="//upload.wikimedia.org/wikipedia/en/thumb/8/8a/00js_UI_icon_edit-ltr-
progressive.svg/10px-00js_UI_icon_edit-ltr-progressive.svg.png"
srcset="//upload.wikimedia.org/wikipedia/en/thumb/8/8a/00js_UI_icon_edit-ltr-
progressive.svg/15px-00js_UI_icon_edit-ltr-progressive.svg.png 1.5x,
//upload.wikimedia.org/wikipedia/en/thumb/8/8a/00js_UI_icon_edit-ltr-
progressive.svg/20px-00js_UI_icon_edit-ltr-progressive.svg.png 2x"
style="vertical-align: text-top" width="10"/></a><td class="navbox-list
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<span class="nowrap"><a href="/wiki/Integrated Authority File"
title="Integrated Authority File">GND</a>: <span class="uid"><a class="external
text" href="https://d-nb.info/gnd/4250193-3"
rel="nofollow">4250193-3</a></span></span>
<span class="nowrap"><a href="/wiki/Library_of_Congress_Control_Number"</pre>
title="Library of Congress Control Number">LCCN</a>: <span class="uid"><a
class="external text" href="https://id.loc.gov/authorities/names/n81147502"
rel="nofollow">n81147502</a></span></span>
<span class="nowrap"><a href="/wiki/MusicBrainz"</pre>
title="MusicBrainz">MusicBrainz</a>: <span class="uid"><a class="external text"
href="https://musicbrainz.org/area/28065401-9f56-4fea-a300-5f33f751062c"
rel="nofollow">28065401-9f56-4fea-a300-5f33f751062c</a></span></span>
<span class="nowrap"><a href="/wiki/National_Diet_Library" title="National</pre>
Diet Library">NDL</a>: <span class="uid"><a class="external text"</pre>
href="https://id.ndl.go.jp/auth/ndlna/00560046"
rel="nofollow">00560046</a></span></span>
<span class="nowrap"><a href="/wiki/National_Library_of_the_Czech_Republic"</pre>
title="National Library of the Czech Republic">NKC</a>: <span class="uid"><a
class="external text" href="https://aleph.nkp.cz/F/?func=find-c&local_base=a
ut&ccl_term=ica=ge632074&CON_LNG=ENG"
rel="nofollow">ge632074</a></span></span>
<span class="nowrap"><a href="/wiki/National_Library_of_Israel"</pre>
title="National Library of Israel">NLI</a>: 
text" href="http://uli.nli.org.il/F/?func=direct&doc_number=000989551&lo
cal_base=nlx10" rel="nofollow">000989551</a></span></span>
<span class="nowrap"><a href="/wiki/Virtual_International_Authority_File"</pre>
title="Virtual International Authority File">VIAF</a>: <span class="uid"><a
```

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class="external text" href="https://viaf.org/viaf/136057444"
rel="nofollow">136057444</a></span></span>
<span class="nowrap"> <a class="mw-redirect"</pre>
href="/wiki/WorldCat_Identities" title="WorldCat Identities">WorldCat
Identities</a>: <a class="external text"</pre>
href="https://www.worldcat.org/identities/lccn-n81147502"
rel="nofollow">lccn-n81147502</a></span>
</div></div>
NewPP limit report
Parsed by mw1367
Cached time: 20200418190925
Cache expiry: 2592000
Dynamic content: false
Complications: [vary-revision-sha1]
CPU time usage: 2.472 seconds
Real time usage: 3.146 seconds
Preprocessor visited node count: 16805/1000000
Post-expand include size: 487395/2097152 bytes
Template argument size: 88718/2097152 bytes
Highest expansion depth: 26/40
Expensive parser function count: 25/500
Unstrip recursion depth: 1/20
Unstrip post-expand size: 423697/5000000 bytes
Number of Wikibase entities loaded: 1/400
Lua time usage: 1.226/10.000 seconds
Lua memory usage: 31.45 MB/50 MB
Lua Profile:
                                                                     340 ms
23.0%
   Scribunto_LuaSandboxCallback::getExpandedArgument
                                                                    240 ms
   Scribunto_LuaSandboxCallback::callParserFunction
                                                                    120 ms
8.1%
   Scribunto_LuaSandboxCallback::getAllExpandedArguments
                                                                    100 ms
6.8%
   dataWrapper <mw.lua:661>
                                                                     100 ms
6.8%
   recursiveClone <mwInit.lua:41>
                                                                      60 ms
4.1%
   Scribunto_LuaSandboxCallback::find
                                                                      40 ms
2.7%
   Scribunto_LuaSandboxCallback::plain
                                                                      40 ms
2.7%
   {\tt Scribunto\_LuaSandboxCallback::formatDate}
                                                                      40 ms
    __coalesce <Module:Language/name/data:2>
                                                                      40 ms
2.7%
```

```
[others]
                                                                   360 ms
24.3%
-->
<!--
Transclusion expansion time report (%,ms,calls,template)
100.00% 2617.202
                     1 -total
33.22% 869.503
                     2 Template:Reflist
23.33% 610.467
                     1 Template:Infobox_settlement
 21.24% 555.999
                     1 Template: Infobox
 15.73% 411.686
                    83 Template:Cite_web
 7.11% 186.155
                     2 Template:Lang
  5.98% 156.639
                     1 Template: Navboxes
  5.83% 152.539
                     1 Template:Columns-list
  5.42% 141.978
                    13 Template:Flagicon
  5.03% 131.775
                     4 Template:Cite_book
-->
<!-- Saved in parser cache with key enwiki:pcache:idhash:18950756-0!canonical
and timestamp 20200418190922 and revision id 950793038
 -->
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style="border: none; position: absolute;" title="" width="1"/></noscript></div>
<div class="printfooter">Retrieved from "<a dir="ltr" href="https://en.wikipedia</pre>
.org/w/index.php?title=Abu_Dhabi&oldid=950793038">https://en.wikipedia.org/w
/index.php?title=Abu_Dhabi&oldid=950793038</a>"</div>
<div class="catlinks" data-mw="interface" id="catlinks"><div class="mw-normal-</pre>
catlinks" id="mw-normal-catlinks"><a href="/wiki/Help:Category"
title="Help:Category">Categories</a>: <a href="/wiki/Category:Abu Dhabi"
title="Category: Abu Dhabi"> Abu Dhabi</a><a
href="/wiki/Category:Capitals_in_Asia" title="Category:Capitals in
Asia">Capitals in Asia</a><a
href="/wiki/Category:Populated_coastal_places_in_the_United_Arab_Emirates"
title="Category:Populated coastal places in the United Arab Emirates">Populated
coastal places in the United Arab Emirates</a><a
href="/wiki/Category:Populated places in Abu Dhabi (emirate)"
title="Category:Populated places in Abu Dhabi (emirate)">Populated places in Abu
Dhabi (emirate)</a><a
href="/wiki/Category:Port_cities_in_the_Arabian_Peninsula" title="Category:Port
cities in the Arabian Peninsula">Port cities in the Arabian
Peninsula</a></div><div class="mw-hidden-catlinks mw-hidden-cats-
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href="/wiki/Category:Webarchive_template_wayback_links"
title="Category: Webarchive template wayback links"> Webarchive template wayback
links</a><a href="/wiki/Category:All_articles_with_dead_external_links"
title="Category: All articles with dead external links" > All articles with dead
external links</a><a
href="/wiki/Category:Articles_with_dead_external_links_from_August_2016"
title="Category:Articles with dead external links from August 2016">Articles
```

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with dead external links from August 2016</a><a
href="/wiki/Category:Webarchive_template_webcite_links"
title="Category: Webarchive template webcite links"> Webarchive template webcite
links</a><a
href="/wiki/Category:Articles with dead external links from June 2016"
title="Category: Articles with dead external links from June 2016">Articles with
dead external links from June 2016</a><a
href="/wiki/Category:CS1_maint:_archived_copy_as_title" title="Category:CS1
maint: archived copy as title">CS1 maint: archived copy as title</a><a
href="/wiki/Category:CS1_maint:_BOT:_original-url_status_unknown"
title="Category:CS1 maint: BOT: original-url status unknown">CS1 maint: BOT:
original-url status unknown</a><a
href="/wiki/Category:Webarchive_template_archiveis_links"
title="Category: Webarchive template archive is links">Webarchive template
archiveis links</a><a href="/wiki/Category:CS1_Russian-
language_sources_(ru)" title="Category:CS1 Russian-language sources (ru)">CS1
Russian-language sources (ru)</a><a
href="/wiki/Category:Articles_with_short_description" title="Category:Articles
with short description">Articles with short description</a><a
href="/wiki/Category:EngvarB from September 2017" title="Category:EngvarB from
September 2017">EngvarB from September 2017</a><a
href="/wiki/Category:Articles containing Arabic-language text"
title="Category: Articles containing Arabic-language text">Articles containing
Arabic-language text</a><a
href="/wiki/Category:Coordinates_on_Wikidata" title="Category:Coordinates on
Wikidata">Coordinates on Wikidata</a><a
href="/wiki/Category:Pages_using_infobox_settlement_with_possible_demonym_list"
title="Category:Pages using infobox settlement with possible demonym list">Pages
using infobox settlement with possible demonym list</a><a
href="/wiki/Category:Articles_to_be_expanded_from_August_2017"
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expanded from August 2017</a><a
href="/wiki/Category:All_articles_to_be_expanded" title="Category:All articles
to be expanded">All articles to be expanded</a><a
href="/wiki/Category:Articles using small message boxes"
title="Category:Articles using small message boxes">Articles using small message
boxes</a><a href="/wiki/Category:Articles containing potentially dated">boxes</a></a>
statements_from_July_2008" title="Category: Articles containing potentially dated
statements from July 2008">Articles containing potentially dated statements from
July 2008</a><a
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title="Category: All articles containing potentially dated statements">All
articles containing potentially dated statements</a><a
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title="Category: Articles containing potentially dated statements from
2006">Articles containing potentially dated statements from 2006</a><a
href="/wiki/Category:Articles_containing_potentially_dated_statements_from_2007"
title="Category: Articles containing potentially dated statements from
```

```
2007">Articles containing potentially dated statements from 2007</a><a
href="/wiki/Category:All_articles_with_unsourced_statements" title="Category:All
articles with unsourced statements">All articles with unsourced
statements</a><a
href="/wiki/Category:Articles with unsourced statements from August 2017"
title="Category: Articles with unsourced statements from August 2017">Articles
with unsourced statements from August 2017</a><a
href="/wiki/Category:Articles_containing_potentially_dated_statements_from_2014"
title="Category:Articles containing potentially dated statements from
2014">Articles containing potentially dated statements from 2014</a><a
href="/wiki/Category:Articles_containing_potentially_dated_statements_from_2005"
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2005">Articles containing potentially dated statements from 2005</a><a
href="/wiki/Category:Articles_with_Curlie_links" title="Category:Articles with
Curlie links">Articles with Curlie links</a><a
href="/wiki/Category:Use dmy_dates from_June 2013" title="Category:Use dmy_dates
from June 2013">Use dmy dates from June 2013</a><a
href="/wiki/Category:Wikipedia_articles_with_GND_identifiers"
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GND identifiers</a><a
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with LCCN identifiers</a><a
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title="Category:Wikipedia articles with MusicBrainz area identifiers">Wikipedia
articles with MusicBrainz area identifiers</a><a
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title="Category:Wikipedia articles with NDL identifiers">Wikipedia articles with
NDL identifiers</a><a
href="/wiki/Category:Wikipedia_articles_with_NKC_identifiers"
title="Category: Wikipedia articles with NKC identifiers"> Wikipedia articles with
NKC identifiers</a><a
href="/wiki/Category:Wikipedia_articles_with_NLI_identifiers"
title="Category: Wikipedia articles with NLI identifiers"> Wikipedia articles with
NLI identifiers</a><a
href="/wiki/Category:Wikipedia_articles_with_VIAF_identifiers"
title="Category: Wikipedia articles with VIAF identifiers"> Wikipedia articles
with VIAF identifiers</a><a
href="/wiki/Category:Wikipedia_articles_with_WorldCat_identifiers"
title="Category: Wikipedia articles with WorldCat identifiers"> Wikipedia articles
with WorldCat identifiers</a></div></div>
<div class="visualClear"></div>
</div>
</div>
<div id="mw-data-after-content">
<div class="read-more-container"></div>
</div>
```

<div id="mw-navigation">

```
<h2>Navigation menu</h2>
<div id="mw-head">
<div aria-labelledby="p-personal-label" class="" id="p-personal"</pre>
role="navigation">
<h3 id="p-personal-label">Personal tools</h3>
<u1>
id="pt-anonuserpage">Not logged inid="pt-anontalk"><a accesskey="n"</pre>
href="/wiki/Special:MyTalk" title="Discussion about edits from this IP address
[n]">Talk</a>id="pt-anoncontribs"><a accesskey="y"
href="/wiki/Special:MyContributions" title="A list of edits made from this IP
address [y]">Contributions</a>id="pt-createaccount"><a
href="/w/index.php?title=Special:CreateAccount&returnto=Abu+Dhabi"
title="You are encouraged to create an account and log in; however, it is not
mandatory">Create account</a>id="pt-login"><a accesskey="o"
href="/w/index.php?title=Special:UserLogin&returnto=Abu+Dhabi" title="You're
encouraged to log in; however, it's not mandatory. [o]">Log in</a>>
</div>
<div id="left-navigation">
<div aria-labelledby="p-namespaces-label" class="vectorTabs" id="p-namespaces"</pre>
role="navigation">
<h3 id="p-namespaces-label">Namespaces</h3>
class="selected" id="ca-nstab-main"><a accesskey="c" href="/wiki/Abu_Dhabi"</pre>
title="View the content page [c]">Article</a><a
accesskey="t" href="/wiki/Talk:Abu_Dhabi" rel="discussion" title="Discuss
improvements to the content page [t]">Talk</a>
</div>
<div aria-labelledby="p-variants-label" class="vectorMenu emptyPortlet"</pre>
id="p-variants" role="navigation">
<input aria-labelledby="p-variants-label" class="vectorMenuCheckbox"</pre>
type="checkbox"/>
<h3 id="p-variants-label">
<span>Variants</span>
</h3>
</111>
</div>
</div>
<div id="right-navigation">
<div aria-labelledby="p-views-label" class="vectorTabs" id="p-views"</pre>
role="navigation">
<h3 id="p-views-label">Views</h3>
<l
<a</pre>
href="/wiki/Abu_Dhabi">Read</a><a
accesskey="e" href="/w/index.php?title=Abu_Dhabi&action=edit" title="Edit
```

```
this page [e]">Edit</a><a
accesskey="h" href="/w/index.php?title=Abu_Dhabi&action=history" title="Past
revisions of this page [h]">View history</a>
</div>
<div aria-labelledby="p-cactions-label" class="vectorMenu emptyPortlet"</pre>
id="p-cactions" role="navigation">
<input aria-labelledby="p-cactions-label" class="vectorMenuCheckbox"</pre>
type="checkbox"/>
<h3 id="p-cactions-label">
<span>More</span>
</h3>
</div>
<div id="p-search" role="search">
<h3>
<label for="searchInput">Search</label>
</h3>
<form action="/w/index.php" id="searchform">
<div id="simpleSearch">
<input accesskey="f" id="searchInput" name="search" placeholder="Search</pre>
Wikipedia" title="Search Wikipedia [f]" type="search"/>
<input name="title" type="hidden" value="Special:Search"/>
<input class="searchButton mw-fallbackSearchButton" id="mw-searchButton"</pre>
name="fulltext" title="Search Wikipedia for this text" type="submit"
value="Search"/>
<input class="searchButton" id="searchButton" name="go" title="Go to a page with</pre>
this exact name if it exists" type="submit" value="Go"/>
</div>
</form>
</div>
</div>
</div>
<div id="mw-panel">
<div id="p-logo" role="banner">
<a class="mw-wiki-logo" href="/wiki/Main Page" title="Visit the main page"></a>
<div aria-labelledby="p-navigation-label" class="portal" id="p-navigation"</pre>
role="navigation">
<h3 id="p-navigation-label">
               Navigation
       </h3>
<div class="body">
id="n-mainpage-description"><a accesskey="z" href="/wiki/Main_Page"</pre>
title="Visit the main page [z]">Main page</a><a
href="/wiki/Wikipedia:Contents" title="Guides to browsing
Wikipedia">Contents</a><a
```

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href="/wiki/Wikipedia:Featured_content" title="Featured content - the best of
Wikipedia">Featured content</a>id="n-currentevents"><a
href="/wiki/Portal:Current_events" title="Find background information on current
events">Current events</a>id="n-randompage"><a accesskey="x"
href="/wiki/Special:Random" title="Load a random article [x]">Random
article</a>id="n-sitesupport"><a href="https://donate.wikimedia.org/wik
i/Special:FundraiserRedirector?utm source=donate&utm medium=sidebar&utm
campaign=C13_en.wikipedia.org&uselang=en" title="Support us">Donate to
Wikipedia </a>  id="n-shoplink" ><a href="//shop.wikimedia.org"
title="Visit the Wikipedia store">Wikipedia store</a>
</div>
</div>
<div aria-labelledby="p-interaction-label" class="portal" id="p-interaction"</pre>
role="navigation">
<h3 id="p-interaction-label">
               Interaction
       </h3>
<div class="body">
id="n-help"><a href="/wiki/Help:Contents" title="Guidance on how to use</li>
and edit Wikipedia">Help</a>id="n-aboutsite"><a
href="/wiki/Wikipedia:About" title="Find out about Wikipedia">About
Wikipedia</a><a href="/wiki/Wikipedia:Community portal"
title="About the project, what you can do, where to find things">Community
portal</a>id="n-recentchanges"><a accesskey="r"
href="/wiki/Special:RecentChanges" title="A list of recent changes in the wiki
[r]">Recent changes</a>id="n-contactpage"><a
href="//en.wikipedia.org/wiki/Wikipedia:Contact_us" title="How to contact
Wikipedia">Contact page</a>
</div>
</div>
<div aria-labelledby="p-tb-label" class="portal" id="p-tb" role="navigation">
<h3 id="p-tb-label">
               Tools
       </h3>
<div class="body">
id="t-whatlinkshere"><a accesskey="j"</li>
href="/wiki/Special:WhatLinksHere/Abu Dhabi" title="List of all English
Wikipedia pages containing links to this page [j]">What links here</a>
id="t-recentchangeslinked"><a accesskey="k"
href="/wiki/Special:RecentChangesLinked/Abu_Dhabi" rel="nofollow" title="Recent
changes in pages linked from this page [k]">Related changes</a><li
id="t-upload"><a accesskey="u" href="/wiki/Wikipedia:File_Upload_Wizard"
title="Upload files [u]">Upload file</a>id="t-specialpages"><a
accesskey="q" href="/wiki/Special:SpecialPages" title="A list of all special
pages [q]">Special pages</a><a</pre>
href="/w/index.php?title=Abu_Dhabi&oldid=950793038" title="Permanent link to
this revision of the page">Permanent link</a>id="t-info"><a
href="/w/index.php?title=Abu Dhabi&action=info" title="More information
```

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about this page">Page information</a>id="t-wikibase"><a accesskey="g"
href="https://www.wikidata.org/wiki/Special:EntityPage/Q1519" title="Link to
connected data repository item [g]">Wikidata item</a>id="t-cite"><a hre
f="/w/index.php?title=Special:CiteThisPage&page=Abu_Dhabi&id=950793038&a
mp; wpFormIdentifier=titleform" title="Information on how to cite this page">Cite
this page</a>
</div>
</div>
<div aria-labelledby="p-wikibase-otherprojects-label" class="portal"</pre>
id="p-wikibase-otherprojects" role="navigation">
<h3 id="p-wikibase-otherprojects-label">
                             In other projects
              </h3>
<div class="body">
<a</pre>
href="https://commons.wikimedia.org/wiki/Category:Abu_Dhabi"
hreflang="en">Wikimedia Commons</a><li class="wb-otherproject-link wb-
otherproject-wikinews"><a href="https://en.wikinews.org/wiki/Category:Abu Dhabi"
hreflang="en">Wikinews</a><li class="wb-otherproject-link wb-otherproject-
wikivoyage badge-Q17559452 badge-recommendedarticle" title="recommended
article"><a href="https://en.wikivoyage.org/wiki/Abu_Dhabi"
hreflang="en">Wikivoyage</a>
</div>
</div>
<div aria-labelledby="p-coll-print_export-label" class="portal" id="p-coll-</pre>
print_export" role="navigation">
<h3 id="p-coll-print_export-label">
                             Print/export
              </h3>
<div class="body">
id="coll-create_a_book"><a href="/w/index.php?title=Special:Book&amp;boo"><a href="/w/index.php.">w/index.php.</a><a href="/w/index.php.">w/index.ph
kcmd=book_creator&referer=Abu+Dhabi">Create a book</a><li id="coll-
download-as-rl"><a
href="/w/index.php?title=Special:ElectronPdf&page=Abu+Dhabi&action=show-
download-screen">Download as PDF</a>id="t-print"><a accesskey="p"
href="/w/index.php?title=Abu_Dhabi&printable=yes" title="Printable version
of this page [p]">Printable version</a>
</div>
</div>
<div aria-labelledby="p-lang-label" class="portal" id="p-lang"</pre>
role="navigation">
<h3 id="p-lang-label">
                             Languages
              </h3>
<div class="body">
class="interlanguage-link interwiki-ace"><a class="interlanguage-link-
target" href="https://ace.wikipedia.org/wiki/Abu_Dhabi" hreflang="ace"
lang="ace" title="Abu Dhabi - Achinese">Acèh</a><li class="interlanguage-
```

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link interwiki-af"><a class="interlanguage-link-target"</pre>
href="https://af.wikipedia.org/wiki/Aboe_Dhabi" hreflang="af" lang="af"
title="Aboe Dhabi - Afrikaans">Afrikaans</a><li class="interlanguage-link
interwiki-als"><a class="interlanguage-link-target"</pre>
href="https://als.wikipedia.org/wiki/Abu Dhabi" hreflang="gsw" lang="gsw"
title="Abu Dhabi - Alemannisch">Alemannisch</a><li class="interlanguage-
link interwiki-am"><a class="interlanguage-link-target"</pre>
href="https://am.wikipedia.org/wiki/%E1%8A%A0%E1%89%A1_%E1%8B%B3%E1%89%A2"
hreflang="am" lang="am" title="
                                - Amharic"> </a><li
class="interlanguage-link interwiki-ar"><a class="interlanguage-link-target"</pre>
href="https://ar.wikipedia.org/wiki/%D8%A3%D8%A8%D9%88_%D8%B8%D8%A8%D9%8A"
hreflang="ar" lang="ar" title="
                                  - Arabic"
                                               <>/a><li
class="interlanguage-link interwiki-hyw"><a class="interlanguage-link-target" hr
ef="https://hyw.wikipedia.org/wiki/%D4%B1%D5%BA%D5%B8%D6%82_%D5%8F%D5%A1%D5%BA%D
5%AB" hreflang="hyw" lang="hyw" title="
                                           - Western
Armenian">
                </a><a
class="interlanguage-link-target"
href="https://frp.wikipedia.org/wiki/Abou_Dabi_(vela)" hreflang="frp" lang="frp"
title="Abou Dabi (vela) - Arpitan">Arpetan</a>class="interlanguage-link"
interwiki-ast"><a class="interlanguage-link-target"</pre>
href="https://ast.wikipedia.org/wiki/Abu Dhabi" hreflang="ast" lang="ast"
title="Abu Dhabi - Asturian">Asturianu</a>class="interlanguage-link"
interwiki-ay"><a class="interlanguage-link-target"</pre>
href="https://ay.wikipedia.org/wiki/Abu_Dhabi_Marka" hreflang="ay" lang="ay"
title="Abu Dhabi Marka - Aymara">Aymar aru</a><li class="interlanguage-link"
interwiki-az"><a class="interlanguage-link-target"</pre>
href="https://az.wikipedia.org/wiki/%C6%8Fbu-Dabi" hreflang="az" lang="az"
title="bu-Dabi - Azerbaijani">Azərbaycanca</a><li class="interlanguage-
link interwiki-azb"><a class="interlanguage-link-target"</pre>
href="https://azb.wikipedia.org/wiki/%D8%A7%D8%A8%D9%88%D8%B8%D8%A8%DB%8C"
hreflang="azb" lang="azb" title="
                                   - South Azerbaijani"
                                                          <>/a><li
class="interlanguage-link interwiki-bn"><a class="interlanguage-link-target" hre
f="https://bn.wikipedia.org/wiki/%E0%A6%86%E0%A6%AC%E0%A7%81%E0%A6%A7%E0%A6%BE%E
0%A6%AC%E0%A6%BF" hreflang="bn" lang="bn" title="
Bangla"> </a><a
class="interlanguage-link-target"
href="https://bjn.wikipedia.org/wiki/Abu Dhabi" hreflang="bjn" lang="bjn"
title="Abu Dhabi - Banjar">Banjar</a>class="interlanguage-link"
interwiki-zh-min-nan"><a class="interlanguage-link-target" href="https://zh-min-
nan.wikipedia.org/wiki/Abu_Dhabi" hreflang="nan" lang="nan" title="Abu Dhabi -
Chinese (Min Nan)">Bân-lâm-gú</a><li class="interlanguage-link interwiki-
ba"><a class="interlanguage-link-target"
href="https://ba.wikipedia.org/wiki/%D3%98%D0%B1%D2%AF-%D0%94%D3%99%D0%B1%D0%B8"
hreflang="ba" lang="ba" title=" -
                                  - Bashkir">
                                                  </a><li
class="interlanguage-link interwiki-be"><a class="interlanguage-link-target"</pre>
href="https://be.wikipedia.org/wiki/%D0%90%D0%B1%D1%83-%D0%94%D0%B0%D0%B1%D1%96"
hreflang="be" lang="be" title=" -
                                   - Belarusian">
                                                      </a><li
class="interlanguage-link interwiki-be-x-old"><a class="interlanguage-link-
```

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target" href="https://be-x-
old.wikipedia.org/wiki/%D0%90%D0%B1%D1%83 %D0%94%D0%B0%D0%B1%D1%96"
hreflang="be-tarask" lang="be-tarask" title="
                                                  - Belarusian (Taraškievica
orthography)">
                    (
                           )</a>class="interlanguage-link"
interwiki-bh"><a class="interlanguage-link-target" href="https://bh.wikipedia.or
g/wiki/%E0%A4%85%E0%A4%AC%E0%A5%82_%E0%A4%A7%E0%A4%BE%E0%A4%AC%E0%A5%80"
hreflang="bh" lang="bh" title="
                                   - Bhojpuri">
class="interlanguage-link interwiki-bcl"><a class="interlanguage-link-target"</pre>
href="https://bcl.wikipedia.org/wiki/Abu_Dhabi" hreflang="bcl" lang="bcl"
title="Abu Dhabi - Central Bikol">Bikol Central</a><li
class="interlanguage-link interwiki-bg"><a class="interlanguage-link-target"</pre>
href="https://bg.wikipedia.org/wiki/%D0%90%D0%B1%D1%83 %D0%94%D0%B0%D0%B1%D0%B8"
hreflang="bg" lang="bg" title="
                                    - Bulgarian">
                                                      </a><li
class="interlanguage-link interwiki-bo"><a class="interlanguage-link-target" hre
f="https://bo.wikipedia.org/wiki/%E0%BD%A8%E0%BC%8B%E0%BD%94%E0%BD%BC%E0%BD%A0%E
0%BD%B4%E0%BC%8B%E0%BD%91%E0%BE%B7%E0%BC%8B%E0%BD%94%E0%BD%BA%E0%BC%8D"
hreflang="bo" lang="bo" title="
                                    - Tibetan">
                                                  </a><li
class="interlanguage-link interwiki-bs"><a class="interlanguage-link-target"</pre>
href="https://bs.wikipedia.org/wiki/Abu_Dhabi" hreflang="bs" lang="bs"
title="Abu Dhabi - Bosnian">Bosanski</a>class="interlanguage-link"
interwiki-br"><a class="interlanguage-link-target"</pre>
href="https://br.wikipedia.org/wiki/Abu Dhabi" hreflang="br" lang="br"
title="Abu Dhabi - Breton">Brezhoneg</a><li class="interlanguage-link"
interwiki-bxr"><a class="interlanguage-link-target" href="https://bxr.wikipedia.
org/wiki/%D0%90%D0%B1%D1%83-%D0%94%D0%B0%D0%B1%D0%B8" hreflang="bxr" lang="bxr"
title=" -
            - Russia Buriat">
                                </a><li class="interlanguage-link"
interwiki-ca"><a class="interlanguage-link-target"</pre>
href="https://ca.wikipedia.org/wiki/Abu Dhabi_(ciutat)" hreflang="ca" lang="ca"
title="Abu Dhabi (ciutat) - Catalan">Català</a>class="interlanguage-
link interwiki-ceb"><a class="interlanguage-link-target" href="https://ceb.wikip
edia.org/wiki/Abu Dhabi (ulohang dakbayan sa Nagkahiusang Emiradang Arabo)"
hreflang="ceb" lang="ceb" title="Abu Dhabi (ulohang dakbayan sa Nagkahiusang
Emiradang Arabo) - Cebuano">Cebuano</a>class="interlanguage-link"
interwiki-cs"><a class="interlanguage-link-target"</pre>
href="https://cs.wikipedia.org/wiki/Ab%C3%BA Zab%C3%AD" hreflang="cs" lang="cs"
title="Abú Zabí - Czech">Čeština</a><li class="interlanguage-link"
interwiki-sn"><a class="interlanguage-link-target"</pre>
href="https://sn.wikipedia.org/wiki/Abu_Dhabi" hreflang="sn" lang="sn"
title="Abu Dhabi - Shona">ChiShona</a><li class="interlanguage-link"
interwiki-cy"><a class="interlanguage-link-target"</pre>
href="https://cy.wikipedia.org/wiki/Abu_Dhabi" hreflang="cy" lang="cy"
title="Abu Dhabi - Welsh">Cymraeg</a><li class="interlanguage-link
interwiki-da"><a class="interlanguage-link-target"</pre>
href="https://da.wikipedia.org/wiki/Abu Dhabi" hreflang="da" lang="da"
title="Abu Dhabi - Danish">Dansk</a><li class="interlanguage-link"
interwiki-de"><a class="interlanguage-link-target"</pre>
href="https://de.wikipedia.org/wiki/Abu_Dhabi" hreflang="de" lang="de"
title="Abu Dhabi - German">Deutsch</a>class="interlanguage-link"
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interwiki-dty"><a class="interlanguage-link-target" href="https://dty.wikipedia.
org/wiki/%E0%A4%85%E0%A4%AC%E0%A5%81%E0%A4%A7%E0%A4%BE%E0%A4%AC%E0%A5%80"
hreflang="dty" lang="dty" title="
                                    - Doteli">
                                                 </a><li
class="interlanguage-link interwiki-et"><a class="interlanguage-link-target"</pre>
href="https://et.wikipedia.org/wiki/Abu Dhabi" hreflang="et" lang="et"
title="Abu Dhabi - Estonian">Eesti</a>class="interlanguage-link"
interwiki-el"><a class="interlanguage-link-target" href="https://el.wikipedia.or
g/wiki/%CE%86%CE%BC%CF%80%CE%BF%CF%85_%CE%9D%CF%84%CE%AC%CE%BC%CF%80%CE%B9"
hreflang="el" lang="el" title="A
                                  N
                                       - Greek">E
                                                    </a><li
class="interlanguage-link interwiki-es"><a class="interlanguage-link-target"</pre>
href="https://es.wikipedia.org/wiki/Abu Dabi" hreflang="es" lang="es" title="Abu
Dabi - Spanish">Español</a>class="interlanguage-link interwiki-eo"><a
class="interlanguage-link-target"
href="https://eo.wikipedia.org/wiki/Abudabio_(urbo)" hreflang="eo" lang="eo"
title="Abudabio (urbo) - Esperanto">Esperanto</a><li class="interlanguage-
link interwiki-eu"><a class="interlanguage-link-target"</pre>
href="https://eu.wikipedia.org/wiki/Abu_Dhabi" hreflang="eu" lang="eu"
title="Abu Dhabi - Basque">Euskara</a>class="interlanguage-link"
interwiki-fa"><a class="interlanguage-link-target"</pre>
href="https://fa.wikipedia.org/wiki/%D8%A7%D8%A8%D9%88%D8%B8%D8%A8%DB%8C"
hreflang="fa" lang="fa" title="
                                 - Persian"
                                              <>/a><li
class="interlanguage-link interwiki-fr"><a class="interlanguage-link-target"</pre>
href="https://fr.wikipedia.org/wiki/Abou_Dabi_(ville)" hreflang="fr" lang="fr"
title="Abou Dabi (ville) - French">Français</a><li class="interlanguage-
link interwiki-fy"><a class="interlanguage-link-target"</pre>
href="https://fy.wikipedia.org/wiki/Ab%C3%BB_Daby" hreflang="fy" lang="fy"
title="Abû Daby - Western Frisian">Frysk</a><li class="interlanguage-link
interwiki-ga"><a class="interlanguage-link-target"</pre>
href="https://ga.wikipedia.org/wiki/Ab%C3%BA_Daib%C3%AD" hreflang="ga" lang="ga"
title="Abú Daibí - Irish">Gaeilge</a><li class="interlanguage-link
interwiki-gd"><a class="interlanguage-link-target"</pre>
href="https://gd.wikipedia.org/wiki/Abu_Dhabi" hreflang="gd" lang="gd"
title="Abu Dhabi - Scottish Gaelic">Gàidhlig</a><li class="interlanguage-
link interwiki-gl"><a class="interlanguage-link-target"</pre>
href="https://gl.wikipedia.org/wiki/Abu Zabi" hreflang="gl" lang="gl" title="Abu
Zabi - Galician">Galego</a><a
class="interlanguage-link-target" href="https://ki.wikipedia.org/wiki/Abu Dhabi"
hreflang="ki" lang="ki" title="Abu Dhabi - Kikuyu">Gĩkũyũ</a><li
class="interlanguage-link interwiki-hak"><a class="interlanguage-link-target"</pre>
href="https://hak.wikipedia.org/wiki/Abu_Dhabi" hreflang="hak" lang="hak"
title="Abu Dhabi - Hakka Chinese"> /Hak-kâ-ngî</a><li
class="interlanguage-link interwiki-ko"><a class="interlanguage-link-target"</pre>
href="https://ko.wikipedia.org/wiki/%EC%95%84%EB%B6%80%EB%8B%A4%EB%B9%84"
hreflang="ko" lang="ko" title="
                               - Korean"> </a><li
class="interlanguage-link interwiki-ha"><a class="interlanguage-link-target"</pre>
href="https://ha.wikipedia.org/wiki/Abu_Dhabi_(birni)" hreflang="ha" lang="ha"
title="Abu Dhabi (birni) - Hausa">Hausa</a>class="interlanguage-link"
interwiki-hy"><a class="interlanguage-link-target" href="https://hy.wikipedia.or
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g/wiki/%D4%B1%D5%A2%D5%B8%D6%82 %D4%B4%D5%A1%D5%A2%D5%AB" hreflang="hy"
lang="hy" title="
                      - Armenian">
                                      </a><li class="interlanguage-
link interwiki-hi"><a class="interlanguage-link-target" href="https://hi.wikiped
ia.org/wiki/%E0%A4%85%E0%A4%AC%E0%A5%82_%E0%A4%A7%E0%A4%BE%E0%A4%AC%E0%A5%80"
hreflang="hi" lang="hi" title="
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                                              </a><li
class="interlanguage-link interwiki-hr"><a class="interlanguage-link-target"
href="https://hr.wikipedia.org/wiki/Abu Dhabi" hreflang="hr" lang="hr"
title="Abu Dhabi - Croatian">Hrvatski</a><li class="interlanguage-link
interwiki-io"><a class="interlanguage-link-target"</pre>
href="https://io.wikipedia.org/wiki/Abu_Dhabi" hreflang="io" lang="io"
title="Abu Dhabi - Ido">Ido</a><li class="interlanguage-link interwiki-
id"><a class="interlanguage-link-target"</pre>
href="https://id.wikipedia.org/wiki/Abu Dhabi" hreflang="id" lang="id"
title="Abu Dhabi - Indonesian">Bahasa Indonesia</a><li
class="interlanguage-link interwiki-ie"><a class="interlanguage-link-target"</pre>
href="https://ie.wikipedia.org/wiki/Abu Dhabi" hreflang="ie" lang="ie"
title="Abu Dhabi - Interlingue">Interlingue</a><li class="interlanguage-
link interwiki-os"><a class="interlanguage-link-target"</pre>
href="https://os.wikipedia.org/wiki/%D0%90%D0%B1%D1%83-%D0%94%D0%B0%D0%B1%D0%B8"
hreflang="os" lang="os" title=" - - Ossetic"> </a><li
class="interlanguage-link interwiki-is"><a class="interlanguage-link-target"</pre>
href="https://is.wikipedia.org/wiki/Ab%C3%BA Dab%C3%AD" hreflang="is" lang="is"
title="Abú Dabí - Icelandic">Íslenska</a><li class="interlanguage-link
interwiki-it"><a class="interlanguage-link-target"</pre>
href="https://it.wikipedia.org/wiki/Abu_Dhabi" hreflang="it" lang="it"
title="Abu Dhabi - Italian">Italiano</a>class="interlanguage-link"
interwiki-he"><a class="interlanguage-link-target"</pre>
href="https://he.wikipedia.org/wiki/%D7%90%D7%91%D7%95_%D7%93%D7%90%D7%91%D7%99"
hreflang="he" lang="he" title="
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class="interlanguage-link interwiki-kn"><a class="interlanguage-link-target" hre
f="https://kn.wikipedia.org/wiki/%E0%B2%85%E0%B2%AC%E0%B3%81 %E0%B2%A7%E0%B2%BE%
E0%B2%AC%E0%B2%BF" hreflang="kn" lang="kn" title="
Kannada"> </a><a
class="interlanguage-link-target"
href="https://pam.wikipedia.org/wiki/Abu Dhabi" hreflang="pam" lang="pam"
title="Abu Dhabi - Pampanga">Kapampangan</a><li class="interlanguage-link"
interwiki-ka"><a class="interlanguage-link-target" href="https://ka.wikipedia.or
g/wiki/%E1%83%90%E1%83%91%E1%83%A3-%E1%83%93%E1%83%90%E1%83%91%E1%83%98"
hreflang="ka" lang="ka" title=" - Georgian">
class="interlanguage-link interwiki-kk"><a class="interlanguage-link-target"</pre>
href="https://kk.wikipedia.org/wiki/%D0%90%D0%B1%D1%83-%D0%94%D0%B0%D0%B1%D0%B8"
hreflang="kk" lang="kk" title=" -
                                    - Kazakh">
                                                 </a><li
class="interlanguage-link interwiki-sw"><a class="interlanguage-link-target"</pre>
href="https://sw.wikipedia.org/wiki/Abu Dhabi" hreflang="sw" lang="sw"
title="Abu Dhabi - Swahili">Kiswahili</a><li class="interlanguage-link"
interwiki-ht"><a class="interlanguage-link-target"</pre>
href="https://ht.wikipedia.org/wiki/Abou_Dabi" hreflang="ht" lang="ht"
title="Abou Dabi - Haitian Creole">Kreyòl ayisyen</a><li
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class="interlanguage-link interwiki-ku"><a class="interlanguage-link-target"</pre>
href="https://ku.wikipedia.org/wiki/Ab%C3%BB_Zeb%C3%AE" hreflang="ku" lang="ku"
title="Abû Zebî - Kurdish">Kurdî</a><li class="interlanguage-link
interwiki-ky"><a class="interlanguage-link-target"</pre>
href="https://ky.wikipedia.org/wiki/%D0%90%D0%B1%D1%83-%D0%94%D0%B0%D0%B1%D0%B8"
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ShareAlike 3.0 Unported License" rel="license">Creative Commons Attribution-
ShareAlike License</a><a href="//creativecommons.org/licenses/by-sa/3.0/"
rel="license" style="display:none;"></a>;
additional terms may apply. By using this site, you agree to the <a
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Wikipedia® is a registered trademark of the <a
href="//www.wikimediafoundation.org/">Wikimedia Foundation, Inc.</a>, a non-
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Template:Infobox settlement", 21.24% 555.999
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                   83 Template:Cite_web"," 7.11% 186.155
                                                                                             2 Template:Lang","
                                1 Template: Navboxes", " 5.83% 152.539
5.98% 156.639
Template:Columns-list"," 5.42% 141.978
                                                                        13 Template:Flagicon", 5.03%
                     4 Template:Cite_book"]}, "scribunto":{"limitreport-
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Callback::callParserFunction", "120", "8.1"], ["Scribunto LuaSandboxCallback::getAl
lExpandedArguments","100","6.8"],["dataWrapper
\u003Cmw.lua:661\u003E","100","6.8"],["recursiveClone \u003CmwInit.lua:41\u003E"
,"60","4.1"],["Scribunto_LuaSandboxCallback::find","40","2.7"],["Scribunto_LuaSa
ndboxCallback::plain","40","2.7"],["Scribunto_LuaSandboxCallback::formatDate","4
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thers]", "360", "24.3"]]}, "cachereport": {"origin": "mw1367", "timestamp": "2020041819
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Emirates"}</script>
<script>(RLQ=window.RLQ||[]).push(function(){mw.config.set({"wgBackendResponseTi
```

```
me":191,"wgHostname":"mw1393"});});</script></body></html>
```

Sorry about that, that was long. By inspecting our "soup", we see that the list is under the class "div-col columns column-width".

```
[10]: #div-col columns column-width
     hoods = soup.find(class_="div-col columns column-width")
     print(hoods)
     <div class="div-col columns column-width" style="-moz-column-width: 18em;</pre>
     -webkit-column-width: 18em; column-width: 18em; ">
     <a class="new"</a>
     href="/w/index.php?title=Al_Aman&action=edit&redlink=1" title="Al Aman
     (page does not exist)">Al Aman</a>
     <a class="new"
     href="/w/index.php?title=Al_Bateen&action=edit&redlink=1" title="Al
     Bateen (page does not exist)">Al Bateen</a>
     <a class="new"</li>
     href="/w/index.php?title=Al_Dhafrah&action=edit&redlink=1" title="Al
     Dhafrah (page does not exist)">Al Dhafrah</a>
     <a class="new"
     href="/w/index.php?title=Al Falah&action=edit&redlink=1" title="Al Falah
     (page does not exist)">Al Falah</a>
     <a href="/wiki/Al_Karama, United_Arab_Emirates" title="Al Karama, United</pre>
     Arab Emirates">Al Karama</a>
     <a class="new"
     href="/w/index.php?title=Al_Khubeirah&action=edit&redlink=1" title="Al
     Khubeirah (page does not exist)">Al Khubeirah</a>
     <a href="/wiki/Al_Lulu_Island" title="Al Lulu Island">Al Lulu</a>
     Island</a>
     <a class="new"</li>
     href="/w/index.php?title=Al_Madina_(Abu_Dhabi)&action=edit&redlink=1"
     title="Al Madina (Abu Dhabi) (page does not exist)">Al Madina</a>
     <a href="/wiki/Al_Maryah_Island" title="Al Maryah Island">Al Maryah
     Island</a>
     <a class="new"
     href="/w/index.php?title=Al_Manaseer&action=edit&redlink=1" title="Al_Manaseer&action=edit&redlink=1" title="Al_Manaseer&action=edit&redlink=1" title="Al_Manaseer" |
     Manaseer (page does not exist)">Al Manaseer</a>
     <a class="new"
     href="/w/index.php?title=Al_Manhal&action=edit&redlink=1" title="Al_
     Manhal (page does not exist)">Al Manhal</a>
     <a class="new"
     href="/w/index.php?title=Al_Maqtaa&action=edit&redlink=1" title="Al
     Maqtaa (page does not exist)">Al Maqtaa</a>
     <a class="new"
     href="/w/index.php?title=Al_Markaziyah&action=edit&redlink=1" title="Al
     Markaziyah (page does not exist)">Al Markaziyah</a>
```

```
<a class="new"</li>
href="/w/index.php?title=Al_Meena&action=edit&redlink=1" title="Al Meena
(page does not exist)">Al Meena</a>
<a class="new"</li>
href="/w/index.php?title=Al Moroor&action=edit&redlink=1" title="Al
Moroor (page does not exist)">Al Moroor</a>
<a href="/wiki/Al Mushrif" title="Al Mushrif">Al Mushrif</a>
<a class="new"
href="/w/index.php?title=Al_Muzoon&action=edit&redlink=1" title="Al
Muzoon (page does not exist)">Al Muzoon</a>
<a href="/wiki/Al_Nahyan_neighbourhood" title="Al Nahyan neighbourhood">Al</a>
Nahyan</a>
<a class="new"</li>
href="/w/index.php?title=Al_Qubesat&action=edit&redlink=1" title="Al
Qubesat (page does not exist)">Al Qubesat</a>
<a class="new"</li>
href="/w/index.php?title=Al_Ras_Al_Akhdar&action=edit&redlink=1"
title="Al Ras Al Akhdar (page does not exist)">Al Ras Al Akhdar</a>
<a class="new"</li>
href="/w/index.php?title=Al Reef&action=edit&redlink=1" title="Al Reef
(page does not exist)">Al Reef</a>
<a href="/wiki/Al_Reem_Island" title="Al Reem Island">Al Reem</a>
Island</a>
<a class="new"
href="/w/index.php?title=Al_Rehhan&action=edit&redlink=1" title="Al
Rehhan (page does not exist)">Al Rehhan</a>
<a class="new"</li>
href="/w/index.php?title=Al Rowdah&action=edit&redlink=1" title="Al
Rowdah (page does not exist)">Al Rowdah</a>
<a class="new"</li>
href="/w/index.php?title=Al_Shamkha&action=edit&redlink=1" title="Al
Shamkha (page does not exist)">Al Shamkha</a>
<a href="/wiki/Bani_Yas" title="Bani Yas">Bani Yas</a>
<a class="new"
href="/w/index.php?title=Al_Zaab&action=edit&redlink=1" title="Al Zaab
(page does not exist)">Al Zaab</a>
<a href="/wiki/Al Zahiyah" title="Al Zahiyah">Al Zahiyah</a>
<a class="new"</li>
href="/w/index.php?title=Al_Zahraa&action=edit&redlink=1" title="Al
Zahraa (page does not exist)">Al Zahraa</a>
<a class="new"</li>
href="/w/index.php?title=Al_Khalidyah&action=edit&redlink=1" title="Al
Khalidyah (page does not exist)">Al Khalidyah</a>
<a class="new"</li>
href="/w/index.php?title=Bain_Al_Jisrain&action=edit&redlink=1"
title="Bain Al Jisrain (page does not exist)">Bain Al Jisrain</a>
<a class="new"</li>
href="/w/index.php?title=Hideriyyat&action=edit&redlink=1"
```

```
title="Hideriyyat (page does not exist)">Hideriyyat</a>
<a href="/wiki/Khalifa_City" title="Khalifa City">Khalifa City</a>
<a class="new" href="/w/index.php?title=Marina_Village_(Abu_Dhabi)&amp;actio</pre>
n=edit&redlink=1" title="Marina Village (Abu Dhabi) (page does not
exist)">Marina Village</a>
<a href="/wiki/Masdar_City" title="Masdar City">Masdar City</a>
<a class="mw-redirect" href="/wiki/Mohammed Bin Zayed City" title="Mohammed</pre>
Bin Zayed City">Mohammed Bin Zayed City</a>
<a href="/wiki/Saadiyat Island" title="Saadiyat Island">Saadiyat
Island</a>
<a class="new"
href="/w/index.php?title=Shakhbout_City&action=edit&redlink=1"
title="Shakhbout City (page does not exist)">Shakhbout City</a>
<a class="new"</li>
href="/w/index.php?title=Officers_City&action=edit&redlink=1"
title="Officers City (page does not exist)">Officers City</a>
<a class="new"
href="/w/index.php?title=Qasr_El_Bahr&action=edit&redlink=1" title="Qasr
El Bahr (page does not exist)">Qasr El Bahr</a>
<a class="new"</li>
href="/w/index.php?title=Qasr_El_Shatie&action=edit&redlink=1"
title="Qasr El Shatie (page does not exist)">Qasr El Shatie</a>
<a href="/wiki/Yas_Island" title="Yas Island">Yas Island</a>
<a href="/wiki/Al_Samha" title="Al Samha">Al Samha</a>
</div>
```

To get just the name of the neighborhood, we use this code:

```
[11]: hoods.a.text
```

[11]: 'Al Aman'

I'll create a dataframe for the neighborhoods and iterate over our "soup" to get all the names.

```
[12]: header=["Neighborhood","Lat","Lon"]

df = pd.DataFrame(columns=header)
hoods_rows = hoods.find_all('a')
for tr in hoods_rows:
    row = tr.text

df = df.append({'Neighborhood': row}, ignore_index=True)
```

```
[13]: df
```

```
[13]: Neighborhood Lat Lon

O Al Aman NaN NaN

1 Al Bateen NaN NaN
```

```
2
                  Al Dhafrah
                                     NaN
                                NaN
3
                                     NaN
                     Al Falah
                                NaN
4
                    Al Karama
                                NaN
                                     NaN
5
                Al Khubeirah
                                NaN
                                     NaN
6
              Al Lulu Island
                                NaN
                                     NaN
7
                    Al Madina
                                NaN
                                     NaN
            Al Maryah Island
8
                                NaN
                                     NaN
9
                 Al Manaseer
                                NaN
                                     NaN
10
                    Al Manhal
                                NaN
                                     NaN
11
                   Al Maqtaa
                                NaN
                                     NaN
12
               Al Markaziyah
                                NaN
                                     NaN
13
                     Al Meena
                                NaN
                                     NaN
14
                   Al Moroor
                                NaN
                                     NaN
15
                  Al Mushrif
                                NaN
                                     NaN
16
                   Al Muzoon
                                     NaN
                                NaN
17
                   Al Nahyan
                                NaN
                                     NaN
18
                   Al Qubesat
                                NaN
                                     NaN
19
            Al Ras Al Akhdar
                                NaN
                                     NaN
20
                      Al Reef
                                NaN
                                     NaN
21
              Al Reem Island
                                NaN
                                     NaN
22
                   Al Rehhan
                                NaN
                                     NaN
23
                   Al Rowdah
                                NaN
                                     NaN
24
                  Al Shamkha
                                NaN
                                     NaN
25
                     Bani Yas
                                NaN
                                     NaN
26
                      Al Zaab
                                NaN
                                     NaN
27
                  Al Zahiyah
                                \mathtt{NaN}
                                     NaN
28
                   Al Zahraa
                                NaN
                                     NaN
29
                Al Khalidyah
                                NaN
                                     NaN
30
             Bain Al Jisrain
                                NaN
                                     NaN
31
                  Hideriyyat
                                     NaN
                                NaN
32
                Khalifa City
                                NaN
                                     NaN
33
              Marina Village
                                NaN
                                     NaN
34
                 Masdar City
                                NaN
                                     NaN
35
    Mohammed Bin Zayed City
                                NaN
                                     NaN
36
             Saadiyat Island
                                     NaN
                                NaN
37
              Shakhbout City
                                NaN
                                     NaN
               Officers City
38
                                NaN
                                     NaN
39
                Qasr El Bahr
                                NaN
                                     NaN
40
              Qasr El Shatie
                                NaN
                                     NaN
41
                  Yas Island
                                NaN
                                     NaN
42
                     Al Samha
                                NaN
                                     NaN
```

Great! Now we can put that into the geocoder to get our coordinates.

```
[14]: address = '{}, Abu Dhabi, United Arab Emirates'
geolocator = Nominatim(user_agent="foursquare_agent")
```

```
for i in range(0, df.shape[0]):
   hood = df.iloc[i,0]
   location = geolocator.geocode(address.format(hood))
   if location is not None:
        df.iloc[i,1] = location.latitude
        df.iloc[i,2] = location.longitude
```

[15]: df

[15]:	Maighbaghaad	T a+	Ton
0	Neighborhood Al Aman	Lat 24.432	Lon 54 4266
1	Al Bateen		
2	Al Dhafrah		
3	Al Falah		
4	Al Karama		
5	Al Khubeirah		
6	Al Lulu Island		
7	Al Madina		
8	Al Maryah Island		
9	Al Manaseer		NaN
10	Al Manhal		
11	Al Maqtaa		
12	Al Markaziyah		
13	Al Meena	NaN	NaN
14	Al Moroor		NaN
15	Al Mushrif		54.391
16	Al Muzoon	NaN	NaN
17	Al Nahyan		54.3852
18	Al Qubesat		NaN
19	Al Ras Al Akhdar		NaN
20	Al Reef	24.4577	
21	Al Reem Island		
22		NaN	NaN
23	Al Rowdah	24.4564	54.3596
24	Al Shamkha	24.3885	54.7184
25	Bani Yas	NaN	NaN
26	Al Zaab	NaN	NaN
27	Al Zahiyah	24.4933	54.3799
28	Al Zahraa	24.4392	54.4352
29	Al Khalidyah	NaN	NaN
30	Bain Al Jisrain	24.4092	54.4954
31	Hideriyyat	NaN	NaN
32	Khalifa City	24.4214	54.5774
33	Marina Village	NaN	NaN
34	Masdar City	24.4259	54.6193
35	Mohammed Bin Zayed City	24.3279	54.5624
36	Saadiyat Island	24.5303	54.4409

```
37
             Shakhbout City
                              24.3622
                                         54.631
38
              Officers City
                              24.3824
                                         54.535
39
               Qasr El Bahr
                              24.4746
                                        54.3966
40
             Qasr El Shatie
                                   NaN
                                            NaN
41
                 Yas Island
                              24.4864
                                        54.6091
42
                    Al Samha
                                            NaN
                                  NaN
```

We couldn't find all the neighborhoods, but that's ok, we still got plenty for this exercise. Let's remove the ones without coordinates.

```
[16]: df=df.dropna()
[17]: df.reset_index(inplace=True,drop=True)
```

[17]: df.reset_index(inplace=True,drop=True) df

[17]:	Neighborhood	Lat	Lon
0	Al Aman	24.432	54.4266
1	Al Bateen	24.2151	55.6263
2	Al Dhafrah	24.4761	54.3694
3	Al Falah	24.4447	54.7282
4	Al Karama	25.2444	55.3048
5	Al Khubeirah	24.4652	54.3368
6	Al Lulu Island	24.4996	54.3457
7	Al Madina	24.3409	54.4907
8	Al Maryah Island	24.5021	54.3902
9	Al Manhal	24.4666	54.366
10	Al Maqtaa	24.4346	54.4544
11	Al Markaziyah	24.4933	54.3667
12	Al Mushrif	24.4369	54.391
13	Al Nahyan	24.4684	54.3852
14	Al Reef	24.4577	54.6737
15	Al Reem Island	24.4867	54.4105
16	Al Rowdah	24.4564	54.3596
17	Al Shamkha	24.3885	54.7184
18	Al Zahiyah	24.4933	54.3799
19	Al Zahraa		
20	Bain Al Jisrain	24.4092	54.4954
21	Khalifa City	24.4214	54.5774
22	Masdar City	24.4259	54.6193
23	Mohammed Bin Zayed City	24.3279	54.5624
24	Saadiyat Island	24.5303	54.4409
25	Shakhbout City		
26	Officers City	24.3824	54.535
27	Qasr El Bahr	24.4746	54.3966
28	Yas Island	24.4864	54.6091

Now we can plot these in a map:

```
[18]: # create map of Abu Dhabi using latitude and longitude values
      latitude = 24.4539
      longitude = 54.3773
      map_AD = folium.Map(location=[latitude, longitude], zoom_start=10)
      # add markers to map
      for lat, lng, neighborhood in zip(df['Lat'], df['Lon'], df['Neighborhood']):
          label = '{}'.format(neighborhood)
          label = folium.Popup(label, parse_html=True)
          folium.CircleMarker(
              [lat, lng],
              radius=5,
              popup=label,
              color='blue',
              fill=True,
              fill_color='#3186cc',
              fill_opacity=0.7,
              parse_html=False).add_to(map_AD)
      map_AD
```

[18]: <folium.folium.Map at 0x7fb4cce6aa58>

We use the Foursquare API to find venues in these neighborhoods. Let's use that trusty function that was provided in the course.

```
[19]: def getNearbyVenues(names, latitudes, longitudes, radius=500):
          venues_list=[]
          for name, lat, lng in zip(names, latitudes, longitudes):
              print(name)
               # create the API request URL
              url = 'https://api.foursquare.com/v2/venues/explore?
        \rightarrow \& client_id={}\& client_secret={}\&v={}\&ll={},{}\& radius={}\& limit={}'.format(
                   CLIENT_ID,
                   CLIENT_SECRET,
                   VERSION,
                   lat,
                   lng,
                   radius,
                  LIMIT)
               # make the GET request
              results = requests.get(url).json()["response"]['groups'][0]['items']
               # return only relevant information for each nearby venue
```

```
venues_list.append([(
           name,
           lat,
           lng,
           v['venue']['name'],
           v['venue']['location']['lat'],
           v['venue']['location']['lng'],
           v['venue']['categories'][0]['name']) for v in results])
   nearby_venues = pd.DataFrame([item for venue_list in venues_list for item_
→in venue_list])
   nearby_venues.columns = ['Neighborhood',
                 'Neighborhood Latitude',
                 'Neighborhood Longitude',
                 'Venue',
                 'Venue Latitude',
                 'Venue Longitude',
                 'Venue Category']
   return(nearby_venues)
```

Running the function...

- Al Aman
- Al Bateen
- Al Dhafrah
- Al Falah
- Al Karama
- Al Khubeirah
- Al Lulu Island
- Al Madina
- Al Maryah Island
- Al Manhal
- Al Maqtaa
- Al Markaziyah
- Al Mushrif
- Al Nahyan
- Al Reef
- Al Reem Island
- Al Rowdah
- Al Shamkha
- Al Zahiyah
- Al Zahraa

Bain Al Jisrain
Khalifa City
Masdar City
Mohammed Bin Zayed City
Saadiyat Island
Shakhbout City
Officers City
Qasr El Bahr
Yas Island

Now we have a list of venues with coordinates for each neighborhood. Let's just look at the first 10 entries.

[36]: AD_venues.head(10)

[36]:		Neighborhood	Neighborhood La	titude	Neighbor!	hood Longitude \	
	0	Al Aman	24.	431990		54.42655	
	1	Al Aman	24.	431990		54.42655	
	2	Al Aman	24.	431990		54.42655	
	3	Al Aman	24.	431990		54.42655	
	4	Al Aman	24.	431990		54.42655	
	5	Al Aman	24.	431990		54.42655	
	6	Al Dhafrah	24.	476147		54.36936	
	7	Al Dhafrah	24.	476147		54.36936	
	8	Al Dhafrah	24.	476147		54.36936	
	9	Al Dhafrah	24.	476147		54.36936	
			Venue	Venue	Latitude	Venue Longitude	\
	0		Subway	2	4.435156	54.425187	
	1	Novotel Abu	Dhabi Al Bustan	2	4.429431	54.429166	
	2		McDonald's	2	4.434646	54.424393	
	3	Cafe	Bonjour Bonsoir	2	4.429314	54.428250	
	4	Ac	lagio Aparthotel	2	4.429396	54.428604	
	5		Coffee Planet	2	4.434725	54.423094	
	6	Jumeir	ah Etihad Tower	2	4.476051	54.367716	
	7	Star	bucks ()	24.4	77430	54.371626	
	8	Gud	lee Pizza & Café	2	4.477860	54.371012	
	9	Al Shater Ha	assan Restaurant	2	4.478750	54.369562	
			_				

Venue Category Sandwich Place 0 Hotel 1 Fast Food Restaurant 2 3 Café 4 Hotel 5 Coffee Shop 6 Hotel 7 Coffee Shop

```
8 Pizza Place
```

9 Falafel Restaurant

How many unique type of businesses do we have in Abu Dhabi?

```
[37]: print('There are {} unique businesses.'.format(len(AD_venues['Venue Category'].

→unique())))
```

There are 125 unique businesses.

[58]:	AD_venues.groupby	('Neighborhood')	.count()
-------	-------------------	------------------	----------

[58]:		Neighborhood La	titude	Neighborhood	l Longitude	Venue	\
	Neighborhood						
	Al Aman		6		6	6	
	Al Dhafrah		32		32	32	
	Al Karama		38		38	38	
	Al Khubeirah		17		17	17	
	Al Lulu Island		1		1	1	
	Al Madina		3		3	3	
	Al Manhal		7		7	7	
	Al Maqtaa		27		27	27	
	Al Markaziyah		39		39	39	
	Al Maryah Island		56		56	56	
	Al Mushrif		4		4	4	
	Al Nahyan		29		29	29	
	Al Reef		12		12	12	
	Al Reem Island		1		1	1	
	Al Rowdah		8		8	8	
	Al Shamkha		2		2	2	
	Al Zahiyah		68		68	68	
	Al Zahraa		4		4	4	
	Bain Al Jisrain		27		27	27	
	Khalifa City		4		4	4	
	Masdar City		6		6	6	
	Mohammed Bin Zayed City		1		1	1	
	Officers City		1		1	1	
	Saadiyat Island		1		1	1	
	Shakhbout City		1		1	1	
	Yas Island		100		100	100	
		Venue Latitude	Venue	Longitude Ve	nue Category		
	Neighborhood						
	Al Aman	6		6	6		
	Al Dhafrah	32		32	32		
	Al Karama	38		38	38		
	Al Khubeirah	17		17	17		

Al Lulu Island	1	1	1
Al Madina	3	3	3
Al Manhal	7	7	7
Al Maqtaa	27	27	27
Al Markaziyah	39	39	39
Al Maryah Island	56	56	56
Al Mushrif	4	4	4
Al Nahyan	29	29	29
Al Reef	12	12	12
Al Reem Island	1	1	1
Al Rowdah	8	8	8
Al Shamkha	2	2	2
Al Zahiyah	68	68	68
Al Zahraa	4	4	4
Bain Al Jisrain	27	27	27
Khalifa City	4	4	4
Masdar City	6	6	6
Mohammed Bin Zayed City	1	1	1
Officers City	1	1	1
Saadiyat Island	1	1	1
Shakhbout City	1	1	1
Yas Island	100	100	100

We see we have a problem with our data here. There are a few neighborhoods with very few entries. We could attempt to increase the radius of search. Or find another data source.

For this exercise we will limit our analysis to those areas with at least 5 businesses.

```
[70]: temp = AD_venues.groupby('Neighborhood').count()
id = temp.index[temp.iloc[:,0] >= 5]

[74]: #mnt[rnt['STK_ID'] isin(stk_list)]
```

```
[74]: #rpt[rpt['STK_ID'].isin(stk_list)]
AD_venues = AD_venues[AD_venues['Neighborhood'].isin(id)]
```

What type of venue is more frequent in each neighborhood?

How are we going to cluster these together? To start to answer these questions, we turn the venues into dummy variables.

We can get the dummies with one hot encoding.

```
[75]: # one hot encoding
AD_onehot = pd.get_dummies(AD_venues[['Venue Category']], prefix="",

→prefix_sep="")

# add neighborhood column back to dataframe
AD_onehot['Neighborhood'] = AD_venues['Neighborhood']

# move neighborhood column to the first column
fixed_columns = [AD_onehot.columns[-1]] + list(AD_onehot.columns[:-1])
```

```
AD_onehot.head()
[75]:
         Women's Store
                          Afghan Restaurant African Restaurant Airport Terminal
                       0
                                           0
                                                                 0
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                                                                        Bakery
         American Restaurant Arcade Asian Restaurant
                                                            BBQ Joint
                                                                                 Beach
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         Bed & Breakfast Bistro
                                     Bookstore
                                                Boutique Bowling Alley
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         Breakfast Spot Buffet Burger Joint Cafeteria Café
                                                                     Candy Store
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         Chinese Restaurant Clothing Store Cocktail Bar Coffee Shop
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         Convenience Store Cosmetics Shop Cupcake Shop Department Store
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```

AD_onehot = AD_onehot[fixed_columns]

Dessert Shop Donut Shop Electronics Store Ethiopian Restaurant \

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   Falafel Restaurant Fast Food Restaurant Filipino Restaurant
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   Fish & Chips Shop Flower Shop Food & Drink Shop Food Court
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   French Restaurant Fried Chicken Joint Furniture / Home Store
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   Go Kart Track Greek Restaurant Grocery Store Gym Gym / Fitness Center
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              Gymnastics Gym
                              Harbor / Marina Health & Beauty Service
   Gym Pool
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   Hookah Bar
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Indian Restaurant
                                         Italian Restaurant
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   Ice Cream Shop
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   Jewelry Store
                   Juice Bar Korean Restaurant Lebanese Restaurant
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                    Lounge Medical Center
                                             Mediterranean Restaurant
   Lingerie Store
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   Mexican Restaurant Middle Eastern Restaurant Miscellaneous Shop
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                         Movie Theater Multiplex
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   Moroccan Restaurant
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              Optical Shop Pakistani Restaurant
   Nightclub
                                                     Park Peruvian Restaurant
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   Pet Store Pharmacy Pizza Place Playground Plaza Pool
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   Residential Building (Apartment / Condo) Resort
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   Sandwich Place Seafood Restaurant Shawarma Place
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   Shopping Mall Snack Place South Indian Restaurant
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   Sporting Goods Shop Sports Bar Steakhouse Supermarket
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   Tennis Court Theater Theme Park
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   Theme Restaurant Toy / Game Store
                                         Turkish Restaurant
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   Vegetarian / Vegan Restaurant Wine Bar
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[76]: AD_grouped = AD_onehot.groupby('Neighborhood').mean().reset_index()
      AD_grouped
[76]:
                             Women's Store
              Neighborhood
                                             Afghan Restaurant
                                                                 African Restaurant
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                Al Dhafrah
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                 Al Magtaa
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          Al Maryah Island
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                 Al Nahyan
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                    Al Reef
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                 Al Rowdah
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           Bain Al Jisrain
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                Yas Island
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          Airport Terminal
                                                            Asian Restaurant
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                                                   Arcade
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          BBQ Joint
                        Bakery
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                                          Bed & Breakfast
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    Boutique
               Bowling Alley
                               Breakfast Spot
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    Cafeteria
                    Café
                           Candy Store
                                                              Clothing Store
                                         Chinese Restaurant
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Cocktail Bar Coffee Shop Convenience Store Cosmetics Shop \

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1		0.031250	0.00000	
2		0.000000	0.02631	
3		0.235294	0.00000	
4		0.142857	0.00000	
5		0.074074	0.03703	
6		0.00000	0.00000	
7		0.071429	0.00000	0.017857
8	0.000000	0.103448	0.03448	3 0.000000
9	0.000000	0.083333	0.08333	3 0.000000
10	0.000000	.250000	0.00000	0.125000
11	0.000000	0.044118	0.00000	0.014706
12	0.037037	.111111	0.00000	0.00000
13	0.000000	0.00000	0.00000	0.000000
14	0.000000	0.070000	0.00000	0.020000
	a 1 a1 b			D
•		artment Store	Dessert Sho	
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2	0.00000	0.000000	0.00000	
3	0.00000	0.000000	0.00000	
4	0.00000	0.000000	0.00000	
5	0.000000	0.000000	0.03703	7 0.000000
6	0.000000	0.025641	0.00000	0 0.025641
7	0.000000	0.000000	0.01785	7 0.000000
8	0.034483	0.000000	0.06896	6 0.000000
9	0.000000	0.000000	0.00000	0.000000
10	0.000000	0.000000	0.00000	0.000000
11	0.000000	0.014706	0.04411	8 0.000000
12	0.000000	0.000000	0.00000	0.000000
13	0.00000	0.000000	0.00000	0.000000
14	0.00000	0.030000	0.01000	
_	Electronics Store	Ethiopian Re		lafel Restaurant \
0	0.000000		0.000000	0.000000
1	0.000000		0.000000	0.031250
2	0.000000		0.000000	0.000000
3	0.000000		0.000000	0.000000
4	0.000000		0.000000	0.000000
5	0.000000		0.000000	0.00000
6	0.000000		0.000000	0.000000
7	0.000000		0.000000	0.000000
8	0.000000		0.000000	0.034483
9	0.000000		0.000000	0.000000
10	0.000000		0.000000	0.000000
11	0.029412		0.014706	0.000000
12	0.000000		0.000000	0.000000
	0.000000			0.00000

13	0.00000		0.00000		0.00	0000		
14	0.010000		0.00000		0.00	0000		
	Fast Food Restaurant	Filinino	Restaurant	Fish	& Chips	Shon	Flower Shop	\
0	0.166667	TITIPINO	0.000000	1 1011	w onipo	0.00	0.000000	`
1	0.062500		0.031250			0.00	0.000000	
2	0.000000		0.000000			0.00	0.000000	
3	0.117647		0.000000			0.00	0.000000	
4	0.000000		0.000000			0.00	0.000000	
5	0.037037		0.000000			0.00	0.000000	
6	0.128205		0.025641			0.00	0.000000	
7	0.000000		0.000000			0.00	0.017857	
8	0.000000		0.000000			0.00	0.068966	
9	0.000000		0.000000			0.00	0.000000	
10	0.000000		0.000000			0.00	0.000000	
11	0.044118		0.000000			0.00	0.000000	
12	0.000000		0.000000			0.00	0.000000	
13	0.166667		0.000000			0.00	0.000000	
14	0.010000		0.000000			0.01	0.000000	
	0.010000		0.00000			0.01	0.00000	
	Food & Drink Shop Foo	d Court	French Rest	aurant	Fried	Chick	en Joint \	
0	0.000000	0.00		000000		0	0.0000	
1	0.000000	0.00		000000			0.0625	
2	0.000000	0.00		000000			0.0000	
3	0.000000	0.00		000000			0.0000	
4	0.000000	0.00		000000			0.0000	
5	0.000000	0.00		037037			0.0000	
6	0.000000	0.00		000000			0.0000	
7	0.000000	0.00		017857			0.0000	
8	0.000000	0.00		034483			0.0000	
9	0.000000	0.00		000000			0.0000	
10	0.000000	0.00		000000			0.0000	
11	0.000000	0.00		014706			0.0000	
12	0.037037	0.00		037037			0.0000	
13	0.000000	0.00		000000			0.0000	
14	0.000000	0.01		010000			0.0000	
	Furniture / Home Store	Gift Sl	hop Go Kart	Track	Greek	Resta	urant \	
0	0.0000		-	0.00			00000	
1	0.0625			0.00			00000	
2	0.0000			0.00			00000	
3	0.0000			0.00			00000	
4	0.0000			0.00			00000	
5	0.0000			0.00			00000	
6	0.0000			0.00			00000	
7	0.0000			0.00			17857	
8	0.0000			0.00			00000	

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9
                                                   0.00
                     0.0000
                              0.000000
                                                                  0.00000
10
                                                   0.00
                     0.0000
                              0.00000
                                                                  0.00000
11
                     0.0000
                              0.014706
                                                   0.00
                                                                  0.000000
12
                     0.0000
                              0.037037
                                                   0.00
                                                                  0.00000
                              0.00000
13
                     0.0000
                                                   0.00
                                                                  0.00000
14
                     0.0300
                              0.010000
                                                   0.01
                                                                  0.010000
    Grocery Store
                              Gym / Fitness Center
                                                      Gym Pool
                                                                 Gymnastics Gym
                         Gym
0
         0.000000
                                           0.000000
                                                      0.000000
                                                                       0.000000
                    0.000000
1
                    0.00000
                                           0.000000
                                                      0.000000
                                                                       0.000000
         0.031250
2
         0.000000
                    0.000000
                                           0.000000
                                                      0.000000
                                                                       0.000000
3
         0.000000
                    0.00000
                                           0.058824
                                                      0.000000
                                                                       0.00000
4
         0.000000
                    0.000000
                                           0.000000
                                                      0.000000
                                                                       0.00000
5
         0.037037
                    0.037037
                                           0.000000
                                                      0.037037
                                                                       0.000000
6
         0.000000
                    0.025641
                                           0.000000
                                                      0.000000
                                                                       0.000000
7
         0.000000
                    0.000000
                                           0.000000
                                                      0.000000
                                                                       0.00000
8
         0.000000
                    0.00000
                                           0.034483
                                                      0.000000
                                                                       0.000000
9
         0.000000
                    0.166667
                                           0.000000
                                                      0.000000
                                                                       0.083333
10
         0.000000
                    0.00000
                                           0.000000
                                                      0.000000
                                                                       0.00000
                                                      0.00000
11
         0.000000
                    0.014706
                                           0.014706
                                                                       0.000000
12
         0.000000
                    0.037037
                                           0.000000
                                                      0.000000
                                                                       0.000000
                                                      0.00000
13
         0.000000
                    0.00000
                                           0.000000
                                                                       0.000000
14
         0.000000
                    0.00000
                                           0.000000
                                                      0.000000
                                                                       0.000000
    Harbor / Marina
                      Health & Beauty Service
                                                                        \
                                                Hookah Bar
                                                               Hostel
0
           0.000000
                                      0.00000
                                                   0.000000
                                                             0.000000
                                                   0.000000
1
           0.000000
                                      0.000000
                                                             0.00000
2
                                      0.00000
                                                   0.000000
                                                             0.00000
           0.000000
3
           0.00000
                                      0.00000
                                                   0.000000
                                                             0.00000
4
                                                             0.000000
           0.00000
                                      0.000000
                                                   0.000000
5
                                                             0.00000
           0.000000
                                      0.000000
                                                   0.000000
6
           0.00000
                                      0.025641
                                                   0.000000
                                                             0.00000
7
           0.000000
                                      0.000000
                                                   0.000000
                                                             0.000000
8
           0.00000
                                      0.00000
                                                   0.000000
                                                             0.00000
9
                                      0.00000
                                                   0.000000
                                                             0.00000
           0.000000
10
           0.00000
                                      0.000000
                                                   0.000000
                                                             0.00000
11
                                      0.00000
                                                   0.014706
                                                             0.014706
           0.00000
12
                                      0.00000
                                                   0.000000
                                                             0.00000
           0.037037
13
           0.000000
                                      0.000000
                                                   0.000000
                                                             0.000000
14
           0.00000
                                      0.00000
                                                   0.020000
                                                             0.00000
    Hot Spring
                    Hotel
                           Hotel Bar
                                       IT Services
                                                     Ice Cream Shop
0
      0.000000
                 0.333333
                            0.00000
                                               0.00
                                                           0.000000
1
      0.000000
                0.031250
                            0.000000
                                              0.00
                                                           0.031250
2
                 0.00000
                                              0.00
      0.00000
                            0.00000
                                                           0.026316
3
                 0.00000
                            0.00000
                                              0.00
      0.000000
                                                           0.058824
4
      0.142857
                 0.142857
                             0.000000
                                              0.00
                                                           0.000000
```

```
5
      0.000000
                0.037037
                            0.000000
                                               0.00
                                                            0.000000
6
      0.000000
                 0.128205
                                               0.00
                                                            0.025641
                            0.025641
7
      0.000000
                 0.017857
                             0.000000
                                               0.00
                                                            0.000000
8
      0.000000
                 0.000000
                             0.00000
                                               0.00
                                                            0.000000
9
      0.000000
                 0.000000
                                               0.00
                             0.000000
                                                            0.000000
10
      0.000000
                 0.00000
                             0.00000
                                               0.00
                                                            0.000000
11
      0.000000
                 0.058824
                             0.000000
                                               0.00
                                                            0.029412
12
      0.000000
                 0.074074
                             0.000000
                                               0.00
                                                            0.000000
13
      0.000000
                 0.000000
                             0.000000
                                               0.00
                                                            0.00000
14
                 0.000000
      0.000000
                             0.000000
                                               0.01
                                                            0.010000
    Indian Restaurant
                                                                    Jewelry Store
                        Italian Restaurant
                                              Japanese Restaurant
0
             0.000000
                                   0.00000
                                                          0.00000
                                                                          0.00000
1
             0.062500
                                   0.00000
                                                          0.00000
                                                                          0.000000
2
                                   0.00000
                                                                          0.000000
             0.447368
                                                          0.026316
3
             0.000000
                                   0.000000
                                                          0.000000
                                                                          0.000000
4
             0.000000
                                   0.000000
                                                          0.000000
                                                                          0.000000
5
             0.037037
                                   0.037037
                                                          0.000000
                                                                          0.000000
6
             0.025641
                                   0.051282
                                                          0.00000
                                                                          0.00000
7
             0.017857
                                   0.035714
                                                          0.017857
                                                                          0.035714
8
             0.00000
                                   0.034483
                                                          0.00000
                                                                          0.00000
9
             0.000000
                                   0.000000
                                                          0.000000
                                                                          0.000000
10
             0.00000
                                   0.00000
                                                          0.000000
                                                                          0.000000
11
             0.073529
                                   0.000000
                                                          0.000000
                                                                          0.000000
12
             0.037037
                                   0.074074
                                                          0.037037
                                                                          0.000000
13
             0.000000
                                   0.166667
                                                          0.000000
                                                                          0.000000
                                                          0.010000
                                                                          0.00000
14
              0.010000
                                   0.040000
    Juice Bar
                Korean Restaurant
                                    Lebanese Restaurant
                                                           Lingerie Store
                                                                           \
0
     0.000000
                                                                     0.00
                         0.00000
                                                0.00000
1
                                                                     0.00
     0.000000
                         0.000000
                                                0.000000
2
                                                                     0.00
     0.00000
                         0.026316
                                                0.00000
3
                                                                     0.00
     0.058824
                         0.000000
                                                0.000000
4
     0.00000
                         0.00000
                                                0.00000
                                                                     0.00
5
     0.00000
                                                                     0.00
                         0.000000
                                                0.000000
6
     0.00000
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                                                0.000000
                                                                     0.00
     0.00000
7
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                         0.00000
                                                0.00000
8
     0.00000
                                                                     0.00
                         0.034483
                                                0.000000
9
     0.000000
                         0.000000
                                                0.000000
                                                                     0.00
10
                                                                     0.00
     0.000000
                         0.00000
                                                0.00000
11
     0.014706
                         0.00000
                                                0.000000
                                                                     0.00
12
     0.000000
                         0.00000
                                                0.037037
                                                                     0.00
13
                                                                     0.00
     0.000000
                         0.000000
                                                0.000000
14
     0.010000
                         0.000000
                                                0.000000
                                                                     0.01
               Medical Center
                                Mediterranean Restaurant
      Lounge
                                                            Mexican Restaurant
                                                                                 \
0
    0.000000
                     0.000000
                                                 0.000000
                                                                       0.000000
```

1 2 3 4 5 6 7 8 9 10 11 12 13	0.000000 0.000000 0.000000 0.000000 0.0025641 0.035714 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.000000 0.000000 0.142857 0.000000 0.000000 0.000000 0.000000 0.000000		0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0000 0000 0000 0000 0000 7857 0000 0000	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	00000 00000 00000 00000 00000 35714 00000 00000 00000 00000
14	0.000000	0.000000		0.000	0000	0.0	00000
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Middle Eastern	Restaurant 0.000000 0.156250 0.026316 0.058824 0.000000 0.074074 0.000000 0.035714 0.034483 0.000000 0.000000 0.088235 0.037037 0.000000 0.020000		eous Shop 0.000000 0.000000 0.000000 0.000000 0.000000	Moroccan	Restauran 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000	0 0 0 0 0 0 0 1 0 0 0 0 0
0 1 2 3 4 5 6 7 8 9 10 11 12 13	Movie Theater 0.000000 0.062500 0.000000 0.000000 0.000000 0.025641 0.000000 0.000000 0.000000 0.000000 0.000000	Multiplex 0.000000 0.000000 0.000000 0.000000 0.000000	Nail Salon 0.000000 0.000000 0.000000 0.000000 0.000000	Nightclul 0.000000 0.000000 0.000000 0.000000 0.000000	0 0 0 0 0 0 0 0 0 0 0 0 0	Shop \ 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	

14 0.030000 0.000000 0.000000 0.000000 0.01

	Pakistani R	estaurant	Park	Peruvian	Restaurant	Pet Store	Pharmacy	\
0		0.000000	0.000000		0.000000	0.000000	0.000000	
1		0.000000	0.00000		0.000000	0.000000	0.000000	
2		0.026316	0.026316		0.000000	0.000000	0.000000	
3		0.000000	0.00000		0.000000	0.000000	0.000000	
4		0.000000	0.00000		0.000000	0.000000	0.000000	
5		0.000000	0.000000		0.000000	0.000000	0.037037	
6		0.000000	0.025641		0.000000	0.000000	0.000000	
7		0.000000	0.000000		0.017857	0.000000	0.000000	
8		0.000000	0.000000		0.000000	0.000000	0.000000	
9		0.000000	0.000000		0.000000	0.083333	0.000000	
10		0.000000	0.000000		0.000000	0.000000	0.000000	
11		0.000000	0.000000		0.000000	0.000000	0.000000	
12		0.000000	0.000000		0.000000	0.000000	0.000000	
13		0.000000	0.000000		0.000000	0.000000	0.000000	
14		0.000000	0.000000		0.000000	0.000000	0.000000	
14		0.000000	0.000000		0.000000	0.000000	0.000000	
	Diggs Dlags	Dlarrmmann	ıd Pla	To Do	.al D	ub Racetrac	.1- \	
0	Pizza Place 0.000000	Playgrour 0.00000						
0								
1	0.031250	0.00000						
2	0.000000	0.00000						
3	0.000000	0.00000						
4	0.000000							
5	0.037037	0.00000						
6	0.000000	0.00000						
7	0.000000	0.00000						
8	0.034483	0.00000						
9	0.083333	0.00000						
10	0.000000	0.00000						
11	0.029412	0.01470						
12	0.000000	0.00000						
13	0.000000	0.00000	0.0000	00 0.0000	0.0000	0.0	00	
14	0.010000	0.00000	0.0000	00 0.0000	0.0000	0.0)1	
	Residential	Building (Apartment	/ Condo)	Resort	Restaurant	\	
0				0.000000	0.000000	0.000000		
1				0.000000	0.000000	0.000000		
2				0.000000	0.000000	0.026316		
3				0.000000	0.00000	0.000000		
4				0.000000	0.000000	0.000000		
5				0.000000	0.037037	0.037037		
6				0.000000	0.025641	0.025641		
7				0.017857	0.017857	0.000000		
8				0.000000	0.000000	0.000000		
9				0.083333	0.000000	0.000000		

```
10
                                      0.000000
                                                0.000000
                                                              0.000000
11
                                      0.000000
                                                 0.000000
                                                              0.014706
12
                                      0.00000
                                                 0.000000
                                                              0.037037
13
                                      0.000000
                                                 0.000000
                                                              0.000000
14
                                      0.000000
                                                 0.010000
                                                              0.00000
    Sandwich Place
                     Seafood Restaurant
                                          Shawarma Place
                                                           Shoe Store
0
          0.166667
                                0.00000
                                                 0.000000
                                                              0.00000
1
          0.00000
                                                 0.000000
                                0.031250
                                                              0.000000
2
          0.000000
                                0.00000
                                                 0.000000
                                                              0.000000
3
          0.000000
                                0.000000
                                                 0.058824
                                                              0.000000
4
          0.00000
                                0.00000
                                                 0.00000
                                                              0.00000
5
          0.00000
                                0.00000
                                                 0.000000
                                                              0.000000
6
          0.000000
                                0.025641
                                                 0.000000
                                                              0.00000
7
          0.000000
                                0.000000
                                                 0.000000
                                                              0.017857
8
          0.034483
                                0.034483
                                                 0.000000
                                                              0.000000
9
          0.00000
                                0.00000
                                                 0.000000
                                                              0.00000
10
          0.000000
                                0.000000
                                                 0.000000
                                                              0.000000
11
          0.014706
                                0.00000
                                                 0.00000
                                                              0.000000
12
          0.000000
                                0.00000
                                                 0.000000
                                                              0.00000
13
          0.00000
                                0.00000
                                                 0.000000
                                                              0.000000
                                0.00000
14
          0.020000
                                                 0.00000
                                                              0.000000
                                  South Indian Restaurant
    Shopping Mall
                    Snack Place
                                                                  Spa
0
         0.000000
                        0.00000
                                                             0.00000
                                                  0.000000
1
         0.000000
                        0.03125
                                                  0.000000
                                                             0.00000
2
         0.000000
                        0.00000
                                                  0.026316
                                                             0.00000
3
                        0.00000
                                                  0.000000
         0.000000
                                                             0.00000
4
         0.000000
                        0.00000
                                                  0.00000
                                                             0.00000
5
                                                  0.000000
         0.037037
                        0.00000
                                                             0.00000
6
                        0.00000
                                                  0.000000
         0.000000
                                                             0.000000
7
         0.017857
                        0.00000
                                                  0.000000
                                                             0.017857
8
                                                  0.00000
         0.000000
                        0.00000
                                                             0.000000
9
         0.000000
                        0.00000
                                                  0.000000
                                                             0.00000
10
         0.000000
                        0.00000
                                                  0.000000
                                                             0.00000
11
         0.029412
                        0.00000
                                                  0.000000
                                                             0.00000
12
         0.037037
                        0.00000
                                                  0.000000
                                                             0.074074
13
         0.166667
                        0.00000
                                                  0.000000
                                                             0.00000
14
         0.010000
                        0.00000
                                                  0.000000
                                                            0.000000
    Sporting Goods Shop
                          Sports Bar
                                       Steakhouse
                                                    Supermarket
0
                    0.00
                            0.000000
                                         0.000000
                                                       0.000000
1
                    0.00
                            0.00000
                                         0.00000
                                                       0.00000
2
                    0.00
                            0.000000
                                         0.000000
                                                       0.026316
3
                    0.00
                            0.00000
                                         0.00000
                                                       0.058824
4
                    0.00
                            0.00000
                                         0.000000
                                                       0.000000
5
                    0.00
                             0.000000
                                         0.00000
                                                       0.00000
```

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6
                    0.00
                             0.025641
                                          0.00000
                                                        0.00000
7
                    0.00
                             0.00000
                                          0.035714
                                                        0.017857
8
                    0.00
                             0.000000
                                          0.000000
                                                        0.000000
9
                    0.00
                             0.00000
                                          0.00000
                                                        0.00000
10
                    0.00
                             0.00000
                                          0.00000
                                                        0.000000
11
                    0.00
                             0.00000
                                          0.00000
                                                        0.00000
12
                    0.00
                             0.000000
                                          0.037037
                                                        0.000000
13
                    0.00
                             0.00000
                                          0.00000
                                                        0.166667
                             0.00000
14
                    0.04
                                          0.030000
                                                        0.010000
    Sushi Restaurant
                       Tennis Court
                                       Theater
                                                 Theme Park
0
             0.000000
                            0.000000
                                          0.00
                                                       0.00
                                                       0.00
1
             0.000000
                            0.000000
                                          0.00
2
             0.000000
                            0.000000
                                          0.00
                                                       0.00
3
                                                       0.00
             0.000000
                            0.00000
                                          0.00
4
             0.000000
                            0.000000
                                          0.00
                                                       0.00
5
                                          0.00
                                                       0.00
             0.000000
                            0.000000
6
                                          0.00
                                                       0.00
             0.000000
                            0.000000
7
             0.035714
                            0.00000
                                          0.00
                                                       0.00
8
             0.000000
                            0.000000
                                          0.00
                                                       0.00
9
                                                       0.00
             0.000000
                            0.083333
                                          0.00
10
                                          0.00
                                                       0.00
             0.000000
                            0.00000
11
             0.00000
                            0.00000
                                          0.00
                                                       0.00
12
             0.00000
                            0.00000
                                          0.00
                                                       0.00
13
                                          0.00
                                                       0.00
             0.166667
                            0.00000
14
             0.000000
                            0.000000
                                          0.01
                                                       0.03
    Theme Park Ride / Attraction
                                    Theme Restaurant
                                                        Toy / Game Store
0
                              0.00
                                             0.00000
                                                                     0.00
1
                              0.00
                                             0.00000
                                                                     0.00
2
                              0.00
                                                                     0.00
                                             0.026316
3
                                                                     0.00
                              0.00
                                             0.00000
4
                                                                     0.00
                              0.00
                                             0.000000
5
                              0.00
                                             0.00000
                                                                     0.00
6
                              0.00
                                                                     0.00
                                             0.000000
7
                              0.00
                                             0.000000
                                                                     0.00
8
                              0.00
                                                                     0.00
                                             0.000000
9
                              0.00
                                             0.00000
                                                                     0.00
10
                              0.00
                                             0.000000
                                                                     0.00
11
                              0.00
                                                                     0.00
                                             0.000000
12
                              0.00
                                             0.000000
                                                                     0.00
13
                              0.00
                                             0.000000
                                                                     0.00
14
                              0.12
                                             0.00000
                                                                     0.03
    Turkish Restaurant
                          Vegetarian / Vegan Restaurant
                                                           Wine Bar
0
                0.00000
                                                 0.000000
                                                           0.00000
1
                                                 0.000000
                0.03125
                                                           0.00000
```

```
2
               0.00000
                                              0.026316 0.000000
3
               0.00000
                                              0.000000
                                                        0.00000
4
               0.00000
                                              0.000000
                                                        0.00000
5
               0.00000
                                              0.000000
                                                        0.00000
6
               0.00000
                                              0.000000 0.000000
7
               0.00000
                                              0.000000
                                                        0.017857
8
               0.00000
                                              0.000000
                                                        0.00000
9
               0.00000
                                              0.000000
                                                        0.000000
                                              0.000000 0.000000
10
               0.00000
11
               0.00000
                                              0.000000
                                                        0.014706
12
               0.00000
                                              0.000000
                                                        0.000000
13
               0.00000
                                              0.000000 0.000000
14
               0.00000
                                              0.000000 0.000000
```

We now have the frequency for each neighborhood. What are the top 5 venues for each neighborhood?

venue freq

Hotel 0.33

```
0
```

----Al Aman----

1 Fast Food Restaurant 0.17 2 Coffee Shop 0.17

3 Sandwich Place 0.17 4 Café 0.17

----Al Dhafrah----

```
venue freq
0 Middle Eastern Restaurant 0.16
1 Café 0.09
2 Movie Theater 0.06
3 Fried Chicken Joint 0.06
4 Fast Food Restaurant 0.06
```

----Al Karama---venue freq Indian Restaurant 0.45 Asian Restaurant 0.11 2 Bakery 0.08 Supermarket 0.03 3 Park 0.03 ----Al Khubeirah---venue freq 0 Coffee Shop 0.24 1 Café 0.24 Fast Food Restaurant 0.12 Supermarket 0.06 4 Shawarma Place 0.06 ----Al Manhal---venue freq Café 0.43 Hotel 0.14 1 Hot Spring 0.14 3 Medical Center 0.14 Coffee Shop 0.14 ----Al Maqtaa---venue freq 0 Café 0.19 1 Middle Eastern Restaurant 0.07 2 Coffee Shop 0.07 3 Burger Joint 0.04 4 French Restaurant 0.04 ----Al Markaziyah---venue freq 0 Fast Food Restaurant 0.13 1 Hotel 0.13 2 Café 0.08 3 Asian Restaurant 0.05 4 Italian Restaurant 0.05 ----Al Maryah Island----

venue freq

Café 0.09

0

```
Coffee Shop 0.07
2 Mexican Restaurant
                     0.04
3
       Jewelry Store 0.04
4
    Sushi Restaurant 0.04
----Al Nahyan----
         venue freq
          Café 0.17
   Coffee Shop 0.10
1
   Flower Shop 0.07
        Bakery 0.07
3
  Dessert Shop 0.07
----Al Reef----
                                     venue freq
0
                                      Pool 0.25
1
                                       Gym 0.17
2
                              Tennis Court 0.08
                                 Pet Store 0.08
3
4 Residential Building (Apartment / Condo) 0.08
----Al Rowdah----
           venue freq
            Café 0.62
0
     Coffee Shop 0.25
1
  Cosmetics Shop 0.12
3
  Women's Store 0.00
       Multiplex 0.00
----Al Zahiyah----
                      venue freq
0 Middle Eastern Restaurant 0.09
1
          Indian Restaurant 0.07
2
                      Hotel 0.06
3
               Dessert Shop 0.04
       Fast Food Restaurant 0.04
----Bain Al Jisrain----
                venue freq
0
          Coffee Shop 0.11
1
                  Spa 0.07
2
   Italian Restaurant 0.07
```

Hotel 0.07

3

4 Lebanese Restaurant 0.04

```
----Masdar City----
                 venue freq
0
         Shopping Mall 0.17
1
      Sushi Restaurant 0.17
    Italian Restaurant 0.17
3 Fast Food Restaurant 0.17
                  Café 0.17
----Yas Island----
                         venue freq
  Theme Park Ride / Attraction 0.12
1
                          Café 0.11
2
                   Coffee Shop 0.07
3
            Italian Restaurant 0.04
           Sporting Goods Shop 0.04
```

Let's put this information in a dataframe, with the top 5 most common venues for each neighborhood.

```
[78]: #This function sorts the venues in descending order
def return_most_common_venues(row, num_top_venues):
    row_categories = row.iloc[1:]
    row_categories_sorted = row_categories.sort_values(ascending=False)
    return row_categories_sorted.index.values[0:num_top_venues]
```

```
[79]: num_top_venues = 5

indicators = ['st', 'nd', 'rd']

# create columns according to number of top venues
columns = ['Neighborhood']
for ind in np.arange(num_top_venues):
    try:
        columns.append('{}{} Most Common Venue'.format(ind+1, indicators[ind]))
    except:
        columns.append('{}th Most Common Venue'.format(ind+1))

# create a new dataframe
neighborhoods_venues_sorted = pd.DataFrame(columns=columns)
neighborhoods_venues_sorted['Neighborhood'] = AD_grouped['Neighborhood']
```

```
for ind in np.arange(AD_grouped.shape[0]):
    neighborhoods_venues_sorted.iloc[ind, 1:] =
    return_most_common_venues(AD_grouped.iloc[ind, :], num_top_venues)
neighborhoods_venues_sorted.head()
```

Coffee Shop

Hotel

e \	Most Common Venue	2nd Mo	Common Venue	1st Most	Neighborhood	[79]:
p	Coffee Shop		Hotel		Al Aman	0
é	Café		n Restaurant	Middle Easte	Al Dhafrah	1
t	Asian Restaurant	1	n Restaurant	Indi	Al Karama	2
p	Coffee Shop		Café		Al Khubeirah	3
<u>z</u>	Hot Spring		Café		Al Manhal	4
Venue	5th Most Common	Venue !	Most Common	on Venue 4th	3rd Most Common	
Café		Place	Sandwich	staurant	Fast Food Rest	0
aurant	Fast Food Resta	Store	ture / Home	en Joint Furn	Fried Chicker	1
eteria	Cafe	Shop	Ice Cream	Bakery		2
Center	Gvm / Fitness C	Shop	Donut	staurant	Fast Food Rest	3

Let's have a look at the whole thing...

Medical Center

[80]: neighborhoods_venues_sorted

[80]:	Neighborhood	1st Most Common Venue 2nd Most Common Venue \
0	Al Aman	Hotel Coffee Shop
1	Al Dhafrah	Middle Eastern Restaurant Café
2	Al Karama	Indian Restaurant Asian Restaurant
3	Al Khubeirah	Café Coffee Shop
4	Al Manhal	Café Hot Spring
5	Al Maqtaa	Café Coffee Shop
6	Al Markaziyah	Fast Food Restaurant Hotel
7	Al Maryah Island	Café Coffee Shop
8	Al Nahyan	Café Coffee Shop
9	Al Reef	Pool Gym
10	Al Rowdah	Café Coffee Shop
11	Al Zahiyah	Middle Eastern Restaurant Indian Restaurant
12	Bain Al Jisrain	Coffee Shop Spa
13	Masdar City	Sushi Restaurant Italian Restaurant
14	Yas Island	Theme Park Ride / Attraction Café
	0 1 M + G	W 411 W 4 G W 511 W 4 G W
0	3rd Most Comm	
0	Fast Food Re	
1	Fried Chick	
2		Bakery Ice Cream Shop Cafeteria
3	Fast Food Re	estaurant Donut Shop Gym / Fitness Center
4	Medica	al Center Coffee Shop Hotel

5	Middle Eastern Restaurant	Pharmacy	Shopping Mall
6	Café	Italian Restaurant	Asian Restaurant
7	Sushi Restaurant	Middle Eastern Restaurant	American Restaurant
8	Dessert Shop	Flower Shop	Bakery
9	Pizza Place	Convenience Store	Coffee Shop
10	Cosmetics Shop	Wine Bar	Donut Shop
11	Hotel	Coffee Shop	Fast Food Restaurant
12	Hotel	Italian Restaurant	Lebanese Restaurant
13	Café	Supermarket	Fast Food Restaurant
14	Coffee Shop	Clothing Store	Sporting Goods Shop

Now we can attempt to cluster these neighborhoods based on how similar its businesses are.

```
[81]: # set number of clusters
kclusters = 5

AD_grouped_clustering = AD_grouped.drop('Neighborhood', 1)

# run k-means clustering
kmeans = KMeans(n_clusters=kclusters, random_state=0).fit(AD_grouped_clustering)

# check cluster labels generated for each row in the dataframe
kmeans.labels_[0:5]
```

```
[81]: array([0, 1, 3, 1, 2], dtype=int32)
```

```
[82]:
                                                            1st Most Common Venue \
       Neighborhood
                         Lat
                                  Lon
                                       Cluster_Labels
            Al Aman
                      24.432 54.4266
                                                  0.0
                                                                           Hotel
      1
          Al Bateen 24.2151 55.6263
                                                  NaN
      2
         Al Dhafrah 24.4761 54.3694
                                                  1.0 Middle Eastern Restaurant
      3
           Al Falah 24.4447 54.7282
                                                  NaN
                                                                             NaN
           Al Karama 25.2444 55.3048
                                                  3.0
                                                                Indian Restaurant
       2nd Most Common Venue 3rd Most Common Venue
                                                     4th Most Common Venue \
      0
                 Coffee Shop Fast Food Restaurant
                                                            Sandwich Place
      1
                          NaN
                                                NaN
                                                                        NaN
```

```
3
                            NaN
                                                    NaN
                                                                              NaN
      4
              Asian Restaurant
                                                 Bakery
                                                                  Ice Cream Shop
        5th Most Common Venue
      0
                           Café
      1
                            NaN
         Fast Food Restaurant
      3
                            NaN
      4
                     Cafeteria
[83]:
      AD_merged
[83]:
                                                         Cluster_Labels
                      Neighborhood
                                          Lat
                                                    Lon
      0
                            Al Aman
                                       24.432
                                               54.4266
                                                                      0.0
      1
                                      24.2151
                                               55.6263
                          Al Bateen
                                                                     NaN
      2
                         Al Dhafrah
                                      24.4761
                                                                     1.0
                                               54.3694
      3
                           Al Falah
                                      24.4447
                                                54.7282
                                                                     NaN
      4
                                      25.2444
                                                                     3.0
                          Al Karama
                                                55.3048
                       Al Khubeirah
      5
                                      24.4652
                                                54.3368
                                                                      1.0
      6
                    Al Lulu Island
                                      24.4996
                                                54.3457
                                                                     NaN
      7
                          Al Madina
                                      24.3409
                                               54.4907
                                                                     NaN
      8
                  Al Maryah Island
                                      24.5021
                                               54.3902
                                                                      1.0
      9
                          Al Manhal
                                      24.4666
                                                 54.366
                                                                     2.0
      10
                          Al Maqtaa
                                      24.4346
                                               54.4544
                                                                      1.0
      11
                     Al Markaziyah
                                      24.4933
                                                54.3667
                                                                      1.0
      12
                         Al Mushrif
                                      24.4369
                                                54.391
                                                                     NaN
      13
                          Al Nahyan
                                      24.4684
                                                54.3852
                                                                      1.0
                                                54.6737
      14
                            Al Reef
                                      24.4577
                                                                      4.0
      15
                    Al Reem Island
                                      24.4867
                                               54.4105
                                                                     NaN
      16
                          Al Rowdah
                                      24.4564
                                               54.3596
                                                                     2.0
      17
                         Al Shamkha
                                      24.3885
                                                54.7184
                                                                     NaN
      18
                         Al Zahiyah
                                      24.4933
                                                54.3799
                                                                     1.0
      19
                          Al Zahraa
                                      24.4392
                                               54.4352
                                                                     NaN
      20
                   Bain Al Jisrain
                                      24.4092
                                                54.4954
                                                                     1.0
      21
                      Khalifa City
                                      24.4214
                                               54.5774
                                                                     NaN
      22
                                                                     1.0
                       Masdar City
                                      24.4259
                                               54.6193
      23
          Mohammed Bin Zayed City
                                      24.3279
                                                54.5624
                                                                     NaN
      24
                   Saadiyat Island
                                      24.5303
                                                54.4409
                                                                     NaN
      25
                    Shakhbout City
                                      24.3622
                                                 54.631
                                                                     NaN
      26
                     Officers City
                                      24.3824
                                                 54.535
                                                                     NaN
                       Qasr El Bahr
      27
                                      24.4746
                                                54.3966
                                                                     NaN
      28
                         Yas Island
                                      24.4864
                                               54.6091
                                                                      1.0
                  1st Most Common Venue 2nd Most Common Venue
      0
                                   Hotel
                                                     Coffee Shop
      1
                                      NaN
                                                              NaN
```

Fried Chicken Joint

Furniture / Home Store

2

Café

2	Middle Eastern	Restaura	nt Café	
3		Na	aN NaN	
4	Indian	Restaura	nt Asian Restaurant	
5		Cat	fé Coffee Shop	
6		Na	aN NaN	
7		Na	aN NaN	
8		Cat	fé Coffee Shop	
9		Cat	fé Hot Spring	
10		Car	fé Coffee Shop	
11	Fast Food			
12		Na		
13		Cai	•	
14		Poo	•	
15		Na		
16		Cat	•	
17	M: 111 - E+	Na Daataaaa		
18	Middle Eastern			
19	C	Na Joffee Cha		
20 21	C	offee Sho Na	•	
22	Sughi	Restaura		
23	Susiii	Na Na		
23 24		Na		
25		Na		
26		Na		
27		Na		
28	Theme Park Ride /			
	3rd Most Commo	n Venue	4th Most Common Venue	5th Most Common Venue
0	Fast Food Res	taurant	Sandwich Place	Café
1		NaN	NaN	NaN
2	Fried Chicke	n Joint	Furniture / Home Store	Fast Food Restaurant
3		NaN	NaN	NaN
4		Bakery	Ice Cream Shop	Cafeteria
5	Fast Food Res		Donut Shop	•
6		NaN	NaN	NaN
7		NaN	NaN	NaN
8	Sushi Res		Middle Eastern Restaurant	American Restaurant
9	Medical		Coffee Shop	Hotel
10	Middle Eastern Res		Pharmacy	Shopping Mall
11		Café N-N	Italian Restaurant	Asian Restaurant
12	D -	NaN	NaN	NaN
13		rt Shop	Flower Shop	Bakery Coffee Shor
14	P1ZZ	a Place	Convenience Store	Coffee Shop
15 16	Coamati	NaN ca Shop	NaN Wina Par	NaN Danut Shan
16	Cosmeti	_	Wine Bar	Donut Shop
17		NaN	NaN	NaN

18	Hotel	Coffee Shop	Fast Food Restaurant
19	NaN	NaN	NaN
20	Hotel	Italian Restaurant	Lebanese Restaurant
21	NaN	NaN	NaN
22	Café	Supermarket	Fast Food Restaurant
23	NaN	NaN	NaN
24	NaN	NaN	NaN
25	NaN	NaN	NaN
26	NaN	NaN	NaN
27	NaN	NaN	NaN
28	Coffee Shop	Clothing Store	Sporting Goods Shop

Since we used our original dataframe some of the neighborhoods in which no venues were found on Foursquare reappeared here.

Let's drop these NA's. Also we will change the cluster values to integer.

```
[84]: AD_merged=AD_merged.dropna()
AD_merged['Cluster_Labels'] = AD_merged.Cluster_Labels.astype(int)
```

/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages/ipykernel_launcher.py:2: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy

[85]: AD_merged

```
[85]:
              Neighborhood
                                              Cluster_Labels
                                Lat
                                          Lon
      0
                   Al Aman
                             24.432
                                     54.4266
                                                            0
      2
                Al Dhafrah 24.4761
                                     54.3694
                                                            1
      4
                 Al Karama 25.2444
                                     55.3048
                                                            3
      5
              Al Khubeirah 24.4652
                                     54.3368
                                                            1
      8
          Al Maryah Island 24.5021 54.3902
                                                            1
                                                            2
      9
                 Al Manhal
                            24.4666
                                      54.366
      10
                 Al Magtaa 24.4346 54.4544
      11
             Al Markaziyah 24.4933
                                     54.3667
                                                            1
      13
                 Al Nahyan 24.4684
                                     54.3852
                                                            1
      14
                   Al Reef 24.4577
                                     54.6737
                                                            4
      16
                 Al Rowdah 24.4564
                                     54.3596
                                                            2
      18
                Al Zahiyah 24.4933
                                                            1
                                     54.3799
      20
           Bain Al Jisrain 24.4092
                                     54.4954
                                                            1
      22
               Masdar City
                            24.4259
                                     54.6193
                                                            1
      28
                Yas Island 24.4864
                                     54.6091
                                                            1
```

```
1st Most Common Venue 2nd Most Common Venue
0
                            Hotel
                                             Coffee Shop
2
       Middle Eastern Restaurant
                                                    Café
4
                Indian Restaurant
                                        Asian Restaurant
5
                                             Coffee Shop
                             Café
8
                             Café
                                             Coffee Shop
9
                             Café
                                              Hot Spring
10
                             Café
                                             Coffee Shop
11
            Fast Food Restaurant
                                                   Hotel
13
                             Café
                                             Coffee Shop
14
                             Pool
                                                     Gym
16
                             Café
                                             Coffee Shop
18
       Middle Eastern Restaurant
                                      Indian Restaurant
20
                      Coffee Shop
                                                     Spa
22
                Sushi Restaurant
                                      Italian Restaurant
28
    Theme Park Ride / Attraction
                                                    Café
        3rd Most Common Venue
                                    4th Most Common Venue 5th Most Common Venue
0
         Fast Food Restaurant
                                            Sandwich Place
                                                                              Café
2
          Fried Chicken Joint
                                   Furniture / Home Store
                                                            Fast Food Restaurant
4
                        Bakery
                                            Ice Cream Shop
                                                                        Cafeteria
         Fast Food Restaurant
5
                                                Donut Shop
                                                             Gym / Fitness Center
8
             Sushi Restaurant
                                Middle Eastern Restaurant
                                                              American Restaurant
9
               Medical Center
                                               Coffee Shop
                                                                            Hotel
    Middle Eastern Restaurant
                                                                    Shopping Mall
10
                                                  Pharmacy
11
                          Café
                                        Italian Restaurant
                                                                 Asian Restaurant
                 Dessert Shop
13
                                               Flower Shop
                                                                           Bakery
                  Pizza Place
                                         Convenience Store
14
                                                                      Coffee Shop
16
               Cosmetics Shop
                                                  Wine Bar
                                                                       Donut Shop
18
                         Hotel
                                               Coffee Shop
                                                             Fast Food Restaurant
20
                         Hotel
                                        Italian Restaurant
                                                              Lebanese Restaurant
22
                          Café
                                               Supermarket
                                                             Fast Food Restaurant
28
                  Coffee Shop
                                            Clothing Store
                                                              Sporting Goods Shop
```

Now we can map the neighborhoods differentiating the clusters with different colors.

```
[86]: # create map
map_clusters = folium.Map(location=[latitude, longitude], zoom_start=11)

# set color scheme for the clusters
x = np.arange(kclusters)
ys = [i + x + (i*x)**2 for i in range(kclusters)]
colors_array = cm.rainbow(np.linspace(0, 1, len(ys)))
rainbow = [colors.rgb2hex(i) for i in colors_array]

# add markers to the map
markers colors = []
```

```
for lat, lon, poi, cluster in zip(AD_merged['Lat'], AD_merged['Lon'],

→AD_merged['Neighborhood'], AD_merged['Cluster_Labels']):
    label = folium.Popup(str(poi) + ' Cluster ' + str(cluster), parse_html=True)
    folium.CircleMarker(
        [lat, lon],
        radius=5,
        popup=label,
        color=rainbow[cluster-1],
        fill=True,
        fill_color=rainbow[cluster-1],
        fill_opacity=0.7).add_to(map_clusters)
```

[86]: <folium.folium.Map at 0x7fb4ca8455f8>

Let's inspect cluster 1, the most common one.

```
[87]: AD_merged.loc[AD_merged['Cluster_Labels'] == 1, AD_merged.columns[[0] +_\_ \liminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsliminsli
```

\

[87]:		Neighborhood	1st Most Common Venue 2	2nd Most Common Venue 🛝
	2	Al Dhafrah	Middle Eastern Restaurant	Café
	5	Al Khubeirah	Café	Coffee Shop
	8	Al Maryah Island	Café	Coffee Shop
	10	Al Maqtaa	Café	Coffee Shop
	11	Al Markaziyah	Fast Food Restaurant	Hotel
	13	Al Nahyan	Café	Coffee Shop
	18	Al Zahiyah	Middle Eastern Restaurant	Indian Restaurant
	20	Bain Al Jisrain	Coffee Shop	Spa
	22	Masdar City	Sushi Restaurant	Italian Restaurant
	28	Yas Island	Theme Park Ride / Attraction	Café

	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue
2	Fried Chicken Joint	Furniture / Home Store	Fast Food Restaurant
5	Fast Food Restaurant	Donut Shop	Gym / Fitness Center
8	Sushi Restaurant	Middle Eastern Restaurant	American Restaurant
10	Middle Eastern Restaurant	Pharmacy	Shopping Mall
11	Café	Italian Restaurant	Asian Restaurant
13	Dessert Shop	Flower Shop	Bakery
18	Hotel	Coffee Shop	Fast Food Restaurant
20	Hotel	Italian Restaurant	Lebanese Restaurant
22	Café	Supermarket	Fast Food Restaurant
28	Coffee Shop	Clothing Store	Sporting Goods Shop

We can already get some insights from this table. We see that our business idea, a coffee shop, is very present is most areas. But let's take a look at Al Zahiyah.

```
[88]: AD_merged.loc[AD_merged['Neighborhood'] == 'Al Zahiyah']
[88]:
         Neighborhood
                                    Lon Cluster Labels
                                                              1st Most Common Venue
                           Lat
                                                         Middle Eastern Restaurant
           Al Zahiyah
                       24.4933
                                54.3799
         2nd Most Common Venue 3rd Most Common Venue 4th Most Common Venue
      18
             Indian Restaurant
                                               Hotel
                                                                Coffee Shop
         5th Most Common Venue
      18 Fast Food Restaurant
```

Ok, coffee shop appears only in 4th place. So perhaps there is an opportunity here. This could give a potential business owner a starting point to hers/his research.

I would like to remove coffee shops from the equation and recluster (is that a word?) the neighborhoods. It would be nice to see if maybe we get different neighborhoods that might be clustered together, which could suggest that a coffee shop would be a good investment in area X, because neighborhood Y has a couple, but it was clustered together with X when we removed coffee shops.

However, our current database does not have enough venues to attemp this.

Before we go, let's take a look at our other clusters.

```
[89]: AD_merged.loc[AD_merged['Cluster_Labels'] == 0, AD_merged.columns[[0] +
       →list(range(4, AD_merged.shape[1]))]]
[89]:
       Neighborhood 1st Most Common Venue 2nd Most Common Venue \
             Al Aman
                                     Hotel
      0
                                                     Coffee Shop
        3rd Most Common Venue 4th Most Common Venue 5th Most Common Venue
      0 Fast Food Restaurant
                                     Sandwich Place
                                                                      Café
[90]: AD_merged.loc[AD_merged['Cluster_Labels'] == 2, AD_merged.columns[[0] +
       →list(range(4, AD_merged.shape[1]))]]
[90]:
         Neighborhood 1st Most Common Venue 2nd Most Common Venue \
      9
            Al Manhal
                                       Café
                                                       Hot Spring
      16
            Al Rowdah
                                       Café
                                                      Coffee Shop
         3rd Most Common Venue 4th Most Common Venue 5th Most Common Venue
      9
                Medical Center
                                         Coffee Shop
                                                                      Hotel
      16
                Cosmetics Shop
                                            Wine Bar
                                                                Donut Shop
[91]: AD_merged.loc[AD_merged['Cluster_Labels'] == 3, AD_merged.columns[[0] +
       →list(range(4, AD_merged.shape[1]))]]
[91]:
       Neighborhood 1st Most Common Venue 2nd Most Common Venue \
      4
                         Indian Restaurant
           Al Karama
                                                Asian Restaurant
```

```
3rd Most Common Venue 4th Most Common Venue 5th Most Common Venue
4 Bakery Ice Cream Shop Cafeteria
```

```
[92]: AD_merged.loc[AD_merged['Cluster_Labels'] == 4, AD_merged.columns[[0] + LI ← list(range(4, AD_merged.shape[1]))]]
```

[92]: Neighborhood 1st Most Common Venue 2nd Most Common Venue \
14 Al Reef Pool Gym

```
3rd Most Common Venue 4th Most Common Venue 5th Most Common Venue
14 Pizza Place Convenience Store Coffee Shop
```

For this last cluster we see Al Reef, which is an up-and-coming residential area. Maybe it could use another coffee shop?

1.4 Discussion and Final Thoughts...

As you can see, there a lot of tools to work with here and make some interesting analysis. Of course, we could always use more data. We can find the locations of the other neighborhoods, even if we have to do it manually.

We showed that there aren't many venues listed on Foursquare for some areas. We could use other databases to see if we get better results. It would also be interesting to integrate this with information about if an area is a business area or a more residential one. As mentioned, we can also explore further the clustering method as well.

However, even with limitations, even if we do not get clear cut conclusions for this exercise, we do get some things from it: * We can at least get some insights and give a direction or focus for our research/work. * This was a great learning experience. Even though I had seen most of these methods during my Master's, I had done everything with R. A refreshment on the subject with Python was a great way to learn a new programming language. * Also, there was much more learned during the course that is not being used in this report. SQL, for example. Plus, as already mentioned in the Methodology, I was presented to a couple of really cool platforms to code and do analysis on, in IBM Skills Network Labs and IBM Cloud with Watson services. Have a look on those.

Thank you for reading this.

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