

KFC

API key

Requests to the KFC API requires a KFC API key. This, in addition to several other API keys and endpoints, can be retrieved from the `<script>` tag at the end of the KFC homepage. Requests to the KFC homepage must come from a legitimate browser (determined by the user agent).

An example is shown below (formatted with whitespace for readability - the original is minified).

```
$ curl 'https://www.kfc.co.uk/ \
-H 'User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.15; rv:109.0) Gecko/20100101 Firefox/111.0'
```

```
<script>
...
"orderOriginAnnotations": {
  "fingerprintEndpointUrl": "https://fp.platform.kfcapi.com",
  "fingerprintApiKey": "E8uHaPCQYVV9mgTDF2pB",
  "fingerprintRegion": "eu"
}
...
"apiEndpoints": {
  "aggregatorV3":
"/aggregators?city={city}\u0026lat={latitude}\u0026lng={longitude}\u0026postcode={postcode}"
}
...
"firebase": {
  "apiKey": "AlzaSyBfxHNPT4ZXUsZ53PYKRrJ3ihji6V4LgP4",
  "authDomain": "kfc-uki.firebaseio.com",
  "databaseURL": "https://kfc-uki.firebaseio.com",
  "projectId": "kfc-uki",
  "storageBucket": "kfc-uki.appspot.com",
  "messagingSenderId": "370388072022",
  "appId": "1:370388072022:web:21b082985df244f42cedf7",
  "measurementId": "G-2ZFPMGWCJ5"
```

```

}
...
"braze": {
  "sdkEndpoint": "sdk.fra-01.braze.eu",
  "sdkKey": "5ad9b4c0-4479-4fdd-a85a-509f317506a3"
}
...
"upsellsURL": "https://s3.eu-west-1.amazonaws.com/qa-kiosk.kfc.co.uk/upsells/prompts.json"
...
"runtimeConfig": {
  "APP_TYPE": "website",
  "NEXT_API": "https://www.kfc.co.uk",
  "CMS_API": "https://uk.kfc-cms.com",
  "KFC_API": "https://prod.kfcapi.com/api/v1",
  "KFC_API_V3": "https://prod.kfcapi.com/api/v3",
  "KFC_API_OVERRIDES": "{}",
  "API_KEY": "siYAzKattmaIHswMV9OJYtaoP8SRq",
  "APP_ENV_CODE": "UK-GB",
  "DELIVERY_GRAPHQL_API": "https://delivery.platform.kfcapi.com/graphql",
  "DELIVERY_GRAPHQL_API_KEY": "da2-g4p57iyxirctrfv7inygfmduq",
  "COUNTRY_CODE": "GB",
  "CODE_MARKET": "UK",
  "LANGCODE": "en",
  "GOOGLE_API_KEY": "AIzaSyApKSHDYlv9udfHvZB34WB6sAGZYojr97E",
  "RECAPTCHA_KEY": "6LcQBdoaAAAAAF8W2ucXcvQfO3wGQtrvpw2aVZRK",
  "ROBOT_TXT": "https://brand-uk.assets.kfc.co.uk/robots_GB.txt",
  "SITEMAP_URL": "https://brand-uk.assets.kfc.co.uk/sitemap_GB.xml",
  "ENVIRONMENT": "production",
  "KFC_SITES": "{ \"GB\": \"https://www.kfc.co.uk\", \"IE\": \"https://www.kfc.ie\" }",
  "BUILD_NUMBER": "e6949418d76f97f221b04c997f433c81d7dbde8a",
  "ONETRUST_ID": "90b34549-608d-410c-ab2b-262c91ce2ae5",
  "DATADOG_APPLICATION_ID": "e6eccdc7-5923-492c-a098-06fb694f25f6",
  "DATADOG_CLIENT_ID": "pub898e007f540bf332315d09b8196beac6",
  "MPARTICLE_API_KEY": "us1-5867eed1788b2d4ca14fd7301f0629f5"
}, "isFallback": false, "customServer": true, "gip": true, "scriptLoader": []
}
</script>

```

Testing across a period of 15 minutes, multiple user agents, with no cache/cookies, reveals that this API key is fairly 'static'.

A regular expression to extract the API key from this page is shown below:

```
(?<="API_KEY":\s")[a-zA-Z0-9]{29}(?=\")
```

KFC locations

The following API endpoint returns KFC locations based on a lookup string.

```
https://prod.kfcapi.com/api/v1/util/google/lookup?address=<LOCATION>&geotype=Google
```

Example

```
$ curl --compressed 'https://prod.kfcapi.com/api/v1/util/google/lookup?address=Gloucester&geotype=Google' \
-H 'codemarket: UK' \
-H 'countrycode: GB' \
-H 'x-api-key: siYAzKattmaHSwMV9OJYtaoP8SRq'
```

```
[
  {
    "description": "Gloucester, UK",
    "matched_substrings": [
      {
        "length": 10,
        "offset": 0
      }
    ],
    "place_id": "ChIjz_Lr9vv9cEgRzxnolZabcOw",
    "reference": "ChIjz_Lr9vv9cEgRzxnolZabcOw",
    "structured_formatting": {
      "main_text": "Gloucester",
      "main_text_matched_substrings": [
        {
          "length": 10,
          "offset": 0
        }
      ]
    },
    "secondary_text": "UK"
```

```
},
"terms": [
  {
    "offset": 0,
    "value": "Gloucester"
  },
  {
    "offset": 12,
    "value": "UK"
  }
],
"types": [
  "locality",
  "political",
  "geocode"
],
},
{
  "description": "Gloucestershire, UK",
  "matched_substrings": [
    {
      "length": 10,
      "offset": 0
    }
  ],
  "place_id": "ChIjvWBKITVTcEgRYidBWWOI7Dc",
  "reference": "ChIjvWBKITVTcEgRYidBWWOI7Dc",
  "structured_formatting": {
    "main_text": "Gloucestershire",
    "main_text_matched_substrings": [
      {
        "length": 10,
        "offset": 0
      }
    ]
  },
  "secondary_text": "UK"
},
"terms": [
  {
```

```
    "offset": 0,
    "value": "Gloucestershire"
  },
  {
    "offset": 17,
    "value": "UK"
  }
],
"types": [
  "administrative_area_level_2",
  "political",
  "geocode"
],
},
{
  "description": "Gloucester Road, Kensington, London, UK",
  "matched_substrings": [
    {
      "length": 10,
      "offset": 0
    }
  ],
  "place_id":
"EidHbG91Y2VzdGVyIFJvYWQsIEtlbnNpbmd0b24sIExvbmRvbiwgVUsiLiosChQKEgnzHEc5XQV2SBHWVE8x6AIEjBIU
ChIJNxj0UPQPdkgRXik3cFTbw-0",
  "reference":
"EidHbG91Y2VzdGVyIFJvYWQsIEtlbnNpbmd0b24sIExvbmRvbiwgVUsiLiosChQKEgnzHEc5XQV2SBHWVE8x6AIEjBIU
ChIJNxj0UPQPdkgRXik3cFTbw-0",
  "structured_formatting": {
    "main_text": "Gloucester Road",
    "main_text_matched_substrings": [
      {
        "length": 10,
        "offset": 0
      }
    ],
    "secondary_text": "Kensington, London, UK"
  },
  "terms": [
```

```
{
  "offset": 0,
  "value": "Gloucester Road"
},
{
  "offset": 17,
  "value": "Kensington"
},
{
  "offset": 29,
  "value": "London"
},
{
  "offset": 37,
  "value": "UK"
}
],
"types": [
  "route",
  "geocode"
]
},
{
  "description": "Gloucester Road Station, Gloucester Road, London, UK",
  "matched_substrings": [
    {
      "length": 10,
      "offset": 0
    }
  ],
  "place_id": "ChIJEVNPV4FdkgREWjenJPqiBI",
  "reference": "ChIJEVNPV4FdkgREWjenJPqiBI",
  "structured_formatting": {
    "main_text": "Gloucester Road Station",
    "main_text_matched_substrings": [
      {
        "length": 10,
        "offset": 0
      }
    ]
  }
}
```

```
],
  "secondary_text": "Gloucester Road, London, UK"
},
"terms": [
  {
    "offset": 0,
    "value": "Gloucester Road Station"
  },
  {
    "offset": 25,
    "value": "Gloucester Road"
  },
  {
    "offset": 42,
    "value": "London"
  },
  {
    "offset": 50,
    "value": "UK"
  }
],
"types": [
  "premise",
  "geocode"
],
{
  "description": "Gloucester Green, Oxford, UK",
  "matched_substrings": [
    {
      "length": 10,
      "offset": 0
    }
  ],
  "place_id": "ChIJ3TUITKTGdkgRF0rXBjwx5A8",
  "reference": "ChIJ3TUITKTGdkgRF0rXBjwx5A8",
  "structured_formatting": {
    "main_text": "Gloucester Green",
    "main_text_matched_substrings": [
```

```
{
  "length": 10,
  "offset": 0
},
"secondary_text": "Oxford, UK"
},
"terms": [
  {
    "offset": 0,
    "value": "Gloucester Green"
  },
  {
    "offset": 18,
    "value": "Oxford"
  },
  {
    "offset": 26,
    "value": "UK"
  }
],
"types": [
  "neighborhood",
  "political",
  "geocode"
]
}
```

Geocode lookup

The following API endpoint returns latitude and longitude information for a given address.

```
https://prod.kfcapi.com/api/v1/util/google/geocode?address=<LOCATION>&geotype=Google&autorefid={autorefid}
```

Valid examples for `<LOCATION>` include:

- 'Gloucester, UK' (URL encoded: `Gloucester,%20UK`)

- 'GL1 2TG' (URL encoded: `GL1%202TG`)

Example

```
$ curl --compressed
'https://prod.kfcapi.com/api/v1/util/google/geocode?address=Gloucester,%20UK&geotype=Google&autorefid={autorefid}' \
-H 'x-api-key: siYAzKattmaIH5wMV9OJYtaoP8SRq' \
-H 'codemarket: UK' \
-H 'countrycode: GB'
```

```
{
  "location": {
    "lat": 51.8642449,
    "lng": -2.238156
  },
  "countrycode": "GB",
  "countryname": "United Kingdom",
  "deliveryAddressObject": {
    "street": "",
    "posttown": "Gloucester",
    "postcode": "",
    "fullAddress": "Gloucester, UK"
  }
}
```

KFC locations (2)

`https://prod.kfcapi.com/api/v3/restaurants/geocode`

Example

```
$ curl --compressed -X POST 'https://prod.kfcapi.com/api/v3/restaurants/geocode' \
-H 'Content-Type: application/json' \
-H 'x-api-key: siYAzKattmaIH5wMV9OJYtaoP8SRq' \
-H 'codemarket: UK' \
-H 'countrycode: GB' \
```

```
--data-raw '{"lat":51.8642,"lng":-2.2381}'
```

```
[
  {
    "refid": "77064004",
    "distance": 1672.74773966
  },
  {
    "refid": "77064003",
    "distance": 3875.53003224
  },
  {
    "refid": "77064006",
    "distance": 8176.30920337
  },
  {
    "refid": "77064005",
    "distance": 11071.95785298
  },
  {
    "refid": "77064009",
    "distance": 11990.77038952
  },
  {
    "refid": "77023843",
    "distance": 15495.2865017
  },
  {
    "refid": "77064008",
    "distance": 23880.31031652
  },
  {
    "refid": "77064010",
    "distance": 25976.74317347
  },
  {
    "refid": "77010121",
    "distance": 26523.97636434
  },
]
```

```
{
  "refid": "77010131",
  "distance": 26587.65156733
},
{
  "refid": "77103441",
  "distance": 36257.46257524
},
{
  "refid": "77106025",
  "distance": 37969.78802345
},
{
  "refid": "77103438",
  "distance": 38723.14959847
},
{
  "refid": "77064007",
  "distance": 38815.62381749
},
{
  "refid": "77098011",
  "distance": 39627.43915774
}
}
```

Restaurant details

```
$ curl --compressed 'https://prod.kfcapi.com/api/v3/restaurants/77064003' \
-H 'x-api-key: siYAzKattmaIH5wMV9OJYtaoP8SRq' \
-H 'codemarket: UK' \
-H 'countrycode: GB'
```

```
{
  "name": "Gloucester - Goodridge Avenue",
  "street": "Goodridge Avenue",
  "city": "Quedgely",
```

```
"postalcode": "GL2 5EA",
"marketCode": "UK",
"countryCode": "GB",
"geolocation": {
  "longitude": -2.2731001,
  "latitude": 51.8368626
},
"refid": "77064003",
"status": "available",
"judopayid": "100126184",
"region": "South West",
"storeid": "6403",
"bagtaxtype": "NONE",
"defaultEtaMin": 40,
"defaultEtaMax": 60,
"hours": [
  {
    "type": "Standard",
    "groupId": "c3d9b5bd-b6bf-4351-97b2-3a0cbde14f47",
    "startDate": null,
    "endDate": null,
    "thursday": {
      "open": 900,
      "close": 2300
    },
    "friday": {
      "open": 900,
      "close": 2300
    },
    "wednesday": {
      "open": 900,
      "close": 2300
    },
    "tuesday": {
      "open": 900,
      "close": 2300
    },
    "sunday": {
      "open": 900,
```

```
"close": 2300
},
"monday": {
  "open": 900,
  "close": 2300
},
"saturday": {
  "open": 900,
  "close": 2300
}
},
{
  "type": "Drivethru",
  "groupId": "801aed17-73cc-4eb8-8dcd-1a3c8c53201d",
  "startDate": null,
  "endDate": null,
  "monday": {
    "open": 900,
    "close": 100
  },
  "saturday": {
    "open": 900,
    "close": 100
  },
  "wednesday": {
    "open": 900,
    "close": 100
  },
  "sunday": {
    "open": 900,
    "close": 100
  },
  "thursday": {
    "open": 900,
    "close": 100
  },
  "friday": {
    "open": 900,
    "close": 100
  }
}
```

```
},
  "tuesday": {
    "open": 900,
    "close": 100
  }
},
{
  "type": "Collect",
  "groupId": "a4f85c65-0250-4993-b131-60442c303255",
  "startDate": null,
  "endDate": null,
  "wednesday": {
    "open": 900,
    "close": 2245
  },
  "tuesday": {
    "open": 900,
    "close": 2245
  },
  "sunday": {
    "open": 900,
    "close": 2245
  },
  "monday": {
    "open": 900,
    "close": 2245
  },
  "friday": {
    "open": 900,
    "close": 2245
  },
  "thursday": {
    "open": 900,
    "close": 2245
  },
  "saturday": {
    "open": 900,
    "close": 2245
  }
}
```

```
},
{
  "type": "Delivery",
  "groupId": "d2bfc0d-e825-4ebf-8a20-3988cc6caa1c",
  "startDate": null,
  "endDate": null,
  "monday": {
    "open": 1000,
    "close": 2345
  },
  "sunday": {
    "open": 1000,
    "close": 2345
  },
  "friday": {
    "open": 1000,
    "close": 2345
  },
  "thursday": {
    "open": 1000,
    "close": 2345
  },
  "wednesday": {
    "open": 1000,
    "close": 2345
  },
  "tuesday": {
    "open": 1000,
    "close": 2345
  },
  "saturday": {
    "open": 1000,
    "close": 2345
  }
},
{
  "type": "Uber",
  "groupId": "4200c603-d10e-4b59-9f80-a383693c817c",
  "startDate": null,
```

```
"endDate": null,
"friday": {
  "open": 1000,
  "close": 2345
},
"wednesday": {
  "open": 1000,
  "close": 2345
},
"tuesday": {
  "open": 1000,
  "close": 2345
},
"sunday": {
  "open": 1000,
  "close": 2345
},
"monday": {
  "open": 1000,
  "close": 2345
},
"saturday": {
  "open": 1000,
  "close": 2345
},
"thursday": {
  "open": 1000,
  "close": 2345
}
},
{
  "type": "Deliveroo",
  "groupId": "d5b5d554-9b6e-49a0-8b9c-c1a4b318daf3",
  "startDate": null,
  "endDate": null,
  "wednesday": {
    "open": 1000,
    "close": 2345
  },
}
```



```
"tuesday": {
  "open": 1000,
  "close": 2345
},
"sunday": {
  "open": 1000,
  "close": 2345
},
"friday": {
  "open": 1000,
  "close": 2345
},
"thursday": {
  "open": 1000,
  "close": 2345
},
"monday": {
  "open": 1000,
  "close": 2345
},
"saturday": {
  "open": 1000,
  "close": 2345
}
},
{
  "type": "Justeat",
  "groupId": "1b27e17c-4634-4df9-97ed-a9d917b80c29",
  "startDate": null,
  "endDate": null,
  "tuesday": {
    "open": 1000,
    "close": 2345
  },
  "sunday": {
    "open": 1000,
    "close": 2345
  },
  "friday": {
```

```
"open": 1000,
"close": 2345
},
"wednesday": {
  "open": 1000,
  "close": 2345
},
"monday": {
  "open": 1000,
  "close": 2345
},
"saturday": {
  "open": 1000,
  "close": 2345
},
"thursday": {
  "open": 1000,
  "close": 2345
}
}
],
"facilities": [
  {
    "name": "Drive Thru",
    "imagePath": "restaurants/facilities-icons/restaurant-facilities-drive-thru.png"
  },
  {
    "name": "Baby Changing Room",
    "imagePath": "restaurants/facilities-icons/restaurant-facilities-baby-change.png"
  },
  {
    "name": "Vegan",
    "imagePath": "restaurants/facilities-icons/restaurant-facilities-vegan.png"
  },
  {
    "name": "Mobile Ordering",
    "imagePath": "restaurants/facilities-icons/restaurant-collect.png"
  },
  {
```

```
"name": "Zinger Popcorn",
"imagePath": "restaurants/facilities-icons/restaurant-facilities-zinger-popcorn.png"
},
{
  "name": "Free Wifi",
  "imagePath": "restaurants/facilities-icons/restaurant-facilities-wifi.png"
},
{
  "name": "Disability Access",
  "imagePath": "restaurants/facilities-icons/restaurant-facilities-disabled-access.png"
},
{
  "name": "Colonel's Club",
  "imagePath": "restaurants/facilities-icons/restaurant-facilities-colonels-club.png"
}
],
"orderModes": [
  {
    "modeType": "ClickAndCollect",
    "serviceType": "Drivethru"
  },
  {
    "modeType": "Deliveroo",
    "serviceType": "TakeAway"
  },
  {
    "modeType": "Delivery",
    "serviceType": "TakeAway"
  },
  {
    "modeType": "JustEat",
    "serviceType": "TakeAway"
  },
  {
    "modeType": "ClickAndCollect",
    "serviceType": "DineIn"
  },
  {
    "modeType": "UberEats",
```

```
    "serviceType": "TakeAway"
  },
  {
    "modeType": "ClickAndCollect",
    "serviceType": "TakeAway"
  }
]
```

Menu

```
'https://prod.kfcapi.com/api/v3/restaurants/<REFID>/menu?modeType=ClickAndCollect&serviceType=TakeAway'
```

Example

```
$ curl
'https://prod.kfcapi.com/api/v3/restaurants/77064003/menu?modeType=ClickAndCollect&serviceType=TakeAway' \
-H 'x-api-key: siYAzKattmalHSwMV9OJYtaoP8SRq' \
-H 'codemarket: UK' \
-H 'countrycode: GB' \
```

```
{
  "channel": "ClickAndCollect",
  "menuUrl": "https://menu-output-prod.s3.eu-west-1.amazonaws.com/77064003-ClickAndCollect.json",
  "lastModifiedDate": "2023-04-01T05:04:10.000Z"
}
```

Revision #11

Created 1 April 2023 10:03:29 by Jack

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