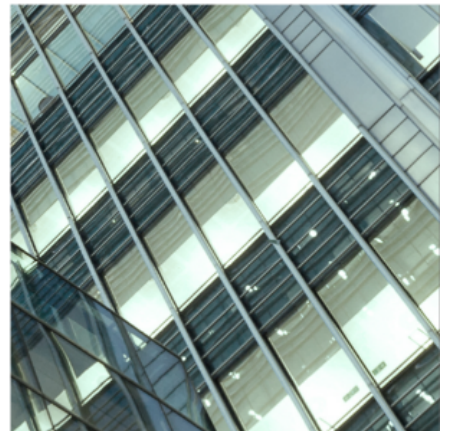


Expatistan



# Salary Conversion Reports

Cost of Living Adjustment  
Benchmark Report  
Base city: Munich (Germany)  
September 2016

## 2

## Benchmark Report

**Report date:** 05 September 2016

**Base city:** Munich (Germany)

**Base currency:** EUR (Euro)

**Cities included:**

Belfast (United Kingdom)

Bologna (Italy)

Cambridge (United Kingdom)

Catania (Italy)

Florianópolis (Brazil)

Gdańsk (Poland)

Joinville (Brazil)

Tel Aviv (Israel)

Timisoara (Romania)

Toulouse (France)

Vitória (Brazil)

Zurich (Switzerland)

### Cost of Living Adjustment Table

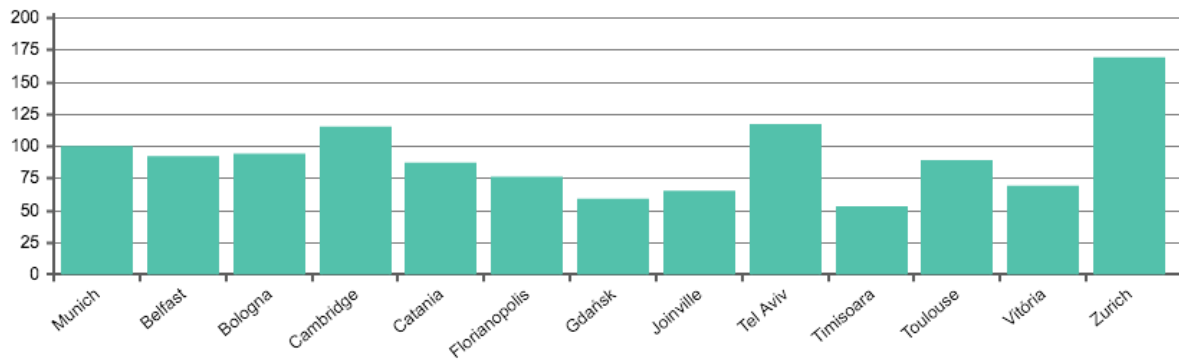
Using Munich as the reference city, we list the cost-of-living adjustment in **NET** salary necessary to keep the same standard of living in different cities.

e.g. To keep the same standard of living that a NET salary of 3125 EUR would provide in Munich, an expat would need  $3125 \times 92 \div 100 = 2875$  EUR net in Belfast (United Kingdom).

	TOTAL	Food	Housing	Clothes	Transp.	Pers. Care	Entrn.
Munich	100	100	100	100	100	100	100
Belfast	92	105	85	87	102	91	94
Bologna	94	121	69	100	94	142	110
Cambridge	115	127	123	96	103	163	107
Catania	87	108	61	109	90	118	105
Florianópolis	76	73	49	104	82	97	130
Gdańsk	59	62	51	86	71	76	70
Joinville	65	71	39	79	75	90	107
Tel Aviv	117	131	107	115	123	142	123
Timisoara	53	59	35	77	69	83	70
Toulouse	89	111	74	91	89	114	100
Vitória	69	74	42	113	75	90	103
Zurich	169	216	161	128	129	211	186

## 3

## Cost of Living Adjustment Graph



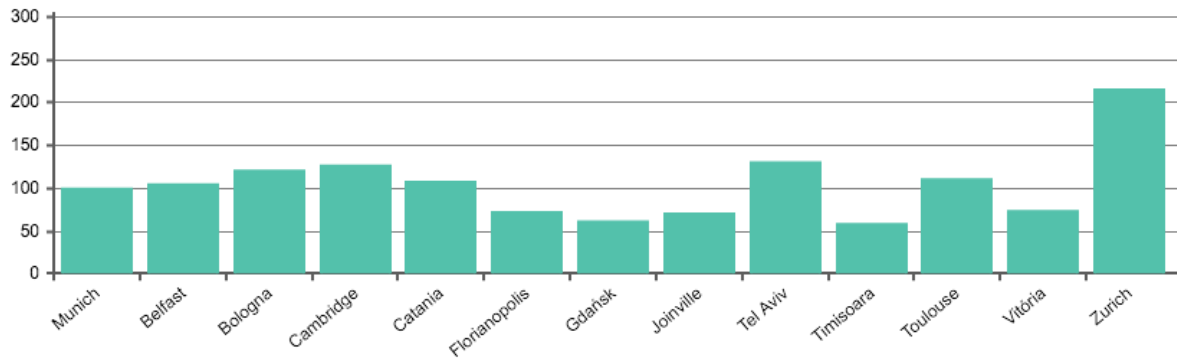
## Exchange Rates

Munich	1 EUR = 1 EUR
Belfast (United Kingdom)	1 EUR = 0.839 GBP
Bologna (Italy)	1 EUR = 1 EUR
Cambridge (United Kingdom)	1 EUR = 0.839 GBP
Catania (Italy)	1 EUR = 1 EUR
Florianopolis (Brazil)	1 EUR = 3.640 BRL
Gdańsk (Poland)	1 EUR = 4.356 PLN
Joinville (Brazil)	1 EUR = 3.640 BRL
Tel Aviv (Israel)	1 EUR = 4.209 ILS
Timisoara (Romania)	1 EUR = 4.445 RON
Toulouse (France)	1 EUR = 1 EUR
Vitória (Brazil)	1 EUR = 3.640 BRL
Zurich (Switzerland)	1 EUR = 1.093 CHF

## 4

## Food category

### Comparison of price levels in Food in all the cities (Munich = 100)



### All prices in the Food Category (in Euro)

	Munich	Belfast	Bologna	Cambridge	Catania	Florianopolis	Gdańsk
Daily menu	€11.02	€9.38	€13.32	€16.67	€13.98	€6.19	€6.59
Big Mac	€6.68	€5.97	€7.37	€6.83	€6.90	€5.39	€4.05
Chicken	€3.71	€4.82	€4.53	€4.44	€4.60	€1.76	€1.86
Milk	€0.88	€0.91	€1.21	€1.04	€1.46	€0.77	€0.54
Eggs	€2.33	€2.87	€3.82	€3.63	€2.94	€1.75	€1.94
Tomatoes	€2.59	€2.26	€2.49	€2.32	€1.46	€1.38	€1.05
Cheese	€4.79	€4.60	€8.20	€6.83	€5.25	€3.48	€2.81
Apples	€2.19	€2.63	€1.59	€2.70	€1.50	€1.23	€0.67
Potatoes	€1.41	€0.77	€1.04	€1.03	€0.85	€0.78	€0.40
Beer	€0.95	€1.74	€1.78	€2.68	€1.29	€1.26	€0.69
Wine	€6.56	€9.47	€6.91	€9.37	€8.38	€8.78	€7.92
Coke	€1.78	€2.15	€2.14	€2.18	€1.68	€1.37	€1.11
Bread	€1.44	€0.95	€1.39	€0.86	€0.75	€0.83	€0.39

## 5

## Food category (continuation)

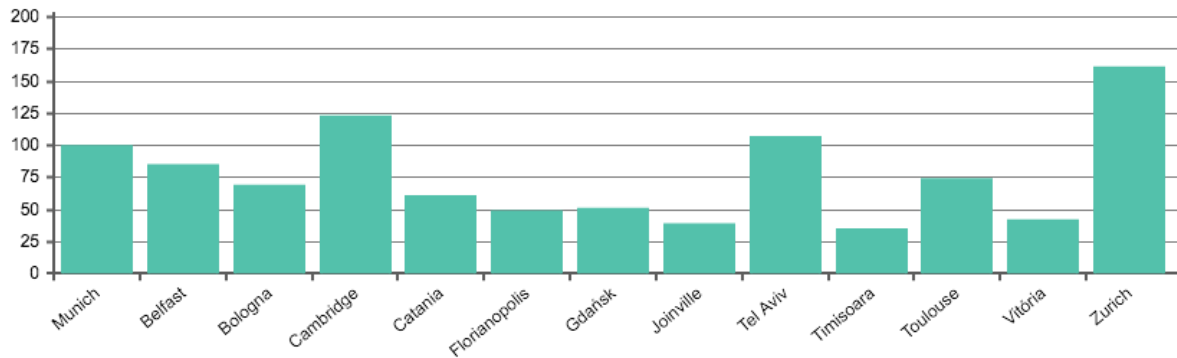
### All prices in the Food Category (in Euro)

	Munich	Joinville	Tel Aviv	Timisoara	Toulouse	Vitória	Zurich
Daily menu	€11.02	€5.99	€13.62	€4.45	€12.50	€5.92	€24.64
Big Mac	€6.68	€6.10	€10.52	€3.73	€7.63	€6.32	€12.51
Chicken	€3.71	€1.58	€4.63	€2.23	€5.64	€1.96	€11.97
Milk	€0.88	€0.60	€1.54	€0.88	€0.99	€0.74	€1.60
Eggs	€2.33	€1.92	€3.64	€1.61	€2.95	€1.10	€7.26
Tomatoes	€2.59	€1.35	€1.67	€1.27	€1.84	€1.67	€4.49
Cheese	€4.79	€2.43	€7.39	€3.28	€6.33	€3.80	€10.78
Apples	€2.19	€1.14	€2.51	€0.75	€2.06	€1.84	€3.86
Potatoes	€1.41	€0.82	€0.99	€0.58	€1.31	€1.03	€2.71
Beer	€0.95	€1.04	€2.11	€0.66	€0.98	€0.98	€1.76
Wine	€6.56	€6.72	€12.62	€3.56	€5.10	€10.55	€16.09
Coke	€1.78	€1.27	€2.13	€1.34	€1.87	€1.18	€2.52
Bread	€1.44	€0.89	€1.24	€0.52	€1.02	€0.86	€2.22

## 6

## Housing category

### Comparison of price levels in Housing in all the cities (Munich = 100)



### All prices in the Housing Category (in Euro)

	Munich	Belfast	Bologna	Cambridge	Catania	Florianopolis	Gdańsk
Flat exp.	€1 831	€1 272	€1 000	€2 407	€734	€658	€693
Flat norm.	€1 416	€773	€779	€2 296	€507	€429	€489
Util. flat	€218	€131	€131	€188	€102	€80.34	€129
Studio exp.	€1 039	€932	€678	€1 157	€618	€390	€480
Studio norm.	€797	€896	€473	€933	€385	€241	€293
Util. studio	€109	€108	€82.54	€136	€84.09	€59.01	€74.58
Internet	€21.87	€24.71	€19.17	€23.66	€26.19	€22.17	€10.49
Tv	€450	€355	€428	€472	€419	€441	€423
Microwave	€81.50	€84.33	€123	€87.41	€128	€110	€78.16
Detergent	€5.91	€6.30	€6.20	€8.09	€4.59	€4.92	€6.34
Cleaning help	€13.99	€9.53	€9.89	€13.64	€7.58	€4.68	€3.68

## 7

## Housing category (continuation)

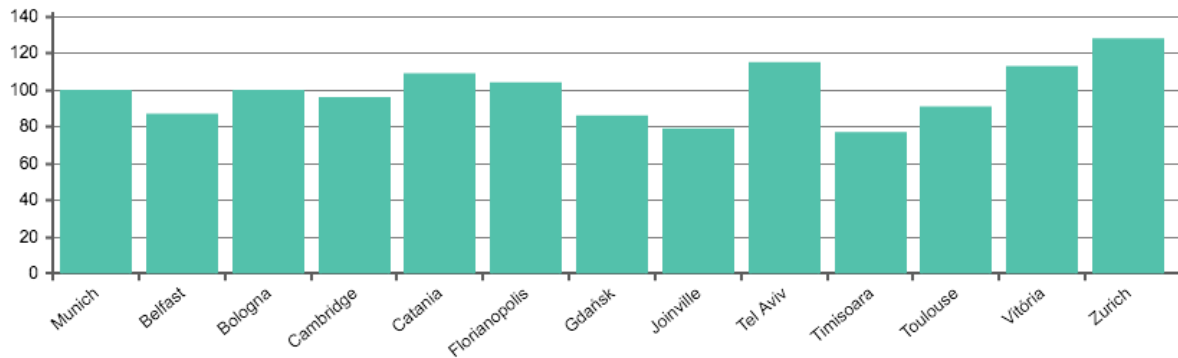
### All prices in the Housing Category (in Euro)

	Munich	Joinville	Tel Aviv	Timisoara	Toulouse	Vitória	Zurich
Flat exp.	€1 831	€425	€1 960	€380	€1 136	€494	€3 051
Flat norm.	€1 416	€254	€1 460	€273	€877	€344	€2 263
Util. flat	€218	€50.88	€117	€63.69	€135	€75.92	€152
Studio exp.	€1 039	€267	€1 301	€214	€668	€248	€1 910
Studio norm.	€797	€186	€957	€169	€525	€262	€1 481
Util. studio	€109	€39.44	€73.77	€60.99	€48.83	€40.37	€92.94
Internet	€21.87	€22.05	€21.29	€7.08	€26.90	€22.59	€38.29
Tv	€450	€435	€621	€377	€469	€446	€556
Microwave	€81.50	€111	€118	€72.50	€64.46	€130	€158
Detergent	€5.91	€3.65	€7.02	€7.05	€6.48	€3.34	€10.31
Cleaning help	€13.99	€3.70	€11.52	€5.12	€15.13	€3.27	€27.44



## Clothes category

Comparison of price levels in Clothes in all the cities (*Munich = 100*)



All prices in the Clothes Category (in Euro)

	Munich	Belfast	Bologna	Cambridge	Catania	Florianopolis	Gdańsk
Jeans	€86.13	€59.44	€90.05	€76.45	€93.10	€44.92	€73.40
Dress	€36.38	€36.97	€31.89	€38.31	€36.48	€51.42	€30.68
Sport shoes	€93.90	€68.97	€92.23	€70.29	€107	€91.64	€75.93
Shoes	€124	€65.23	€153	€90.16	€149	€68.86	€92.13

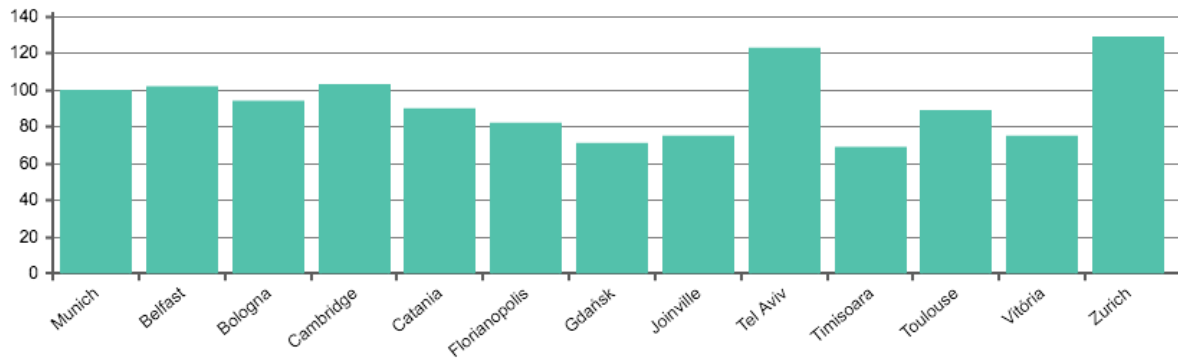
	Munich	Joinville	Tel Aviv	Timisoara	Toulouse	Vitória	Zurich
Jeans	€86.13	€61.62	€83.34	€49.97	€81.30	€36.05	€112
Dress	€36.38	€31.16	€45.83	€31.77	€30.70	€61.95	€44.52
Sport shoes	€93.90	€68.29	€113	€61.96	€96.97	€77.75	€118
Shoes	€124	€50.01	€116	€67.11	€83.98	€62.96	€175



## 9

## Transportation category

Comparison of price levels in Transportation in all the cities (*Munich = 100*)



All prices in the Transportation Category (in Euro)

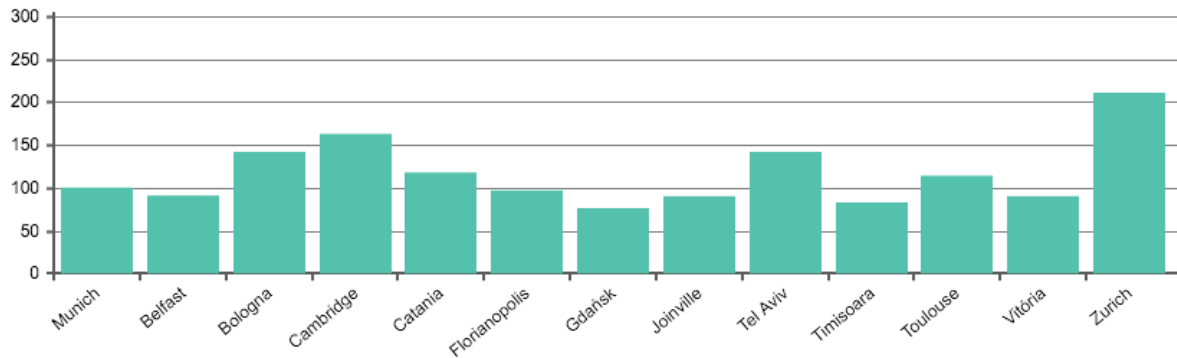
	Munich	Belfast	Bologna	Cambridge	Catania	Florianopolis	Gdańsk
Car	€20 124	€20 499	€23 956	€20 754	€21 533	€19 455	€19 538
Gas	€1.33	€1.34	€1.39	€1.36	€1.49	€0.95	€1.10
Pub. transport	€62.09	€64.42	€33.26	€60.58	€29.02	€44.51	€20.53
Taxi trip	€18.96	€12.57	€16.33	€17.00	€17.15	€10.65	€6.26

	Munich	Joinville	Tel Aviv	Timisoara	Toulouse	Vitória	Zurich
Car	€20 124	€18 503	€33 776	€19 498	€18 156	€19 256	€28 969
Gas	€1.33	€0.91	€1.49	€1.17	€1.33	€0.97	€1.34
Pub. transport	€62.09	€37.77	€57.99	€16.60	€45.47	€31.87	€77.03
Taxi trip	€18.96	€5.95	€13.11	€4.88	€14.31	€8.28	€28.56

## 10

## Personal care category

Comparison of price levels in Personal care in all the cities (*Munich = 100*)



All prices in the Personal care Category (in Euro)

	Munich	Belfast	Bologna	Cambridge	Catania	Florianopolis	Gdańsk
Flu Medicine	€6.38	€4.81	€8.90	€4.43	€6.31	€5.50	€5.22
Antibiotics	€15.46	€5.78	€8.57	€9.09	€6.48	€13.59	€8.92
Doctor	€47.05	€81.52	€98.35	€194	€73.60	€50.18	€23.76
Tampons	€4.46	€3.52	€5.32	€4.68	€2.95	€4.56	€2.01
Deodorant	€2.13	€1.24	€3.99	€2.39	€4.16	€2.79	€2.62
Shampoo	€3.41	€2.21	€2.58	€5.42	€2.69	€3.36	€2.50
Toilet paper	€1.76	€2.00	€2.25	€2.39	€1.38	€1.50	€1.19
Toothpaste	€1.81	€1.45	€2.22	€1.95	€1.80	€1.00	€1.55
Men haircut	€22.86	€10.44	€19.55	€17.28	€14.37	€7.66	€5.17

## 11

## Personal care category (continuation)

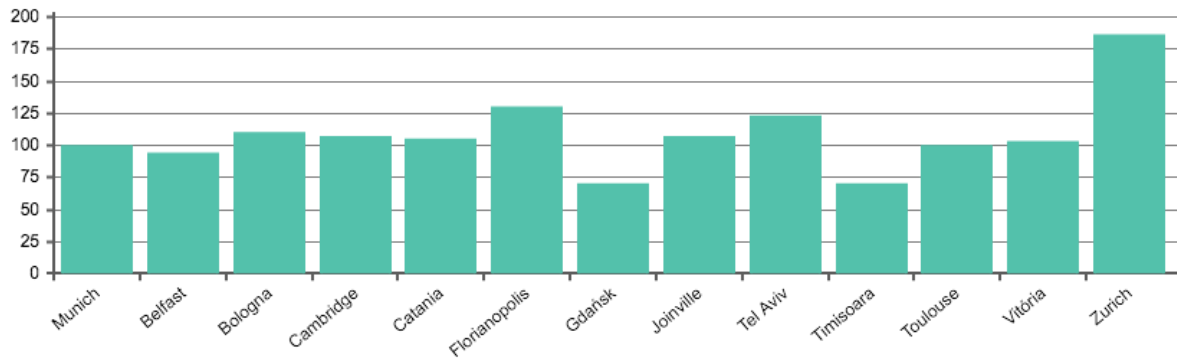
All prices in the Personal care Category (in Euro)

	Munich	Joinville	Tel Aviv	Timisoara	Toulouse	Vitória	Zurich
Flu Medicine	€6.38	€4.02	€8.29	€5.59	€5.81	€4.12	€20.21
Antibiotics	€15.46	€11.18	€5.06	€5.75	€7.28	€8.55	€31.03
Doctor	€47.05	€54.59	€60.20	€23.79	€22.85	€43.55	€110
Tampons	€4.46	€3.63	€6.92	€3.68	€3.90	€2.92	€7.73
Deodorant	€2.13	€2.11	€5.94	€3.04	€4.56	€3.23	€4.42
Shampoo	€3.41	€3.15	€4.44	€3.31	€4.57	€2.99	€4.62
Toilet paper	€1.76	€2.06	€1.52	€1.22	€2.28	€1.40	€2.94
Toothpaste	€1.81	€0.92	€3.25	€2.16	€2.21	€0.90	€3.60
Men haircut	€22.86	€7.37	€14.41	€4.75	€19.25	€7.53	€52.61

## 12

## Entertainment category

Comparison of price levels in Entertainment in all the cities (*Munich = 100*)



All prices in the Entertainment Category (in Euro)

	Munich	Belfast	Bologna	Cambridge	Catania	Florianopolis	Gdańsk
Pub dinner	€38.74	€26.12	€31.13	€35.28	€29.85	€23.17	€17.55
Movies	€21.24	€12.88	€14.66	€22.92	€15.20	€12.43	€10.02
Theater	€109	€82.95	€56.06	€71.69	€100	€24.77	€33.10
Exp. dinner	€56.27	€50.12	€63.20	€59.14	€61.41	€48.14	€40.76
Cocktail	€9.05	€7.67	€8.13	€9.47	€7.09	€5.20	€5.09
Cappuccino	€3.05	€2.75	€1.57	€3.25	€1.56	€2.16	€2.55
Beer	€3.52	€4.24	€5.00	€4.57	€3.83	€2.56	€2.11
iPod	€182	€139	€206	€142	€176	€263	€136
Mobile min.	€0.10	€0.16	€0.13	€0.13	€0.14	€0.41	€0.08
Gym	€46.52	€27.78	€70.14	€51.95	€60.91	€42.06	€39.15
Cigarettes	€5.99	€10.38	€5.17	€9.68	€5.34	€2.01	€3.28

## 13

## Entertainment category (continuation)

### All prices in the Entertainment Category (in Euro)

	Munich	Joinville	Tel Aviv	Timisoara	Toulouse	Vitória	Zurich
Pub dinner	€38.74	€23.25	€36.17	€16.84	€39.79	€20.89	€71.31
Movies	€21.24	€11.53	€18.70	€8.66	€19.51	€10.96	€33.47
Theater	€109	€26.91	€61.38	€26.66	€42.58	€30.15	€161
Exp. dinner	€56.27	€35.62	€74.69	€22.92	€49.38	€45.77	€123
Cocktail	€9.05	€4.26	€10.48	€4.12	€8.11	€4.08	€15.66
Cappuccino	€3.05	€1.60	€3.23	€1.48	€2.78	€1.58	€5.53
Beer	€3.52	€2.08	€7.08	€1.20	€3.98	€1.86	€6.17
iPod	€182	€209	€249	€182	€149	€192	€162
Mobile min.	€0.10	€0.33	€0.11	€0.12	€0.14	€0.31	€0.32
Gym	€46.52	€33.12	€71.10	€29.10	€42.42	€28.16	€104
Cigarettes	€5.99	€2.03	€8.24	€3.41	€7.07	€1.95	€7.55

## 14

## Description of products and services considered

### Food Category

Product or Service	Description
Daily menu	A lunchtime menu special including a drink for one customer, at a restaurant located in the city's business district.
Big Mac	A combo meal consisting of a main item with a side dish and a drink, purchased at an international fast-food restaurant such as McDonald's.
Chicken	500 grams of unboned chicken breast, grade A, purchased in a supermarket in the city center.
Milk	1 liter of whole fat milk, purchased in a supermarket in the city center.
Eggs	A dozen large chicken eggs, purchased in a supermarket in the city center.
Tomatoes	1 kilogram of standard tomatoes, purchased in a supermarket in the city center.
Cheese	500 grams of locally produced cheese, purchased in a supermarket in the city center.
Apples	1 kilogram of locally grown apples, purchased in a supermarket in the city center.
Potatoes	1 kilogram (2 pounds) of standard potatoes, purchased in a supermarket in the city center.
Beer	0.5 liters bottle or can of domestic beer, including container charges if applicable, purchased in a supermarket in the city center.
Wine	A standard 750-milliliter bottle of good quality red table wine, imported or domestic, purchased in a supermarket in the city center.
Coke	2 liters bottle of Coca-Cola or Pepsi, purchased in a supermarket in the city center.
Bread	250 grams of bread, typically consumed variety, consumer grade.

### Housing Category

Product or Service	Description
Flat exp.	Monthly rent for a renovated 85 m2 furnished apartment, in expensive area of the city.
Flat norm.	Monthly rent for a renovated 85 m2 furnished apartment, in an average residential area of the city.

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## Description of products and services considered

### Housing Category (*Continuation*)

Product or Service	Description
Util. flat	The bill, for two people, for one month's use of heating, electricity, gas and other utilities in an 85 m2 (915 ft2) apartment.
Studio exp.	Monthly rent for a renovated 45 m2 furnished studio, in expensive area of the city.
Studio norm.	Monthly rent for a renovated 45 m2 furnished studio, in an average residential area of the city.
Util. studio	The bill, per person, for one month's use of heating, electricity, gas and other utilities in a 45 m2 (480 ft2) studio apartment.
Internet	Monthly price for 8Mb residential internet connection.
Tv	A 40-inch (101-centimeter) flat-screen TV from a known, international brand, purchased new.
Microwave	A medium-sized 800/900 Watt microwave from a known, international brand, purchased new.
Detergent	A 3-liter (100-ounce) bottle of liquid laundry detergent for colored clothing, purchased in a supermarket in the city center.
Cleaning help	Cost per hour of domestic help, not on full-time basis.

### Clothes Category

Product or Service	Description
Jeans	A pair of Levi's 501 jeans, current season, no sales or discount, in brand shop at shopping mall.
Dress	A standard female summer dress of the current season, with no sales or discount, in a High Street Store (Zara, H&M or similar retailers)
Sport shoes	A pair of brand sports shoes (Adidas, Nike,...), in season, in shopping mall sports shop.
Shoes	A pair of male leather business shoes, good quality, in the center.

## 16

## Description of products and services considered

### Transportation Category

Product or Service	Description
Car	Volkswagen Golf 2.0 TDI 140 CV 6 vel. (or equivalent), with no extras, purchased new in a brick and mortar dealership.
Gas	1 liter of gasoline, 98 unleaded, in medium priced gas station in city center.
Pub. transport	Monthly pass for the integrated public transport system covering the core city. Alternatively, where monthly passes are not offered, the price equivalent of 2 trips a day between the business centre and a typical residential area.
Taxi trip	Taxi fare to travel 8 kilometers (5 miles) through the center of the city on a weekday at noon.

### Personal care Category

Product or Service	Description
Flu Medicine	A package of flu-relief medicine, from a known, international brand, with doses for 6 days.
Antibiotics	A 12-pack of antibiotic pills or tablets purchased from a pharmacy, hospital or doctor's office.
Doctor	Follow-up or other routine visit (15 minutes) to a private, non-specialist doctor.
Tampons	A box of 32 tampons, of good quality, from a known, international brand.
Deodorant	50-milliliter roll-on male deodorant from a known consumer brand.
Shampoo	A 400-milliliter (12-ounce) bottle of 2-in-1 shampoo/conditioner of a known international brand, purchased in a supermarket in the city center.
Toilet paper	Package of 4 rolls of known brand toilet paper (2 layers), purchased in a supermarket in the city center.
Toothpaste	A 75-milliliter tube of toothpaste from a known, international brand.
Men haircut	A standard men's haircut in the city center.



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## Description of products and services considered

### Entertainment Category

Product or Service	Description
Pub dinner	A basic pub meal for two in a residential or local area pub, not including drinks.
Movies	2 seats in city center movie theater for an international release on evening session, without discounts.
Theater	2 tickets to the best seats available in the city theater for a dramatic or musical performance.
Exp. dinner	A dinner for two at an Italian restaurant in the expat area of the city including appetisers, main course, wine and dessert
Cocktail	1 standard cocktail (mojito, cuba-libre,...) in downtown club, on weekend's night.
Cappuccino	A 150 to 240 milliliter (5 to 8 ounce) cup of cappuccino from a café located in the expat area of the city.
Beer	1 large beer (0.5 liters, 1 pint, or equivalent) in expat neighbourhood pub.
iPod	1 16GB iPod nano, purchased new from the Apple store or an authorized reseller.
Mobile min.	1 minute calling another domestic number, using a prepaid mobile (no discounts or plans).
Gym	Monthly membership in central branch of known Gym chain.
Cigarettes	1 20-cigarette pack of Marlboro Reds

# 18

## Methodology

Expatistan collects data continuously through an online survey available to expatriates at [expatistan.com](http://expatistan.com). The survey gathers constantly updated price points for a wide set of products and services representative of expatriates' common expenses. The collected data undergoes validation, statistical analysis and testing. It is cross-checked and enhanced with data from other sources available online, including the UN Statistics Division and the World Bank. Spurious data is detected and discarded.

The index is calculated net-to-net, excluding taxes other than those charged at the moment of payment, such as sales or value-added taxes. Inflation rates are used to update data when appropriate.

## Category weights

- Food: 0.1863
- Housing: 0.318
- Clothes: 0.06
- Transportation: 0.224
- Personal Care: 0.058
- Entertainment: 0.1537

## Products and services included in the index

The Expatistan cost of living index is based on a basket containing 52 products and services representative of the goods and services that a representative expatriate purchases on a regular basis. Brands, qualities and locations of the products in the basket are tailored to expatriate communities rather than to local residents. All reported prices include local taxes paid at the time of purchase, such as sales or value added taxes, where applicable.

The products in the index are grouped into the following categories: food, housing, clothing, transportation, personal care and entertainment.

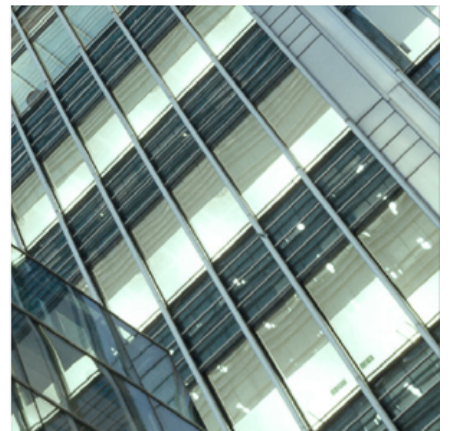
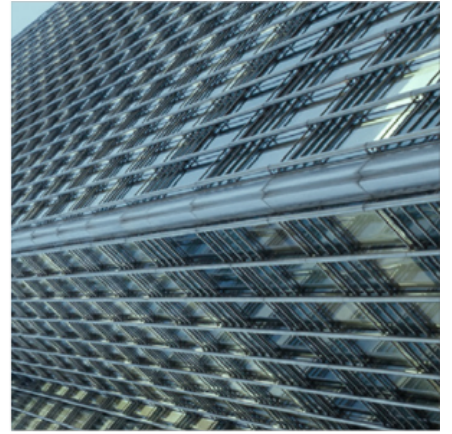
Some products and categories are not covered by the cost of living index. These include:

- Health care
- Taxes
- Education
- Travel
- Insurance
- Furniture
- Jewellery
- Illegal substances and services

## Note on exchange rates

Exchange rates are used to convert prices in the destination city into the home city's currency before the index is calculated. The exchange rates used in this report are those reported by the Yahoo! Finance Currencies Center on the day the report is issued.

In countries where the official exchange rate is artificially set and the real exchange rate used in everyday transactions is significantly different from the official rate (in Venezuela, for example), an alternative or parallel rate may be used.



## About Expatistan

Expatistan.com has run the original source for international cost-of-living comparisons since 2009. The project's goal is to bring transparency and accessibility to cost of living information, making expatriates' lives easier and more rewarding, and assisting companies looking to transfer employees to new cities and countries.

Expatistan's model of crowd-sourced data collection allows it to gather data simultaneously from around the world and to incorporate far more data points into its index than other companies can include in theirs. As of September 2016, the Expatistan cost of living index was based on more than 1,576,000 prices entered by 156,000 contributors from around the world.

## Disclaimer

Full disclaimer can be found at [www.expatistan.com/reports/disclaimer](http://www.expatistan.com/reports/disclaimer).

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