# Prices and earnings 2015 

Do I earn enough for the life I want?


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## Do I earn enough for the life I want?

## Africa

Cairo (Egypt)
Johannesburg (South Africa) Nairobi (Kenya)

## Asia

Bangkok (Thailand) Beijing (China) Hong Kong (China) Jakarta (Indonesia)
Kuala Lumpur (Malaysia) Manila (Philippines) Mumbai (India) New Delhi (India) Seoul (South Korea) Shanghai (China) Taipei (Taiwan) Tokyo (Japan)

## Eastern Europe

Bratislava (Slovakia)
Bucharest (Romania)
Budapest (Hungary)
Kiev (Ukraine)
Ljubljana (Slovenia)
Moscow (Russia)
Prague (Czech Republic)
Riga (Latvia)
Sofia (Bulgaria)
Tallinn (Estonia)
Vilnius (Lithuania)
Warsaw (Poland)

## Midale East

Doha (Qatar)
Dubai (United Arab Emirates)
Istanbul (Turkey)
Manama (Bahrain)
Nicosia (Cyprus)
Tel Aviv (Israel)

## North America

Chicago (United States) Los Angeles (United States) Mexico City (Mexico) Miami (United States) Montreal (Canada) New York City (United States) Toronto (Canada)

## Oceania

Auckland (New Zealand) Sydney (Australia)

## South America

Bogotá (Colombia)
Buenos Aires (Argentina) Lima (Peru)
Rio de Janeiro (Brazil)
Santiago de Chile (Chile)
São Paulo (Brazil)

Western Europe
Amsterdam (Netherlands)
Athens (Greece)
Barcelona (Spain)
Berlin (Germany)
Brussels (Belgium)
Copenhagen (Denmark)

Dublin (Ireland)
Frankfurt (Germany)
Geneva (Switzerland)
Helsinki (Finland)
Lisbon (Portugal)
London (Great Britain)
Luxembourg (Luxembourg)
Lyon (France)
Madrid (Spain)
Milan (Italy)
Munich (Germany)
Oslo (Norway)
Paris (France)
Rome (Italy)
Stockholm (Sweden)
Vienna (Austria)
Zurich (Switzerland)

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## Dear reader

Global exchange rates moved sufficiently of late to prompt talk of a "currency war". States and currency zones are hoping for a weak currency to generate momentum in their economies, especially in the export sector. The measures of various central banks aimed at staving off deflation are also affecting exchange rates. These circumstances make it more difficult to compare purchasing power in different currency zones.

Against this backdrop, we are particularly pleased to present you with the $16^{\text {th }}$ edition of our Prices and earnings study, in which we compare purchasing power in 71 cities across the globe. Our analysis of more than 68,000 datapoints highlights the effects of political and economic events on prices and earnings, and reveals significant changes compared with the previous study three years ago.

The cities of Zurich and Geneva, for instance, have become markedly more expensive since the last study - mainly due to the Swiss National Bank's decision to abandon the EURCHF minimum exchange rate early this year.

Three years ago, the minimum exchange rate was set at CHF 1.20. Life in cities within the eurozone and in Tokyo, on the other hand, has become less expensive as the euro and yen have depreciated against the US dollar. And with the currencies of certain emerging markets falling significantly, price drops have been even more pronounced in those parts of the world.

Prices and earnings is now available at www. ubs.com/pricesandearnings, from the UBS Newsstand and in the iOS app. We are also launching new open data options, so you can download all raw data from the first report in 1971 to the most recent 2015 figures for free.

We would like to thank all the participants in our survey, including students, UBS employees and various people around the world who tirelessly collected first-rate data for this report. We would also like to thank our colleagues at Communications \& Branding and WM Innovation for their cooperation in producing this report.

We hope you find it interesting and informative reading.

## Comparison of prices and earnings

Between the end of March and end of April 2015, we completed a standardized survey on prices of 122 goods and services, and earnings for 15 professions in 71 cities worldwide. The survey was conducted locally by mutually independent observers. More than 68,000 data points were collected and included in our calculations of the indicators in this report.

To effectively compare cities, we converted all prices and earnings in local currencies to a common currency, the US dollar (USD). Average exchange rates from the data collection period were used to minimize the effect of daily price fluctuations. The exchange rates are listed on pages 14-15.

While we originally started the survey with 72 cities, we needed to remove Caracas, Venezuela. Due to the current complex political and economic situation in the country, with large fluctuations in inflation and exchange rates, we decided that the results for it would not represent current circumstances.

## Reference basket of goods

To make an effective comparison of purchasing power worldwide, a standardized basket of goods and services is required, even though consumer habits and preferences vary greatly. Our reference basket of 122 goods and services is based on the monthly consumption habits of a European three-person family. If products were not available in some cities, or deviated too far from our parameters, local representative substitutes were sometimes used. To make up for the missing coverage, individual items were weighted differently as a correction. We attained a coverage level of almost 70\% of the EU's harmonized index of consumer prices (HCIP) this year.

Changes in consumer habits stemming from technological developments were accounted for by updated specifications for electronic products. The iPhone 4S from 2012, for instance, was replaced with an iPhone 6. We also expanded data collection possibilities for our housing section to get a more accurate picture of local accommodation worldwide. Also, the furnished four-room apartment was changed to a furnished two-room apartment.

## Reference profile of working populations

As with our prices section, we created a reference profile of 15 professions, representing the structure of the working population in Europe. We included profiles of workers of varying ages, family status, work experience and education levels. To offer a fuller picture, we introduced the profession of a hospital nurse to replace the financial analyst. This change affected our weighting of the other professions, a fact to consider when comparing this version of the report to those of previous years. We also expanded our social security contributions section considerably to encapsulate both employee and employer contributions, providing a more realistic cost of the global workforce.

## Note

Individual cities by geographical region are found on the map on pages 2-3.

Price, earnings, index, time, and percentage figures are rounded off in most cases to improve readability. The index values are calculated on data collected in the survey, relative to a reference city.

The sample size per city may not be statistically representative for single data points.

Our weightings are based on Eurostat data for EU countries.

Overview

## Price levels

The price level rankings reveal the relative cost of goods and services worldwide. Zurich, Geneva, and New York City have the highest prices, over 2.5 times higher than those in Bucharest, Sofia, and Kiev, with the lowest. Istanbul, Doha, and Lyon are middle-ranking cities; prices there are somewhat closer to those of high-ranking cities than to those of lower ranked ones.

## Do I live in an expensive city?

When rents are included in the price level index, almost all city indices decrease in relation to New York City, with an average decrease of $17 \%$. Hong Kong is the only exception, gaining over 5\% due to high rents, and moving up 13 spots in our ranking. Rents also make New York City the most expensive city, and Sofia the least expensive. Price levels including rents show how large an impact rents have on monthly spending. Assuming similar incomes, residents of Hong Kong must allocate almost $8 \%$ more of their income to housing than those in New York City. By comparison, residents in Zurich spend almost 8\% less on rent than New York City residents.

## Methodology

The composition of our reference basket of goods and services represents the spending habits of a three-person European family. The prices of the 122 goods and services are weighted by monthly consumption. For example, we assume that a family in Europe consumes almost 15 kilos ( 33 pounds) of vegetables every month, but only buys a new personal computer every 2.5 years. Price level calculations are based on the cost of a basket of 122 goods and services including rent. For our index, these reference basket prices are shown as relative to our reference city, New York City. Rent values were calculated by weighting the prices of our three types of housing equally (see page 25 for more details).

## Price levels

| Cities' | Excl. rent | Incl. rent |
| :---: | :---: | :---: |
| Zurich | 108.7 | 92.6 |
| Geneva | 106.1 | 91.8 |
| New York City | 100.0 | 100.0 |
| Oslo | 92.9 | 79.9 |
| Copenhagen | 88.0 | 74.3 |
| London | 84.7 | 79.5 |
| Chicago | 83.5 | 76.7 |
| Tokyo | 83.1 | 70.6 |
| Auckland | 82.8 | 67.6 |
| Sydney | 80.5 | 72.5 |
| Seoul | 79.2 | 64.2 |
| Toronto | 78.1 | 63.7 |
| Milan | 77.9 | 64.5 |
| Stockholm | 76.9 | 62.8 |
| Montreal | 76.2 | 58.9 |
| Miami | 76.1 | 67.7 |
| Los Angeles | 76.0 | 67.4 |
| Helsinki | 74.3 | 63.2 |
| Hong Kong | 72.9 | 76.8 |
| Paris | 72.6 | 63.8 |
| Luxembourg | 72.3 | 66.1 |
| Tel Aviv | 72.0 | 61.4 |
| Dubai | 71.1 | 66.1 |
| Buenos Aires | 70.4 | 56.1 |
| Dublin | 70.3 | 63.1 |
| Taipei | 67.3 | 62.7 |
| Brussels | 67.2 | 57.3 |
| Rome | 67.1 | 57.1 |
| Manama | 66.6 | 55.4 |
| Frankfurt | 65.8 | 55.1 |
| Munich | 65.5 | 56.1 |
| Vienna | 65.4 | 53.4 |
| Amsterdam | 65.3 | 55.5 |
| Shanghai | 64.9 | 54.3 |
| Istanbul | 64.8 | 53.0 |
| Doha | 64.8 | 61.4 |
| Lyon | 64.8 | 51.2 |
| Berlin | 63.3 | 51.3 |
| Barcelona | 63.2 | 50.5 |
| Beijing | 61.4 | 53.2 |
| Madrid | 60.6 | 50.4 |
| Nicosia | 60.3 | 48.4 |
| Sao Paulo | 59.4 | 49.5 |
| Athens | 58.9 | 47.5 |
| Rio de Janeiro | 57.9 | 49.2 |
| Bangkok | 57.5 | 46.4 |
| Lisbon | 55.5 | 45.3 |
| Mexico City | 54.7 | 46.2 |
| Tallinn | 54.4 | 44.0 |
| Ljubljana | 54.0 | 44.0 |
| Bogotá | 53.6 | 43.7 |
| Jakarta | 53.3 | 41.6 |
| Bratislava | 53.3 | 42.6 |
| Santiago de Chile | 52.8 | 44.0 |
| Lima | 52.2 | 42.8 |
| Kuala Lumpur | 52.0 | 41.2 |
| Moscow | 51.9 | 45.2 |
| Manila | 51.3 | 41.1 |
| Vilnius | 50.9 | 40.9 |
| Nairobi | 50.3 | 40.5 |
| Warsaw | 48.8 | 39.6 |
| Cairo | 48.1 | 38.7 |
| Budapest | 47.6 | 38.6 |
| Johannesburg | 46.6 | 40.5 |
| Riga | 45.8 | 37.1 |
| Prague | 45.6 | 36.4 |
| New Delhi | 45.5 | 36.9 |
| Mumbai | 44.9 | 37.2 |
| Bucharest | 43.8 | 34.5 |
| Sofia | 39.0 | 30.0 |
| Kiev | 38.1 | 30.3 |

## Wage levels

Wage levels indicate earnings worldwide. Workers in cities with high relative gross salaries (Zurich, Geneva and Luxembourg) receive pay that is on average 19 times those in Nairobi, Jakarta and Kiev. Cities such as Tel Aviv, Barcelona and Seoul ended up in the middle of our rankings. Their workers receive nominal gross salaries a little under onehalf of those living in the highest-ranking cities, but seven times those from the lowest-ranking cities.

## Would I earn more in another city?

Net wages take into account deductions, and will usually shift all cities down in rankings compared to New York City. Relatively high deductions, stemming from significant social security contributions and taxes, are seen in Copenhagen, Brussels and Milan. If one considers net instead of gross wages, wage-level ranking drops an average of $22 \%$. Then there are cities, such as Manama, Doha and Dubai, whose net-wage index rises by an average of $16 \%$ due to comparatively lower deductions. Net wages are a good indication of expendable income: a worker in Zurich will have almost 23 times the amount of money to spend than a similar worker in Kiev.

## Methodology

Gross hourly wages are calculated from the survey's gross annual earnings data divided by the annual number of working hours. Net hourly earnings are calculated by removing taxes, social security and other special deductions from gross annual income for each city, and dividing it by annual working hours. Hourly wages are weighted according to the distribution of our 15 professions.

| Wage levels |  |  |
| :---: | :---: | :---: |
| Cities ${ }^{1}$ | Gross | Net |
| Zurich | 131.3 | 141.8 |
| Geneva | 130.1 | 135.2 |
| Luxembourg | 106.4 | 97.1 |
| New York City | 100.0 | 100.0 |
| Miami | 92.4 | 92.9 |
| Copenhagen | 92.2 | 56.8 |
| Sydney | 89.8 | 83.9 |
| Oslo | 87.7 | 80.4 |
| Los Angeles | 87.5 | 88.2 |
| Chicago | 85.2 | 84.5 |
| Montreal | 77.4 | 78.2 |
| Stockholm | 76.0 | 63.7 |
| London | 75.5 | 72.3 |
| Brussels | 72.8 | 61.1 |
| Toronto | 71.4 | 69.5 |
| Tokyo | 70.1 | 66.5 |
| Auckland | 70.0 | 68.6 |
| Dublin | 68.8 | 64.3 |
| Vienna | 68.5 | 69.7 |
| Helsinki | 67.8 | 62.8 |
| Munich | 67.7 | 68.2 |
| Frankfurt | 66.6 | 67.1 |
| Amsterdam | 65.3 | 53.3 |
| Berlin | 64.0 | 64.5 |
| Paris | 62.8 | 67.1 |
| Rome | 60.0 | 54.2 |
| Nicosia | 59.1 | 64.4 |
| Milan | 58.7 | 53.1 |
| Lyon | 58.6 | 62.8 |
| Barcelona | 51.7 | 46.8 |
| Madrid | 50.9 | 46.2 |
| Hong Kong | 49.4 | 51.3 |
| Tel Aviv | 46.5 | 47.3 |
| Seoul | 45.9 | 50.2 |
| Manama | 45.7 | 53.1 |
| Dubai | 40.4 | 46.9 |
| Taipei | 35.1 | 38.8 |
| Sao Paulo | 34.7 | 38.8 |
| Ljubljana | 33.6 | 32.7 |
| Johannesburg | 32.8 | 30.7 |
| Doha | 32.2 | 37.4 |
| Lisbon | 31.9 | 32.0 |
| Athens | 29.8 | 28.2 |
| Bratislava | 28.4 | 27.6 |
| Rio de Janeiro | 26.8 | 30.3 |
| Istanbul | 26.5 | 26.0 |
| Tallinn | 26.1 | 24.2 |
| Warsaw | 23.2 | 22.4 |
| Santiago de Chile | 23.1 | 25.1 |
| Buenos Aires | 22.6 | 26.3 |
| Vilnius | 21.5 | 21.2 |
| Moscow | 21.3 | 21.5 |
| Prague | 20.0 | 20.3 |
| Riga | 18.1 | 17.1 |
| Shanghai | 18.1 | 19.2 |
| Kuala Lumpur | 17.8 | 20.2 |
| Bogotá | 17.5 | 20.3 |
| Bangkok | 16.8 | 18.9 |
| Lima | 16.3 | 18.9 |
| Budapest | 15.8 | 16.0 |
| Bucharest | 14.1 | 14.2 |
| Beijing | 13.4 | 14.5 |
| Mexico City | 12.2 | 13.0 |
| Sofia | 11.4 | 12.1 |
| Manila | 9.4 | 9.2 |
| Mumbai | 8.3 | 9.1 |
| Cairo | 8.2 | 8.8 |
| New Delhi | 7.6 | 8.5 |
| Nairobi | 6.5 | 6.5 |
| Jakarta | 6.2 | 6.8 |
| Kiev | 6.1 | 6.1 |

Domestic purchasing power subject to...

## Domestic purchasing power

Taken separately, price and earnings data has proven interesting to interpret, but, when compared, such data enables us to reach conclusions about worldwide purchasing power. If one takes net hourly pay as the benchmark, earners in Luxembourg have the highest purchasing power, more than 10 times greater than for earners in Jakarta, the city exhibiting the lowest purchasing power of all surveyed cities in 2015.

## What are my wages actually worth?

Our basket of goods represents the monthly consumption of a three-person family in Europe. The residents of major cities in Switzerland and the USA can afford 20 and 18 baskets per year respectively, while those of Western European cities such as London, Lyon and Oslo can buy a basket every month. Our basket becomes a challenge for the inhabitants of cities in Asia and Africa (who can afford only a basket every four months, on average). This can be partly explained by differing consumption habits, but it also indicates that families in some cities need supplementary incomes to support a European standard of life.

## Methodology

To calculate the first two parts of the purchasing power indicator, we divided gross and net hourly wages for each city by the respective cost of our basket of goods, excluding rent, and indexed relative to New York City. The third part is calculated as an indexed ranking based on how many baskets a worker can purchase annually. We divided net annual income for each city by the cost of the basket (excluding rent). This indicator is sorted by the indexed purchasing power of net hourly wages. Rent prices were excluded, as their variability among the housing choices presented in our survey may lead to different rankings of cities in combined price and earnings indicators.

| Cities | Gross hourly pay | $\begin{array}{r} \text { Net } \\ \text { hourly pay } \\ \hline \end{array}$ | $\begin{array}{r} \text { Net } \\ \text { annual } \\ \text { income } \end{array}$ |
| :---: | :---: | :---: | :---: |
| Luxembourg | 147.1 | 134.3 | 123.8 |
| Zurich | 120.8 | 130.5 | 135.1 |
| Geneva | 122.6 | 127.5 | 128.3 |
| Miami | 121.5 | 122.1 | 122.6 |
| Los Angeles | 115.1 | 116.0 | 121.1 |
| Nicosia | 98.0 | 106.7 | 107.2 |
| Vienna | 104.7 | 106.5 | 96.8 |
| Sydney | 111.5 | 104.2 | 103.2 |
| Munich | 103.3 | 104.2 | 97.1 |
| Montreal | 101.4 | 102.6 | 99.1 |
| Frankfurt | 101.2 | 102.0 | 97.0 |
| Berlin | 101.0 | 101.9 | 97.6 |
| Chicago | 102.0 | 101.1 | 111.2 |
| New York City | 100.0 | 100.0 | 100.0 |
| Lyon | 90.4 | 96.9 | 85.5 |
| Paris | 86.5 | 92.4 | 80.2 |
| Dublin | 97.8 | 91.4 | 87.6 |
| Brussels | 108.4 | 90.9 | 84.5 |
| Toronto | 91.5 | 89.1 | 95.7 |
| Oslo | 94.4 | 86.6 | 81.7 |
| London | 89.2 | 85.3 | 80.4 |
| Helsinki | 91.2 | 84.5 | 75.9 |
| Stockholm | 98.9 | 82.9 | 79.4 |
| Auckland | 84.6 | 82.9 | 89.4 |
| Amsterdam | 100.0 | 81.7 | 76.3 |
| Rome | 89.5 | 80.8 | 76.0 |
| Tokyo | 84.4 | 80.0 | 89.0 |
| Manama | 68.6 | 79.6 | 89.5 |
| Madrid | 84.0 | 76.2 | 71.4 |
| Barcelona | 81.8 | 74.1 | 69.4 |
| Hong Kong | 67.8 | 70.4 | 99.3 |
| Milan | 75.3 | 68.1 | 62.4 |
| Johannesburg | 70.5 | 66.0 | 66.0 |
| Dubai | 56.8 | 65.9 | 78.0 |
| Tel Aviv | 64.6 | 65.8 | 72.6 |
| Sao Paulo | 58.4 | 65.4 | 64.4 |
| Copenhagen | 104.8 | 64.5 | 59.3 |
| Seoul | 57.9 | 63.4 | 66.4 |
| Ljubljana | 62.2 | 60.6 | 60.8 |
| Doha | 49.7 | 57.8 | 65.1 |
| Taipei | 52.2 | 57.6 | 66.7 |
| Lisbon | 57.4 | 57.6 | 54.5 |
| Rio de Janeiro | 46.3 | 52.3 | 49.4 |
| Bratislava | 53.3 | 51.7 | 51.7 |
| Athens | 50.6 | 47.8 | 46.6 |
| Santiago de Chile | 43.7 | 47.6 | 53.6 |
| Warsaw | 47.5 | 45.9 | 43.7 |
| Prague | 43.9 | 44.6 | 42.3 |
| Tallinn | 47.9 | 44.5 | 41.8 |
| Vilnius | 42.3 | 41.7 | 38.7 |
| Moscow | 41.0 | 41.4 | 36.9 |
| Istanbul | 40.9 | 40.1 | 44.3 |
| Kuala Lumpur | 34.2 | 38.8 | 40.7 |
| Bogotá | 32.6 | 37.8 | 42.9 |
| Buenos Aires | 32.2 | 37.4 | 38.4 |
| Riga | 39.6 | 37.3 | 36.8 |
| Lima | 31.2 | 36.3 | 38.4 |
| Budapest | 33.2 | 33.5 | 34.7 |
| Bangkok | 29.1 | 32.9 | 39.0 |
| Bucharest | 32.1 | 32.3 | 31.6 |
| Sofia | 29.2 | 31.0 | 30.5 |
| Shanghai | 27.9 | 29.6 | 32.9 |
| Mexico City | 22.4 | 23.8 | 29.1 |
| Beijing | 21.8 | 23.6 | 25.0 |
| Mumbai | 18.4 | 20.3 | 25.0 |
| New Delhi | 16.7 | 18.6 | 22.3 |
| Cairo | 17.1 | 18.4 | 20.7 |
| Manila | 18.4 | 17.9 | 18.9 |
| Kiev | 16.1 | 16.0 | 15.8 |
| Nairobi | 13.0 | 12.8 | 15.2 |
| Jakarta | 11.7 | 12.8 | 14.6 |



## Working time required to buy...

Some consumer goods are available all over the globe. We decided to feature four in our section that calculates how much time an average worker in each city must work to earn enough to purchase each one. As staple consumer goods, the McDonald's Big Mac and the Apple iPhone will be the same quality and nature whether bought in Doha or Rio de Janeiro. This makes their worldwide prices and affordability comparable. Workers in Hong Kong only have to work on average nine minutes to be able to buy a Big Mac, while workers in Nairobi have to work almost three hours.

## Who works harder to buy a Big Mac?

The distribution of city rankings changes according to the reference goods being bought. Oslo, in the lower half of the table for buying bread, jumps to the top for rice. Workers there can afford it in one-eighteenth of the time that their counterparts in New Delhi require. For the iPhone, workers in cities such as Zurich and New York City require on average less than three days on the job to be able to grab one. In contrast, workers in Kiev must labor, on average, over 13 weeks to earn enough for the same phone. Workers in Buenos Aires cannot access official markets to purchase the iPhone 6 locally.

## Methodology

Prices of each product were an average from all survey participants and, where possible, were compared to the manufacturers' official local retail price. The price of each product was then divided by the net hourly wage for our 15 professions and converted to either minutes or hours.

| Working time required to buy |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Cities | 1 Big Mac in min . | 1 kilo of bread in min. | 1 kilo of rice in min. | 1 iPhone 6 16GB, in hrs. |
| Amsterdam | 16 | 7 | 7 | 49.8 |
| Athens | 26 | 20 | 34 | 98.2 |
| Auckland | 13 | 13 | 5 | 44.6 |
| Bangkok | 37 | 47 | 17 | 149.6 |
| Barcelona | 21 | 14 | 7 | 59.1 |
| Beijing | 42 | 40 | 36 | 217.8 |
| Berlin | 13 | 9 | 13 | 43.3 |
| Bogotá | 35 | 18 | 18 | 143.7 |
| Bratislava | 24 | 13 | 15 | 100.8 |
| Brussels | 16 | 14 | 9 | 46.1 |
| Bucharest | 44 | 11 | 28 | 219.1 |
| Budapest | 44 | 14 | 20 | 183.7 |
| Buenos Aires | 29 | 57 | 21 | n.a. |
| Cairo | 62 | 32 | 66 | 353.4 |
| Chicago | 11 | 10 | 6 | 28.4 |
| Copenhagen | 20 | 13 | 11 | 54.6 |
| Doha | 18 | 19 | 12 | 69.9 |
| Dubai | 17 | 9 | 13 | 55.8 |
| Dublin | 15 | 6 | 8 | 43.4 |
| Frankfurt | 13 | 10 | 14 | 41.6 |
| Geneva | 11 | 5 | 4 | 21.6 |
| Helsinki | 16 | 10 | 10 | 44.4 |
| Hong Kong | 9 | 18 | 13 | 51.9 |
| Istanbul | 34 | 22 | 23 | 132.2 |
| Jakarta | 67 | 70 | 58 | 468.0 |
| Johannesburg | 17 | 10 | 13 | 86.9 |
| Kiev | 55 | 26 | 44 | 627.2 |
| Kuala Lumpur | 23 | 17 | 13 | 136.3 |
| Lima | 38 | 45 | 15 | 192.2 |
| Lisbon | 22 | 16 | 8 | 88.6 |
| Ljubljana | 15 | 11 | 25 | 85.4 |
| London | 12 | 6 | 16 | 41.2 |
| Los Angeles | 11 | 10 | 5 | 27.2 |
| Luxembourg | 10 | 12 | 7 | 28.2 |
| Lyon | 16 | 10 | 12 | 47.2 |
| Madrid | 19 | 13 | 7 | 60.5 |
| Manama | 20 | 5 | 11 | 62.7 |
| Manila | 87 | 83 | 34 | 334.2 |
| Mexico City | 78 | 46 | 22 | 217.6 |
| Miami | 11 | 11 | 7 | 27.0 |
| Milan | 18 | 16 | 14 | 53.4 |
| Montreal | 13 | 12 | 5 | 32.1 |
| Moscow | 20 | 12 | 24 | 158.3 |
| Mumbai | 40 | 27 | 49 | 349.4 |
| Munich | 13 | 7 | 5 | 40.9 |
| Nairobi | 173 | 44 | 62 | 468.0 |
| New Delhi | 50 | 23 | 73 | 360.3 |
| New York City | 11 | 12 | 16 | 24.0 |
| Nicosia | 11 | 5 | 9 | 44.9 |
| Oslo | 19 | 20 | 4 | 37.6 |
| Paris | 15 | 10 | 9 | 42.2 |
| Prague | 30 | 11 | 15 | 143.2 |
| Riga | 34 | 20 | 26 | 172.5 |
| Rio de Janeiro | 32 | 18 | 9 | 139.9 |
| Rome | 18 | 10 | 14 | 53.7 |
| Santiago de Chile | 32 | 15 | 13 | 130.8 |
| Sao Paulo | 25 | 16 | 5 | 109.2 |
| Seoul | 18 | 22 | 19 | 57.2 |
| Shanghai | 35 | 37 | 25 | 163.8 |
| Sofia | 40 | 14 | 28 | 231.3 |
| Stockholm | 17 | 18 | 11 | 46.9 |
| Sydney | 11 | 10 | 5 | 34.0 |
| Taipei | 13 | 10 | 14 | 69.2 |
| Tallinn | 29 | 15 | 12 | 115.5 |
| Tel Aviv | 21 | 12 | 12 | 75.3 |
| Tokyo | 10 | 14 | 10 | 40.5 |
| Toronto | 15 | 12 | 7 | 37.2 |
| Vienna | 12 | 10 | 6 | 40.0 |
| Vilnius | 29 | 19 | 17 | 131.6 |
| Warsaw | 25 | 20 | 24 | 141.6 |
| Zurich | 11 | 5 | 5 | 20.6 |



- 1 iPhone 6 16GB
- 1 Big Mac
- 1 kilo of bread
- 1 kilo of rice



## Exchange rates used and inflation

Changing exchange rates should - in theory and in the long run - compensate for differences in inflation across countries and cities. If US inflation is $2 \%$ higher than the Eurozone's for an extended time, the US dollar should depreciate 2\% per year against the euro. However, exchange rates tend to fluctuate more than inflation differences across currency areas, due to political events, economic developments, and/or monetary policy decisions by central banks. This helps to explain the relative movements of cities in our rankings.

The Swiss National Bank dropped the 1.20 EURCHF floor on January 15,2015 . The impact of this decision was still being reflected in exchange rates a few months later, when we were collecting data. The Swiss franc appreciated 5\% against the US dollar between the beginning of the year and April. This greatly affected our indicators, as Zurich and Geneva both rose to the top in price and wage levels. Similarly, the euro had lost almost one-quarter of its value against the US dollar from mid-2014 until the end of the first quarter of 2015, which caused Eurozone cities to plunge in our price and wage-level rankings.

## How stable is my currency?

The trade and financial sanctions imposed on Russia by Western Europe and the USA since the Ukraine conflict in mid-2014 has had a sizeable impact on the Russian ruble, which has lost almost $42 \%$ of its value in US dollar terms since 2012. The Ukrainian hryvnia also experienced an over 64\% drop relative to the US dollar after the Ukrainian central bank stopped supporting its reserves in early 2014. This also led to $12 \%$ local inflation that year. Both Russia and Ukraine plummeted in our rankings, with Kiev now at the bottom of our price and wage-level charts.

Economic and political instability in South America greatly affected exchange rates, placing certain countries in unfavorable positions. The Brazilian real has depreciated almost $35 \%$ against the US dollar since 2012 due to continuously declining foreign trade. This resulted in official inflation figures of over 6\% in 2013 and 2014. Countries like Argentina and Colombia faced similar fates.

The Asian scene is mixed. The Japanese yen lost value but the South Korean won appreciated versus the US dollar. Japan has yet to experience the growth promised by Abenomics, introduced in 2013, though inflation has risen from $0.0 \%$ in 2012 to $2.7 \%$ in 2014. The South Korean won has gained over 6\% against the US dollar since 2012, with inflation falling from $2.2 \%$ in 2012 to $1.3 \%$ in 2014.

## Exchange rates

| Cities | Local currency (LC) | Comparison Exchange Value | $\begin{gathered} \text { USD/LC } \\ 2015{ }^{1} \end{gathered}$ | $\begin{gathered} \text { USD/LC } \Delta \% \\ \Delta 2015 / 2012^{2} \\ \hline \end{gathered}$ | $\begin{gathered} \text { EUR/LC } \\ 2015{ }^{\prime} \end{gathered}$ | $\begin{array}{r} \text { EUR/LC } \Delta \% \\ \Delta 2015 / 2012^{2} \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Amsterdam | EUR | 1 | 1.081 | -16.50 | 1.000 | - |
| Athens | EUR | 1 | 1.081 | -16.50 | 1.000 | - |
| Auckland | NZD | 1 | 0.759 | -3.31 | 0.702 | 15.66 |
| Bangkok | THB | 1 | 0.031 | -4.40 | 0.028 | 14.53 |
| Barcelona | EUR | 1 | 1.081 | -16.50 | 1.000 | - |
| Beijing | CNY | 1 | 0.161 | 1.90 | 0.149 | 21.97 |
| Berlin | EUR | 1 | 1.081 | -16.50 | 1.000 | - |
| Bogotá | COP | 100 | 0.040 | -28.82 | 0.037 | -14.57 |
| Bratislava | EUR | 1 | 1.081 | -16.50 | 1.000 | - |
| Brussels | EUR | 1 | 1.081 | -16.50 | 1.000 | - |
| Bucharest | RON | 1 | 0.245 | -16.32 | 0.227 | 0.25 |
| Budapest | HUF | 100 | 0.361 | -19.19 | 0.334 | -3.25 |
| Buenos Aires | ARS | 1 | 0.113 | -49.98 | 0.104 | -40.04 |
| Cairo | EGP | 1 | 0.131 | -20.83 | 0.121 | -5.19 |
| Chicago | USD | 1 | 1.000 | - | 0.925 | 19.81 |
| Copenhagen | DKK | 1 | 0.145 | -16.89 | 0.134 | -0.45 |
| Doha | QAR | 1 | 0.275 | 0.01 | 0.254 | 19.82 |
| Dubai | AED | 1 | 0.272 | -0.03 | 0.252 | 19.79 |
| Dublin | EUR | 1 | 1.081 | -16.50 | 1.000 | - |
| Frankfurt | EUR | 1 | 1.081 | -16.50 | 1.000 | - |
| Geneva | CHF | 1 | 1.041 | -3.47 | 0.963 | 15.64 |
| Helsinki | EUR | 1 | 1.081 | -16.50 | 1.000 | - |
| Hong Kong | HKD | 1 | 0.129 | 0.15 | 0.119 | 19.98 |
| Istanbul | TRY | 1 | 0.377 | -32.50 | 0.349 | -19.17 |
| Jakarta | IDR | 1000 | 0.077 | -28.92 | 0.071 | -14.85 |
| Johannesburg | ZAR | 1 | 0.083 | -33.19 | 0.077 | -19.94 |
| Kiev | UAH | 1 | 0.044 | -64.39 | 0.041 | -57.32 |
| Kuala Lumpur | MYR | 1 | 0.276 | -15.41 | 0.255 | 1.33 |
| Lima | PEN | 1 | 0.321 | -14.92 | 0.297 | 2.04 |
| Lisbon | EUR | 1 | 1.081 | -16.50 | 1.000 | - |
| Ljubljana | EUR | 1 | 1.081 | -16.50 | 1.000 | - |
| London | GBP | 1 | 1.496 | -6.92 | 1.383 | 11.47 |
| Los Angeles | USD | 1 | 1.000 | - | 0.925 | 19.81 |
| Luxembourg | EUR | 1 | 1.081 | -16.50 | 1.000 | - |
| Lyon | EUR | 1 | 1.081 | -16.50 | 1.000 | - |
| Madrid | EUR | 1 | 1.081 | -16.50 | 1.000 | - |
| Manama | BHD | 1 | 2.652 | -0.01 | 2.453 | 19.47 |
| Manila | PHP | 1 | 0.023 | -4.25 | 0.021 | 14.52 |
| Mexico City | MXN | 1 | 0.066 | -11.77 | 0.061 | 5.70 |
| Miami | USD | 1 | 1.000 | - | 0.925 | 19.81 |
| Milan | EUR | 1 | 1.081 | -16.50 | 1.000 | - |
| Montreal | CAD | 1 | 0.810 | -18.92 | 0.749 | -2.89 |
| Moscow | RUB | 1 | 0.019 | -42.86 | 0.018 | -31.50 |
| Mumbai | INR | 1 | 0.016 | -14.67 | 0.015 | 1.94 |
| Munich | EUR | 1 | 1.081 | -16.50 | 1.000 | - |
| Nairobi | KES | 100 | 1.070 | -10.57 | 0.990 | 7.43 |
| New Delhi | INR | 1 | 0.016 | -14.67 | 0.015 | 1.94 |
| New York City | USD | 1 | 1.000 | - | 0.925 | 19.81 |
| Nicosia | EUR | 1 | 1.081 | -16.50 | 1.000 | - |
| Oslo | NOK | 1 | 0.127 | -25.75 | 0.117 | -11.12 |
| Paris | EUR | 1 | 1.081 | -16.50 | 1.000 | - |
| Prague | CZK | 1 | 0.039 | -23.38 | 0.036 | -8.29 |
| Riga | EUR | 1 | 1.081 | n.a. ${ }^{3}$ | 1.000 | n.a. ${ }^{3}$ |
| Rio de Janeiro | BRL | 1 | 0.328 | -35.64 | 0.303 | -22.94 |
| Rome | EUR | 1 | 1.081 | -16.50 | 1.000 | - |
| Santiago de Chile | CLP | 100 | 0.163 | -20.07 | 0.151 | -4.33 |
| Sao Paulo | BRL | 1 | 0.328 | -35.64 | 0.303 | -22.94 |
| Seoul | KRW | 100 | 0.092 | 5.49 | 0.085 | 26.32 |
| Shanghai | CNY | 1 | 0.161 | 1.90 | 0.149 | 21.97 |
| Sofia | BGN | 1 | 0.553 | -16.53 | 0.511 | -0.01 |
| Stockholm | SEK | 1 | 0.116 | -19.64 | 0.107 | -3.76 |
| Sydney | AUD | 1 | 0.773 | -23.35 | 0.715 | -8.25 |
| Taipei | TWD | 1 | 0.032 | -5.25 | 0.030 | 13.50 |
| Tallinn | EUR | 1 | 1.081 | -16.50 | 1.000 | - |
| Tel Aviv | ILS | 1 | 0.254 | -3.30 | 0.235 | 15.90 |
| Tokyo | JPY | 1 | 0.008 | -33.23 | 0.008 | -20.01 |
| Toronto | CAD | 1 | 0.810 | -18.92 | 0.749 | -2.89 |
| Vienna | EUR | 1 | 1.081 | -16.50 | 1.000 | - |
| Vilnius | EUR | 1 | 1.081 | n.a. ${ }^{4}$ | 1.000 | n.a. ${ }^{4}$ |
| Warsaw | PLN | 1 | 0.269 | -11.86 | 0.248 | 5.62 |
| Zurich | CHF | 1 | 1.041 | -3.47 | 0.963 | 15.64 |

[^0]
## Overview

## Inflation 2012-2014 ${ }^{1}$

| Cities | 2012 | 2013 | 2014 |
| :---: | :---: | :---: | :---: |
| Amsterdam | 2.5 | 2.5 | 1.0 |
| Athens | 1.5 | -0.9 | -1.3 |
| Auckland | 0.9 | 1.3 | 0.8 |
| Bangkok | 3.0 | 2.2 | 1.9 |
| Barcelona | 2.4 | 1.4 | -0.1 |
| Beijing | 2.7 | 2.6 | 2.0 |
| Berlin | 2.0 | 1.5 | 0.9 |
| Bogotá | 3.2 | 2.0 | 2.9 |
| Bratislava | 3.6 | 1.4 | -0.1 |
| Brussels | 2.8 | 1.1 | 0.3 |
| Bucharest | 3.3 | 4.0 | 1.1 |
| Budapest | 5.7 | 1.7 | -0.2 |
| Buenos Aires² | 10.8 | 10.9 | 23.9 |
| Cairo | 7.1 | 9.4 | 10.1 |
| Chicago | 2.1 | 1.5 | 1.6 |
| Copenhagen | 2.4 | 0.8 | 0.6 |
| Doha | 1.9 | 3.1 | 3.1 |
| Dubai | 0.7 | 1.1 | 2.3 |
| Dublin | 1.7 | 0.5 | 0.2 |
| Frankfurt | 2.0 | 1.5 | 0.9 |
| Geneva | -0.7 | -0.2 | 0.0 |
| Helsinki | 2.8 | 1.5 | 1.0 |
| Hong Kong | 4.1 | 4.4 | 4.4 |
| Istanbul | 8.9 | 7.5 | 8.9 |
| Jakarta | 4.3 | 6.4 | 6.4 |
| Johannesburg | 5.7 | 5.4 | 6.4 |
| Kiev | 0.6 | -0.3 | 12.2 |
| Kuala Lumpur | 1.7 | 2.1 | 3.1 |
| Lima | 3.7 | 2.8 | 3.2 |
| Lisbon | 2.8 | 0.3 | -0.3 |
| Ljubljana | 2.6 | 1.8 | 0.2 |
| London | 2.8 | 2.6 | 1.5 |
| Los Angeles | 2.1 | 1.5 | 1.6 |
| Luxembourg | 2.7 | 1.7 | 0.6 |
| Lyon | 2.0 | 0.9 | 0.5 |
| Madrid | 2.4 | 1.4 | -0.1 |
| Manama | 2.8 | 3.2 | 2.8 |
| Manila | 3.2 | 3.0 | 4.1 |
| Mexico City | 4.1 | 3.8 | 4.0 |
| Miami | 2.1 | 1.5 | 1.6 |
| Milan | 3.0 | 1.2 | 0.2 |
| Montreal | 1.5 | 0.9 | 1.9 |
| Moscow | 5.1 | 6.8 | 7.8 |
| Mumbai | 9.3 | 10.9 | 6.4 |
| Munich | 2.0 | 1.5 | 0.9 |
| Nairobi | 9.4 | 5.7 | 6.9 |
| New Delhi | 9.3 | 10.9 | 6.4 |
| New York City | 2.1 | 1.5 | 1.6 |
| Nicosia | 2.4 | -0.4 | -1.4 |
| Oslo | 0.7 | 2.1 | 2.0 |
| Paris | 2.0 | 0.9 | 0.5 |
| Prague | 3.3 | 1.4 | 0.3 |
| Riga | 2.2 | 0.0 | 0.6 |
| Rio de Janeiro | 5.4 | 6.2 | 6.3 |
| Rome | 3.0 | 1.2 | 0.2 |
| Santiago de Chile | 3.0 | 1.8 | 4.4 |
| Sao Paulo | 5.4 | 6.2 | 6.3 |
| Seoul | 2.2 | 1.3 | 1.3 |
| Shanghai | 2.7 | 2.6 | 2.0 |
| Sofia | 3.0 | 0.9 | -1.4 |
| Stockholm | 0.9 | 0.0 | -0.2 |
| Sydney | 1.8 | 2.4 | 2.5 |
| Taipei ${ }^{2}$ | 1.9 | 0.8 | 1.2 |
| Tallinn | 3.9 | 2.8 | -0.1 |
| Tel Aviv | 1.7 | 1.5 | 0.5 |
| Tokyo | 0.0 | 0.4 | 2.7 |
| Toronto | 1.5 | 0.9 | 1.9 |
| Vienna | 2.5 | 2.0 | 1.6 |
| Vilnius | 3.1 | 1.1 | 0.1 |
| Warsaw | 3.6 | 1.0 | 0.1 |
| Zurich | -0.7 | -0.2 | 0.0 |

[^1]Price comparison

## Total expenditure on goods and services

Total expenditure on goods and services aims to measure the average cost of living in each of the surveyed cities, and the results are astounding. Zurich, the most expensive city in our survey, has a cost of living 185\% higher than that of Kiev, our least expensive city. Expenditure in mid-dle-ranking cities such as Shanghai, Berlin, and São Paulo is on average $75 \%$ less than that in Zurich, and $60 \%$ more than in Kiev.

## What is the cost of living?

The differences in prices between goods and services are significant. Non-tradable items, or items whose quality differs greatly with geographic location, such as haircuts, schooling and hotel rooms, have the greatest range in prices among cities. For example, the price of a haircut in Oslo (most expensive) is twenty times higher than in Jakarta (least expensive). Among tradable goods, such as rice, an iPhone, or a women's dress suit, the price difference is much less - rice is only seven times more expensive in New York City than in São Paulo, where prices are the highest and lowest, respectively.

## Methodology

Total expenditure calculations are based on the cost of a basket of 122 goods and services, and weighted according to the monthly spending habits of a three-person European family. The weighted price levels are then indexed to our reference city, New York City. Prices for goods and services were converted to USD by exchange rates found on pages 14-15.

Total expenditure on goods and services

| Cities | USD ${ }^{1}$ | Index |
| :---: | :---: | :---: |
| Amsterdam | 2,182 | 65.3 |
| Athens | 1,970 | 58.9 |
| Auckland | 2,766 | 82.8 |
| Bangkok | 1,923 | 57.5 |
| Barcelona | 2,112 | 63.2 |
| Beijing | 2,052 | 61.4 |
| Berlin | 2,117 | 63.3 |
| Bogotá | 1,791 | 53.6 |
| Bratislava | 1,781 | 53.3 |
| Brussels | 2,245 | 67.2 |
| Bucharest | 1,464 | 43.8 |
| Budapest | 1,591 | 47.6 |
| Buenos Aires | 2,352 | 70.4 |
| Cairo | 1,606 | 48.1 |
| Chicago | 2,792 | 83.5 |
| Copenhagen | 2,941 | 88.0 |
| Doha | 2,166 | 64.8 |
| Dubai | 2,375 | 71.1 |
| Dublin | 2,351 | 70.3 |
| Frankfurt | 2,200 | 65.8 |
| Geneva | 3,546 | 106.1 |
| Helsinki | 2,485 | 74.3 |
| Hong Kong | 2,435 | 72.9 |
| Istanbul | 2,166 | 64.8 |
| Jakarta | 1,783 | 53.3 |
| Johannesburg | 1,557 | 46.6 |
| Kiev | 1,273 | 38.1 |
| Kuala Lumpur | 1,736 | 52.0 |
| Lima | 1,743 | 52.2 |
| Lisbon | 1,856 | 55.5 |
| Ljubljana | 1,806 | 54.0 |
| London | 2,832 | 84.7 |
| Los Angeles | 2,540 | 76.0 |
| Luxembourg | 2,418 | 72.3 |
| Lyon | 2,165 | 64.8 |
| Madrid | 2,024 | 60.6 |
| Manama | 2,227 | 66.6 |
| Manila | 1,714 | 51.3 |
| Mexico City | 1,829 | 54.7 |
| Miami | 2,542 | 76.1 |
| Milan | 2,603 | 77.9 |
| Montreal | 2,548 | 76.2 |
| Moscow | 1,735 | 51.9 |
| Mumbai | 1,500 | 44.9 |
| Munich | 2,189 | 65.5 |
| Nairobi | 1,682 | 50.3 |
| New Delhi | 1,520 | 45.5 |
| New York City* | 3,342 | 100.0 |
| Nicosia | 2,016 | 60.3 |
| Oslo | 3,105 | 92.9 |
| Paris | 2,426 | 72.6 |
| Prague | 1,523 | 45.6 |
| Riga | 1,529 | 45.8 |
| Rio de Janeiro | 1,936 | 57.9 |
| Rome | 2,242 | 67.1 |
| Santiago de Chile | 1,765 | 52.8 |
| Sao Paulo | 1,984 | 59.4 |
| Seoul | 2,646 | 79.2 |
| Shanghai | 2,168 | 64.9 |
| Sofia | 1,304 | 39.0 |
| Stockholm | 2,569 | 76.9 |
| Sydney | 2,690 | 80.5 |
| Taipei | 2,249 | 67.3 |
| Tallinn | 1,819 | 54.4 |
| Tel Aviv | 2,405 | 72.0 |
| Tokyo | 2,776 | 83.1 |
| Toronto | 2,609 | 78.1 |
| Vienna | 2,187 | 65.4 |
| Vilnius | 1,702 | 50.9 |
| Warsaw | 1,632 | 48.8 |
| Zurich | 3,632 | 108.7 |



Highest
Zurich
USD 3,632

Lowest
Kiev
USD 1,273

## Food

Food prices are especially useful for studies like this one. Although food products vary in quality and type, the products chosen for the survey are similar enough everywhere to be comparable. The worldwide average price for our basket of 39 food items is almost USD 400. People living in Zurich, with the highest cost, have to pay 4.5 times more for the food in their shopping carts than those in Kiev, where costs are the lowest.

## Where is the best place to shop for food?

The cost of single goods varies according to the city. Residents of Zurich have to pay USD 3.50 to buy one kilo (two pounds) of bread. In Bucharest, this amount shrinks to 71 cents. Similarly, a kilo of rice costs USD 3.10 in Tokyo, but only USD 1.40 in Manila. In 55 cities, meat is on average more expensive than fish. Meat lovers should flock to Kiev, where the average price for one kilo of meat is around USD 2.60, and steer clear of Zurich and Geneva, where meat is 10 times the price. Those who eat a lot of fish should go to Shanghai or Rio de Janeiro, where one kilo of fish is around USD 2.20, an eighth of the price you would pay for the same fish in Zurich.

## Methodology

Our basket of food items includes staples such as bread, milk and chicken. They determine the price of our food baskets most because they are frequently consumed. So we give more weight to them in our basket than to other foodstuffs. There is a problem with this logic, though, since it assumes that global preferences will be the same as they are in Europe. A three-person family in Asia, for example, will probably not consume as much dairy and meat as a family in Europe.

[^2]| Cities | USD | Index |
| :---: | :---: | :---: |
| Amsterdam | 300 | 47.5 |
| Athens | 343 | 54.3 |
| Auckland | 464 | 73.4 |
| Bangkok | 518 | 82.0 |
| Barcelona | 350 | 55.4 |
| Beijing | 533 | 84.3 |
| Berlin | 419 | 66.3 |
| Bogotá | 289 | 45.7 |
| Bratislava | 302 | 47.9 |
| Brussels | 379 | 60.0 |
| Bucharest | 248 | 39.3 |
| Budapest | 289 | 45.8 |
| Buenos Aires | 462 | 73.1 |
| Cairo | 374 | 59.2 |
| Chicago | 586 | 92.8 |
| Copenhagen | 471 | 74.6 |
| Doha | 426 | 67.5 |
| Dubai | 461 | 72.9 |
| Dublin | 386 | 61.2 |
| Frankfurt | 379 | 60.0 |
| Geneva | 623 | 98.6 |
| Helsinki | 399 | 63.2 |
| Hong Kong | 511 | 80.9 |
| Istanbul | 410 | 65.0 |
| Jakarta | 358 | 56.6 |
| Johannesburg | 273 | 43.3 |
| Kiev | 166 | 26.3 |
| Kuala Lumpur | 292 | 46.3 |
| Lima | 317 | 50.2 |
| Lisbon | 299 | 47.4 |
| Ljubljana | 377 | 59.8 |
| London | 568 | 89.9 |
| Los Angeles | 516 | 81.6 |
| Luxembourg | 444 | 70.3 |
| Lyon | 413 | 65.3 |
| Madrid | 315 | 49.8 |
| Manama | 378 | 59.8 |
| Manila | 333 | 52.7 |
| Mexico City | 249 | 39.4 |
| Miami | 583 | 92.3 |
| Milan | 405 | 64.2 |
| Montreal | 532 | 84.2 |
| Moscow | 336 | 53.3 |
| Mumbai | 253 | 40.1 |
| Munich | 390 | 61.7 |
| Nairobi | 318 | 50.3 |
| New Delhi | 233 | 36.9 |
| New York City* | 632 | 100.0 |
| Nicosia | 303 | 48.0 |
| Oslo | 536 | 84.8 |
| Paris | 425 | 67.3 |
| Prague | 251 | 39.7 |
| Riga | 253 | 40.0 |
| Rio de Janeiro | 330 | 52.3 |
| Rome | 393 | 62.3 |
| Santiago de Chile | 308 | 48.7 |
| Sao Paulo | 303 | 48.0 |
| Seoul | 688 | 108.9 |
| Shanghai | 518 | 82.1 |
| Sofia | 214 | 33.9 |
| Stockholm | 437 | 69.1 |
| Sydney | 541 | 85.7 |
| Taipei | 460 | 72.9 |
| Tallinn | 270 | 42.8 |
| Tel Aviv | 414 | 65.5 |
| Tokyo | 582 | 92.2 |
| Toronto | 397 | 62.9 |
| Vienna | 443 | 70.1 |
| Vilnius | 269 | 42.6 |
| Warsaw | 253 | 40.1 |
| Zurich | 738 | 116.8 |

How many baskets of food can you buy around the world for the price of one in New York City?


Highest price per basket Zurich
USD 738

Lowest price per basket
Kiev
USD 166

## Women's and men's clothing

The business attire worn by men and women - usually a suit and dress shoes - is the same almost everywhere. But prices for these items vary widely across the globe. In Manila, a new wardrobe costs USD 230 on average, whereas in Chicago and Milan, both genders would have to spend over USD 1,100 for their new attire. International travelers can also get good deals in cities such as Jakarta, Kuala Lumpur, and Mumbai.

## Where should I go to buy my new wardrobe?

Clothing prices vary significantly between genders. On average, men's clothes cost $30 \%$ more than women's. Men pay the most in Geneva (more than twice the global average), and the least in Rio de Janeiro (about one-third the global average). For women, Chicago is the most expensive place to shop, at almost three times the average. Auckland is the only city in our sample where the price of our clothing package is cheaper for men than women. In 64 of the surveyed cities, men's business suits were our most expensive item, with an average cost of USD 290. Only in six cities was a woman's individual clothing item more expensive than a man's.

## Methodology

The price information gathered is based on purchases of good-quality clothing in large department stores, not in specialized shops or designer boutiques. The wardrobe for women includes a two-piece suit, a blazer, a dress, pantyhose and a pair of outdoor shoes. For men, the items were a business suit, a blazer, a shirt, a pair of blue jeans, socks, and a pair of outdoor shoes.

| Women's and men's clothing |  |  |  |
| :---: | :---: | :---: | :---: |
| Cities | Women's clothing (USD) | Men's clothing (USD) | Index |
| Amsterdam | 660 | 950 | 76.7 |
| Athens | 590 | 750 | 63.8 |
| Auckland | 650 | 580 | 58.6 |
| Bangkok | 220 | 350 | 27.1 |
| Barcelona | 570 | 840 | 67.1 |
| Beijing | 400 | 630 | 49.0 |
| Berlin | 440 | 620 | 50.5 |
| Bogotá | 280 | 440 | 34.3 |
| Bratislava | 220 | 300 | 24.8 |
| Brussels | 440 | 710 | 54.8 |
| Bucharest | 280 | 410 | 32.9 |
| Budapest | 290 | 370 | 31.4 |
| Buenos Aires | 510 | 760 | 60.5 |
| Cairo | 250 | 520 | 36.7 |
| Chicago | 1,270 | 1,300 | 122.4 |
| Copenhagen | 650 | 790 | 68.6 |
| Doha | 410 | 720 | 53.8 |
| Dubai | 890 | 1,250 | 101.9 |
| Dublin | 240 | 430 | 31.9 |
| Frankfurt | 500 | 690 | 56.7 |
| Geneva | 1,010 | 1,680 | 128.1 |
| Helsinki | 550 | 1,100 | 78.6 |
| Hong Kong | 350 | 480 | 39.5 |
| Istanbul | 460 | 850 | 62.4 |
| Jakarta | 170 | 300 | 22.4 |
| Johannesburg | 220 | 390 | 29.0 |
| Kiev | 300 | 370 | 31.9 |
| Kuala Lumpur | 150 | 260 | 19.5 |
| Lima | 250 | 300 | 26.2 |
| Lisbon | 280 | 650 | 44.3 |
| Ljubljana | 360 | 520 | 41.9 |
| London | 520 | 680 | 57.1 |
| Los Angeles | 650 | 1,090 | 82.9 |
| Luxembourg | 640 | 740 | 65.7 |
| Lyon | 380 | 510 | 42.4 |
| Madrid | 480 | 850 | 63.3 |
| Manama | 280 | 620 | 42.9 |
| Manila | 160 | 260 | 20.0 |
| Mexico City | 340 | 540 | 41.9 |
| Miami | 960 | 1030 | 94.8 |
| Milan | 1160 | 1220 | 113.3 |
| Montreal | 500 | 1100 | 76.2 |
| Moscow | 400 | 630 | 49.0 |
| Mumbai | 260 | 430 | 32.9 |
| Munich | 720 | 940 | 79.0 |
| Nairobi | 220 | 450 | 31.9 |
| New Delhi | 220 | 450 | 31.9 |
| New York City* | 1,040 | 1,060 | 100.0 |
| Nicosia | 590 | 840 | 68.1 |
| Oslo | 350 | 660 | 48.1 |
| Paris | 480 | 830 | 62.4 |
| Prague | 270 | 350 | 29.5 |
| Riga | 290 | 400 | 32.9 |
| Rio de Janeiro | 160 | 240 | 19.0 |
| Rome | 410 | 840 | 59.5 |
| Santiago de Chile | 280 | 360 | 30.5 |
| Sao Paulo | 350 | 510 | 41.0 |
| Seoul | 900 | 1,070 | 93.8 |
| Shanghai | 310 | 500 | 38.6 |
| Sofia | 360 | 610 | 46.2 |
| Stockholm | 550 | 1,280 | 87.1 |
| Sydney | 580 | 580 | 55.2 |
| Taipei | 720 | 860 | 75.2 |
| Tallinn | 510 | 820 | 63.3 |
| Tel Aviv | 550 | 720 | 60.5 |
| Tokyo | 790 | 1,140 | 91.9 |
| Toronto | 450 | 990 | 68.6 |
| Vienna | 560 | 720 | 61.0 |
| Vilnius | 390 | 720 | 52.9 |
| Warsaw | 500 | 670 | 55.7 |
| Zurich | 680 | 1,110 | 85.2 |

## Household appliances

Equipping your kitchen is a costly investment. In Tokyo, you may pay as much as USD 1,580 to buy a brand-new set of household items. Kuala Lumpur offers a good deal, by comparison, where buying our package of household appliances costs almost a fourth of that in our most expensive city.

## How much to stock my kitchen?

The worldwide average for household appliances is USD 785, around the cost of buying the goods in Lyon. For the price of a refrigerator in Zurich, you could buy four in Doha. Frying pans have a slightly different distribution of prices, with the cost of one in Jakarta being a $10^{\text {th }}$ of that in Helsinki. Frankfurt, Hong Kong, and Sydney follow as cities where consumers pay the highest prices for this common kitchen appliance. For hairdryers, you may want to air-dry in Manila and Geneva, with prices double the global average. In Lyon, however, the price of a hairdryer is only USD 20.

## Methodology

Our basket of good-quality home appliances includes a refrigerator, a vacuum cleaner, a frying pan and a hairdryer. The items were weighted by European monthly consumption.

Household appliances

| Cities | USD | Ind |
| :---: | :---: | :---: |
| Amsterdam | 830 | 93.3 |
| Athens | 670 | 75.3 |
| Auckland | 1,150 | 129.2 |
| Bangkok | 530 | 59.6 |
| Barcelona | 820 | 92.1 |
| Beijing | 490 | 55.1 |
| Berlin | 880 | 98.9 |
| Bogotá | 680 | 76.4 |
| Bratislava | 900 | 101.1 |
| Brussels | 980 | 110.1 |
| Bucharest | 420 | 47.2 |
| Budapest | 800 | 89.9 |
| Buenos Aires | 1,060 | 119.1 |
| Cairo | 480 | 53.9 |
| Chicago | 1,120 | 125.8 |
| Copenhagen | 950 | 106.7 |
| Doha | 430 | 48.3 |
| Dubai | 550 | 61.8 |
| Dublin | 540 | 60.7 |
| Frankfurt | 780 | 87.6 |
| Geneva | 1,290 | 144.9 |
| Helsinki | 810 | 91.0 |
| Hong Kong | 1,170 | 131.5 |
| Istanbul | 530 | 59.6 |
| Jakarta | 440 | 49.4 |
| Johannesburg | 480 | 53.9 |
| Kiev | 750 | 84.3 |
| Kuala Lumpur | 410 | 46.1 |
| Lima | 570 | 64.0 |
| Lisbon | 780 | 87.6 |
| Ljubljana | 640 | 71.9 |
| London | 1,060 | 119.1 |
| Los Angeles | 900 | 101.1 |
| Luxembourg | 720 | 80.9 |
| Lyon | 730 | 82.0 |
| Madrid | 830 | 93.3 |
| Manama | 680 | 76.4 |
| Manila | 820 | 92.1 |
| Mexico City | 580 | 65.2 |
| Miami | 580 | 65.2 |
| Milan | 710 | 79.8 |
| Montreal | 1,120 | 125.8 |
| Moscow | 920 | 103.4 |
| Mumbai | 480 | 53.9 |
| Munich | 850 | 95.5 |
| Nairobi | 710 | 79.8 |
| New Delhi | 560 | 62.9 |
| New York City* | 890 | 100.0 |
| Nicosia | 1,150 | 129.2 |
| Oslo | 1,100 | 123.6 |
| Paris | 820 | 92.1 |
| Prague | 550 | 61.8 |
| Riga | 590 | 66.3 |
| Rio de Janeiro | 580 | 65.2 |
| Rome | 1,070 | 120.2 |
| Santiago de Chile | 560 | 62.9 |
| Sao Paulo | 510 | 57.3 |
| Seoul | 800 | 89.9 |
| Shanghai | 430 | 48.3 |
| Sofia | 470 | 52.8 |
| Stockholm | 1,120 | 125.8 |
| Sydney | 1,120 | 125.8 |
| Taipei | 620 | 69.7 |
| Tallinn | 540 | 60.7 |
| Tel Aviv | 1,090 | 122.5 |
| Tokyo | 1,580 | 177.5 |
| Toronto | 1,370 | 153.9 |
| Vienna | 740 | 83.1 |
| Vilnius | 740 | 83.1 |
| Warsaw | 640 | 71.9 |
| Zurich | 1,540 | 173.0 |

## Home electronics

Home electronics are essential to everyday life in Europe, but may be considered luxury items in other parts of the world. On average, you would have to spend around USD 3,530 for our basket of electronics, a little more than the price of a basket in Los Angeles.

## Who pays the most for an iPhone?

The difference in price for electronics across the cities is quite small compared to other goods; as many of them are homogenous and tradable, their prices are fairly uniform. The most expensive city has prices only $40 \%$ higher than the cheapest one. The iPhone is USD 500 more expensive in São Paulo and Rio de Janeiro than in Chicago, due to high import prices. The price of a television varies more; you can buy 4.5 TVs in Kiev for the cost of one in Hong Kong. In Santiago de Chile, it is more affordable to spend your money on a notebook instead of a desktop computer - you can save around 60\%. In Shanghai, however, you can save almost 50\% by buying a desktop computer instead of the pricier notebook.

## Methodology

Home electronics in particular follow rapid technological advances. To update our basket of electronics from 2012, we changed the specifications of some products and replaced the iPhone $4 S$ with an iPhone 6. The prices shown include a color television (40-inch color LED), a digital camera, a personal desktop computer, a notebook computer and an unlocked (no contract) iPhone 6 (16GB).

## Home electronics

| Cities | USD | Index |
| :---: | :---: | :---: |
| Amsterdam | 4,100 | 117.8 |
| Athens | 3,590 | 103.2 |
| Auckland | 4,130 | 118.7 |
| Bangkok | 3,110 | 89.4 |
| Barcelona | 3,390 | 97.4 |
| Beijing | 2,960 | 85.1 |
| Berlin | 3,420 | 98.3 |
| Bogotá | 2,680 | 77.0 |
| Bratislava | 3,550 | 102.0 |
| Brussels | 3,480 | 100.0 |
| Bucharest | 3,410 | 98.0 |
| Budapest | 3,110 | 89.4 |
| Buenos Aires | 4,330 | 124.4 |
| Cairo | 2,790 | 80.2 |
| Chicago | 3,350 | 96.3 |
| Copenhagen | 3,630 | 104.3 |
| Doha | 3,980 | 114.4 |
| Dubai | 2,900 | 83.3 |
| Dublin | 3,310 | 95.1 |
| Frankfurt | 3,420 | 98.3 |
| Geneva | 3,750 | 107.8 |
| Helsinki | 3,420 | 98.3 |
| Hong Kong | 3,480 | 100.0 |
| Istanbul | 3,550 | 102.0 |
| Jakarta | 2,940 | 84.5 |
| Johannesburg | 2,830 | 81.3 |
| Kiev | 3,560 | 102.3 |
| Kuala Lumpur | 3,440 | 98.9 |
| Lima | 4,270 | 122.7 |
| Lisbon | 2,970 | 85.3 |
| Ljubljana | 3,390 | 97.4 |
| London | 3,150 | 90.5 |
| Los Angeles | 3,500 | 100.6 |
| Luxembourg | 4,250 | 122.1 |
| Lyon | 3,330 | 95.7 |
| Madrid | 3,820 | 109.8 |
| Manama | 3,620 | 104.0 |
| Manila | 4,100 | 117.8 |
| Mexico City | 3,640 | 104.6 |
| Miami | 4,190 | 120.4 |
| Milan | 3,240 | 93.1 |
| Montreal | 3,600 | 103.4 |
| Moscow | 3,340 | 96.0 |
| Mumbai | 3,860 | 110.9 |
| Munich | 3,190 | 91.7 |
| Nairobi | 3,470 | 99.7 |
| New Delhi | 4,100 | 117.8 |
| New York City* | 3,480 | 100.0 |
| Nicosia | 3,180 | 91.4 |
| Oslo | 3,750 | 107.8 |
| Paris | 3,420 | 98.3 |
| Prague | 3,120 | 89.7 |
| Riga | 2,880 | 82.8 |
| Rio de Janeiro | 4,170 | 119.8 |
| Rome | 3,100 | 89.1 |
| Santiago de Chile | 4,180 | 120.1 |
| Sao Paulo | 3,700 | 106.3 |
| Seoul | 4,480 | 128.7 |
| Shanghai | 2,880 | 82.8 |
| Sofia | 3,050 | 87.6 |
| Stockholm | 3,330 | 95.7 |
| Sydney | 3,910 | 112.4 |
| Taipei | 3,810 | 109.5 |
| Tallinn | 3,970 | 114.1 |
| Tel Aviv | 3,760 | 108.0 |
| Tokyo | 4,260 | 122.4 |
| Toronto | 3,120 | 89.7 |
| Vienna | 3,250 | 93.4 |
| Vilnius | 3,470 | 99.7 |
| Warsaw | 3,810 | 109.5 |
| Zurich | 3,610 | 103.7 |

[^3]
## Housing

Housing is a basic need, and its prices depend greatly on regional preferences and demographic trends. For some cities, there is a large difference between the price to rent an apartment built to Western standards versus local ones. In Bogotá, for example, a furnished two-room apartment is $122 \%$ more expensive per month than its typical local variant. On average, local rents were $20 \%$ less per month than those for Western-style apartments.

## Where can I pay less rent?

A furnished two-room apartment in Hong Kong costs around USD 4,410 to rent per month - four times the monthly rent in Johannesburg. That is still not the highest though: rent in New York City costs USD 200 more per month for a similar apartment. For this price, you could rent an apartment for 17 months in Sofia. The general picture is the same for unfurnished three-room apartments. In London, these cost USD 3,350 per month. For that price, you could rent two apartments, one in Amsterdam and one in Beijing.

## Methodology

To estimate the worldwide costs of housing, we considered the prices for three different types of apartments. For two of these types, we standardized requirements to Western preferences, with a furnished two-room apartment and an unfurnished three-room apartment. We only looked at newly built apartments which with a bathroom and a kitchen. Prices included utilities (energy and water taxes), but not the use of a garage. To capture local standards, our survey asked for the price of an apartment of typical size, location, and amenities for the respective city. All three housing options were weighted equally.

## Housing

| Cities | Furnished <br> 2-room apartment | Unfurnished <br> 3-room apartment | $\begin{array}{r} \text { Normal } \\ \text { local rent }{ }^{1} \end{array}$ |
| :---: | :---: | :---: | :---: |
| Amsterdam | 1,140 | 1,620 | 1,220 |
| Athens | 740 | 850 | 770 |
| Auckland | 1,060 | 1,390 | 1,250 |
| Bangkok | 820 | 1,040 | 500 |
| Barcelona | 780 | 820 | 740 |
| Beijing | 1,150 | 1,630 | 1,390 |
| Berlin | 850 | 1,140 | 690 |
| Bogotá | 840 | 1,210 | 380 |
| Bratislava | 670 | 720 | 580 |
| Brussels | 1,300 | 1,490 | 1,340 |
| Bucharest | 420 | 610 | 370 |
| Budapest | 620 | 760 | 640 |
| Buenos Aires | 810 | 1,040 | 710 |
| Cairo | 640 | 780 | 500 |
| Chicago | 2,520 | 2,960 | 2,210 |
| Copenhagen | 1,420 | 2,020 | 1,650 |
| Doha | 2,230 | 2,500 | 2,050 |
| Dubai | 2,320 | 3,240 | 1,380 |
| Dublin | 1,650 | 2,360 | 1,760 |
| Frankfurt | 990 | 1,360 | 1,220 |
| Geneva | 2,810 | 2,700 | 1,610 |
| Helsinki | 1,460 | 1,600 | 1,440 |
| Hong Kong | 4,410 | 4,220 | 2,590 |
| Istanbul | 890 | 1,080 | 970 |
| Jakarta | 530 | 750 | 260 |
| Johannesburg | 1,080 | 1,500 | 690 |
| Kiev | 400 | 540 | 390 |
| Kuala Lumpur | 570 | 630 | 560 |
| Lima | 760 | 890 | 800 |
| Lisbon | 710 | 1,020 | 760 |
| Ljubljana | 760 | 1,080 | 540 |
| London | 2,840 | 3,350 | 2,360 |
| Los Angeles | 1,670 | 2,210 | 1,990 |
| Luxembourg | 1,940 | 2,430 | 2,130 |
| Lyon | 640 | 820 | 670 |
| Madrid | 940 | 1,340 | 900 |
| Manama | 1,120 | 1,470 | 890 |
| Manila | 890 | 900 | 190 |
| Mexico City | 990 | 1,410 | 770 |
| Miami | 1,840 | 2,180 | 1,970 |
| Milan | 1,090 | 1,490 | 1,340 |
| Montreal | 640 | 670 | 590 |
| Moscow | 1,080 | 1,540 | 1,020 |
| Mumbai | 770 | 970 | 550 |
| Munich | 1,210 | 1,580 | 1,370 |
| Nairobi | 700 | 790 | 480 |
| New Delhi | 570 | 720 | 640 |
| New York City | 4,620 | 4,320 | 3,890 |
| Nicosia | 690 | 950 | 690 |
| Oslo | 1,940 | 2,150 | 1,940 |
| Paris | 1,670 | 2,090 | 1,610 |
| Prague | 510 | 630 | 550 |
| Riga | 680 | 910 | 360 |
| Rio de Janeiro | 1,380 | 1,540 | 590 |
| Rome | 1,220 | 1,600 | 1,280 |
| Santiago de Chile | 990 | 1,090 | 710 |
| Sao Paulo | 930 | 1,330 | 910 |
| Seoul | 970 | 1,270 | 1,140 |
| Shanghai | 1,120 | 1,330 | 1,090 |
| Sofia | 270 | 350 | 310 |
| Stockholm | 1,240 | 1,350 | 880 |
| Sydney | 2,050 | 2,940 | 1,780 |
| Taipei | 2,030 | 2,740 | 1,840 |
| Tallinn | 670 | 920 | 690 |
| Tel Aviv | 1,520 | 1,790 | 1,160 |
| Tokyo | 1,370 | 1,920 | 1,730 |
| Toronto | 1,110 | 1,250 | 1,120 |
| Vienna | 1,010 | 1,120 | 800 |
| Vilnius | 590 | 820 | 550 |
| Warsaw | 590 | 840 | 630 |
| Zurich | 2,500 | 2,390 | 1,770 |

## Public transport

Public transport is a big expense for international travelers, since locals usually pay reduced tariffs. Getting around can be pricy - if you are planning a trip to Stockholm or London, where fares are 2.5 times above the worldwide average.

## Are taxis expensive everywhere?

Taking a cab in Oslo is expensive. A five-kilometer (threemile) trip costs USD 32. For the same amount, you could travel more than 66 km ( 41 miles) in Cairo. Travelling by bus, tram or metro costs on average USD 1.60 worldwide per trip. In Copenhagen the cost is three times higher. In Buenos Aires though, you can travel 10 km (six miles) for less than one-third that amount. For the cost of a ticket in Copenhagen, you could travel the equivalent of 285 km ( 180 miles) in Kiev, almost the full distance between Luxembourg and Paris.

Sixty-one of our cities had railway infrastructure, where a 200 km journey would cost on average USD 27. Zurich, London, and Munich stand out as the most expensive places to travel by train - with prices being at least two times the global average. For the price of a 200 km (125 mile) train ride in Geneva, you could travel an astounding 15,400 km (9,570 miles) in Manila, or the distance between Montreal and Auckland.

## Methodology

Prices of public transport are based on the price of a single ticket on a bus, tram, or subway, for a journey of approximately 10 km or at least 10 stops. Prices for a taxi include a five-kilometer ride during the day within city limits, including a service tip. Prices for a train ticket represent a $2^{\text {nd }}$ class single ticket for a journey of 200 km .

Public transport

| Cities | Bus, Tram or Metro (USD) | $\begin{gathered} \text { Taxi } \\ \text { (USD) } \\ \hline \end{gathered}$ | Train (USD) |
| :---: | :---: | :---: | :---: |
| Amsterdam | 2.71 | 16.22 | 27.95 |
| Athens | 1.37 | 5.01 | 15.14 |
| Auckland | 3.16 | 19.72 | 40.59 |
| Bangkok | 0.74 | 1.85 | 3.26 |
| Barcelona | 2.32 | 10.25 | 25.37 |
| Beijing | 0.48 | 4.42 | 15.59 |
| Berlin | 2.89 | 14.78 | 55.14 |
| Bogotá | 0.72 | 1.71 | n.a |
| Bratislava | 0.90 | 6.31 | 8.96 |
| Brussels | 2.23 | 12.72 | 22.81 |
| Bucharest | 0.46 | 3.31 | 14.26 |
| Budapest | 1.26 | 7.28 | 15.15 |
| Buenos Aires | 0.51 | 4.75 | n.a |
| Cairo | 0.22 | 2.40 | 4.59 |
| Chicago | 1.92 | 12.75 | 37.00 |
| Copenhagen | 4.63 | 15.45 | 49.03 |
| Doha | 0.92 | 3.66 | n.a. |
| Dubai | 1.09 | 6.26 | n.a. |
| Dublin | 3.15 | 11.35 | 30.50 |
| Frankfurt | 2.97 | 14.97 | 59.47 |
| Geneva | 3.12 | 20.58 | 77.55 |
| Helsinki | 2.88 | 15.24 | 33.91 |
| Hong Kong | 1.28 | 3.65 | 26.23 |
| Istanbul | 0.74 | 5.66 | 14.08 |
| Jakarta | 0.28 | 2.66 | 8.49 |
| Johannesburg | 0.79 | 6.34 | 16.67 |
| Kiev | 0.16 | 1.59 | 3.28 |
| Kuala Lumpur | 0.37 | 2.79 | 8.68 |
| Lima | 0.74 | 6.42 | n.a. |
| Lisbon | 1.82 | 8.11 | 23.25 |
| Ljubljana | 1.53 | 5.51 | 14.03 |
| London | 4.04 | 10.09 | 74.02 |
| Los Angeles | 1.50 | 15.65 | 36.67 |
| Luxembourg | 2.16 | 22.34 | 31.56 |
| Lyon | 1.95 | 12.04 | 32.54 |
| Madrid | 1.98 | 11.35 | 29.08 |
| Manama | 0.80 | 7.96 | n.a |
| Manila | 0.45 | 3.00 | 1.01 |
| Mexico City | 0.33 | 3.66 | n.a |
| Miami | 2.25 | 14.43 | 33.45 |
| Milan | 1.62 | 17.30 | 28.58 |
| Montreal | 2.63 | 17.57 | 52.08 |
| Moscow | 0.88 | 7.88 | 24.60 |
| Mumbai | 0.74 | 1.81 | 1.75 |
| Munich | 2.92 | 14.02 | 59.83 |
| Nairobi | 0.64 | 7.14 | 10.09 |
| New Delhi | 0.37 | 1.54 | 10.08 |
| New York City | 2.75 | 11.67 | 52.50 |
| Nicosia | 1.62 | 8.38 | n.a |
| Oslo | 3.80 | 32.10 | 61.77 |
| Paris | 1.95 | 12.43 | 43.84 |
| Prague | 1.18 | 6.00 | 8.44 |
| Riga | 1.30 | 6.74 | 7.78 |
| Rio de Janeiro | 1.19 | 5.07 | n.a |
| Rome | 1.62 | 14.24 | 27.03 |
| Santiago de Chile | 1.08 | 7.08 | 9.11 |
| Sao Paulo | 1.12 | 6.48 | n.a |
| Seoul | 1.06 | 4.45 | 23.09 |
| Shanghai | 0.38 | 3.13 | 12.01 |
| Sofia | 0.55 | 3.04 | 7.55 |
| Stockholm | 4.17 | 18.56 | 41.79 |
| Sydney | 2.58 | 11.52 | 6.80 |
| Taipei | 0.54 | 4.63 | 11.32 |
| Tallinn | 1.73 | 6.54 | 11.79 |
| Tel Aviv | 1.75 | 10.98 | 18.75 |
| Tokyo | 1.47 | 7.31 | 51.77 |
| Toronto | 2.43 | 15.88 | 38.46 |
| Vienna | 2.34 | 14.42 | 43.36 |
| Vilnius | 0.90 | 4.52 | 10.46 |
| Warsaw | 0.91 | 5.64 | 13.70 |
| Zurich | 3.75 | 27.59 | 73.39 |

## Restaurants and hotels

The cost of dinner for two varies. The price in Tokyo is enough for six dinners in Mumbai. Buying a three-course evening meal in a good restaurant in Zurich and Taipei can cost as much as USD 150. This is more than $80 \%$ higher than the worldwide average of USD 80. In Jakarta and Johannesburg, with prices around USD 40 per meal, you would spend USD 110 less than in the most expensive cities.

## Shall we upgrade to the five-star hotel?

Checking in to an international five-star hotel in New York City can be quite expensive, with a price tag of USD 590 per night. For the price of an average night in New York City, you can afford over five nights in Bucharest. The same level of luxury in Barcelona costs you only USD 250, closer to the global average of USD 300. Even if you decide to settle for something more affordable, prices for a mid-range hotel can vary widely. In Riga you would pay on average USD 70, whereas in Miami this would cost you USD 240. For the cost of the room in Miami, you could actually book a first-class hotel in Riga.

## Methodology

The price of an evening meal includes a three-course menu in a good restaurant, with an entrée, main course, and dessert, excluding beverages but including a service tip. The price for a hotel room factors in a one-night stay in a double room with an ensuite bathrom, including breakfast for two people, in a first-class international hotel, and in a good mid-range hotel.

| Restaurant and hotel |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Restaurant | Hotel***** | Hotel*** |
| Cities | (USD) | (USD) | (USD) |
| Amsterdam | 90 | 250 | 170 |
| Athens | 80 | 290 | 100 |
| Auckland | 110 | 210 | 140 |
| Bangkok | 50 | 180 | 110 |
| Barcelona | 110 | 250 | 160 |
| Beijing | 50 | 200 | 100 |
| Berlin | 70 | 240 | 120 |
| Bogotá | 90 | 280 | 150 |
| Bratislava | 80 | 190 | 90 |
| Brussels | 120 | 190 | 140 |
| Bucharest | 40 | 110 | 70 |
| Budapest | 60 | 220 | 70 |
| Buenos Aires | 60 | 440 | 150 |
| Cairo | 60 | 260 | 80 |
| Chicago | 100 | 390 | 180 |
| Copenhagen | 110 | 300 | 190 |
| Doha | 100 | 400 | 170 |
| Dubai | 90 | 430 | 130 |
| Dublin | 110 | 320 | 160 |
| Frankfurt | 80 | 290 | 120 |
| Geneva | 140 | 410 | 200 |
| Helsinki | 80 | 380 | 120 |
| Hong Kong | 90 | 250 | 170 |
| Istanbul | 90 | 200 | 130 |
| Jakarta | 40 | 340 | 210 |
| Johannesburg | 40 | 290 | 150 |
| Kiev | 50 | 380 | 90 |
| Kuala Lumpur | 110 | 240 | 70 |
| Lima | 80 | 290 | 110 |
| Lisbon | 60 | 250 | 110 |
| Ljubljana | 60 | 240 | 90 |
| London | 60 | 400 | 180 |
| Los Angeles | 100 | 290 | 150 |
| Luxembourg | 120 | 240 | 150 |
| Lyon | 70 | 240 | 130 |
| Madrid | 110 | 350 | 130 |
| Manama | 110 | 390 | 230 |
| Manila | 60 | 230 | 100 |
| Mexico City | 70 | 280 | 100 |
| Miami | 110 | 420 | 240 |
| Milan | 110 | 300 | 200 |
| Montreal | 90 | 210 | 120 |
| Moscow | 110 | 350 | 140 |
| Mumbai | 40 | 170 | 100 |
| Munich | 90 | 380 | 110 |
| Nairobi | 40 | 230 | 120 |
| New Delhi | 40 | 220 | 110 |
| New York City | 100 | 590 | 380 |
| Nicosia | 50 | 250 | 90 |
| Oslo | 150 | 280 | 170 |
| Paris | 60 | 410 | 130 |
| Prague | 40 | 200 | 90 |
| Riga | 70 | 230 | 70 |
| Rio de Janeiro | 50 | 290 | 110 |
| Rome | 100 | 380 | 160 |
| Santiago de Chile | 70 | 250 | 120 |
| Sao Paulo | 80 | 240 | 100 |
| Seoul | 90 | 400 | 140 |
| Shanghai | 70 | 470 | 140 |
| Sofia | 50 | 160 | 60 |
| Stockholm | 100 | 230 | 150 |
| Sydney | 70 | 470 | 170 |
| Taipei | 150 | 390 | 120 |
| Tallinn | 60 | 300 | 100 |
| Tel Aviv | 80 | 430 | 190 |
| Tokyo | 220 | 500 | 280 |
| Toronto | 60 | 390 | 200 |
| Vienna | 90 | 240 | 90 |
| Vilnius | 40 | 200 | 80 |
| Warsaw | 60 | 190 | 90 |
| Zurich | 150 | 440 | 320 |

## Services

Services are a part of our daily lives - we read the newspaper, pick up our dry cleaning, get our hair cut, and meet someone for coffee, possibly all in one morning. For this section, we collected prices for a basket of 27 different services. Worldwide, this basket costs an average of USD 490, but this varies widely across cities.

## Where should I get my hair cut?

The quality of services, unlike that of food, is hard to capture uniformly. Services are not exportable or tradable goods. There is a strong correlation between local wages and the prices for services, which results in extreme price differences for our basket. Zurich and Geneva, which lead our wage-level rankings, also come out on top for the prices of services. In these two cities our basket costs USD 990 and USD 955, respectively. In Kiev, Mumbai, and New Delhi on the other hand, the same basket can be bought for less than half of the global average price.

Haircuts, and especially the price difference for them between men and women, are an interesting example. In Jakarta and Hong Kong, women pay on average almost the same as men, whereas in Dublin and Cairo, the price for women is almost three times higher than for men. This imbalance is seen across the globe, with women's haircuts costing on average 40\% more than men's. For the price of one women's haircut in Oslo, men could afford to get their hair cut around 18 times in Nairobi.

## Methodology

Our basket covers a variety of services, such as a haircut, an hour of household help, dry cleaning, TV and internet fees, a language course and a ticket to a sports event. The basket is weighted according to the monthly consumption of a European family.

## Services

| Cities ${ }^{1}$ | USD | Index | Haircut women | $\begin{array}{r} \text { Haircut } \\ \text { men } \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: |
| Amsterdam | 555 | 74.7 | 49.37 | 36.76 |
| Athens | 461 | 62.1 | 20.36 | 14.78 |
| Auckland | 695 | 93.7 | 63.98 | 36.42 |
| Bangkok | 323 | 43.6 | 12.81 | 9.53 |
| Barcelona | 530 | 71.4 | 36.04 | 19.79 |
| Beijing | 351 | 47.3 | 9.27 | 5.24 |
| Berlin | 447 | 60.3 | 31.63 | 16.49 |
| Bogotá | 425 | 57.2 | 14.03 | 8.28 |
| Bratislava | 371 | 49.9 | 23.43 | 12.79 |
| Brussels | 578 | 77.9 | 43.97 | 25.95 |
| Bucharest | 305 | 41.1 | 13.05 | 8.02 |
| Budapest | 311 | 41.8 | 22.85 | 12.63 |
| Buenos Aires | 536 | 72.3 | 23.37 | 20.92 |
| Cairo | 340 | 45.9 | 21.84 | 6.12 |
| Chicago | 645 | 86.9 | 54.00 | 32.33 |
| Copenhagen | 760 | 102.4 | 67.99 | 52.55 |
| Doha | 545 | 73.4 | 32.05 | 13.28 |
| Dubai | 538 | 72.6 | 43.11 | 16.79 |
| Dublin | 615 | 82.8 | 43.25 | 13.24 |
| Frankfurt | 514 | 69.3 | 43.97 | 29.19 |
| Geneva | 954 | 128.6 | 83.97 | 44.07 |
| Helsinki | 523 | 70.5 | 43.97 | 36.04 |
| Hong Kong | 410 | 55.3 | 30.96 | 30.96 |
| Istanbul | 464 | 62.5 | 21.37 | 12.57 |
| Jakarta | 311 | 42.0 | 4.63 | 4.50 |
| Johannesburg | 390 | 52.5 | 11.81 | 8.20 |
| Kiev | 208 | 28.0 | 9.90 | 7.24 |
| Kuala Lumpur | 378 | 50.9 | 15.16 | 10.84 |
| Lima | 414 | 55.8 | 14.97 | 8.55 |
| Lisbon | 394 | 53.1 | 27.03 | 10.63 |
| Ljubljana | 346 | 46.6 | 33.88 | 17.30 |
| London | 703 | 94.8 | 49.34 | 24.92 |
| Los Angeles | 562 | 75.7 | 57.00 | 34.33 |
| Luxembourg | 586 | 79.0 | 67.76 | 27.93 |
| Lyon | 546 | 73.6 | 42.53 | 22.71 |
| Madrid | 569 | 76.6 | 27.03 | 19.50 |
| Manama | 583 | 78.5 | 23.87 | 13.26 |
| Manila | 361 | 48.6 | 6.18 | 5.40 |
| Mexico City | 455 | 61.3 | 15.34 | 11.50 |
| Miami | 533 | 71.9 | 26.33 | 15.67 |
| Milan | 566 | 76.2 | 38.11 | 24.06 |
| Montreal | 560 | 75.4 | 35.28 | 23.14 |
| Moscow | 395 | 53.2 | 41.00 | 28.70 |
| Mumbai | 194 | 26.2 | 13.50 | 5.96 |
| Munich | 529 | 71.3 | 51.18 | 32.80 |
| Nairobi | 355 | 47.8 | 10.35 | 5.35 |
| New Delhi | 215 | 29.0 | 11.91 | 5.29 |
| New York City* | 742 | 100.0 | 73.33 | 36.67 |
| Nicosia | 433 | 58.3 | 38.38 | 16.76 |
| Oslo | 817 | 110.2 | 95.04 | 77.72 |
| Paris | 605 | 81.5 | 48.26 | 26.31 |
| Prague | 302 | 40.7 | 25.58 | 12.89 |
| Riga | 309 | 41.7 | 24.87 | 13.70 |
| Rio de Janeiro | 455 | 61.4 | 40.89 | 14.76 |
| Rome | 512 | 69.0 | 48.65 | 17.30 |
| Santiago de Chile | 444 | 59.8 | 21.97 | 12.48 |
| Sao Paulo | 515 | 69.4 | 22.96 | 14.21 |
| Seoul | 410 | 55.3 | 15.64 | 9.43 |
| Shanghai | 447 | 60.3 | 16.93 | 10.10 |
| Sofia | 316 | 42.6 | 15.89 | 11.33 |
| Stockholm | 557 | 75.0 | 54.80 | 48.82 |
| Sydney | 667 | 89.9 | 38.64 | 21.64 |
| Taipei | 517 | 69.7 | 29.04 | 26.89 |
| Tallinn | 330 | 44.5 | 28.83 | 14.78 |
| Tel Aviv | 548 | 73.8 | 55.92 | 21.61 |
| Tokyo | 663 | 89.4 | 37.64 | 33.18 |
| Toronto | 584 | 78.7 | 26.31 | 14.84 |
| Vienna | 446 | 60.2 | 48.65 | 18.74 |
| Vilnius | 306 | 41.3 | 27.03 | 16.22 |
| Warsaw | 309 | 41.6 | 23.73 | 15.22 |
| Zurich | 996 | 134.3 | 86.71 | 50.79 |


|  | USD 100 |
| :---: | :---: |
|  | USD 75 |
|  | USD 50 |
|  | USD 25 |
| Women's haircut | USD 0 Men's haircut |



## City breaks

Avid international travelers may be interested in the cost of a trip to one of our cities. For example, rental cars vary greatly in price. In Rio de Janeiro, a rental car can cost you around USD 25, a tenth of the cost of a rental in Oslo. Over half of our cities offer rental cars for under USD 110 per day, less than half of the price of one in Paris, our sec-ond-most expensive city for rental cars. Postage had one of the greatest price variances; the price of sending a letter was 58 times more expensive in Bogotá than in Kiev. Fif-ty-nine cities have postage prices under USD 0.95.

## Riga or Zurich for a night away?

An average city break costs USD 615. Zurich and Geneva are the most expensive cities to visit, costing 70\% and $65 \%$ more, respectively, than the average. Other pricy destinations include Tokyo, New York City and Oslo, where the cost of our package is well above USD 950. For that amount, an entire three-night round-trip from Bucharest (USD 260) to Sofia (USD 300) to Vilnius (USD 380) could be organized.

## Methodology

The cost of a city break was for two people, with an overnight stay in a first-class hotel, two dinners at a restaurant including a bottle of wine, a taxi ride, two tickets for public transportation, a rental car ( 100 km ), a paperback book, a phone call and postage for a letter. The prices listed do not include travel to and from the destination.

## City breaks

| Cities | USD | Inde |
| :---: | :---: | :---: |
| Amsterdam | 570 | 55.3 |
| Athens | 530 | 51.5 |
| Auckland | 580 | 56.3 |
| Bangkok | 320 | 31.1 |
| Barcelona | 600 | 58.3 |
| Beijing | 350 | 34.0 |
| Berlin | 620 | 60.2 |
| Bogotá | 590 | 57.3 |
| Bratislava | 450 | 43.7 |
| Brussels | 580 | 56.3 |
| Bucharest | 260 | 25.2 |
| Budapest | 430 | 41.7 |
| Buenos Aires | 700 | 68.0 |
| Cairo | 480 | 46.6 |
| Chicago | 700 | 68.0 |
| Copenhagen | 780 | 75.7 |
| Doha | 740 | 71.8 |
| Dubai | 790 | 76.7 |
| Dublin | 660 | 64.1 |
| Frankfurt | 700 | 68.0 |
| Geneva | 1,020 | 99.0 |
| Helsinki | 800 | 77.7 |
| Hong Kong | 640 | 62.1 |
| Istanbul | 440 | 42.7 |
| Jakarta | 690 | 67.0 |
| Johannesburg | 450 | 43.7 |
| Kiev | 550 | 53.4 |
| Kuala Lumpur | 550 | 53.4 |
| Lima | 560 | 54.4 |
| Lisbon | 460 | 44.7 |
| Ljubljana | 490 | 47.6 |
| London | 750 | 72.8 |
| Los Angeles | 620 | 60.2 |
| Luxembourg | 720 | 69.9 |
| Lyon | 650 | 63.1 |
| Madrid | 650 | 63.1 |
| Manama | 720 | 69.9 |
| Manila | 450 | 43.7 |
| Mexico City | 540 | 52.4 |
| Miami | 780 | 75.7 |
| Milan | 670 | 65.0 |
| Montreal | 570 | 55.3 |
| Moscow | 710 | 68.9 |
| Mumbai | 300 | 29.1 |
| Munich | 830 | 80.6 |
| Nairobi | 380 | 36.9 |
| New Delhi | 340 | 33.0 |
| New York City* | 1,030 | 100.0 |
| Nicosia | 550 | 53.4 |
| Oslo | 980 | 95.1 |
| Paris | 890 | 86.4 |
| Prague | 500 | 48.5 |
| Riga | 460 | 44.7 |
| Rio de Janeiro | 470 | 45.6 |
| Rome | 710 | 68.9 |
| Santiago de Chile | 570 | 55.3 |
| Sao Paulo | 500 | 48.5 |
| Seoul | 670 | 65.0 |
| Shanghai | 670 | 65.0 |
| Sofia | 300 | 29.1 |
| Stockholm | 610 | 59.2 |
| Sydney | 690 | 67.0 |
| Taipei | 820 | 79.6 |
| Tallinn | 540 | 52.4 |
| Tel Aviv | 650 | 63.1 |
| Tokyo | 1,000 | 97.1 |
| Toronto | 710 | 68.9 |
| Vienna | 630 | 61.2 |
| Vilnius | 380 | 36.9 |
| Warsaw | 490 | 47.6 |
| Zurich | 1,050 | 101.9 |

Wage comparison

## International wage comparison

Wages differ greatly across geographic regions and professions, making them vital for determining purchasing power. Zurich and Geneva have the highest gross wages by far, over USD 10/hour greater than Luxembourg (third-highest gross salary), and over 20 times greater than Jakarta's gross wages.

More often than not, how much you get paid for work is not how much you take home, although for workers in Dubai, Doha and Buenos Aires, with 0\% tax rates and low employee social security contribution rates, this is the case. Workers in Copenhagen, on the other hand, surrender almost 45\% of their wage to taxes. Net wages in Zurich and Geneva are the highest, even with all deductions, and are, on average, almost 23 times higher than those in Kiev, with the lowest.

## How does my salary compare to others?

New York City had the greatest variance across gross wages, signaling a different salary level for different levels of education; an educated department manager makes on average almost USD 120,000 more than a female factory worker. Kiev has the most uniform gross wages, with an average difference between these two professions of around USD 6,000.

The employment sector also makes a difference regarding compensation. Average industrial sector employees made 8\% more than average service sector workers, when considering unweighted gross salaries (see pages $39-41$ ) across all cities. In some places this difference can be significant, such as in São Paulo, with a difference of almost $75 \%$. For others, it was minimal, such as in Paris, with almost no sector difference

## Methodology

Our wage comparison covers 15 different occupations in administrative, business, communication, construction, educational, finance, healthcare, hospitality, manufacturing, retail, and transportation sectors. Worker profiles vary in age, family status, work experience and education. Job descriptions can be found on page 38. All professions are weighted to reflect the European workforce, where industrial sector workers comprise $27 \%$ of the workforce, and service sector employees nearly 73\%.

To ensure that wage information for local workers is presented accurately, incomes from cross-border commuters were excluded. We compared job profiles for full-time (100\%) workers to ensure comparability, and scaled up any information on part-time workers on the assumption that wage was a linear function of percentage of work. Since the sample size of our wage data is smaller than that used by local governments for their calculattions, the results are not statistically comparable.

Gross wages may include possible supplementary benefits, such as bonuses, vacation pay, meal or housing allowances, or family assistance. Net wages take into account taxes and social security contributions. Hourly wages are calculated by taking into account annual working hours, found on page 36 .

## Note

Professions were weighted according to Eurostat statistics for the working population composition of EU countries.


## Taxes and social security contributions

Most countries rely on taxes, social security payments and other deductions to finance their national budgets and social security systems. Countries such as Bahrain, the UAE and Qatar finance themselves by selling local raw materials, and do not have an income tax system. Argentina, Peru and Colombia only impose tax on high earners and foreign citizens. Hence, six of our cities have no recorded income tax.

## Who pays the most tax?

Income taxes hurt most in Copenhagen, where the average tax for our professions was around 45\%. Average tax worldwide was almost 13\%, but varies among cities, as income tax rates are calculated by each country and/or city to ensure its own finances. Some countries have very high income tax and social security contribution rates, but provide a full array of social services to their residents. Stockholm has an average tax rate of nearly $28 \%$, but residents have largely free access to education and childcare.

Social security contributions average $10 \%$ of gross wages for the employee and 19\% for the employer. Workers in Moscow, Hong Kong and Copenhagen make no contributions to social security. In France, however, employers contribute over $49 \%$, more than twice employees' contribution. $27 \%$ of all governments shift the burden of social security to the employee. Workers in Auckland, for example, carry full responsibility for social security.

## Methodology

We collected tax and social security information using PwC's "Worldwide Tax Summaries," and corroborated our results with survey participants and other sources. Taxes were averaged for each profession, weighted and then calculated as a percentage. Social security burden information for employees and employers was gathered from PwC and KPMG sources.

Our net wages (see pages 32-33) are calculated by deducting social security contributions from gross wages, and then subtracting taxes. Hourly wages in individual cities were calculated by dividing average annual gross or net wages by the average number of hours worked per year.

Public sector spending and social security systems in individual countries (and in individual cities) vary greatly, so the percentage of deductions ranges widely.

## Note

Capital gains, VAT, property and indirect income deductions were excluded from tax and social security contribution calculations.

Cities such as Zurich, Geneva and Hong Kong have basic private medical insurance that is obligatory, regardless of income level. It is not a part of the social security system and the price of it is not deducted from salaries. So social security contributions only reflect public social contributions, not necessarily all social contributions made by employees. This also limits comparability of these cities with others.


## Zurich

## Working hours and vacation days

Annual working hours have a great impact on purchasing power and quality of life - a high hourly income and a low number of working hours indicates a higher quality of life than the reverse. All workaholics should move to Hong Kong, where working hours average over 50 per week, with only 17 days of holiday annually. Those who like time off should consider finding a job in Paris, where people work only around 35 hours per week (in line with new government regulations) and have 29 days of paid vacation. They are on the job annually 1,000-plus fewer hours than their counterparts in Hong Kong.

## Do I spend too much time at work?

On average, workers worldwide spend over 40 hours per week at their workplace, and receive over 4.5 weeks of paid vacation. That said, employees in Shanghai must live with only seven days off, almost a fifth of the vacation days of those in Manama. But legal holidays help make workers' lives manageable. Bangkok averages only nine days of paid vacation but 16 days of legal holidays, giving a total holiday time of 25 days, or around five weeks. São Paulo has the highest combined amount of time off, with an average of 50 days, or around 10 weeks. Lisbon has the lowest number of legal holidays, with only five days, which is one work week in the city.

## Methodology

Annual vacations are those considered as paid vacation days (legal holidays not included). They were calculated through survey responses, and averaged over all professions. Annual working hours were calculated through the number of hours worked per day, the number of days worked per week, with the vacation and legal holiday time deducted. Working hour information was not weighted to the profession's representation in the European workforce.

| Working hours and vacation days |  |  |
| :---: | :---: | :---: |
| Cities | Working hours per year | Paid vacation days per year |
| Amsterdam | 1,726 | 27 |
| Athens | 1,800 | 23 |
| Auckland | 1,992 | 16 |
| Bangkok | 2,191 | 9 |
| Barcelona | 1,731 | 28 |
| Beijing | 1,963 | 10 |
| Berlin | 1,769 | 29 |
| Bogotá | 2,096 | 15 |
| Bratislava | 1,845 | 26 |
| Brussels | 1,717 | 18 |
| Bucharest | 1,807 | 23 |
| Budapest | 1,910 | 26 |
| Buenos Aires | 1,899 | 16 |
| Cairo | 2,082 | 25 |
| Chicago | 2,030 | 14 |
| Copenhagen | 1,697 | 25 |
| Doha | 2,082 | 24 |
| Dubai | 2,186 | 30 |
| Dublin | 1,770 | 31 |
| Frankfurt | 1,757 | 28 |
| Geneva | 1,859 | 27 |
| Helsinki | 1,659 | 29 |
| Hong Kong | 2,606 | 17 |
| Istanbul | 2,043 | 18 |
| Jakarta | 2,102 | 12 |
| Johannesburg | 1,847 | 19 |
| Kiev | 1,817 | 26 |
| Kuala Lumpur | 1,935 | 15 |
| Lima | 1,957 | 31 |
| Lisbon | 1,748 | 23 |
| Ljubljana | 1,853 | 25 |
| London | 1,740 | 25 |
| Los Angeles | 1,928 | 14 |
| Luxembourg | 1,703 | 32 |
| Lyon | 1,631 | 29 |
| Madrid | 1,731 | 26 |
| Manama | 2,076 | 34 |
| Manila | 1,951 | 21 |
| Mexico City | 2,261 | 17 |
| Miami | 1,854 | 19 |
| Milan | 1,691 | 26 |
| Montreal | 1,783 | 18 |
| Moscow | 1,647 | 31 |
| Mumbai | 2,277 | 21 |
| Munich | 1,721 | 29 |
| Nairobi | 2,184 | 22 |
| New Delhi | 2,214 | 26 |
| New York City | 1,847 | 27 |
| Nicosia | 1,855 | 22 |
| Oslo | 1,744 | 25 |
| Paris | 1,604 | 29 |
| Prague | 1,753 | 28 |
| Riga | 1,823 | 20 |
| Rio de Janeiro | 1,745 | 30 |
| Rome | 1,736 | 32 |
| Santiago de Chile | 2,082 | 17 |
| Sao Paulo | 1,818 | 31 |
| Seoul | 1,934 | 15 |
| Shanghai | 2,051 | 7 |
| Sofia | 1,821 | 22 |
| Stockholm | 1,770 | 25 |
| Sydney | 1,829 | 24 |
| Taipei | 2,141 | 13 |
| Tallinn | 1,738 | 30 |
| Tel Aviv | 2,038 | 17 |
| Tokyo | 2,055 | 17 |
| Toronto | 1,985 | 19 |
| Vienna | 1,678 | 27 |
| Vilnius | 1,716 | 30 |
| Warsaw | 1,757 | 26 |
| Zurich | 1,912 | 24 |

Appendix

## Job descriptions

## Industrial sector

## Construction worker

Unskilled or semi-skilled laborer without technical training, approximate age and status: 25 , single

## Department manager

Head of production department with more than 100 employees in a sizable company in the metal processing, machinery, or tool-making industry; full vocational training and considerable professional experience, approximate age and status: 40, married, two children

## Electrical engineer

Employed by an industrial firm in the electrical equipment, electric power, or similar industry; completed studies at a university or institute of higher technical education; at least five years of practical experience, approximate age and status: 35, married, two children

## Female industrial worker

Unskilled or semi-skilled operator in a medi-um-sized plant in the textile industry, approximate age and status: 25 , single

## Industrial technician

Skilled mechanic with vocational training and considerable experience with a large company in the metal-working and tool industry, approximate age and status: 35, married, two children

## Services sector

## Automobile mechanic

Completed training or apprenticeship, at least five years of experience, approximate age and status: 25 , single

## Bank credit clerk

Completed apprenticeship, at least 10 years of experience, approximate age and status: 35 , single

## Bus driver

Employed by a municipal transport system, at least 10 years of driving experience, approximate age and status: 35, married, two children

## Call center agent

Trained agent at an inbound call/service center in the telecommunications or technology sector, approximate age and status: 25 , single

## Cook (chef de partie)

Cook in a kitchen with a fairly large staff in a respected restaurant or hotel, deputy of the head chef or chef de partie, supervises two to three cooks, completed vocational training as cook, about 10 years of experience, approximate age and status: 30 , single

## Female sales assistant

Sales in the ladies' apparel department of a large department store, specialized training in sales, several years of experience, approximate age and status: 25 , single

## Hospital nurse

Completed apprenticeship or studies, at least 10 years of experience, approximate age and status: 35 , married, two children

## Primary public school teacher

Teaching for about 10 years in government-operated schools, approximate age and status: 35, married, two children

## Product manager

Manager in pharmaceutical, chemical or food industry, about five years of experience, tertiary educational degree, middle management, approximate age and status: 35 , married

## Secretary/personal assistant

Secretary of a department manager in an industrial firm, at least five years of experience; knowledge of PCs and one foreign language, approximate age and status: 25 , single

| Cities | Department manager | Female industrial worker | Construction worker | Industrial technician | Electrical engineer |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Amsterdam | 51,379 | 25,796 | 26,135 | 42,374 | 42,587 |
| Athens | 54,176 | 10,324 | 10,073 | 22,581 | 17,222 |
| Auckland | 78,286 | 34,809 | 37,950 | 58,739 | 63,351 |
| Bangkok | 29,611 | 5,080 | 5,055 | 11,719 | 12,730 |
| Barcelona | 44,698 | 16,365 | 20,655 | 24,440 | 41,382 |
| Beijing | 19,107 | 5,358 | 4,712 | 6,197 | 14,621 |
| Berlin | 76,888 | 23,894 | 25,466 | 38,689 | 61,813 |
| Bogotá | 20,494 | 3,235 | 4,364 | 9,245 | 15,556 |
| Bratislava | 58,396 | 16,978 | 22,358 | 19,465 | 25,125 |
| Brussels | 70,864 | 32,068 | 32,137 | 42,974 | 52,944 |
| Bucharest | 14,466 | 4,372 | 4,783 | 7,074 | 12,020 |
| Budapest | 22,437 | 5,459 | 5,159 | 8,672 | 19,781 |
| Buenos Aires | 18,728 | 10,277 | 9,921 | 12,489 | 16,929 |
| Cairo | 26,570 | 1,993 | 1,888 | 8,609 | 11,318 |
| Chicago | 107,820 | 38,965 | 42,000 | 43,500 | 94,299 |
| Copenhagen | 72,099 | 42,012 | 36,684 | 45,202 | 79,845 |
| Doha | 56,039 | 8,241 | 5,824 | 22,251 | 54,940 |
| Dubai | 73,494 | 6,533 | 5,299 | 25,315 | 65,328 |
| Dublin | 59,837 | 23,013 | 29,955 | 46,456 | 48,143 |
| Frankfurt | 56,305 | 26,993 | 27,182 | 42,705 | 63,594 |
| Geneva | 130,704 | 57,094 | 58,302 | 84,079 | 109,649 |
| Helsinki | 47,383 | 27,736 | 30,643 | 43,079 | 50,419 |
| Hong Kong | 64,505 | 29,414 | 29,930 | 37,671 | 55,474 |
| Istanbul | 41,052 | 7,086 | 9,583 | 18,652 | 34,609 |
| Jakarta | 10,190 | 2,023 | 3,011 | 3,844 | 10,885 |
| Johannesburg | 40,648 | 9,453 | 5,420 | 34,799 | 58,426 |
| Kiev | 8,005 | 2,384 | 3,225 | 2,822 | 4,208 |
| Kuala Lumpur | 44,868 | 6,173 | 7,066 | 8,562 | 18,616 |
| Lima | 20,438 | 6,576 | 7,220 | 12,586 | 18,663 |
| Lisbon | 21,231 | 14,938 | 11,539 | 19,545 | 20,684 |
| Ljubljana | 33,532 | 20,224 | 12,815 | 24,993 | 27,647 |
| London | 57,910 | 33,583 | 31,966 | 54,121 | 61,296 |
| Los Angeles | 85,500 | 30,667 | 38,000 | 55,000 | 82,333 |
| Luxembourg | 115,857 | 32,442 | 30,279 | 61,787 | 67,194 |
| Lyon | 52,306 | 23,485 | 23,320 | 28,865 | 52,698 |
| Madrid | 44,525 | 17,335 | 21,992 | 31,314 | 31,631 |
| Manama | 58,353 | 13,527 | 9,549 | 35,542 | 56,231 |
| Manila | 12,870 | 2,190 | 2,208 | 3,303 | 10,842 |
| Mexico City | 14,581 | 3,019 | 2,063 | 8,856 | 7,521 |
| Miami | 116,393 | 33,160 | 28,887 | 72,777 | 96,657 |
| Milan | 55,332 | 21,988 | 22,243 | 34,771 | 52,736 |
| Montreal | 105,607 | 45,452 | 39,804 | 50,252 | 54,224 |
| Moscow | 13,835 | 6,653 | 7,144 | 10,962 | 18,749 |
| Mumbai | 16,200 | 2,791 | 2,087 | 5,045 | 11,847 |
| Munich | 87,211 | 29,281 | 23,634 | 36,234 | 66,500 |
| Nairobi | 14,846 | 2,324 | 1,958 | 2,719 | 4,911 |
| New Delhi | 14,705 | 2,952 | 1,688 | 4,396 | 8,069 |
| New York City | 142,500 | 19,055 | 29,415 | 47,000 | 100,055 |
| Nicosia | 64,660 | 47,582 | 22,872 | 30,893 | 48,426 |
| Oslo | 76,080 | 42,267 | 41,210 | 52,411 | 54,947 |
| Paris | 52,696 | 21,304 | 24,383 | 28,501 | 51,937 |
| Prague | 17,073 | 8,939 | 8,205 | 12,910 | 15,067 |
| Riga | 16,770 | 7,437 | 11,627 | 11,442 | 14,342 |
| Rio de Janeiro | 36,872 | 4,479 | 7,658 | 22,986 | 36,006 |
| Rome | 63,803 | 30,482 | 27,179 | 36,549 | 46,320 |
| Santiago de Chile | 20,375 | 7,935 | 10,062 | 15,656 | 33,944 |
| Sao Paulo | 58,271 | 5,450 | 6,228 | 44,746 | 31,750 |
| Seoul | 32,026 | 17,486 | 28,161 | 26,965 | 35,892 |
| Shanghai | 31,759 | 5,229 | 7,730 | 9,741 | 18,368 |
| Sofia | 18,002 | 5,131 | 5,142 | 5,905 | 7,464 |
| Stockholm | 80,042 | 33,665 | 40,208 | 42,291 | 54,172 |
| Sydney | 92,460 | 48,957 | 62,355 | 59,493 | 70,195 |
| Taipei | 79,811 | 11,048 | 20,435 | 24,205 | 27,852 |
| Tallinn | 45,851 | 8,742 | 12,755 | 17,302 | 22,277 |
| Tel Aviv | 43,208 | 21,451 | 15,899 | 31,482 | 45,805 |
| Tokyo | 74,239 | 31,578 | 41,825 | 63,407 | 53,536 |
| Toronto | 63,164 | 40,445 | 36,992 | 55,165 | 70,083 |
| Vienna | 65,262 | 26,360 | 31,532 | 39,182 | 57,146 |
| Vilnius | 24,844 | 4,947 | 10,414 | 18,319 | 14,655 |
| Warsaw | 33,829 | 7,444 | 8,695 | 19,021 | 16,275 |
| Zurich | 159,705 | 47,934 | 62,276 | 75,691 | 123,676 |


| Cities | $\begin{array}{r} \text { Bus } \\ \text { driver } \\ \hline \end{array}$ | Automobile mechanic | Call center agent | Cook (chef de partie) | Hospita nurse |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Amsterdam | 35,340 | 28,328 | 27,960 | 32,251 | 41,006 |
| Athens | 17,708 | 9,786 | 10,527 | 19,832 | 14,638 |
| Auckland | 35,659 | 39,760 | 29,969 | 35,909 | 50,794 |
| Bangkok | 8,234 | 11,033 | 5,025 | 14,143 | 19,854 |
| Barcelona | 29,153 | 22,926 | 22,759 | 34,064 | 29,463 |
| Beijing | 8,090 | 6,649 | 3,679 | 7,294 | 9,789 |
| Berlin | 28,227 | 31,189 | 19,320 | 44,208 | 34,269 |
| Bogotá | 6,254 | 6,678 | 5,078 | 8,831 | 9,006 |
| Bratislava | 12,779 | 11,420 | 22,922 | 22,385 | 8,795 |
| Brussels | 38,251 | 34,800 | 32,739 | 36,879 | 41,870 |
| Bucharest | 11,601 | 7,868 | 6,965 | 11,010 | 6,385 |
| Budapest | 9,023 | 7,349 | 9,117 | 14,567 | 7,672 |
| Buenos Aires | 17,246 | 12,991 | 10,212 | 14,526 | 11,655 |
| Cairo | 2,202 | 4,283 | 2,884 | 10,095 | 4,195 |
| Chicago | 31,714 | 55,679 | 36,804 | 43,879 | 67,950 |
| Copenhagen | 45,819 | 43,295 | 42,413 | 49,296 | 52,402 |
| Doha | 9,312 | 11,171 | 14,284 | 16,482 | 17,306 |
| Dubai | 18,237 | 14,880 | 13,283 | 64,784 | 27,583 |
| Dublin | 39,016 | 27,920 | 25,610 | 32,273 | 45,084 |
| Frankfurt | 32,993 | 31,594 | 22,846 | 39,424 | 31,805 |
| Geneva | 64,590 | 66,145 | 51,014 | 75,875 | 79,665 |
| Helsinki | 34,743 | 33,623 | 24,630 | 29,527 | 33,415 |
| Hong Kong | 27,608 | 25,289 | 24,512 | 51,573 | 58,313 |
| Istanbul | 11,611 | 11,347 | 6,649 | 75,239 | 13,437 |
| Jakarta | 3,103 | 3,103 | 2,548 | 8,801 | 2,200 |
| Johannesburg | 10,339 | 12,111 | 6,791 | 51,307 | 14,664 |
| Kiev | 2,944 | 5,789 | 2,983 | 9,576 | 1,946 |
| Kuala Lumpur | 6,184 | 9,132 | 8,617 | 18,810 | 12,806 |
| Lima | 6,383 | 8,409 | 6,998 | 9,768 | 9,206 |
| Lisbon | 28,100 | 16,149 | 10,562 | 25,773 | 15,752 |
| Ljubljana | 14,748 | 19,511 | 20,646 | 20,159 | 17,142 |
| London | 37,402 | 32,718 | 25,986 | 41,107 | 41,359 |
| Los Angeles | 39,783 | 40,733 | 33,733 | 53,567 | 75,000 |
| Luxembourg | 85,578 | 40,228 | 32,442 | 41,093 | 88,822 |
| Lyon | 27,791 | 20,579 | 28,474 | 29,780 | 25,676 |
| Madrid | 33,170 | 23,492 | 15,922 | 31,339 | 26,783 |
| Manama | 17,665 | 36,232 | 12,732 | 68,962 | 33,770 |
| Manila | 3,083 | 2,897 | 4,330 | 3,367 | 4,783 |
| Mexico City | 1,813 | 3,083 | 3,342 | 17,109 | 12,286 |
| Miami | 38,317 | 38,025 | 28,076 | 60,122 | 69,484 |
| Milan | 29,270 | 22,068 | 18,438 | 42,319 | 38,534 |
| Montreal | 46,218 | 37,114 | 27,790 | 40,532 | 45,286 |
| Moscow | 13,381 | 11,945 | 8,694 | 11,491 | 7,787 |
| Mumbai | 3,185 | 2,017 | 3,239 | 12,741 | 5,216 |
| Munich | 34,427 | 32,330 | 24,470 | 35,540 | 33,454 |
| Nairobi | 2,741 | 3,094 | 3,884 | 4,494 | 3,865 |
| New Delhi | 4,204 | 4,619 | 3,249 | 6,689 | 6,583 |
| New York City | 63,800 | 47,678 | 29,560 | 63,725 | 91,600 |
| Nicosia | 31,290 | 27,049 | 26,657 | 37,159 | 29,881 |
| Oslo | 48,184 | 48,184 | 44,380 | 49,452 | 50,297 |
| Paris | 26,959 | 22,890 | 24,001 | 34,625 | 34,759 |
| Prague | 11,285 | 9,400 | 9,674 | 12,869 | 10,378 |
| Riga | 10,570 | 11,876 | 8,736 | 8,632 | 8,127 |
| Rio de Janeiro | 7,680 | 7,479 | 3,597 | 20,260 | 19,970 |
| Rome | 32,035 | 29,843 | 19,934 | 54,888 | 32,983 |
| Santiago de Chile | 11,348 | 13,365 | 8,058 | 14,222 | 23,529 |
| Sao Paulo | 9,001 | 7,857 | 4,942 | 22,257 | 18,411 |
| Seoul | 40,475 | 27,839 | 18,406 | 23,008 | 31,290 |
| Shanghai | 7,983 | 8,521 | 5,519 | 13,556 | 14,524 |
| Sofia | 7,110 | 7,369 | 8,714 | 10,914 | 4,169 |
| Stockholm | 37,915 | 36,681 | 37,086 | 37,714 | 42,963 |
| Sydney | 45,040 | 47,668 | 32,646 | 39,062 | 48,404 |
| Taipei | 22,668 | 16,634 | 15,330 | 48,840 | 20,144 |
| Tallinn | 12,068 | 14,058 | 10,572 | 19,033 | 14,274 |
| Tel Aviv | 29,448 | 25,176 | 24,230 | 38,423 | 31,421 |
| Tokyo | 39,106 | 38,437 | 33,460 | 46,008 | 47,179 |
| Toronto | 44,613 | 31,987 | 23,652 | 38,870 | 52,919 |
| Vienna | 36,031 | 35,637 | 31,429 | 29,493 | 32,789 |
| Vilnius | 12,761 | 12,626 | 6,505 | 22,038 | 8,140 |
| Warsaw | 10,372 | 10,818 | 7,798 | 17,513 | 9,781 |
| Zurich | 77,028 | 68,886 | 54,967 | 81,224 | 76,581 |

Gross annual incomes (in USD) in the services sector

| Cities | Bank credit clerk | Product manager | Secretary/personal assistant | Female sales assistant | Primary public school teacher |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Amsterdam | 37,748 | 49,641 | 31,019 | 27,624 | 43,487 |
| Athens | 20,219 | 33,848 | 12,135 | 14,004 | 18,546 |
| Auckland | 34,468 | 62,593 | 46,660 | 27,426 | 47,182 |
| Bangkok | 22,815 | 17,951 | 11,286 | 7,053 | 7,425 |
| Barcelona | 32,427 | 64,163 | 22,163 | 18,636 | 31,301 |
| Beijing | 4,583 | 28,403 | 4,648 | 6,197 | 8,650 |
| Berlin | 48,938 | 56,631 | 28,433 | 23,577 | 53,938 |
| Bogotá | 10,331 | 67,629 | 10,970 | 4,508 | 8,682 |
| Bratislava | 23,935 | 34,305 | 12,869 | 10,652 | 12,247 |
| Brussels | 44,632 | 50,943 | 36,060 | 35,114 | 41,293 |
| Bucharest | 8,711 | 20,236 | 5,778 | 7,146 | 5,431 |
| Budapest | 11,472 | 21,736 | 9,364 | 6,337 | 9,149 |
| Buenos Aires | 16,431 | 22,410 | 14,253 | 14,508 | 10,191 |
| Cairo | 10,838 | 10,270 | 4,326 | 3,671 | 1,398 |
| Chicago | 47,040 | 109,207 | 44,929 | 42,088 | 69,074 |
| Copenhagen | 66,462 | 82,992 | 50,736 | 32,819 | 52,860 |
| Doha | 40,656 | 49,080 | 23,624 | 17,471 | 29,668 |
| Dubai | 24,171 | 89,826 | 18,691 | 15,243 | 30,759 |
| Dublin | 37,840 | 82,186 | 28,837 | 27,035 | 44,835 |
| Frankfurt | 48,490 | 58,020 | 32,586 | 25,769 | 52,100 |
| Geneva | 121,684 | 119,595 | 75,417 | 46,683 | 88,922 |
| Helsinki | 32,888 | 53,785 | 32,706 | 30,777 | 39,787 |
| Hong Kong | 61,151 | 52,378 | 30,446 | 26,318 | 56,764 |
| Istanbul | 15,823 | 24,156 | 12,265 | 9,515 | 12,725 |
| Jakarta | 2,432 | 11,580 | 5,906 | 2,200 | 2,501 |
| Johannesburg | 12,773 | 47,117 | 15,581 | 6,570 | 13,173 |
| Kiev | 3,923 | 6,567 | 3,452 | 3,009 | 1,714 |
| Kuala Lumpur | 7,569 | 19,182 | 9,591 | 7,166 | 12,218 |
| Lima | 13,432 | 23,273 | 10,154 | 6,217 | 8,837 |
| Lisbon | 26,494 | 16,149 | 15,291 | 12,479 | 26,848 |
| Ljubljana | 24,967 | 28,990 | 19,180 | 12,620 | 22,755 |
| London | 29,587 | 106,077 | 28,606 | 26,984 | 38,197 |
| Los Angeles | 68,633 | 94,000 | 42,267 | 38,067 | 54,667 |
| Luxembourg | 75,698 | 50,826 | 38,930 | 29,847 | 94,229 |
| Lyon | 49,744 | 59,469 | 27,724 | 23,358 | 30,096 |
| Madrid | 38,541 | 44,878 | 21,448 | 20,855 | 33,019 |
| Manama | 36,285 | 49,759 | 19,734 | 19,150 | 31,829 |
| Manila | 5,783 | 35,295 | 3,474 | 2,389 | 5,192 |
| Mexico City | 6,240 | 30,327 | 12,815 | 3,707 | 6,782 |
| Miami | 51,157 | 111,037 | 38,002 | 29,065 | 63,870 |
| Milan | 44,085 | 47,582 | 26,253 | 21,260 | 30,441 |
| Montreal | 49,752 | 75,663 | 36,729 | 17,533 | 48,534 |
| Moscow | 13,986 | 19,505 | 11,189 | 9,148 | 11,378 |
| Mumbai | 4,966 | 22,859 | 5,447 | 4,149 | 3,446 |
| Munich | 45,253 | 62,627 | 34,947 | 27,406 | 45,598 |
| Nairobi | 6,741 | 15,756 | 6,741 | 3,480 | 2,300 |
| New Delhi | 5,394 | 6,848 | 7,167 | 3,631 | 8,011 |
| New York City | 53,695 | 119,000 | 39,080 | 26,500 | 80,500 |
| Nicosia | 40,553 | 56,181 | 27,997 | 31,063 | 41,748 |
| Oslo | 50,720 | 67,627 | 43,957 | 38,885 | 46,493 |
| Paris | 55,260 | 54,421 | 26,661 | 26,538 | 32,024 |
| Prague | 13,881 | 18,472 | 10,581 | 9,442 | 10,427 |
| Riga | 11,696 | 27,109 | 9,735 | 5,509 | 6,666 |
| Rio de Janeiro | 13,962 | 33,690 | 13,080 | 4,218 | 9,690 |
| Rome | 36,317 | 57,008 | 16,978 | 25,380 | 27,756 |
| Santiago de Chile | 17,594 | 32,731 | 10,015 | 8,692 | 13,307 |
| Sao Paulo | 12,613 | 51,575 | 14,007 | 11,299 | 14,010 |
| Seoul | 58,408 | 33,131 | 17,118 | 14,633 | 37,180 |
| Shanghai | 16,945 | 30,017 | 10,457 | 7,356 | 10,651 |
| Sofia | 6,889 | 12,748 | 6,630 | 4,666 | 4,476 |
| Stockholm | 46,278 | 80,878 | 35,707 | 34,969 | 39,205 |
| Sydney | 41,227 | 86,318 | 37,001 | 39,938 | 60,294 |
| Taipei | 20,074 | 56,768 | 14,480 | 12,350 | 24,911 |
| Tallinn | 14,491 | 18,816 | 12,025 | 11,376 | 12,371 |
| Tel Aviv | 30,753 | 70,942 | 24,736 | 21,361 | 25,220 |
| Tokyo | 52,281 | 55,418 | 36,806 | 27,312 | 62,917 |
| Toronto | 33,198 | 65,723 | 33,607 | 28,748 | 62,363 |
| Vienna | 42,770 | 54,483 | 40,791 | 26,570 | 34,125 |
| Vilnius | 18,771 | 19,516 | 7,408 | 5,688 | 9,660 |
| Warsaw | 11,393 | 28,966 | 10,470 | 8,749 | 12,887 |
| Zurich | 107,124 | 127,031 | 69,684 | 54,462 | 110,815 |

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## Prices and earnings

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## Illustration

Michael Galliker
Rodrigo Jimenez

City comparisons
at your fingertips
Prices and earnings on UBS Newsstand


[^0]:    Source: Bloomberg
    ${ }^{1}$ Average exchange rates
    for survey period
    (March - April 2015)
    ${ }^{2}$ Movement in exchange rate from 2012 to 2015: appreciation of local currency
    (LC) +; depreciation of local currency (LC) -
    ${ }^{3}$ Eurozone member since Jan. 2014
    ${ }^{4}$ Eurozone member since Jan. 2015
    n.a. = not available

[^1]:    Source: World Bank, International Monetary Fund
    ${ }^{1}$ Annual change of average consumer prices (in percent)
    ${ }^{2}$ Source: National statistical office

[^2]:    * New York City = Index 100

[^3]:    * New York City = Index 100

