

# FreeAgent Coding Test

Your challenge for today is to delve deep into the work of foreign exchange (FX) to provide a **Ruby library** for obtaining FX rates.

## Interface

- Here's how a client would expect to use the library where GBP is the base currency and USD is the counter currency: `ExchangeRate.at(Date.today, 'GBP', 'USD')`

## Data Source

- During development, the data source of FX rates will be the 90 day European Central Bank (ECB) feed:  
<http://www.ecb.europa.eu/stats/eurofxref/eurofxref-hist-90d.xml>
- It's expected we'll use an alternative provider in production.

## Data Storage

- We don't want to be dependant on the ECB website in order for our library to work, so the data should be prefetched and stored locally.
- Your solution should provide a mechanism to be used by a scheduler like cron to retrieve data once a day.
- When requesting a rate, the library should load it from the store, not from the feed.

## Implementation

- Your solution should be implemented in Ruby and be production-ready. You can choose whatever additional frameworks, gems and technologies best fit your solution.

## Timescales

- Please take as long as you need to produce a solution you are proud of. The majority of candidates submit a solution within one week. If you need longer due to other commitments that's ok - just check in with us regularly so we know you're still interested in the role.

## Delivery

- We would prefer you to deliver your solution as a zip file. If that presents a problem for any reason, just let us know.

## Example UI

- Below is a rough example of what a UI that uses this library might look like to give you an idea of its usage.

