Everyday Programming

Tons of everyday problems solved using programming!

Chris Wilson and Matt Gauger

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Calculating Sales Tax

You can write a program that will total up a list of prices. Often, stores have prices like: $4.99 or $2.79 that are sort of tricky to handle with mental math. Here's a quick program that'll total up a bunch of prices with tax included:

```
1  (define tax-rate 0.05)
2  (define item-with-tax
3    (lambda (price)
4        (+ price (* price tax-rate))))
5  (+ (item-with-tax 4.99) (item-with-tax 2.79))
```

Or, if you have a bunch of prices:

```
1  (apply + (map item-with-tax '(4.99 2.79 1.99)))
```

That's it!