Key takeaways: don't stop worrying, but love atomic()

```
Don't use floats.

Don't use round(), if you must, always account for the remainder.

Don't execute non thread-safe writes in a parallel environment.
```

```
Use Decimal instead of float, and Decimal.quantize() instead of round():
 Decimal('0.35') + Decimal('100.15')
Lock dependent rows during transactions:
 with transaction.atomic():
     players = Player.objects.filter(user=user).select_for_update()
     user.balance = player balance sum(players)
     user.save()
Use atomic compare-and-swap operations when you cant lock:
 User.objects.filter(id=user.id, balance__gt=50)\
             .update(balance=F('balance) - 50)`
```



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Final Disclaimer: I'm not qualified to tell you how to design your distributed system. Get a professional for that.

I can only show you challenges and solutions I've discovered in my personal adventures with Django. Please let me know if you have corrections!

Monadical is hiring and taking investment right now!

contact me: talks@sweeting.me

Slides & Info: github.com/pirate/django-concurrency-talk