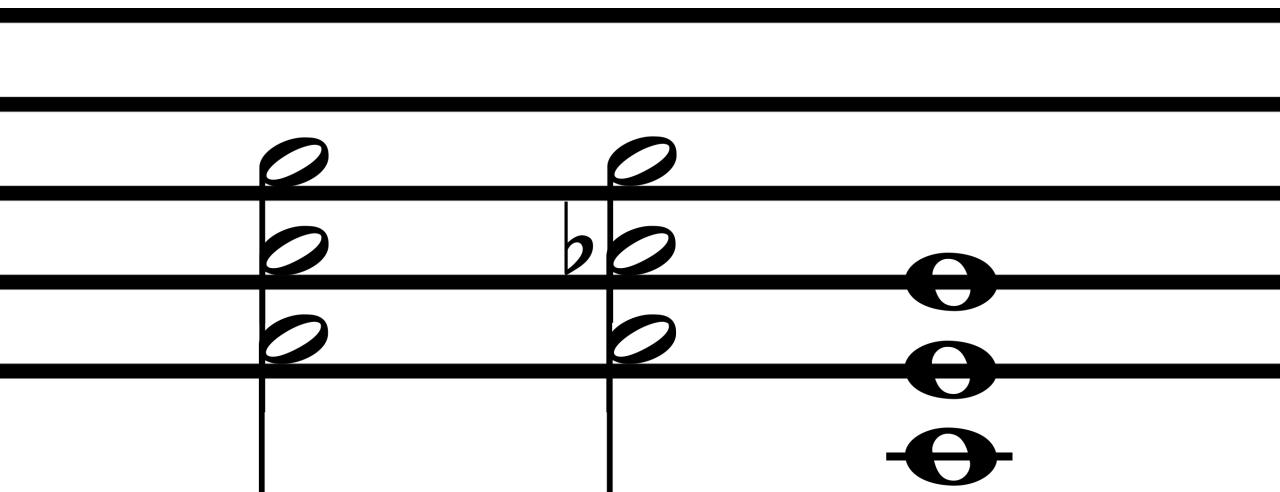
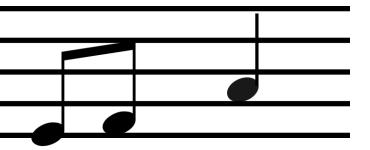
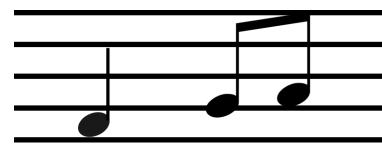
### Writing a Hit Song on Spotify





# How do you measure what a hit is?



#### **Streams**



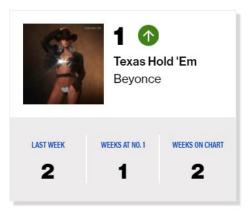
1 Beautiful Things Benson Boone	41,483,503	Beautiful Things	3:00
2 TEXAS HOLD 'EM  Beyoncé	36,879,384	TEXAS HOLD 'EM	3:56
CARNIVAL  ¥\$, Kanye West, Ty Dolla \$ign, Rich The Kid,	34,127,981	VULTURES 1	4:24
4 Cruel Summer Taylor Swift	33,526,124	Lover	<b>2:58</b>
greedy  Tate McRae	33,039,462	greedy	2:12





### There are other measures....

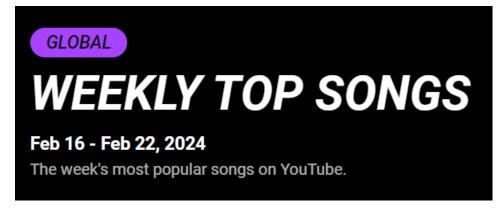
#### **Billboard Hot 100™**

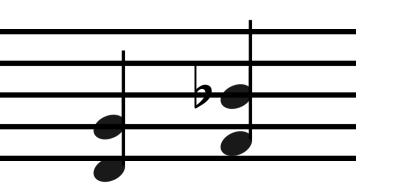




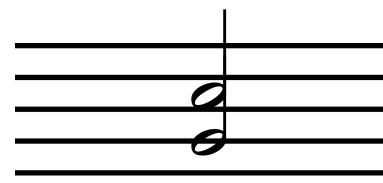








# How do you write a hit?



# Writing a hit song involves choosing:

Lyrics

Keys

Song length

Instrumentation

Chords

**Harmonies** 

Melody

**Album art** 

**BPM** 

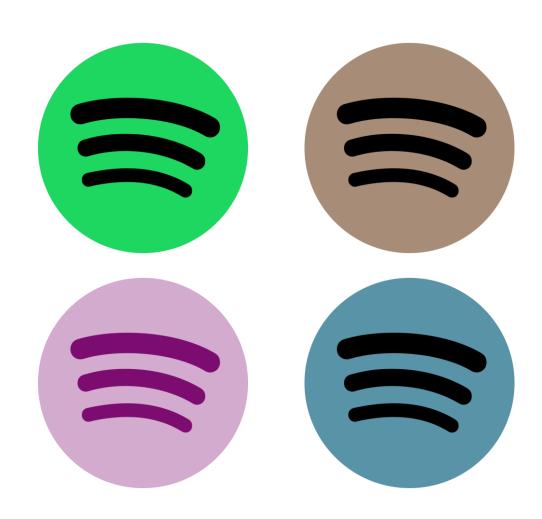
### **Our Dataset**

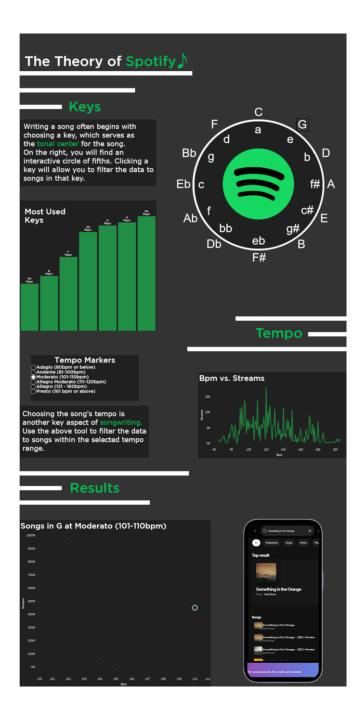
Most Streamed Spotify Songs 2023

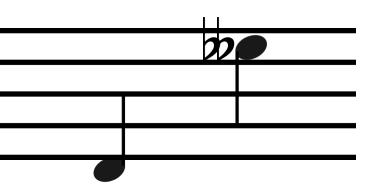
- 24 fields
- Data collected using Spotify API

#### Columns such as:

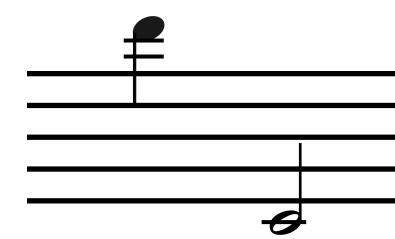
- Artist(s) name(s)
- Song name
- Streams
- Key
- Bpm
- Danceability

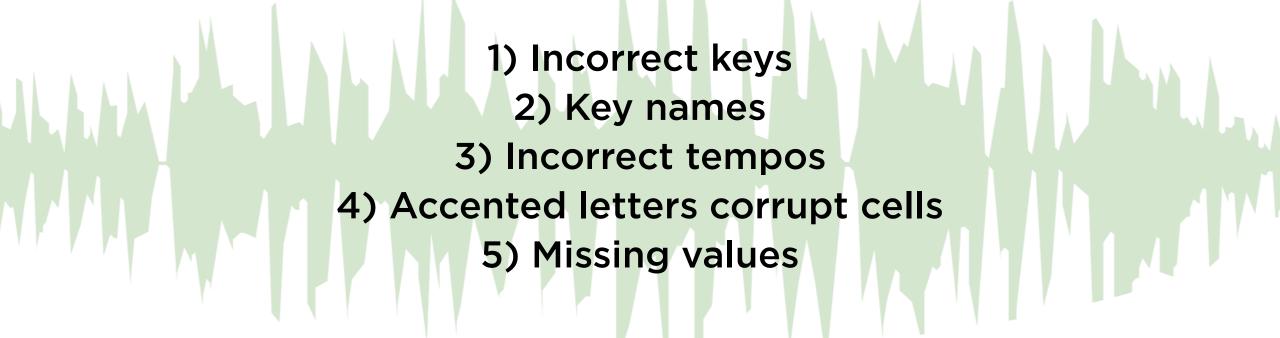






# Issues with the dataset





## Blinding Lights The Weeknd

Actual key: c min

$$iv - i - III - VII - VII4/2 III6$$



Key in the data: C# maj

$$IV - I - iii - vii^{\circ} - vii^{\emptyset}4/2$$
 iii6



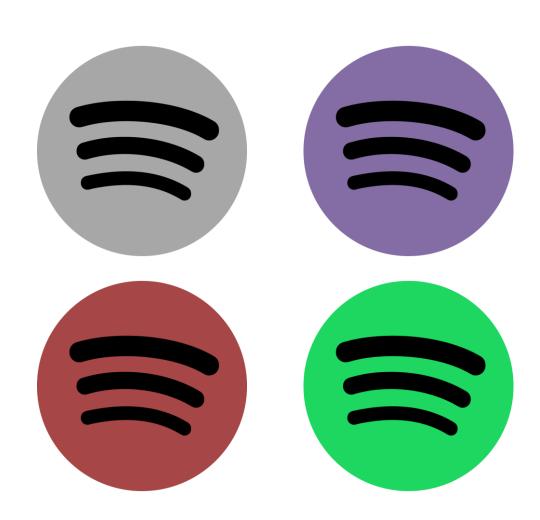


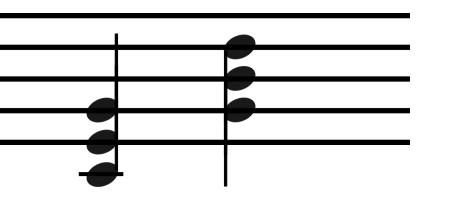
### Further Analyses

Although the data was useful in conducting simple theory analyses, there are other elements we would've liked to see:

- Song length
- Chord progression
- Time signature
- Genre

Many of these would require very sophisticated algorithms, however





### Conclusion

