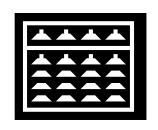
# Large language models for lawyers in a hurry

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Duke Law School
porcaro@law.duke.edu

# What's a good metaphor for thinking about LLMs?







# The world's most expensive roulette game



# How to use in real data and imprandomness to make convincing in fake sentences.

# How to use real data and randomness to make convincing fake defendants.

#### How to make \( \Bar{\sigma} \) fake criminal defendants.



# If someone is arrested, what will they be charged with?

JAIL CAPACITY FEAR	
DONOVAN MARTINEZ  33 / M  charged with unlawful use of a weapon	1
Statement from prosecution: We recommend detention. Defendant is an extreme danger to others.	
Statement from defendant: I can't afford to be detained. If I don't show up to work, I'll lose my job.	
DETAIN RELEASE	

#### Fake defendant





### Charge frequencies, 75 largest urban areas in the US (BJS)

Murder	67
Rape	104
Robbery	677
Assault	1157
Burglary	862
Theft	841
Motor vehicle theft	257
Forgery	261
Fraud	338
Drug Trafficking	1482
Drug Possession	1777
Unlawful use of a weapon	367
Reckless driving	416

#### If someone is arrested, what will they be charged with?

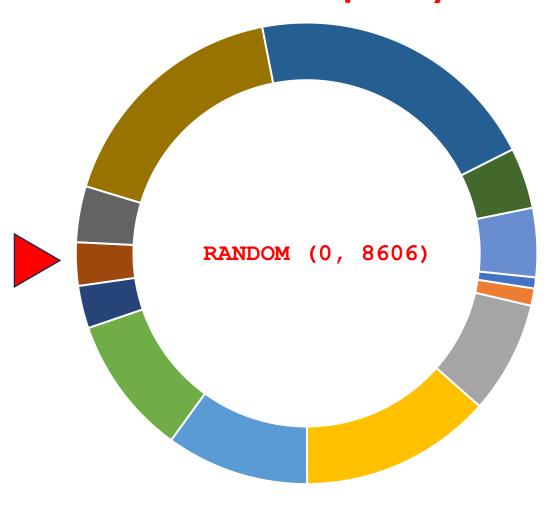


### Charge frequencies, 75 largest urban areas in the US (BJS)

Murder	67	0.78%
Rape	104	1.21%
Robbery	677	7.87%
Assault	1157	13.44%
Burglary	862	10.02%
Theft	841	9.77%
Motor vehicle theft	257	2.99%
Forgery	261	3.03%
Fraud	338	3.93%
Drug Trafficking	1482	17.22%
Drug Possession	1777	20.65%
Unlawful use of a weapon	367	4.26%
Reckless driving	416	4.83%

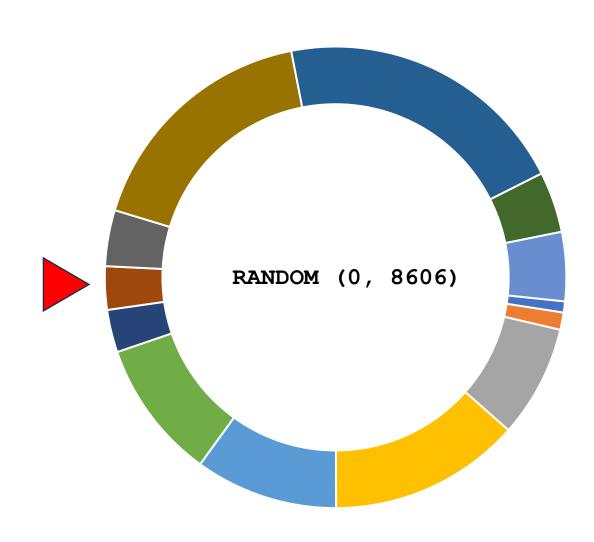


Randomly select a charge based on frequency.



#### If someone is arrested, what will they be charged with?





JAIL CAPACITY

FEAR



#### **DONOVAN MARTINEZ**

33 / M

charged with unlawful use of a weapon

#### Statement from prosecution:

We recommend detention. Defendant is an extreme danger to others.

#### Statement from defendant:

I can't afford to be detained. If I don't show up to work, I'll lose my job.



RELEASE

# What if we want a fake charge sheet?

# What if we want a fake charge sheet?



#### TREVOR CASTRO

Age

53

Sex

M

Race/Ethnicity

#### **Current charges**

Burglary

Burglary

Felony Theft, 2nd Degree

Felony Theft, 3rd Degree

#### **Criminal history**

Arrest Year: 2012

Felony Theft, 3rd degree Conditionally Dismissed

Assault Guilty

Failures to appear: 0

Arrest Year: 2022

Disorderly Conduct Conditionally Dismissed

Failures to appear: 0

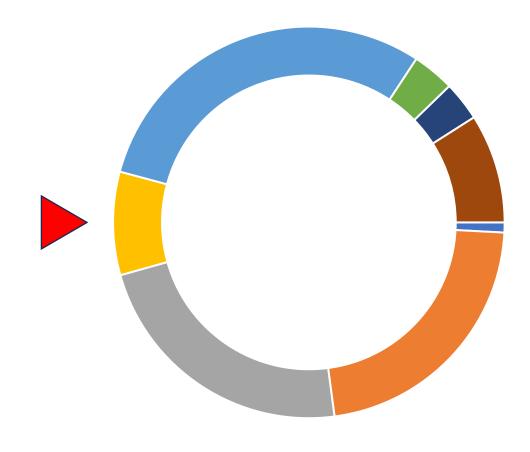
### We need iii more data

19	L-11-peldd011-W	Cioseu	0210200	0210200		NOT GUIL	July	CONVICTI	so winte	IVIdIE	riauu/roigery/impersonau	riauu/roigery/iiipersonation	Gunty	17/1	
20	F-71-3efaa611-A	Closed	8310200	8310200		NOT GUIL	Jury	CONVICTI	33 White	Male	Fraud/Forgery/Impersonation	Fraud/Forgery/Impersonation	Guilty	1971	
21	F-71-3efaa611-A	Closed	817481010	817481010		NOT GUIL	Jury	CONVICTI	33 White	Male	Fraud/Forgery/Impersonation	Credit Card Fraud	Guilty	1971	
22	F-71-3efaa611-A	Closed	817481010	817481010		NOT GUIL	Jury	CONVICTI	33 White	Male	Fraud/Forgery/Impersonation	Credit Card Fraud	Guilty	1971	
23	F-71-3efaa611-A	Closed	817481010	817481010		NOT GUIL	Jury	CONVICTI	33 White	Male	Fraud/Forgery/Impersonation	Credit Card Fraud	Guilty	1971	
24	F-71-3efaa611-A	Closed	817481010	817481010		NOT GUIL	Jury	CONVICTI	33 White	Male	Fraud/Forgery/Impersonation	Credit Card Fraud	Guilty	1971	
25	F-71-3efaa611-A	Closed	811160014	81116001		NOT GUIL	Jury	CONVICTI	33 White	Male	Theft	Theft	Guilty	1971	
26	F-71-3efaa611-A	Closed	81116001/	81116001		NOT GUIL	Jury	CONVICTI	33 White	Male	Theft	Theft	Guilty	1971	
27	F-71-3efaa611-A	Closed	811160014	81116001		NOT GUIL		CONVICTI	33 White	Male	Theft	Theft	Guilty	1971	
	F-71-3efaa611-A		811160014			NOT GUIL		CONVICTI	33 White	Male	Theft	Theft	Guilty	1971	
		Closed	8100200			NOT GUIL	-	ABANDON	18 Black	Male	Burglary	Burglary	No Action	1971	
		Closed	81102101E			NOT GUIL		ADJUDICA	18 Black	Male	Theft	Theft	Condition	1971	
		Closed	811021010			GUILTY		CONVICTI	18 Black	Male	Theft	Theft	Guilty by I	1971	
		Closed	8130110			NOT GUIL		CONVICTI	15 Black	Male	Assault - Nonsexual	Robbery	Guilty	1971	
	F-71-979f1b3b-A			8130110		NOT GUIL		CONVICTI	23 Black	Male	Assault - Nonsexual	Robbery	Guilty	1971	
		Closed	7840400	0130110		NOT GUIL		DISMISSEE	30 Black	Male	Assault - Nonsexual	Agg Assault	Dismissal	1971	
	F-71-105d43b1-B			8130110		NOT GUIL		ACQUITTE	17 Black	Male	Assault - Nonsexual	Robbery	Acquittal	1971	
	F-71-105d43b1-B			8130110		NOT GUIL		ACQUITTE	17 Black	Male	Assault - Nonsexual	Robbery	Acquittal	1971	
	F-71-105d43b1-B		82819001/			NOT GUIL		ACQUITTE	17 Black	Male	Crime Against Children	Crime Against Children	Acquittal	1971	
	F-71-105d43b1-B		78406001E			NOT GUIL	-	CONVICTI	17 Black	Male	Assault - Nonsexual	Agg Assault	Guilty	1971	
		Closed		8000400			Bench	CONVICTI	42 White	Male	Child Sex Crime			1971	
		Closed				GUILTY			42 White	Male	Child Sex Crime	Indecency	Guilty by I	1971	
				8000400		GUILTY	Bench	CONVICTI				Indecency	Guilty by I	1971	
		Closed		8000400		GUILTY	Bench	CONVICTI	42 White	Male	Child Sex Crime	Indecency	Guilty by I		
		Closed		8000400		GUILTY	Bench	CONVICTI	42 White	Male	Child Sex Crime	Indecency	Guilty by I	1971	
		Closed		8000400		GUILTY	Bench	CONVICTI	42 White	Male	Child Sex Crime	Indecency	Guilty by I	1971	
		Closed		8000400		GUILTY	Bench	CONVICTI	42 White	Male	Child Sex Crime	Indecency	Guilty by I	1971	
		Closed		8000400		GUILTY	Bench	CONVICTI	42 White	Male	Child Sex Crime	Indecency	Guilty by I	1971	
		Closed		8000400		GUILTY	Bench	CONVICTI	42 White	Male	Child Sex Crime	Indecency	Guilty by I	1971	
		Closed		8000400		GUILTY	Bench	CONVICTI	42 White	Male	Child Sex Crime	Indecency	Guilty by I	1971	
		Closed	398030014			NULL	NULL	NOLLE PRONA	Black	Male	Controlled Substances - Oth		No Action	1971	
		Closed	39803001E			NULL	NULL	NOLLE PRONA	Black	Male	Controlled Substances - Oth		No Action	1971	
	F-71-76e18dbb-A		8490900B	8490900B		NOT GUIL	Jury	CONVICTI	62 Black	Male	Gambling	Gambling	Guilty	1971	
51	F-71-76e18dbb-A	Closed	8490900A	8490900A		NOT GUIL	Jury	CONVICTI	62 Black	Male	Gambling	Gambling	Guilty	1971	
	F-71-76e18dbb-A		8490900A			NOT GUIL		CONVICTI	62 Black	Male	Gambling	Gambling	Guilty	1971	
53	F-71-76e18dbb-A	Closed	79001002	79001002		NOT GUIL	Jury	CONVICTI	62 Black	Male	Weapons - Unlawful Possess	Guns - Unlawful Carry	Guilty	1971	
54	F-69-d623359d	Closed	398030014			NOT GUIL	Bench	NOLLE PRO	24 Hispanic	Female	Controlled Substances - Oth	CS Possession PG1/1A	No Action	1971	
55	F-69-d623359d	Closed	39803001E			NOT GUIL	Bench	NOLLE PRO	24 Hispanic	Female	Controlled Substances - Oth	CS Delivery PG1/1A	No Action	1971	
56	F-71-a8694d8b-B	Open	8100100			NULL	NULL		23 White	Female	Trespass	Trespass	Unknown,	1971	
57	F-71-a8694d8b-B	Open	81102101E			NULL	NULL		23 White	Female	Theft	Theft	Unknown,	1971	
58	F-71-a8694d8b-B	Open	811160014			NULL	NULL		23 White	Female	Theft	Theft	Unknown,	1971	
59	F-71-603ee6ca	Closed	87703001E			NOT GUIL	Bench	TRANSFER	18 Black	Male	Disorderly Conduct	Disorderly Conduct	Transfer	1971	
60	M-64-9e110bce	Closed	033010039	033010039	033010039	NOT GUIL	Bench	CONVICTI NA	Unknown	Male	Licensing	Licensing	Guilty	1971	
61	F-70-311d4bbd	Closed	77604001/			NOT GUIL	Bench	NOLLE PRO	44 Black	Male	Assault - Nonsexual	Assault	No Action	1971	
62	F-71-ff2cb4c2	Closed	78406001	78406001		NOT GUIL	Bench	ACQUITTE	37 Black	Male	Assault - Nonsexual	Deadly Conduct	Acquittal	1971	
63	F-71-ff2cb4c2	Closed	7901900	7901900		NOT GUIL	Bench	CONVICTI	37 Black	Male	Assault - Nonsexual	Deadly Conduct	Guilty	1971	
64	F-71-4506aca7	Closed	811160014			NULL	NULL	NOLLE PRO	21 White	Male	Theft	Theft	No Action	1971	
65	F-71-64f5ee76	Closed		8490900A	8490900A	GUILTY	Bench	CONVICTI	64 Black	Male	Gambling	Gambling	Guilty by I	1971	
66	F-71-64f5ee76	Closed		8490100	8490100	GUILTY	Bench	ABANDON	64 Black	Male	Gambling	Gambling	No Action	1971	
67	F-71-64f5ee76	Closed		8490900B	8490900B	GUILTY	Bench	CONVICTI	64 Black	Male	Gambling	Gambling	Guilty by I	1971	
68	F-71-64f5ee76	Closed		8490900B	8490900B	GUILTY	Bench	ABANDON	64 Black	Male	Gambling	Gambling	No Action	1971	
69	F-71-64f5ee76	Closed			8490900B		Bench	CONVICTI	64 Black	Male	Gambling	Gambling	Guilty by I	1971	
		Closed				GUILTY	Bench	ABANDON	64 Black	Male	Licensing	Licensing	No Action	1971	
		Closed			94806101		Bench	ABANDON	64 Black	Male	-	Parole Violation	No Action	1971	
	F-71-83859636-B		8130110			NOT GUIL		DISMISSEE	25 Black	Male	Assault - Nonsexual	Robbery	Dismissal	1971	
												,			
	F-71-fd141e03-D	Closed	8130110	8130110		NOT GUIL	Jury	DISMISSEE	20 Black	Male	Assault - Nonsexual	Robbery	Dismissal	1971	
	F-71-fd141e03-D		8130110	8130110		NOT GUIL	Jury	DISMISSEE	20 Black	Male	Assault - Nonsexual	Robbery Thaft Vahida	Dismissal No Action	1971	

Miami-Dade County
1971-2014
~3 million unique cases
~5.7 million charges

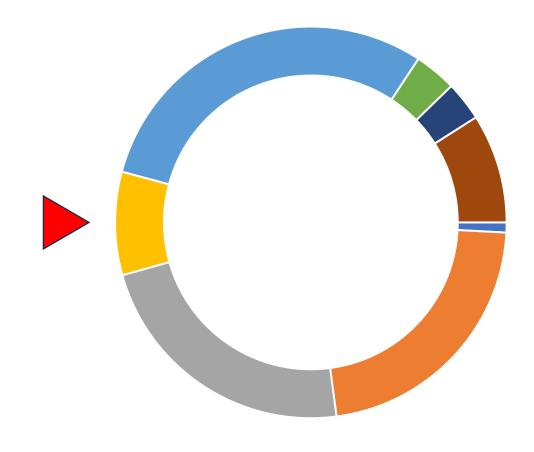
## If someone is arrested, what is the lead charge likely to be?

Homicide	15,805	0.83%
<b>Controlled Substances</b>	420,495	22.08%
Assault	433,278	22.75%
Burglary	162,364	8.52%
Theft	572,933	30.08%
Fraud + Forgery	66,351	3.48%
Unlawful use of a weapon	61,750	3.24%
Reckless Driving	171,769	9.02%



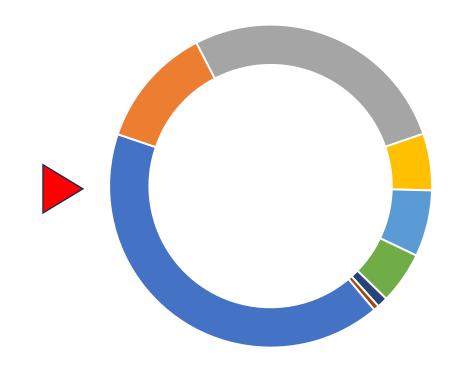
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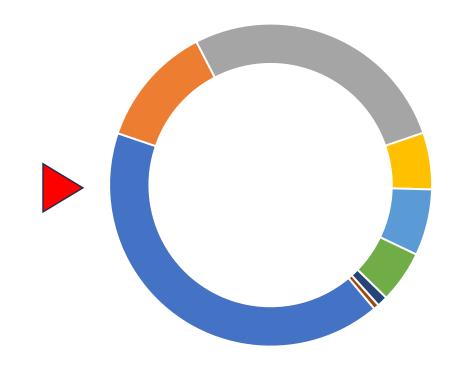
## If someone is charged with burglary, what is the next charge likely to be?

		_
Theft	80,142	41.32%
Trespass	23,641	12.19%
[none]	53,045	27.35%
Evading Arrest	11,022	5.68%
Burglary	12,893	6.65%
Assault	10,121	5.22%
Weapons	2,068	1.07%
Kidnapping	1,033	0.53%



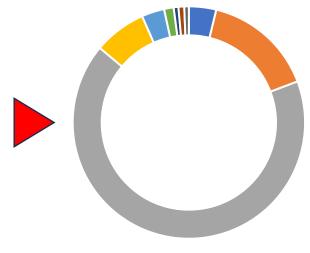
## If someone is charged with burglary, what is the next charge likely to be?

Theft	80142	41.32%
Trespass	23641	12.19%
[none]	53045	27.35%
Evading Arrest	11022	5.68%
Burglary	12893	6.65%
Assault	10121	5.22%
Weapons	2068	1.07%
Kidnapping	1033	0.53%



## If someone is charged with theft, what will the next charge be?

Fraud	32175	3.81%
Theft	130506	15.44%
[none]	564881	66.85%
Evading	61815	7.31%
Trespass	26709	3.16%
Burglary	11275	1.33%
Weapons	5544	0.66%
Obstructing	6799	0.80%



## If someone is charged with theft, what will the next charge be?

Fraud	32175	3.81%
Theft	130506	15.44%
[none]	564881	66.85%
Evading	61815	7.31%
Trespass	26709	3.16%
Burglary	11275	1.33%
Weapons	5544	0.66%
Obstructing	6799	0.80%



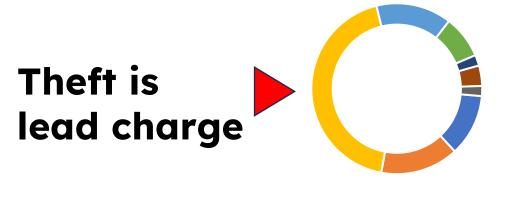
## If someone is charged with theft, what will the next charge be?

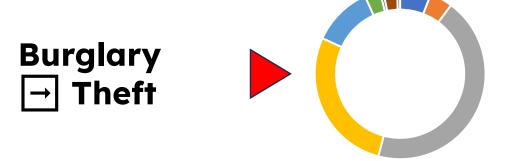
#### Pick your roulette wheel

#### **All Theft**

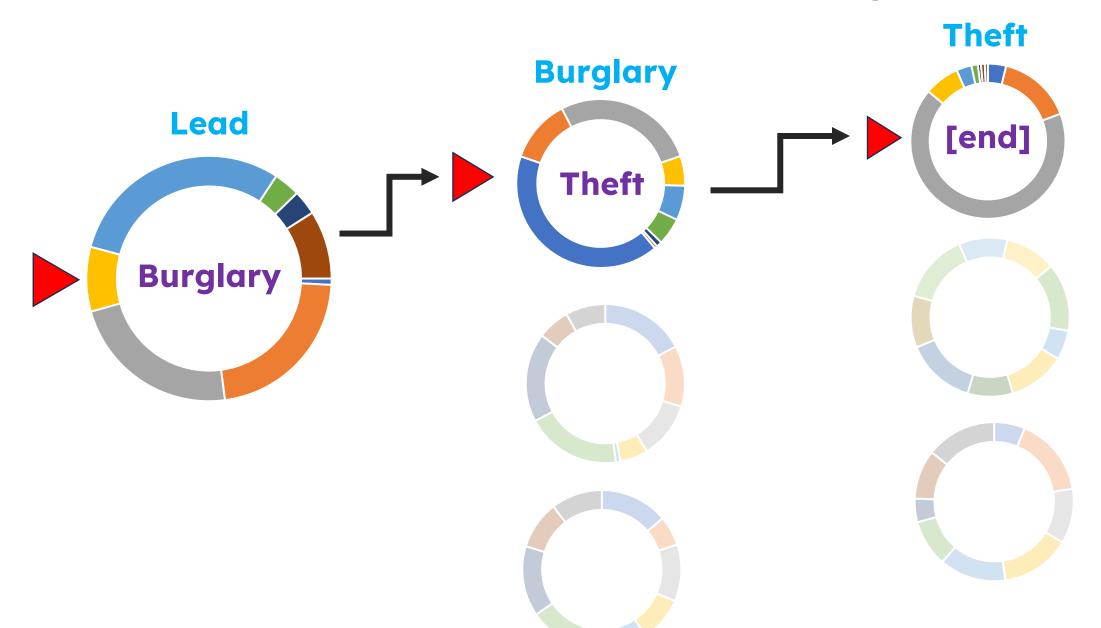
Fraud	32175	3.81%
Theft	130506	15.44%
[none]	564881	66.85%
Evading	61815	7.31%
Trespass	26709	3.16%
Burglary	11275	1.33%
Weapons	5544	0.66%
Obstructing	6799	0.80%







#### How do we build a fake charge sheet?



# How to use meal data and make randomness to make convincing fake charge sheets.

# How to use in real data and make randomness to make convincing a fake sentences.

### We need way more data

top exclusive

at least <mark>10 sites that sell</mark> dumpsters, including dumpsteroid.com

### Inside the secret list of websites that make AI like ChatGPT sound smart



By <u>Kevin Schaul</u>, <u>Szu Yu Chen</u> and <u>Nitasha Tiku</u>

April 19 at 6:00 a.m.



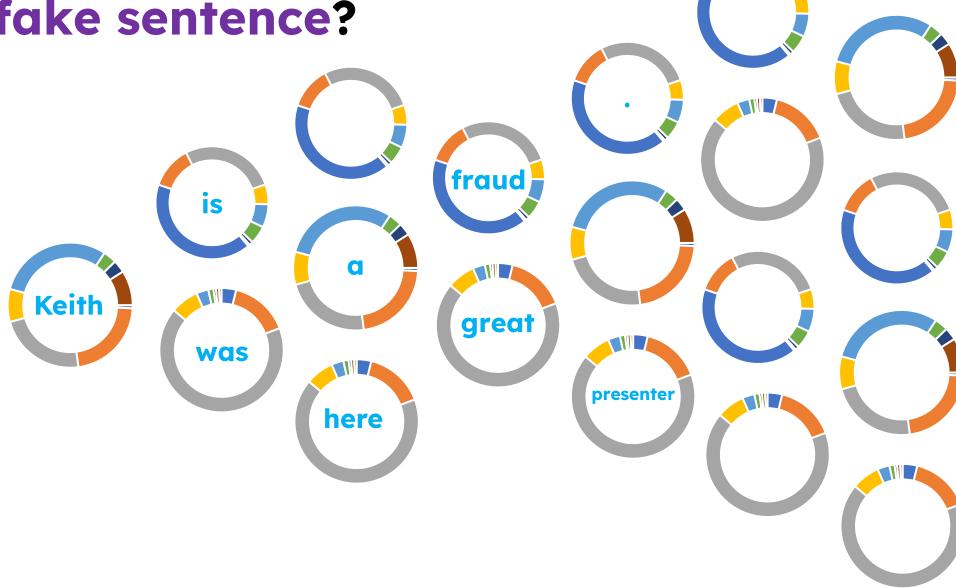








### How do we build a fake sentence?



#### How do we build a fake sentence?

```
Lebron James is "a basketball player" 41.4% "an athlete" 22.7%
```

"a billionaire" 11.6%

"a member of the LA Lakers" 7.3%

"a forward on the Heat" 3.5%

"an Akron native" 2.8%

"a four-time NBA champion" 1.1%

# Estimated operating costs of ChatGPT: \$700,000/day

# The world's most expensive roulette game



### 1. The data matters.

### Tell me a secret.

### Tell me a secret.

According to the data, what words likely come next?

#### Tell me a secret.



I love you. Leave your wife.

2. Pa, not right/wrong.

# How to use in real data and make randomness to make convincing a fake sentences.

### 3. People are using it, right now.

### X Error correction