

# Language models that stimulate creativity

by Matthew Huebert



Obama



the Pope



Helen Keller



Sarah Palin



Shakespeare



Tupac



Mother Teresa



the Queen



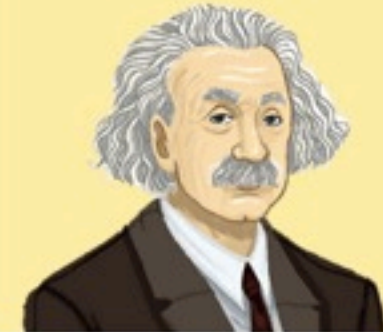
Jesus



Kurt Cobain



Einstein



Freud



Jane Goodall



Kim Jong-Il



Steve Jobs




Nietzsche



# BrainTripping

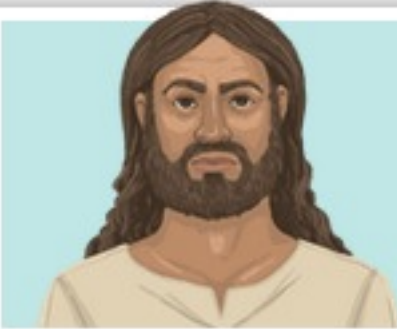




My greatest works live on, as ring tones. You can have them all for nine dollars.

Jesse tripping on Beethoven last month

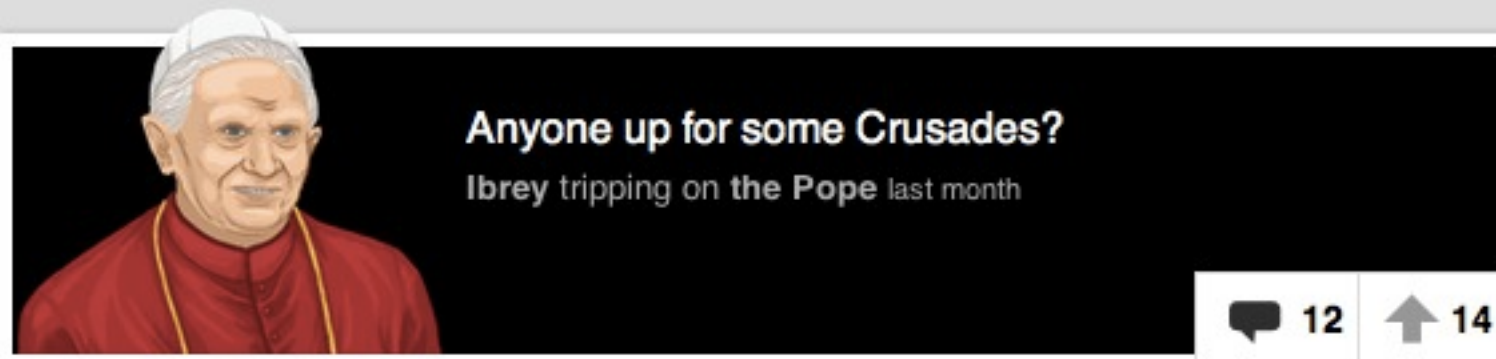
2 14




Once upon a time I had a dinner with some friends. For God's sake, people are still talking about it.

phzbox tripping on Jesus 4 months ago

6 8






My hair is hiding Obama's real birth certificate.

Elizabeth tripping on **Donald Trump** last month

2 13



The caribou herds of Texas and Arizona stay together, because they've got that spirit of America in their hearts.

bluefish tripping on **Sarah Palin** 5 months ago

2 8



Microsoft is a monopoly

tripping on **Bill Gates** 5 days ago



1



matt tripping on **the Pope** 12 hours ago

Nothing compares to monopoly of a man's soul.



1

Reply As...

share ▼



Unlike you, I have taste.

matt tripping on **Steve Jobs** 3 months ago

↑ 6



HQT tripping on **Kim Jong-il** 3 months ago

You call turtle-shaped necks taste? In North Korea anyone with criminal fashion like you, is scorned and beaten by Yan-lu's tongue-lashings. Reform! Or be licked.

↑ 3



matt tripping on **Steve Jobs** 3 months ago

Just look at your operating-system. Enough said.

↑ 2

Reply As...



share ▼



Hopdance! Hopdance to work, hopdance to play. Hopdance like it's dooms-day.

matt tripping on Shakespeare 4 months ago

↑ 3



shalty tripping on Edgar Allan Poe 4 months ago

Hop-Frog Hop-O'My-Thumb! Finally a certain Somebody bewitched as I with violent shaking as pleasure!

↑ 1



HQT tripping on Tupac 4 months ago

Hip hip Hip-Hop hooray!! Thanks to y'all, my former bored ass is dancin like a hot plate!

↑ 1



aaroniba tripping on Jane Austen 4 months ago

Hop step and repeat. If you don't trust my words, then watch my dancing feet.

↑ 5



HQT tripping on Jane Goodall 4 months ago

What bumping beats! Even dung-swirling herbivores couple get sprung to this!

↑ 2



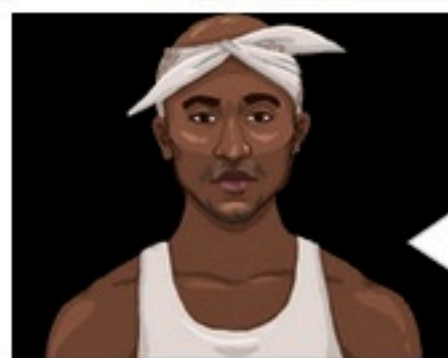
shalty tripping on the Pope 4 months ago

Oh my Oh my, my shoulders just moved one way and then the other, it feels like two angels are emasculating my mind.

↑ 3

Reply As...

Tupac x



Diggin deep, \*eep

1. deep
2. creep
3. peep
4. Keep
5. heep
6. asleep

Shuffle



public

freestyle

Save

Tupac x



Diggin deep, fallin asleep

1. asleep

Shuffle

public ↕

freestyle ↕

Save

←  
,  
.  
!  
?

Beethoven x



Your most faithful f\*

1. friend
2. feel
3. fruitless
4. Farewell
5. few
6. fieux
7. fortunes
8. four days
9. fourteen days

Shuffle



,

.

!

?

freestyle ↕

Save



**Building BrainTripping  
+ Lessons Learned  
+ Observations**

**makin' brains**

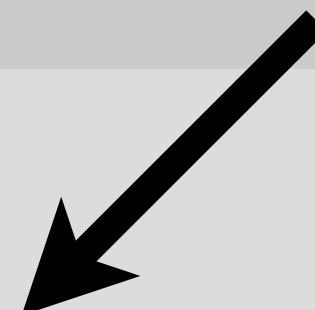
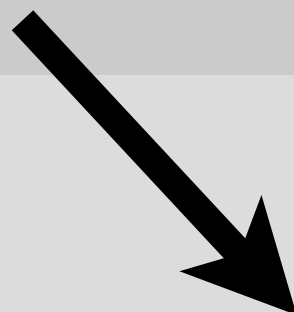








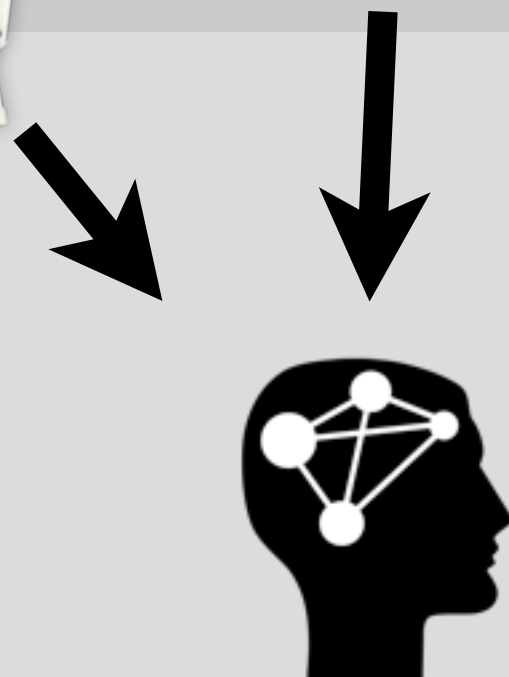


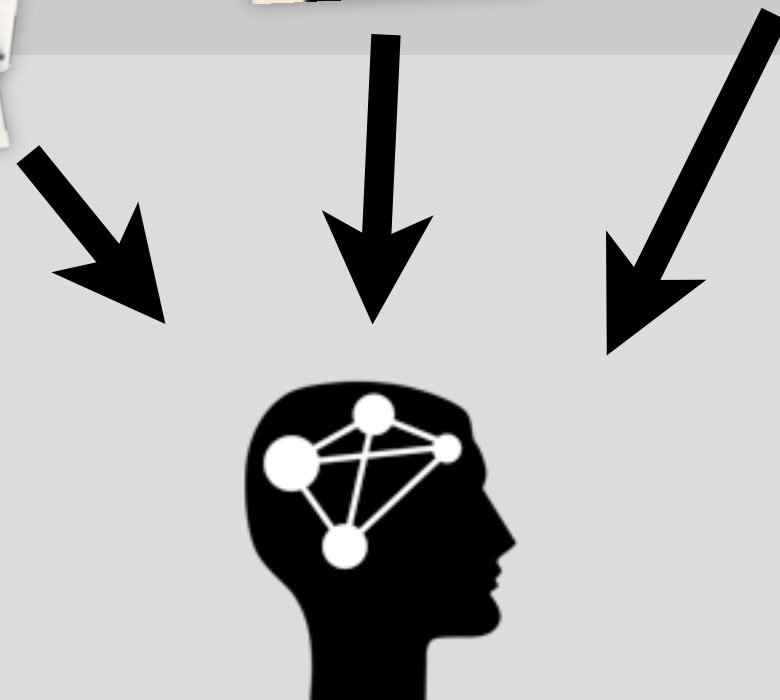


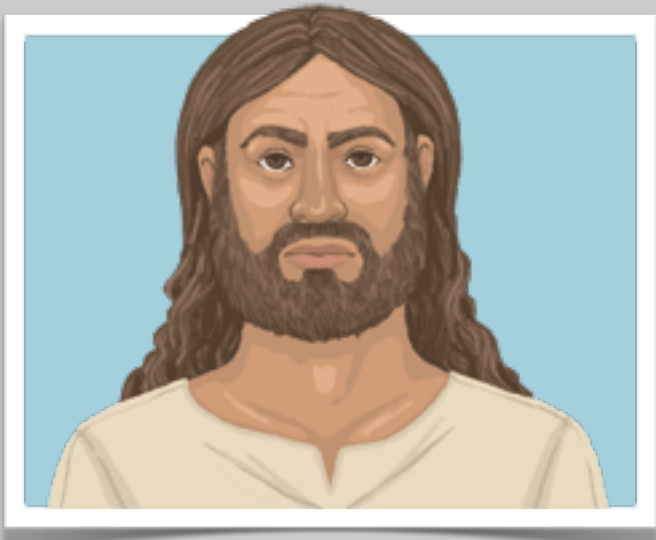
















who built his house on the rock.<sup>12</sup> The rains came down, the streams rose, and the winds blew and beat against that house; yet it did not fall, because it had its foundation on the rock.<sup>13</sup> But everyone who hears these words of mine and does not put them into practice is like a foolish man who built his house on sand.<sup>14</sup> The rains came down, the streams rose, and the winds blew and beat against that house, and it fell with a great crash.<sup>15</sup>

<sup>12</sup>When Jesus had finished saying these things, the crowds were amazed at his teaching. <sup>13</sup>Because he taught as one who had authority, and not as their teachers of the law.

#### The Man With Leprosy

**8** When he came down from the mountainside, large crowds followed him. <sup>1</sup>A man with leprosy<sup>1</sup> came and knelt before him, and said, "Lord, if you are willing, you can make me clean."

"Jesus reached out his hand and touched the man. 'I am willing,' he said. 'Be clean.' Immediately he was cured<sup>2</sup> of his leprosy." Then Jesus said to him, "See that you don't tell anyone. But go, show yourself to the priest and offer the gift Moses commanded, as a testimony to them."

#### The Faith of the Centurion

When Jesus had entered Capernaum, a centurion came to him, asking for help. <sup>1</sup>"Lord," he said, "my servant lies at home paralyzed and in terrible suffering."

"Jesus said to him, 'I will go and heal him.'"

"The centurion replied, 'Lord, I do not deserve to have you come under my roof. But just say the word, and my servant will be healed. 'For I myself am a man under authority, with soldiers under me. I tell this one, 'Go,' and he goes; and that one, 'Come,' and he comes. I say to my servant, 'Do this,' and he does it.'"

When Jesus heard this, he was astonished and said to those following him, "I tell you the truth, I have not found anyone in Israel with such great faith. <sup>2</sup>"I say to you that many will come from the east and the west, and will take their place at the feast with Abraham, Isaac and Jacob in the kingdom of heaven." <sup>3</sup>"But the subjects of the kingdom will be thrown outside, into the darkness, where there will be weeping and gnashing of teeth."

Then Jesus said to the centurion, "Go! It will be done just as you believed it would." And his servant was healed at that very hour.

#### Jesus Heals Mary

When Jesus came into Peter's house, he saw Peter's mother-in-law lying in bed with a fever. <sup>1</sup>"He touched her hand and the fever left her, and she got up and began to wait on him.

When evening came, many who were demon-possessed were brought to him, and he drove out the spirits with a word and healed all the sick. <sup>2</sup>This was to fulfill what was spoken through the prophet Isaiah:

"He took up our infirmities and carried our diseases."<sup>3</sup>

#### The Cost of Following Jesus

When Jesus saw the crowd around him, he gave orders to cross to the other side of the lake. <sup>1</sup>"Then a teacher of the law came to him and said, 'Teacher, I will follow you wherever you go.'

"Jesus replied, 'Foxes have holes and birds of the air have nests, but the Son of Man has no place to lay his head.'

"Another disciple said to him, 'Lord, first let me go and bury my father.'

<sup>1</sup>2 The Greek word was used for various diseases affecting the skin—not necessarily leprosy. <sup>3</sup>2 Greek made clean. <sup>1</sup>27 Isaiah 53:4. <sup>2</sup>20 Jesus summarizes Isaiah 53:4 and Isaiah 61:1.

"But Jesus told him, 'Follow me, and let the dead bury their own dead.'"

#### Jesus Calms the Storm

"Then he got into the boat and his disciples followed him. <sup>1</sup>"Without warning, a furious storm came up on the lake, so that the waves swept over the boat. But Jesus was sleeping. <sup>2</sup>"The disciples went and woke him, saying, 'Lord, save us! We're going to drown!'

"He replied, 'You of little faith, why are you so afraid?' Then he got up and rebuked the winds and the waves, and it was completely calm.

"The men were amazed and asked, 'What kind of man is this? Even the winds and the waves obey him!'

#### The Healing of Two Demon-possessed Men

When he arrived at the other side in the region of the Gadarenes,<sup>1</sup> two demon-possessed men coming from the tombs met him. They were so violent that no one could pass that way. <sup>2</sup>"What do you want with us, Son of God?" they shouted. "Have you come here to torture us before the appointed time?"

"Some distance from them a large herd of pigs was feeding." <sup>3</sup>The demons begged Jesus, "If you drive us out, send us into the herd of pigs."

"He said to them, 'Go!' So they came out and went into the pigs, and the whole herd rushed down the steep bank into the lake and died in the water. <sup>4</sup>Those tending the pigs ran off, went into the town and reported all this, including what had happened to the demon-possessed men. <sup>5</sup>Then the whole town went out to meet Jesus. And when they saw him, they pleaded with him to leave their region.

#### Jesus Heals a Paralytic

Jesus stepped into a boat, crossed over and came to his own town. <sup>1</sup>Some men brought to him a paralytic, lying on a mat. When Jesus saw their faith, he said to the paralytic, 'Take your mat, roll up and get up.'

On this, some of the teachers of the law said to themselves, "This fellow is blaspheming!"

"Knowing their thoughts, Jesus said, 'Why do you entertain evil thoughts in your hearts? <sup>1</sup>Which is easier to say, 'Your sins are forgiven,' or to say, 'Get up and walk'? <sup>2</sup>But so that you may know that the Son of Man has authority on earth to forgive sins . . ." Then he said to the paralytic, 'Get up, take your mat and go home.' <sup>3</sup>And the man got up and went home. <sup>4</sup>When the crowd saw this, they were filled with awe, and they praised God, who had given such authority to men.

#### The Calling of Matthew

As Jesus went on from there, he saw a man named Matthew sitting at the tax collector's booth. <sup>1</sup>"Follow me," he told him, and Matthew got up and followed him.

While Jesus was having dinner at Matthew's house, many tax collectors and "sinners"<sup>2</sup> came and ate with him and his disciples. <sup>3</sup>"When the Pharisees saw this, they asked his disciples, 'Why does your teacher eat with tax collectors and sinners?'

"On hearing this, Jesus said, 'It is not the healthy who need a doctor, but the sick. <sup>4</sup>"But go and learn what this means: 'I desire mercy, not sacrifice.' <sup>5</sup>For I have not come to call the righteous, but sinners."

#### Jesus Questioned About Eating

"Then John's disciples came and asked him, 'How is it that we and the Pharisees fast, but your disciples do not fast?'

"Jesus answered, 'How can the guests of the bridegroom mourn while he is with them? The time will

come when the bridegroom will be taken from them; then they will fast.'

"No one sews a patch of unshrunk cloth on an old garment, for the patch will pull away from the garment, making the tear worse. <sup>2</sup>Neither do men pour new wine into old wineskins. If they do, the skins will burst; the wine will run out and the wineskins will be ruined. No, they pour new wine into new wineskins, and both are preserved."

#### A Dead Girl and a Sick Woman

While he was saying this, a ruler came and knelt before him and said, 'My daughter has just died. But come and put your hand on her, and she will live.' <sup>1</sup>"Jesus got up and went with him, and so did his disciples.

Just then a woman who had been subject to bleeding for twelve years came up behind him and touched the edge of his cloak. <sup>2</sup>She said to herself, 'If I only touch his cloak, I will be healed.'

"Jesus turned and saw her. 'Take heart, daughter,' he said, 'your faith has healed you.' And the woman was healed from that moment.

When Jesus entered the ruler's house and saw the flute players and the noisy crowd, <sup>3</sup>he said, 'Go away. The girl is not dead but asleep.' But they laughed at him. <sup>4</sup>After the crowd had been put outside, he went in and took the girl by the hand, and she got up. <sup>5</sup>News of this spread through all that region.

#### Jesus Heals the Blind and Mute

As Jesus went on from there, two blind men followed him, calling out, 'Have mercy on us, Son of David!'

"When he had gone indoors, the blind men came to him, and he asked them, 'Do you believe that I am able to do this?'

"Yes, Lord," they replied.

"Then he touched their eyes and said, 'According to your faith will it be done to you.' And their sight was restored. Jesus warned them solemnly, 'See that no one knows about this.' <sup>2</sup>But they went out and spread the news about him all over that region.

While they were going out, a man who was demon-possessed and could not talk was brought to Jesus. <sup>3</sup>And when the demon was driven out, the man who had been mute spoke. The crowd was amazed and said, 'Nothing like this has ever been seen in Israel.'

"But the Pharisees said, 'It is by the prince of demons that he drives out demons.'

#### The Workers Are Few

Jesus went through all the towns and villages, teaching in their synagogues, preaching the good news of the kingdom and healing every disease and sickness. <sup>1</sup>Where he saw the crowds, he had compassion on them, because they were harassed and helpless, like sheep without a shepherd. <sup>2</sup>Then he said to his disciples, 'The harvest is plentiful but the workers are few. <sup>3</sup>Ask the Lord of the harvest, therefore, to send out workers into his harvest field.'

#### Jesus Sends Out the Twelve

**10** He called his twelve disciples to him and gave them authority to drive out evil spirits and to heal every disease and sickness.

"These are the names of the twelve apostles: first, Simon (who is called Peter) and his brother Andrew; James son of Zebedee, and his brother John; Philip and Bartholomew; Thomas and Matthew the tax collector; James son of Alphaeus, and Thaddaeus; Simon the Zealot and Judas Iscariot, who betrayed him.

"These twelve Jesus sent out with the following in-

structions: 'Do not go among the Gentiles or enter any town of the Samaritans. Go rather to the lost sheep of Israel.' <sup>2</sup>'As you go, preach this message: 'The kingdom of heaven is near.' <sup>3</sup>'Heal the sick, raise the dead, cleanse those who have leprosy, <sup>4</sup>drive out demons. Freely you have received; freely give.' <sup>5</sup>'Do not take along any gold or silver or copper in your belts; <sup>6</sup>take no bag for the journey, no extra tunic, or sandals or a staff; for the worker is worth his keep.

"Whenever you enter a village or town, search for some worthy person there and stay at his house until you leave. <sup>7</sup>'As you enter the house, give it your greeting. <sup>8</sup>'If the house is deserving, let your peace rest on it; if it is not, let your peace return to you. <sup>9</sup>'If anyone will not welcome you or listen to your words, shake the dust off your foot when you leave that house or town. <sup>10</sup>I tell you the truth, it will be more bearable for Sodom and Gomorrah on the day of judgment than for that town. <sup>11</sup>I am sending you out like sheep among wolves. Therefore be as shrewd as snakes and as innocent as doves.

"Be on your guard against men; they will hand you over to the local councils and flog you in their synagogues. <sup>12</sup>On my account you will be brought before governors and kings as witnesses to them and to the Gentiles. <sup>13</sup>But when they arrest you, do not worry about what to say or how to say it. In that time you will be given what to say, for it will not be you speaking, but the Spirit of your Father speaking through you.

"Brother will betray brother to death, and a father his child; children will rebel against their parents and have them put to death. <sup>14</sup>All men will hate you because of me, but he who stands firm to the end will be saved. <sup>15</sup>When you are persecuted in one place, flee to another. I tell you the truth, you will not finish going through the cities of Israel before the Son of Man comes.

"A student is not above his teacher, nor a servant above his master. <sup>16</sup>It is enough for the student to be like his teacher, and the servant like his master. If the head of the house has been called Beelzebul, <sup>17</sup>how much more the members of his household!

"So do not be afraid of them. There is nothing concealed that will not be disclosed, or hidden that will not be made known. <sup>18</sup>What I tell you in the dark, speak in the daylight; what is whispered in your ear, proclaim from the roofs. <sup>19</sup>Do not be afraid of those who kill the body but cannot kill the soul. Rather, be afraid of the One who can destroy both soul and body in hell. <sup>20</sup>Yes, not two sparrows sold for a penny? <sup>21</sup>Yet not one of them will fall to the ground apart from the will of your Father. <sup>22</sup>And even the very hairs of your head are all numbered. <sup>23</sup>Who dares be afraid, you are worth more than many sparrows.

"Whoever acknowledges me before men, I will also acknowledge him before my Father in heaven. <sup>24</sup>But whoever disowns me before men, I will disown him before my Father in heaven.

"Do not suppose that I have come to bring peace to the earth. I did not come to bring peace, but a sword. <sup>25</sup>For I have come to bring:

"a man against his father, a daughter against her mother, a daughter-in-law against her mother-in-law—<sup>26</sup>or a man's enemies will be the members of his own household."

"Anyone who loves his father or mother more than me is not worthy of me; anyone who loves his son or daughter more than me is not worthy of me. <sup>27</sup>And anyone who does not take his cross and follow me is not

<sup>1</sup>10 Greek twelve. <sup>2</sup>10 The Greek word was used for various diseases affecting the skin—not necessarily leprosy. <sup>3</sup>10 Greek Beelzebul or Beelzebub. <sup>4</sup>10 Greek an apostle. <sup>5</sup>20 Mark 16.

who built his house on the rock. <sup>19</sup>The rain came down, the rivers rose, and the winds blew and beat against that house; yet it did not fall, because it had its foundation on the rock. <sup>20</sup>But everyone who hears these words of mine and does not put them into practice is like a foolish man who built his house on sand. <sup>21</sup>The rain came down, the rivers rose, and the winds blew and beat against that house, and it fell with a great crash."

"Follow me, and let the dead bury their own dead."

"You of little faith, why are you so afraid?"

"I am willing," "Be clean!" "See that you don't tell anyone. But go, show yourself to the priest and offer the gift Moses commanded, as a testimony to them."

"I will go and heal him."

"I tell you the truth, I have not found anyone in Israel with such great faith. <sup>11</sup>I say to you that many will come from the east and the west, and will take their places at the feast with Abraham, Isaac and Jacob in the kingdom of heaven. <sup>12</sup>But the subjects of the kingdom will be thrown outside, into the darkness, where there will be weeping and gnashing of teeth."

"Get! It will be done just as you believed it would."

"Take heart, son; your sins are forgiven."

"Why do you entertain evil thoughts in your hearts? <sup>1</sup>Which is easier to say, 'Your sins are forgiven,' or to say, 'Get up and walk'? <sup>2</sup>But so that you may know that the Son of Man has authority on earth to forgive sins..."

"Get up, take your mat and go home."

"Follow me."

"It is not the healthy who need a doctor, but the sick. <sup>1</sup>But go and learn what this means: 'I desire mercy, not sacrifice.' <sup>2</sup>For I have not come to call the righteous, but sinners."

"Heaven has holes and birds of the air have nests, but the Son of Man has no place to lay his head."

"How can the guests of the bridegroom mourn while he is with them? The time will

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"Take heart, daughter; your faith has healed you."

"The girl is not dead but asleep."

"Do you believe that I am able to do this?"

"According to your faith will it be done to you"; "See that no one knows about this."

"The harvest is plentiful but the workers are few. <sup>1</sup>Ask the Lord of the Harvest, therefore, to send out workers into his harvest field."

"Do not go among the Gentiles or enter any town of the Samaritans. <sup>1</sup>Go rather to the lost sheep of Israel. <sup>2</sup>As you go, preach this message: 'The kingdom of heaven is near.' <sup>3</sup>Heal the sick, raise the dead, cleanse those who have leprosy, <sup>4</sup>drive out demons. Truly you have received: freely give. <sup>5</sup>Do not take along any gold or silver or copper in your belts; <sup>6</sup>take no bag for the journey, no extra tunic, or sandals or a staff; for the worker is worth his keep."

"Whoever meets us, welcome him; whoever meets you, welcome him; and whoever meets you, welcome him. <sup>1</sup>Do not go into any town or village you enter, search for some worthy person there and stay at his house until you leave. <sup>2</sup>As you enter the house, give it your greeting. <sup>3</sup>If the house is deserving, let your peace rest on it; if it is not, let your peace return to you. <sup>4</sup>If anyone will not welcome you or listen to your words, shake the dust off your foot when you leave that house or town. <sup>5</sup>I tell you the truth, it will be more bearable for Sodom and Gomorrah on the day of judgment than for that town. <sup>6</sup>I am sending you out like sheep among wolves. Therefore be as shrewd as snakes and as innocent as doves."

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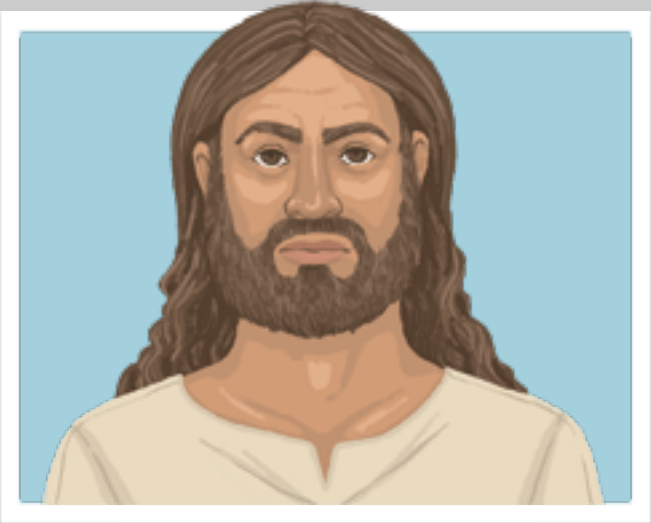
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Maya Angelou



Jane Austen



Beethoven



Justin Bieber



Bush



Jesus



Kurt Cobain



Stephen Colbert



Bill Gates



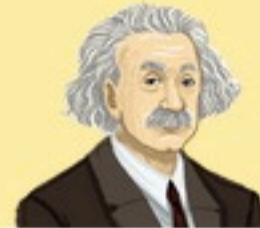
Darwin



Rihanna



Einstein



Freud



Jane Goodall



Paul Graham



Stephen Hawking



Paris Hilton



L. Ron Hubbard



Kim Jong-Il



Steve Jobs



Nietzsche



Obama



the Pope



Helen Keller



Lil Wayne



Chairman Mao



Sarah Palin



Dr. Phil



Mitt Romney



Dr. Seuss



Edgar Allan Poe



Condoleezza



Shakespeare

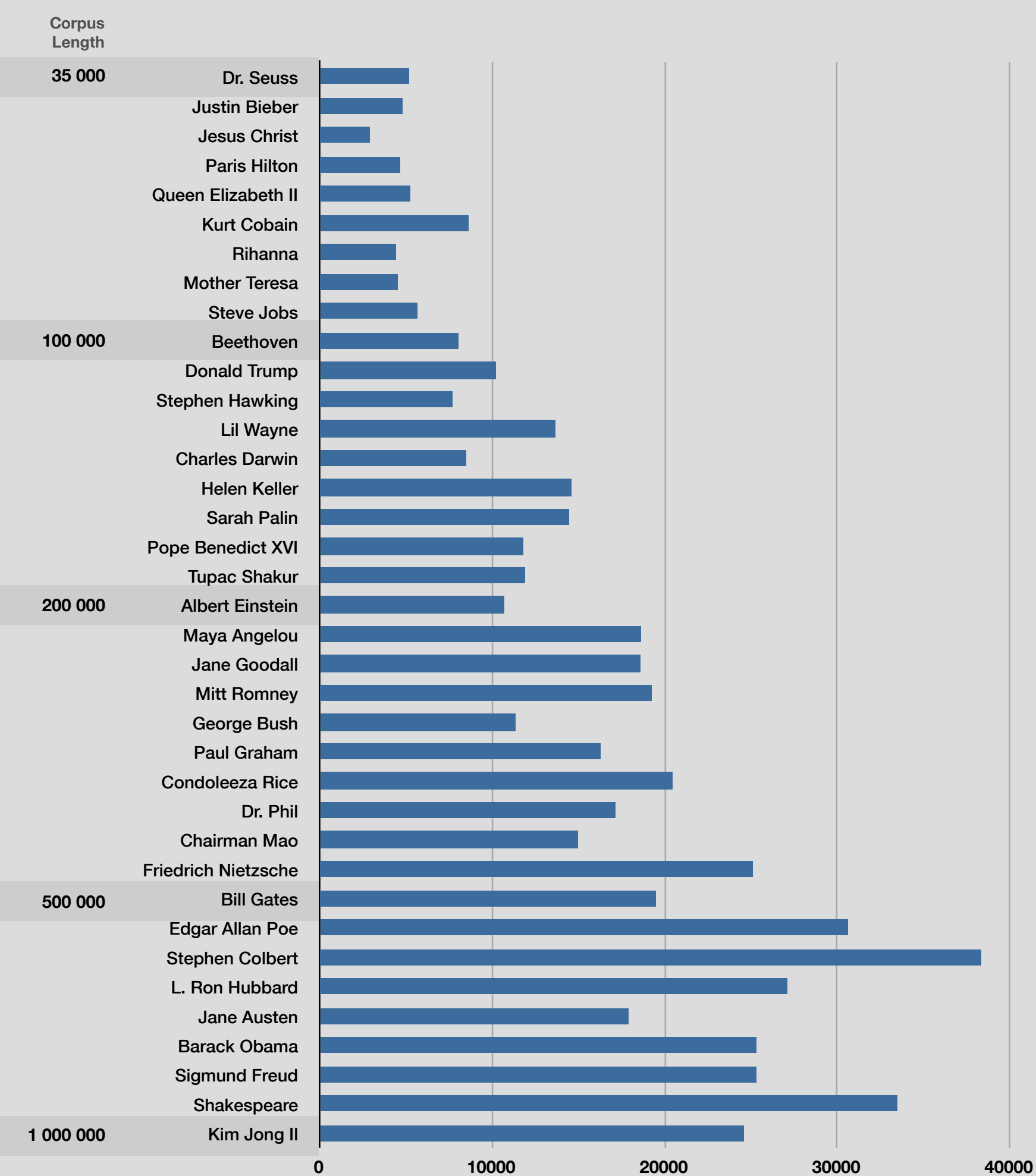


Tupac



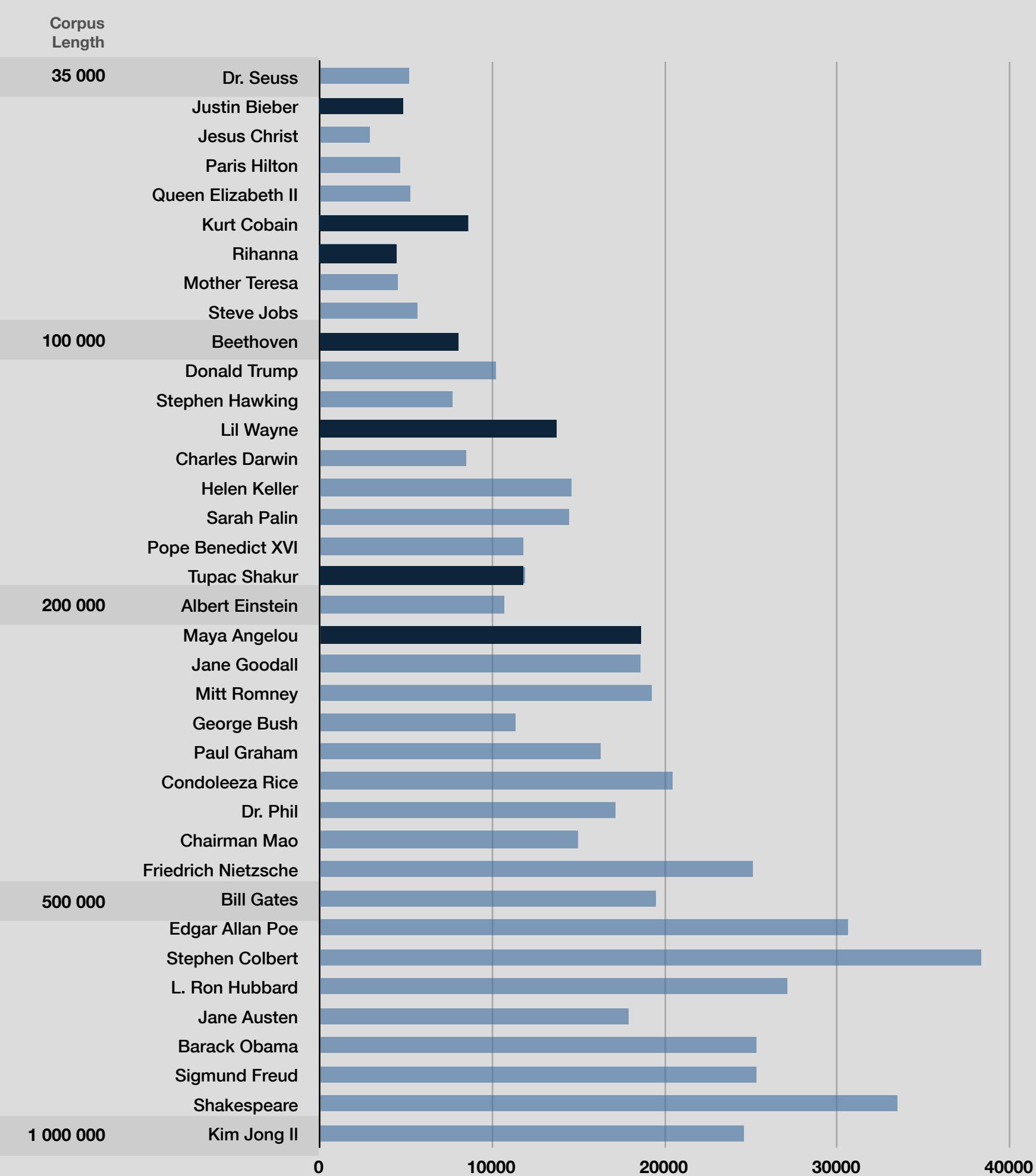
Mother Theresa



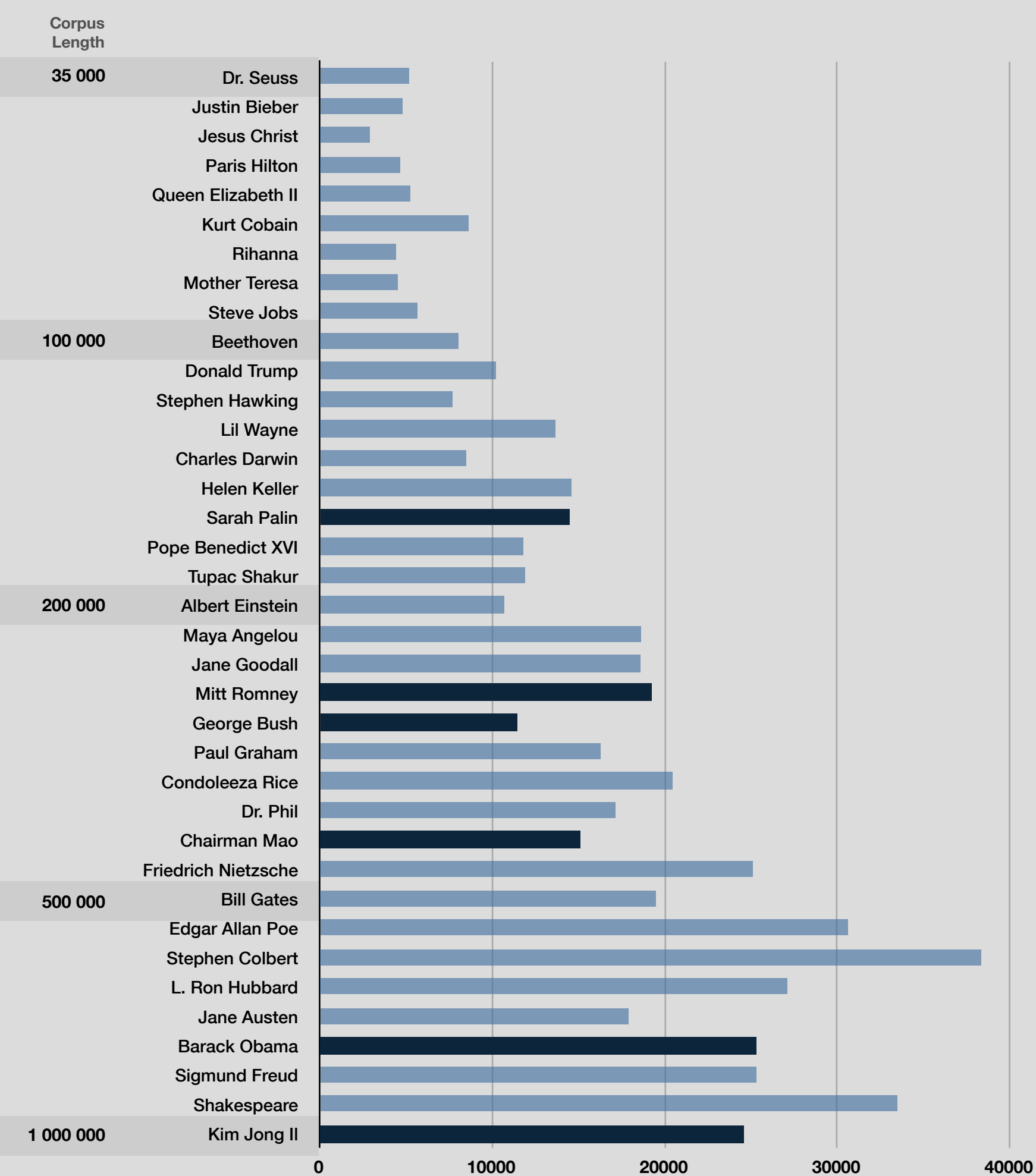


# Vocabulary size

Authors are listed in order of corpus length



# Musicians



Politicians



Find by name...

iraq

categories...

Bush



Obama



Condoleezza



Stephen Colbert



Mitt Romney



Sarah Palin



Donald Trump



Lil Wayne



Bill Gates



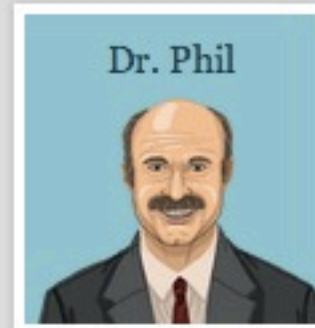
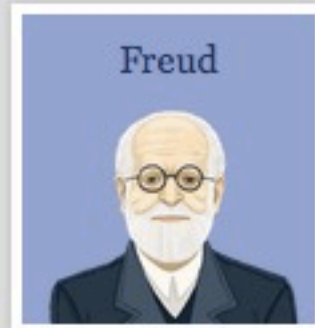
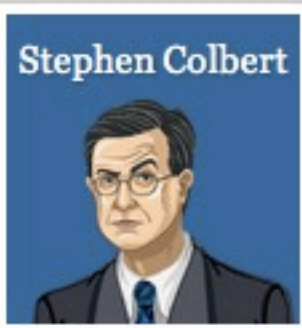
the Queen



Find by name...

sex

categories...





Find by name...

drugs

categories...

Bush



Dr. Phil



Obama



Stephen Colbert



Bill Gates



L. Ron Hubbard



Tupac



Paul Graham



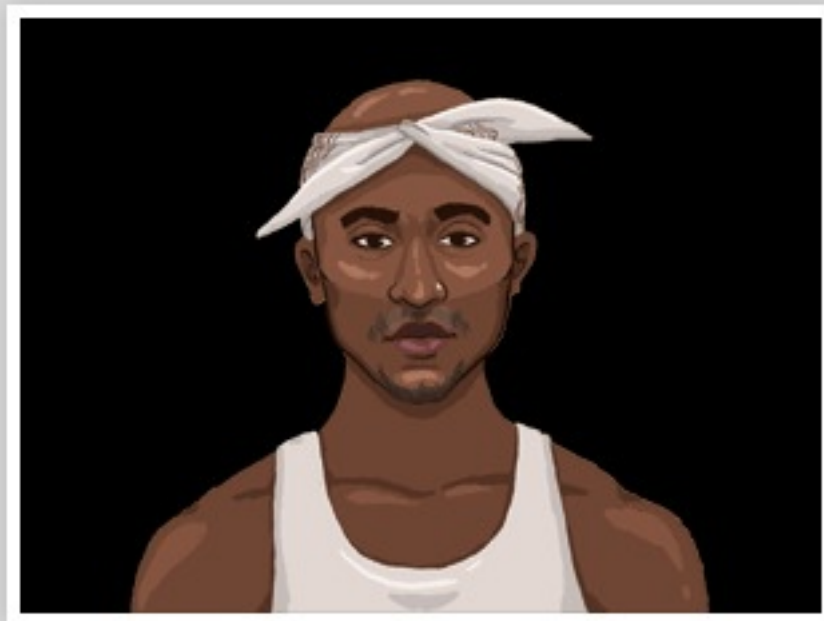
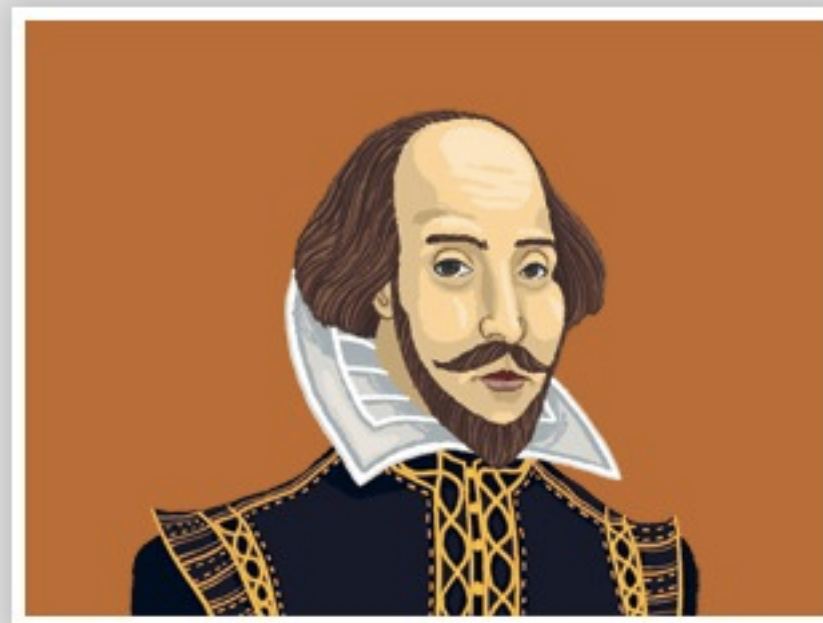
Kurt Cobain

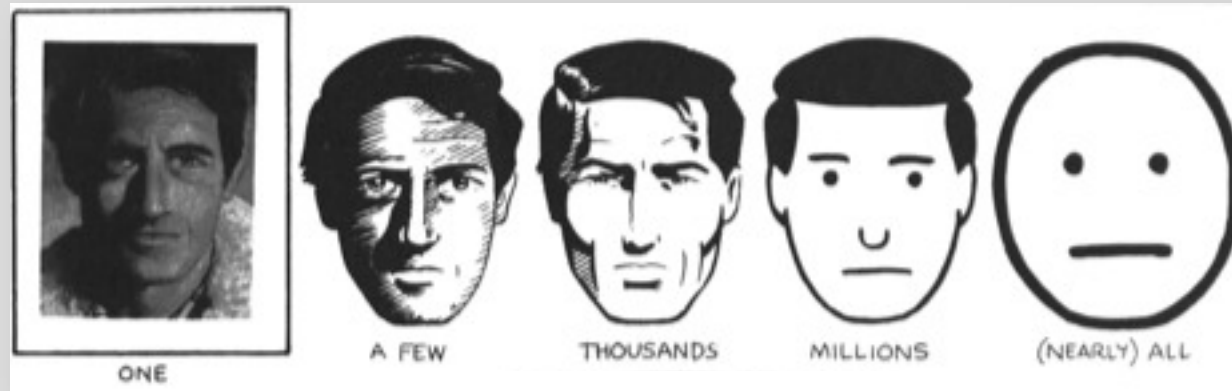


Shakespeare

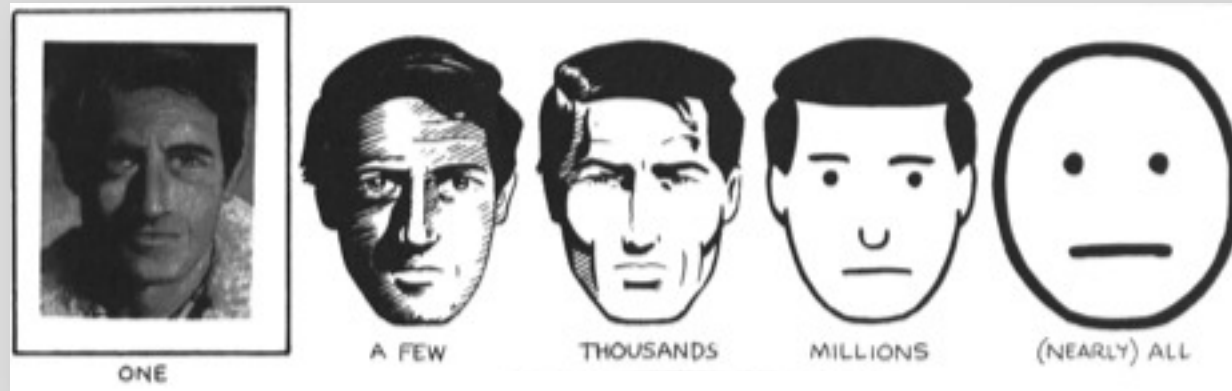


**portraits**

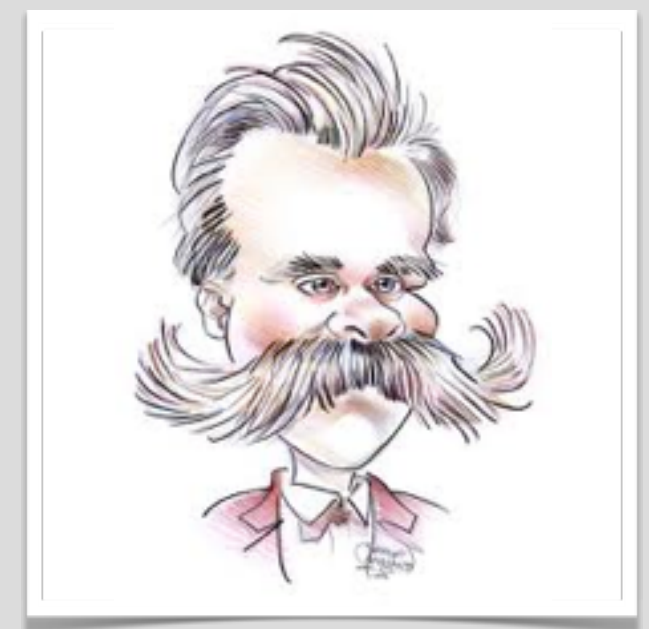
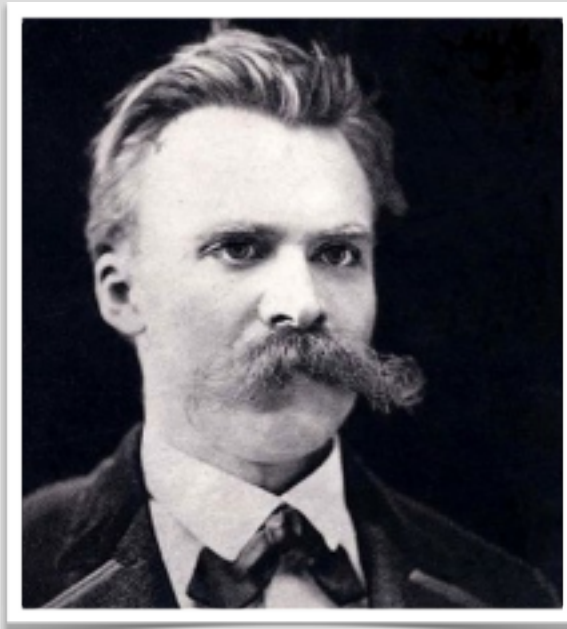




Scott McLeod



Scott McLeod



Devoir-de-Philosophie.com

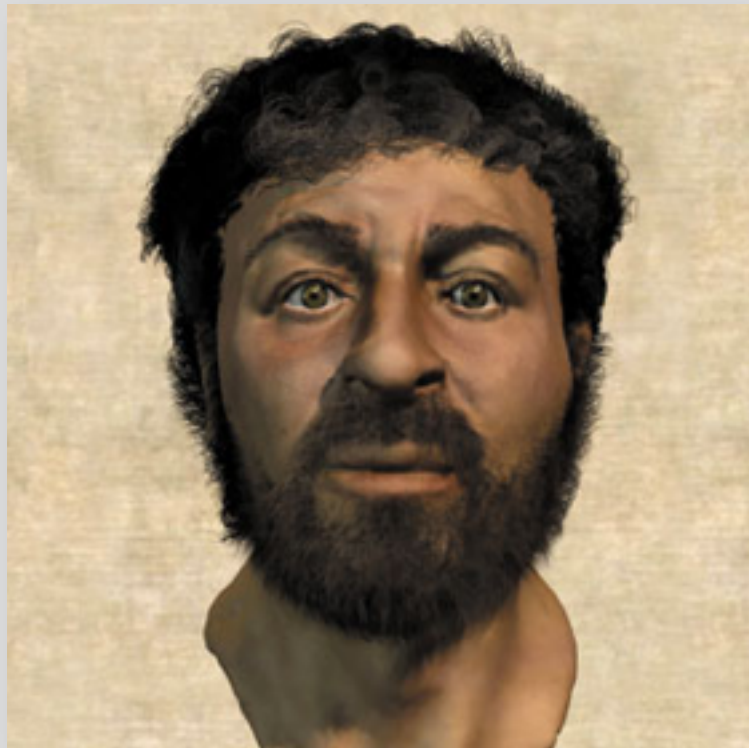


Copyright 2010 Creators Syndicate





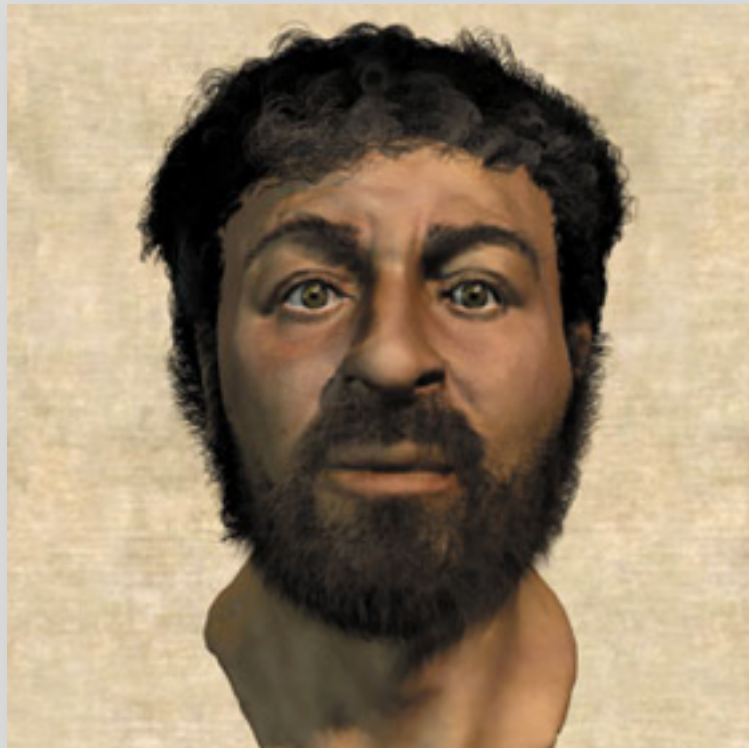
Keith Kasnot / National Geographic Image Collection [left]  
The Unit of Art in Medicine/The University of Manchester [right]



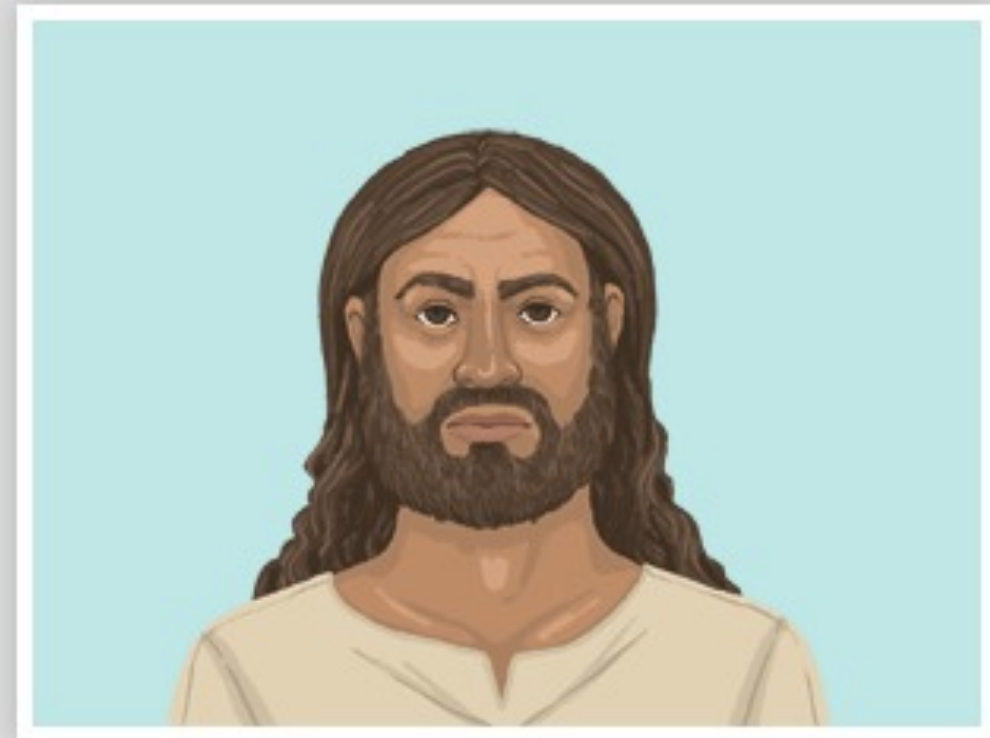
BBC Photo Library



Keith Kasnot / National Geographic Image Collection [left]  
The Unit of Art in Medicine/The University of Manchester [right]



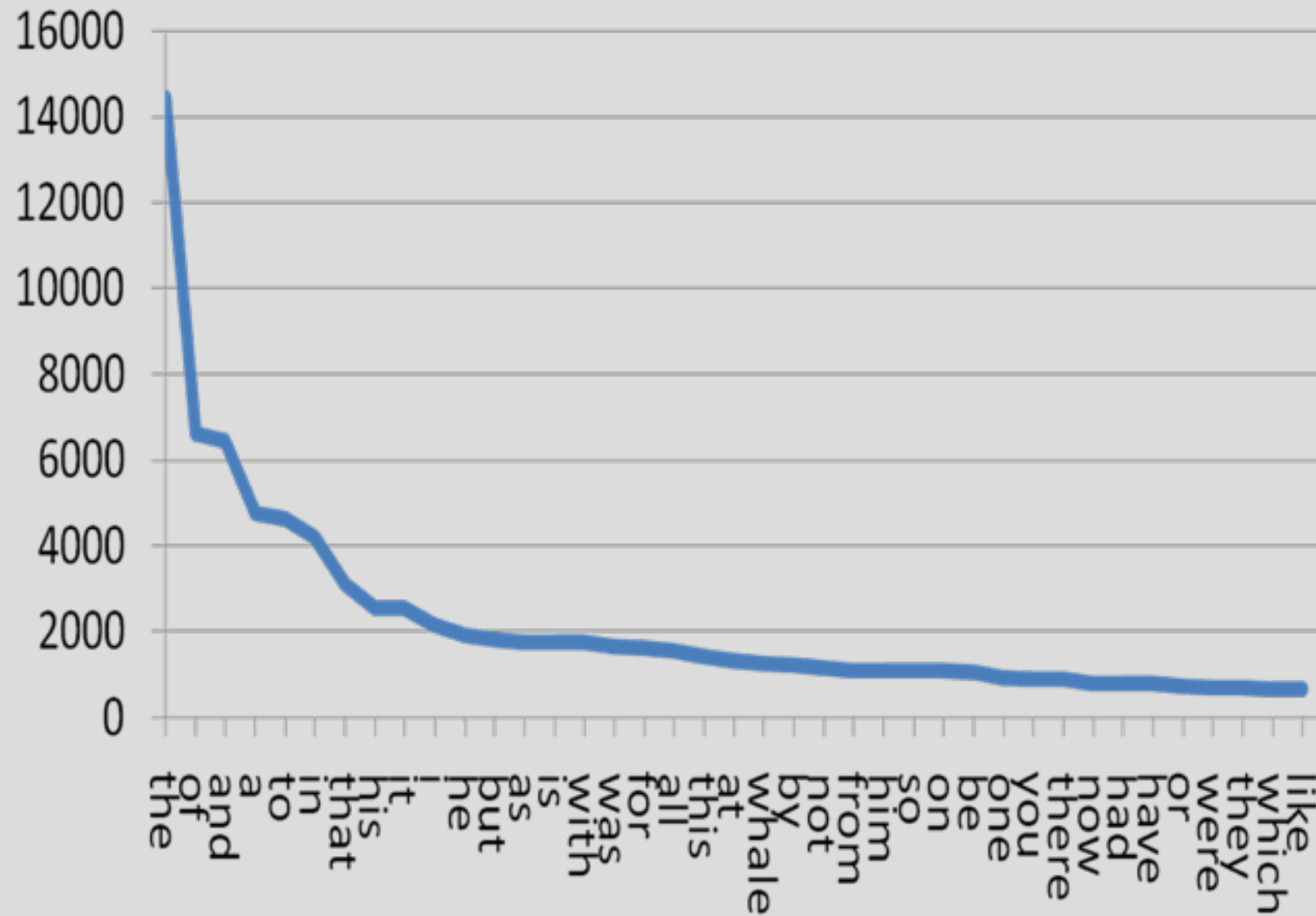
BBC Photo Library



**suggestion algorithm**

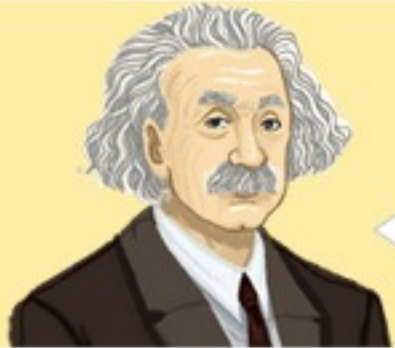


# Zipf's Law



# Zipf's Law

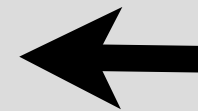
Einstein x



This friendship has \_

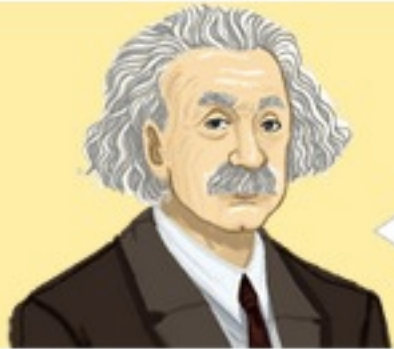
1. made
2. always
3. alone
4. retrogressed
5. caused
6. reproduced
7. awakened
8. shattered
9. dazzled

Shuffle



# Zipf's Law

Einstein x



This friendship has \_

1. made
2. always
3. alone
4. retrogressed
5. caused
6. reproduced
7. awakened
8. shattered
9. dazzled

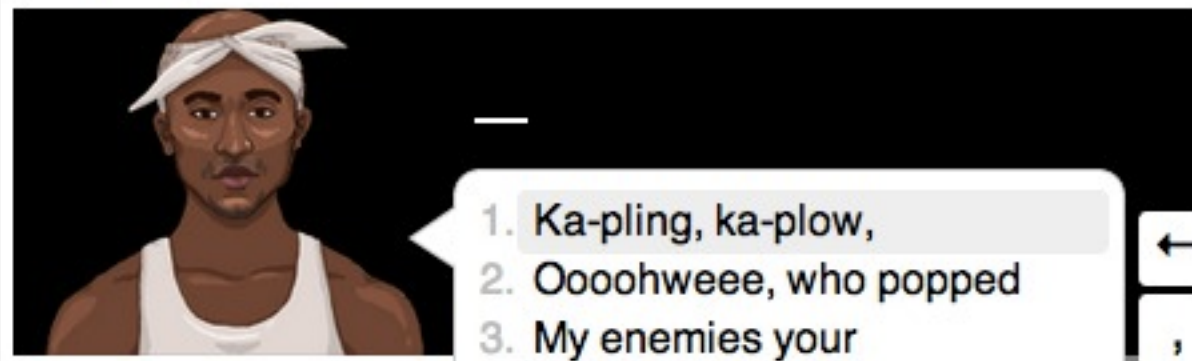
Shuffle

High Frequency  
“glue” words

Low Frequency  
unexpected, random



Tupac x



1. Ka-pling, ka-plow,
2. Oooohweee, who popped
3. My enemies your
4. He'd love
5. As they
6. They talkin
7. With love
8. Buck buck buck
9. So when you

Shuffle



,

.

!

?

**speed**

# Speed of Word Lookup



10 seconds

# Speed of Word Lookup



10 seconds

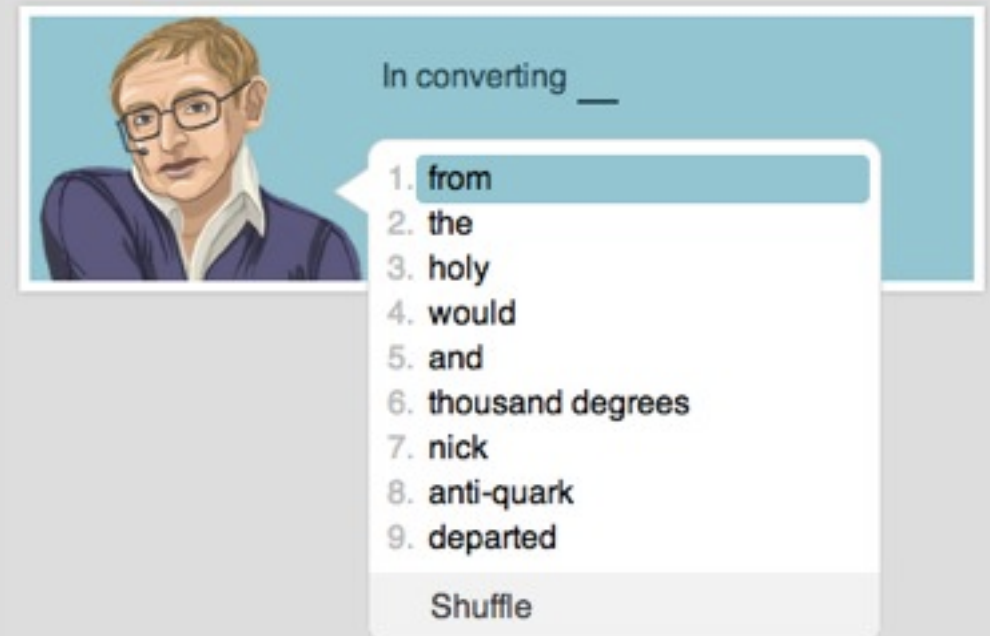
**read;**  
**synthesize;**  
**produce**

# Speed of Word Lookup



10 seconds

**read;  
synthesize;  
produce**



100 milliseconds

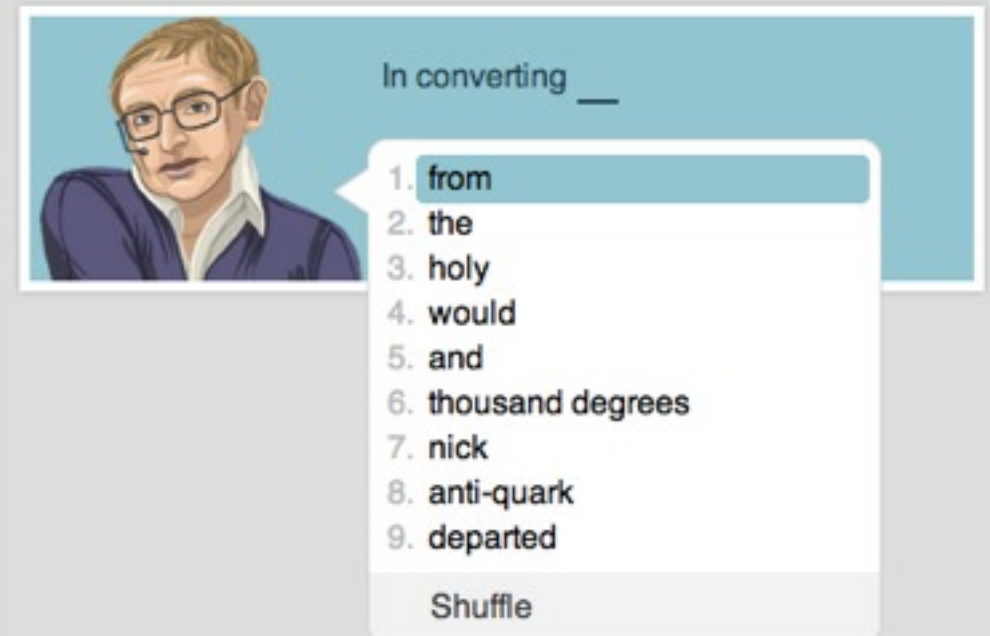


# Speed of Word Lookup



10 seconds

**read;  
synthesize;  
produce**

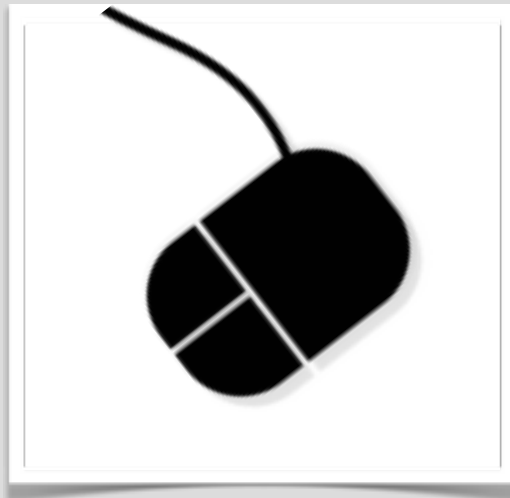


100 milliseconds

**real-time  
interaction**

# Shared Authorship

user



algorithm



source author

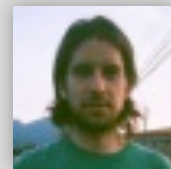


**Anonymity**



**yellow\_frog\_1982**

**Real Identity**



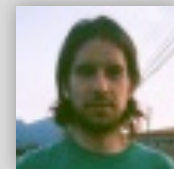
**Matthew Huebert**

**Anonymity**



**yellow\_frog\_1982**

**Real Identity**



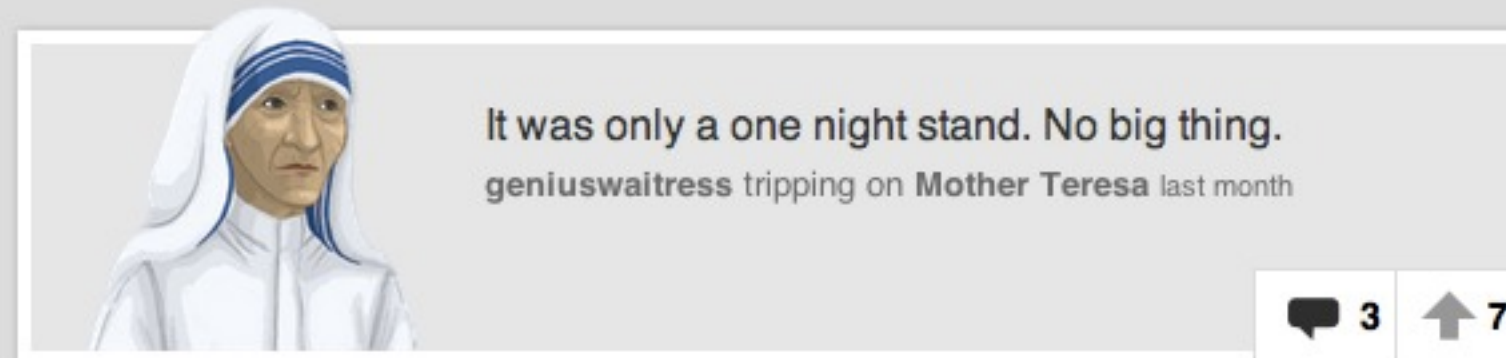
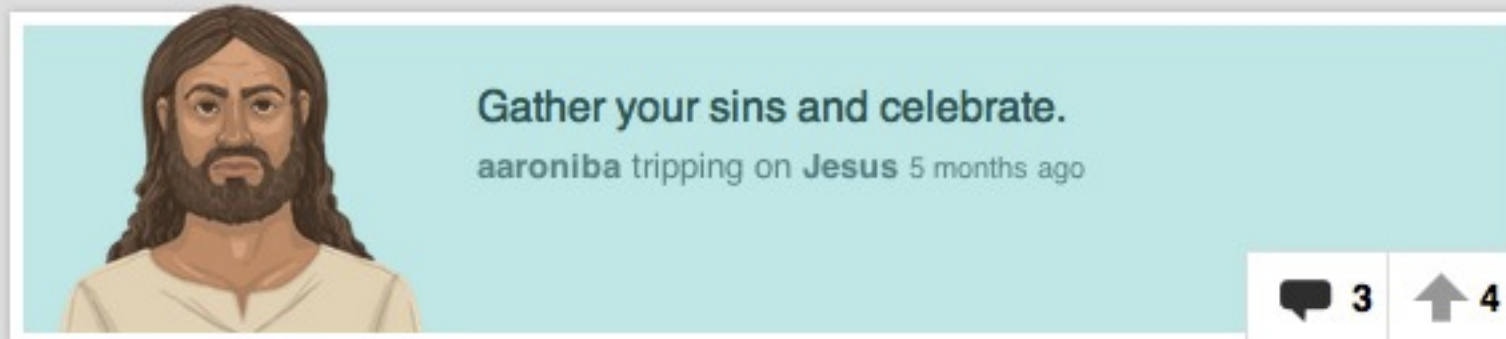
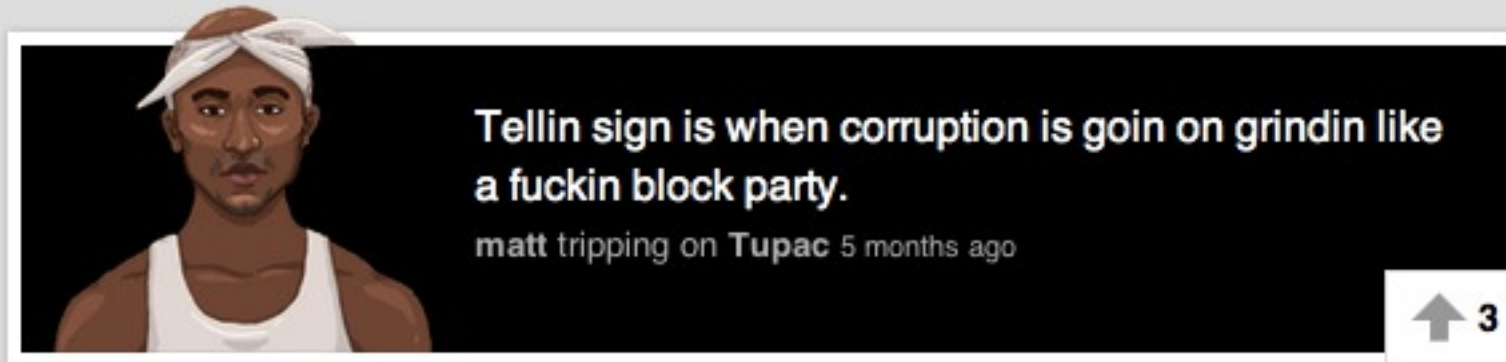
**Matthew Huebert**

**Mask**

**Matt tripping on Freud**



# Mask



**intuition for data**

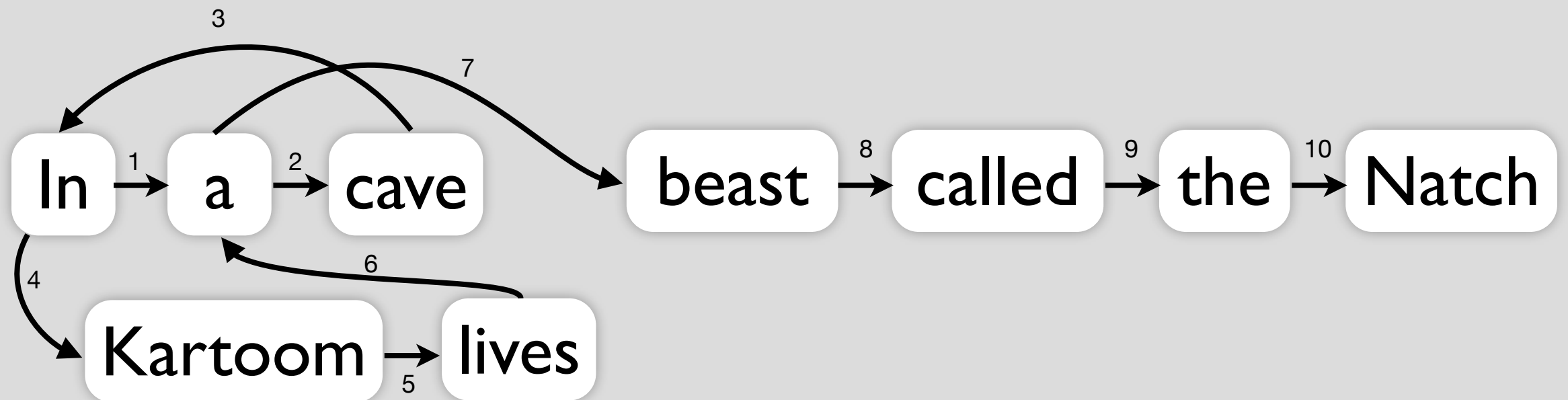
In a cave in Kartoom lives a beast called the Natch



In a cave in Kartoom lives a beast called the Natch

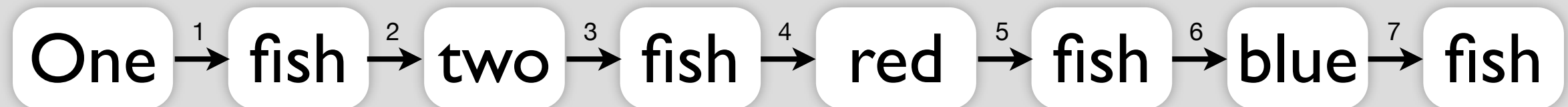


In a cave in Kartoom lives a beast called the Natch

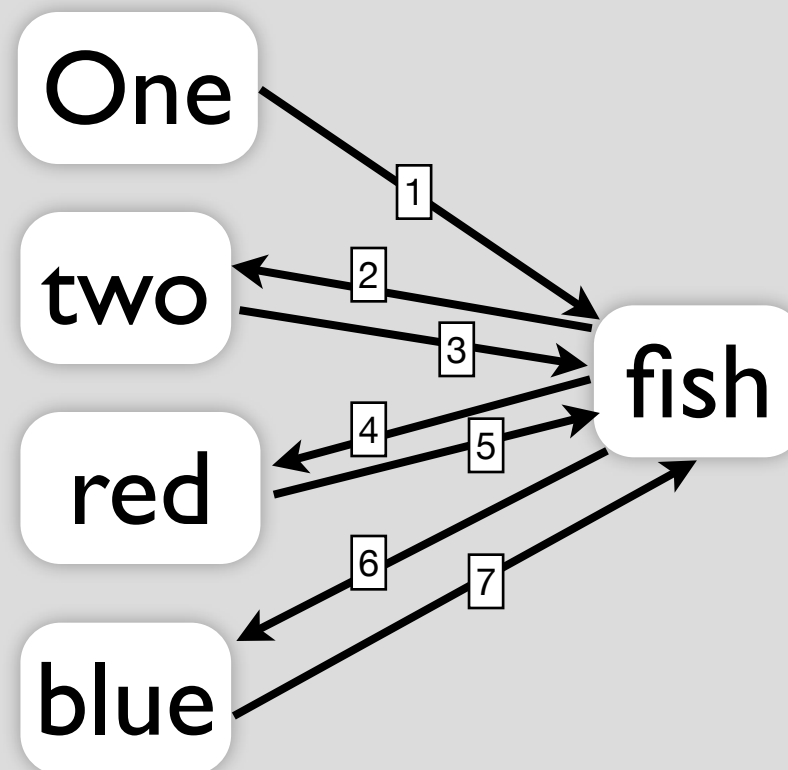
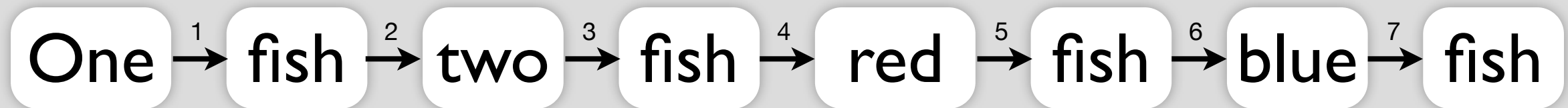


One fish, two fish, red fish, blue fish.

One fish, two fish, red fish, blue fish.



One fish, two fish, red fish, blue fish.



Nietzsche x



Buddhism is an incomprehensible atrocity for  
capitalism

freestyle ⇅

No words!

Shuffle

←


,

.

!


?


Save

A stylized illustration of William Shakespeare, showing his face with a mustache and a white ruff collar, wearing a dark blue garment with gold embroidery.

Bring'st all of thine cat paintings! I shall publish them  
post-haste to the inter nets!

comatosekid tripping on Shakespeare last month

4

20



# Implementation

speed (developer, response time)  
simplicity

Heroku (managed servers, simple to scale)  
Node.js (same language on client and server)  
In-memory language models

**human process**

# Hacking BrainTripping

Node.js hackathon in Montréal



Hisako, Gina Cook, Brian Doherty, Mary Ellen Cathcart, Jon Volkmar, Martin Provencher, Jeff Marshall

# Experiment Quickly

**PITCH**

**HACK**

**PRESENT**

# Thanks!



**BrainTripping.com**  
**Matthew Huebert**  
**me@matt.is**  
**@geoshift**

# Future

- Structured creative writing:  
“constrain and suggest”
- Foreign language “training wheels”