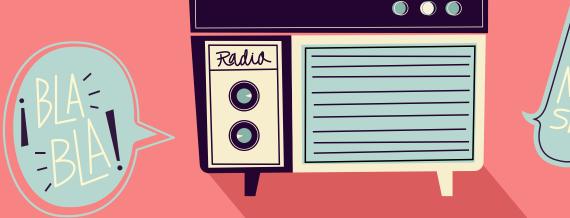
Deep jazz?

## MUSICGENERATION







INTRODUCTION

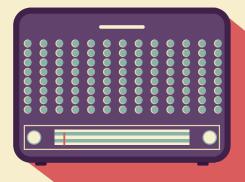
TRAINING

MODELING & METHOD

CONCLUSION & FUTURE IMPROVEMENTS

01

04



## INTRODUCTION

#### INTRODUCTION

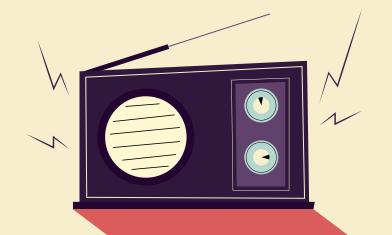
- Human creativity VS AI creativity
- Scraped over 100 MIDI files Frompartnersinrhyme.com
- MIDI sequence of notes, instruments, track structure, tempo, time signature
- Take 5 by Dave Brubeck Quartet
- Using LSTM RNN to generate new music





02

### MODELING & METHOD



### MODELING & METHOD

#### music21

- Python toolkit designed for music analysis, teaching, and generation
- Used to extract data from MIDI files

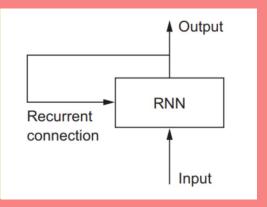


- Neural network API that runs on top of TensorFlow
- Allows for quick experimentation with deep neural networks

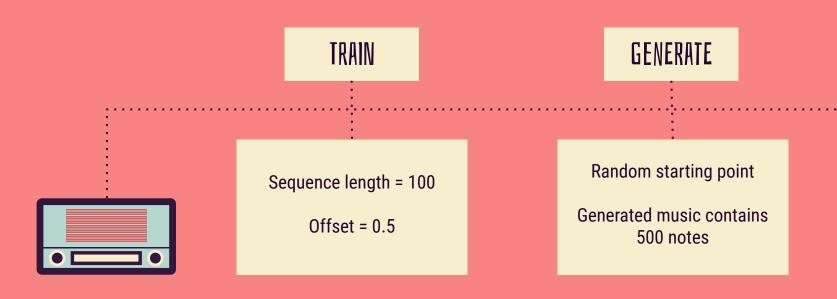
#### MODELING & METHOD



- Recurrent Neural Network (RNN)
  - Processes sequences
  - Output at each step is dependent on the previous step
- Long Short-Term Memory (LSTM)
  - Recognizes and encodes long-term patterns



### MODELING & METHOD





04

### RESULTS & CONCLUSION

### IMPLICATIONS OF AI IN MUSIC

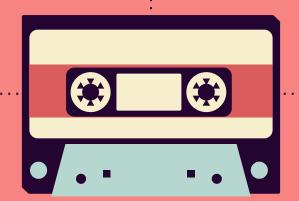
- Better music recommendations
- Google's Magenta project, Flow Machines
- Collaborative future betweens artists and Al



### IMPLICATIONS OF ALIN MUSIC

Google's Magenta and Sony's Flow Machines

More compelling content and collaborative future



Better music recommendations; replaces manual input



"When words fail. Music speaks."

HANS CHRISTIAN ANDERSEN

## THANK YOU!





## ANY QUESTIONS?

linanconviechen@gmail.com linkedin.com/in/linanc

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- future of music
  - Al in music
- other use cases

#### CONTENTS OF THIS TEMPLATE

#### Here's what you'll find in this **Slidesgo** template:

- 1. A slide structure based on a multi-purpose presentation template, which you can easily adapt to your needs. For more info on how to edit the template, please visit **Slidesgo School** or read our **FAQs**.
- 2. An assortment of illustrations that are suitable for use in the presentation can be found in the **alternative resources** slide.
- 3. A **thanks slide**, which you must keep so that proper credits for our design are given.
- 4. A **resources slide**, where you'll find links to all the elements used in the template.
- 5. **Instructions for use**.
- 6. Final slides with:
  - The **fonts and colors** used in the template.
  - More **infographic resources**, whose size and color can be edited.
  - Sets of **customizable icons** of the following themes: general, business, avatar, creative process, education, help & support, medical, nature, performing arts, SEO & marketing, and teamwork.

You can delete this slide when you're done editing the presentation.

"Thello why so slow?!."

-SOMEONE FAMOUS

### WHOA!

Here you could give a brief description of the topic you want to talk about. For example, if you want to talk about Mercury, you could say that it's the closest planet to the Sun and the smallest one in the Solar System

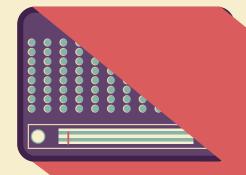


# THE SLIDE TITLE GOES HERE!

Do you know what helps you make your point clear? Lists like this:

- They're simple
- You can organize your ideas clearly
- You'll never forget to buy milk!

And the most important thing: the audience won't miss the point of your presentation



### NAME OF THE SECTION

You could enter a subtitle here if you need it

### MAYBE YOU NEED TO DIVIDE THE TEXT

### MERCURY

Mercury is the closest planet to the Sun and the smallest one in our Solar System—it's only a bit larger than our Moon

#### VENUS

Venus has a beautiful name and is the second planet from the Sun. It's terribly hot, even hotter than Mercury

### YOU COULD USE THREE COLUMNS, WHY NOT?

MARS

VENUS

JUPITER

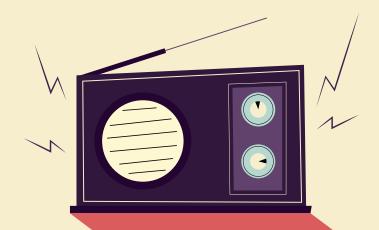
Despite being red, Mars is actually a cold place. It's full of iron oxide dust

Venus has a beautiful name and is the second planet from the Sun

Jupiter is a gas giant and the biggest planet in our Solar System 02

## NAME OF THE SECTION

You could enter a subtitle here if you need it





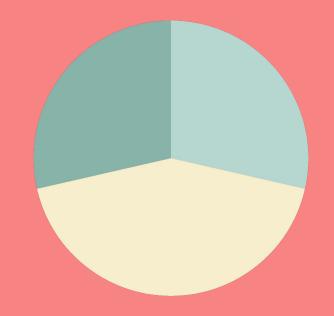
# A PICTURE IS WORTH A THOUSAND WORDS

### TO EDIT THE GRAPH, SELECT IT, CLICK THE LINK, CHANGE THE DATA & REPLACE IT



27%

46%

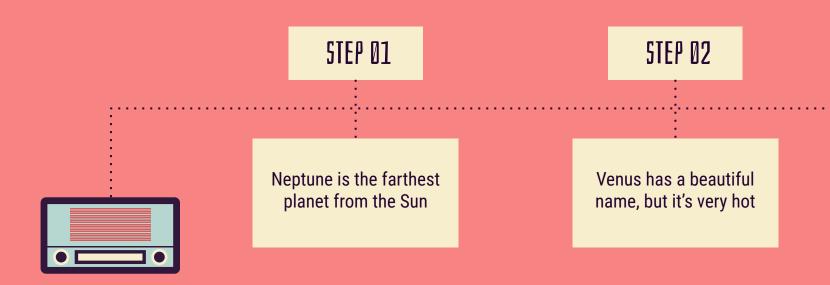


Despite being red, Mars is actually a cold place

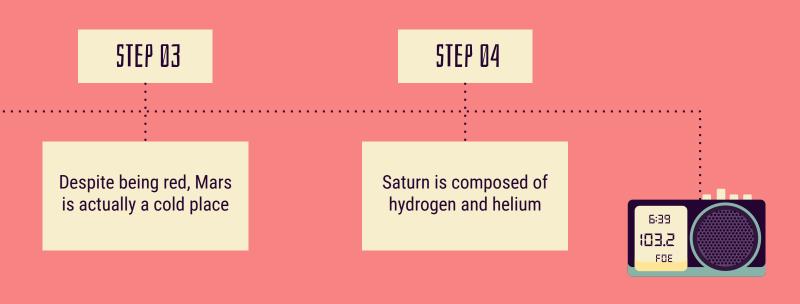
Venus is the second planet from the Sun

Mercury is the smallest planet in our Solar System

### A TIMELINE ALWAYS WORKS WELL



### A TIMELINE ALWAYS WORKS WELL



### AWESOME WORDS



### THIS IS A MAP



Venus has a beautiful name and is the second planet from the Sun

### ... AND THE SAME GOES FOR TABLES

	01	02	03
CERES	Saturn is a gas giant,	Neptune is the fourth-largest	Venus has a beautiful name
	composed mostly of hydrogen	planet by diameter in our Solar	and is the second planet from
	and helium	System	the Sun
PLUTO	Despite being red, Mars is	Jupiter is a gas giant and the	Mercury is the closest planet to
	actually a cold place full of iron	biggest planet in our Solar	the Sun and the smallest one in
	oxide dust	System	our Solar System

### NUMBERS

3,000

Despite being red, Mars is actually a cold place



45,000

Mercury is the smallest planet of them all



2,200

Neptune is the farthes planet from the Sun



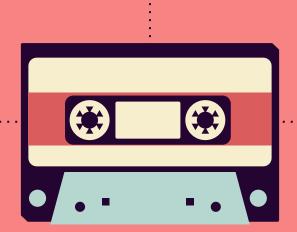
# 44,000 +

This is the amount of radio stations in the world

### DON'T FORGET WHAT'S IMPORTANT

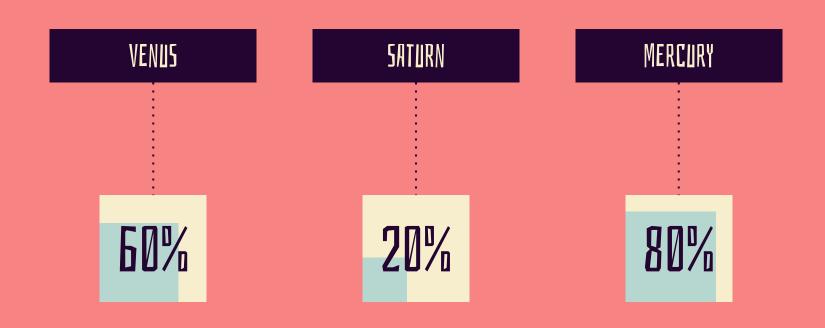
Mercury is the smallest planet

Despite being red, Mars is actually a cold place



Neptune is the farthest planet from the Sun

### DO YOU PREFER THESE PERCENTAGES?



## SOMETIMES, REVIEWING CONCEPTS IS A GOOD IDEA

01

02

03

Despite being red, Mars is actually a cold place

Mercury is the smallest planet in our Solar System

Saturn is composed mostly of hydrogen and helium

04

05

06

Venus is the second planet from the Sun

Neptune is the farthest planet from the Sun

Jupiter is the biggest planet in our Solar System

## OUR SERVICES

\$35 \$50 You can explain your You can explain your You can explain your product or your service product or your service product or your service Characteristic Characteristic Characteristic Characteristic Characteristic Characteristic BASIC PREMIUM PRO

# TABLET App

You can replace the image on the screen with your own work. Just delete this one, add yours and send it to the back





# DESKTOP Software

You can replace the image on the screen with your own work. Just delete this one, add yours and send it to the back

# MOBILE WEB

You can replace the image on the screen with your own work. Just delete this one, add yours and send it to the back



## FUN FACTS

- Enter here a fun fact about the topic
- Enter here a fun fact about the topic
- Enter here a fun fact about the topic
- Enter here a fun fact about the topic
- Enter here a fun fact about the topic
- Enter here a fun fact about the topic
- Enter here a fun fact about the topic



### OUR TEAM

### JAMES YELLOW

Here you could give a brief description about this person

## LAURA ROE

Here you could give a brief description about this person

### STEVE PATTERSON

Here you could give a brief description about this person

## TOM ALVAREZ

Here you could give a brief description about this person



# THANKS!



Do you have any questions?

youremail@freepik.com +91 620 421 838 yourcompany.com

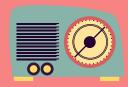


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# ALTERNATIVE RESOURCES





















#### RESOURCES

#### **VECTOR**

- Young people dancing. character design
- World radio day in vintage style background
- Vintage radio set vectors
- Retro radio sets
- Geometric radio background
- Radio world day background in flat design
- Eighties technological objects set
- Flat retro microphone background

#### **PHOTO**

- Stack up cassettes in light with shadows
- Old tape on green background with copy-space

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#### Bahiana

(https://fonts.google.com/specimen/Bahiana)

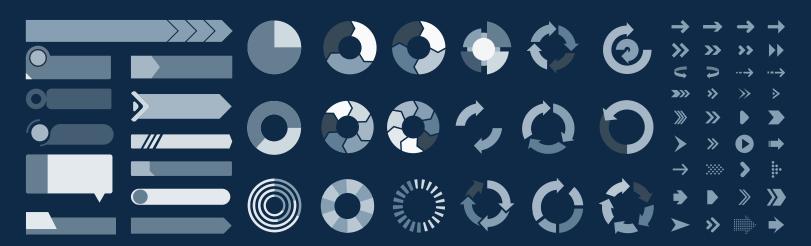
#### **Roboto Condensed**

(https://fonts.google.com/specimen/Roboto+Condensed)

#f78383 #da5c5d #240430 #88b3a9 #f7eece

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#### **Medical Icons**



#### **Business Icons**



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#### Avatar Icons



#### **Creative Process Icons**



#### Performing Arts Icons



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