Poems 2 songs
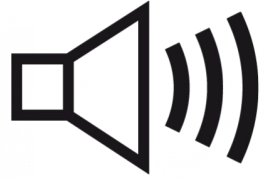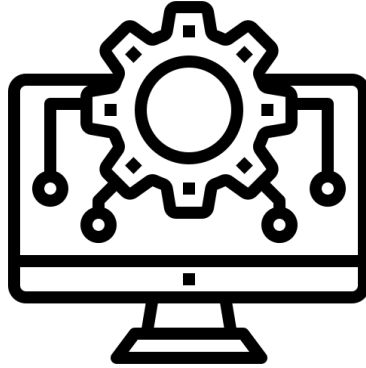
Alexis Briffod
Mohammed Ali Barka
Elie Givodan
Paul Montassier

Our project

Transfer Learning

content image | style image | generated image
louvre museum | impressionist style painting | louvre painting with impressionist style

Transfer Learning

style poem

content music

generated music

WANDERINGS

MITRAILLIATRICE

The mills of the gods grind slowly
But this mill
Chatters in mechanical staccato.
Ugly short infantry of the mind,
Advancing over difficult terrain,
Make this Corona
Their mitrailleuse.

OILY WEATHER

The sea desires deep hulls—
It swells and rolls.
The screw churns a throb—
Driving, throbbing, progressing.
The sea rolls with love,
Surging, caressing,
Undulating its great loving belly.
The sea is big and old—
Throbbing ships scorn it.

ROOSEVELT

Workingmen believed
He busted trusts,
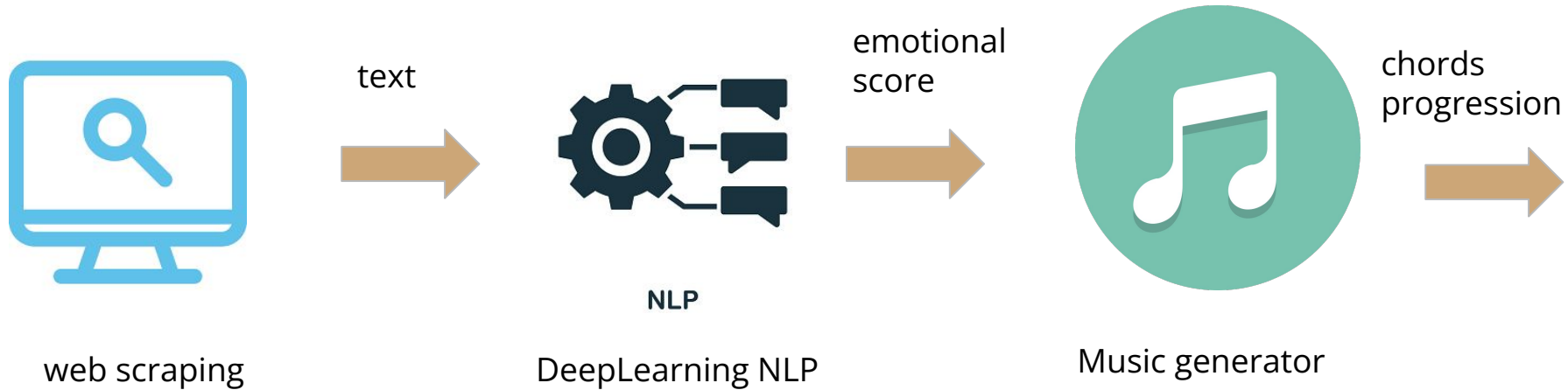And put his picture in their windows.

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River Flows In You

YIRUMA

Solution architecture

web scraping → text → DeepLearning NLP (NLP) → emotional score → Music generator → chords progression

Web Scraping

VerseDaily

Python + BeautifulSoup

A Political Moment

"Isn't tyranny a kind of oblivion?"
texted a friend from out of town.
I don't know how to respond
or calm down and finish
my meditation on Zeno's paradox.

Split the distance *ad infinitum* and never get there;
Achilles shamed by the tortoise in the race.
So again, no oblivion;
the hand never comes close enough to slap.
The revelers at the carnival are never gone.

```
1  [
2    [
3      '"Isn\'t tyranny a kind of oblivion?"',
4      'texted a friend from out of town.',
5      "I don't know how to respond",
6      'or calm down and finish',
7      "my meditation on Zeno's paradox."
8    ],
9    [
10     'Split the distance ad infinitum and never get there;',
11     'Achilles shamed by the tortoise in the race.',
12     'So again, no oblivion;',
13     'the hand never comes close enough to slap.',
14     'The revelers at the carnival are never gone.'
15   ]
16 ]
```

The deepLearning block : tokenization & embedding

Tokenize on rules	Let	's	tokenize	!	Is	n't	this	easy	?

Tokenize on punctuation	Let	'	s	tokenize	!	Isn	'	t	this	easy	?

Tokenize on white spaces	Let's	tokenize!	Isn't	this	easy?

Let's tokenize! Isn't this easy?

	living being	feline	human	gender	royalty	verb	plural
cat →	0.6	0.9	0.1	0.4	−0.7	−0.3	−0.2
kitten →	0.5	0.8	−0.1	0.2	−0.6	−0.5	−0.1
dog →	0.7	−0.1	0.4	0.3	−0.4	−0.1	−0.3
houses →	−0.8	−0.4	−0.5	0.1	−0.9	0.3	0.8

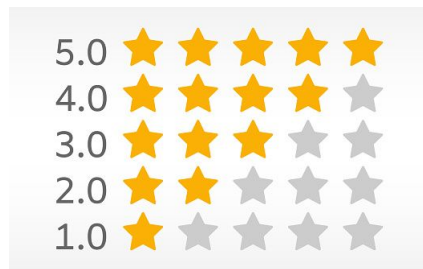|							
man →	0.6	−0.2	0.8	0.9	−0.1	−0.9	−0.7
woman →	0.7	0.3	0.9	−0.7	0.1	−0.5	−0.4
king →	0.5	−0.4	0.7	0.8	0.9	−0.7	−0.6
queen →	0.8	−0.1	0.8	−0.9	0.8	−0.5	−0.9

The deepLearning block : Bert architecture
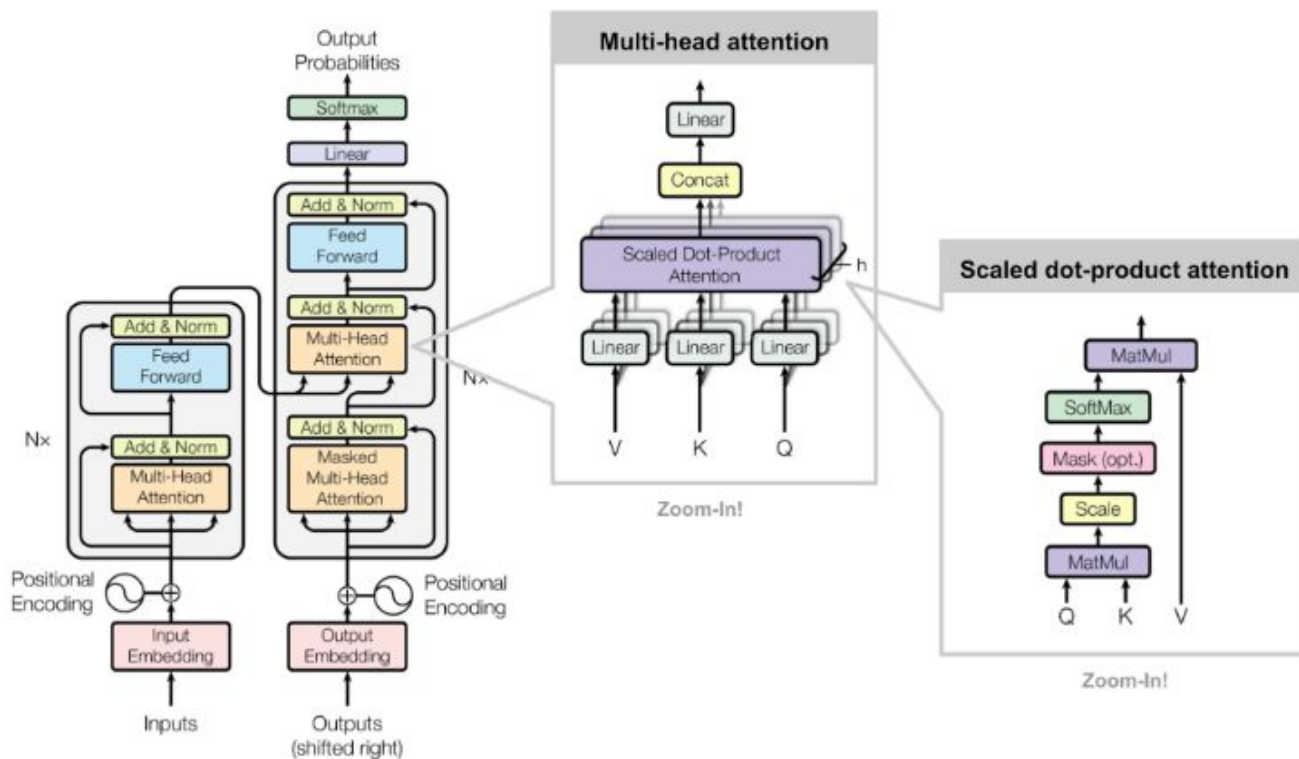
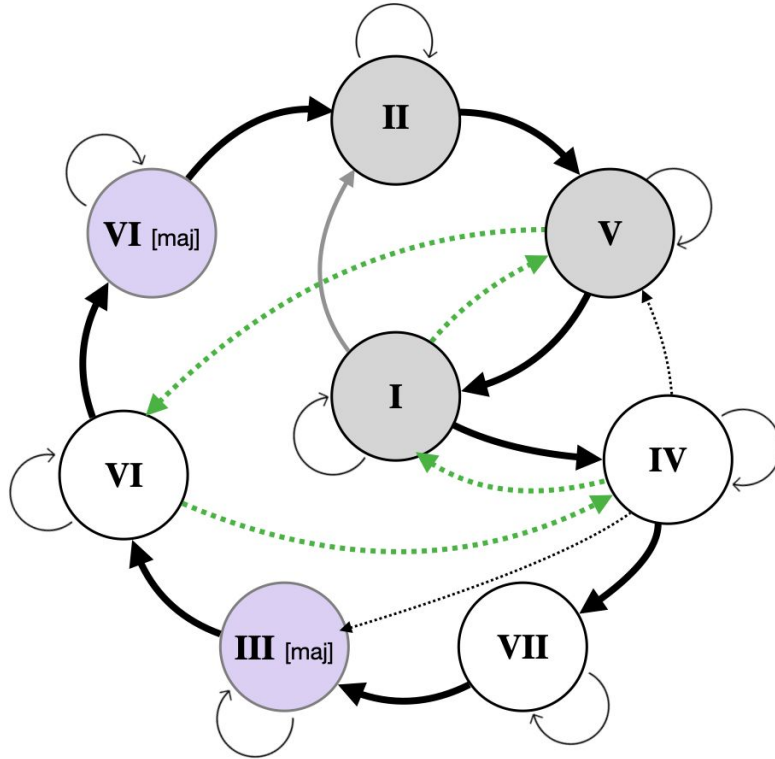# The deepLearning block : Bert architecture
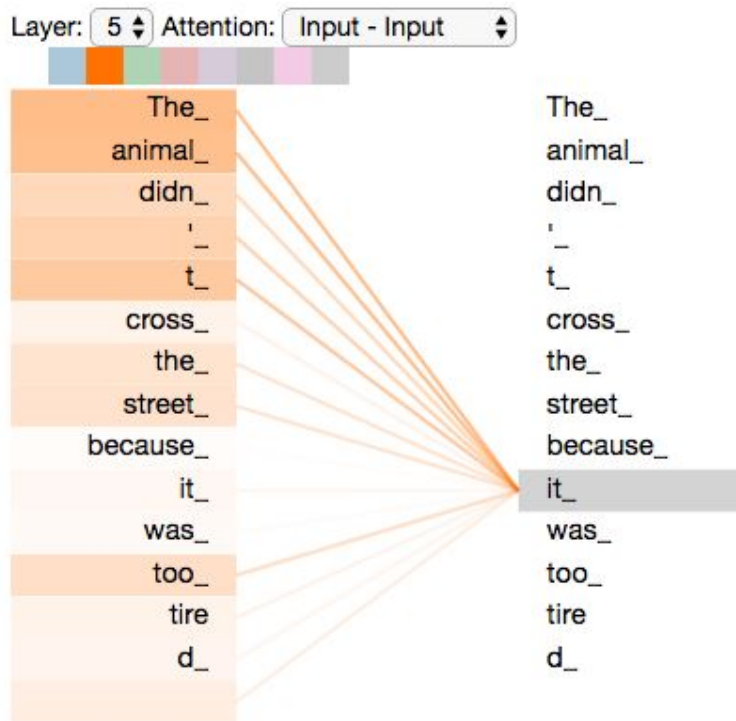
The deepLearning block

Automatic music generation

Automatic music generation

	I	II	III_{maj}	IV	V	VI	VI_{maj}	VII
I	0.5	0.3	0	0.2	0	0	0	0
II	0	0.5	0	0	0.5	0	0	0
III_{maj}	0	0	0	0.1	0	0.9	0	0
IV	0.3	0	0.1	0.1	0.2	0	0	0.3
V	0.6	0	0	0	0.1	0.3	0	0
VI	0	0	0	0.4	0	0.2	0.4	0
VI_{maj}	0	0.9	0	0	0	0	0.1	0
VII	0.1	0	0.8	0	0	0	0	0.1

Use Case : Songwriting