

Program a Poem

To introduce the Python Poem Code Project

<http://www.pythoncode.co.uk/poem-overview>

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Part of the code-it.co.uk resources



Learning Objective

Can a computer program write or adapt good poetry?

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All programs written on digital devices are written by humans

So a better way of thinking about this is..

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Can a computer program write or adapt good poetry?

All programs written on digital devices are written by humans

So a better way of thinking about this is..

Can a human train (program) a computer to write or adapt poetry?

Learning Objective

Can a computer program write or adapt good poetry?

Can a human train (program) a computer to write or adapt poetry?

What would a human need to know to write or adapt a poem?

Mashed Potatoes on the Ceiling

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Decomposing the Poem (Breaking it down)

Column1	Column2	Column3	Column4	
Mashed	potatoes	on the	ceiling.	Row1
Green	beans	on the	floor.	Row2
Stewed	tomatoes	in the	corner.	Row3
	Squash	upon the	door.	Row4

What would a human spot about the structure/patterns & rhyme in this poem?

Decomposing the Poem (Breaking it down)

Column1	Column2	Column3	Column4	
Mashed	potatoes	on the	ceiling.	Row1
Green	beans	on the	floor.	Row2
Stewed	tomatoes	in the	corner.	Row3
	Squash	upon the	door.	Row4

What would a human spot about the structure/patterns & rhyme in this poem?

Adjectives

Decomposing the Poem (Breaking it down)

Column1	Column2	Column3	Column4	
Mashed	potatoes	on the	ceiling.	Row1
Green	beans	on the	floor.	Row2
Stewed	tomatoes	in the	corner.	Row3
	Squash	upon the	door.	Row4

What would a human spot about the structure/patterns & rhyme in this poem?

Vegetables

Decomposing the Poem (Breaking it down)

Column1	Column2	Column3	Column4	
Mashed	potatoes	on the	ceiling.	Row1
Green	beans	on the	floor.	Row2
Stewed	tomatoes	in the	corner.	Row3
	Squash	upon the	door.	Row4

What would a human spot about the structure/patterns & rhyme in this poem?

Position

Decomposing the Poem (Breaking it down)

Column1	Column2	Column3	Column4	
Mashed	potatoes	on the	ceiling.	Row1
Green	beans	on the	floor.	Row2
Stewed	tomatoes	in the	corner.	Row3
	Squash	upon the	door.	Row4

What would a human spot about the structure/patterns & rhyme in this poem?

Location

Decomposing the Poem (Breaking it down)

Column1	Column2	Column3	Column4	
Mashed	potatoes	on the	ceiling.	Row1
Green	beans	on the	floor.	Row2
Stewed	tomatoes	in the	corner.	Row3
	Squash	upon the	door.	Row4

What would a human spot about the structure/patterns & rhyme in this poem?

Rhyming words

Mashed Potatoes on the Ceiling

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carrots

Mashed peas on the ceiling.

mushrooms

parsnip

What would a human change if adapting this poem?

Mashed Potatoes on the Ceiling

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carrots

sprouts

Mashed cauliflower on the ceiling.

parsnip

What would a human change if adapting this poem?

Learning Objective

Can a computer program write or adapt good poetry?

You have decomposed the poem

Now learn how computers use inputs, variables & lists to adapt poetry.

Then generalise these ideas (use them for another purpose) to solve other programming problems.