

## Alteryx Encryption CU Hackathon 2017 Challenge

### Requirements

Participants are given an encrypted string.

Participants will need to decrypt the string using the rules below and the Alteryx Designer software.

### Encryption Rules

The encrypted message consists of a-z, A-Z, 0-9, and the following special characters:

	'	+	/	
.	%	=	\	}
,	/n	@	"	{
?	&	#	(	]
:	<	\$	)	_
;	>	^	-	`
!	[	*		

The string has been passed through a two-layer encryption. The challenge requires the participants to decrypt both levels of encryption.

The first level to decrypt is based around a simple substitution cipher, where each pair of characters in the initially encrypted string will map to a single character in the other part.

The second level to decrypt is based around the Language Game, Pig Latin ([https://en.wikipedia.org/wiki/Pig\\_Latin](https://en.wikipedia.org/wiki/Pig_Latin)).

### Judging Rules

There will be four judging criteria:

1. Time to Completion
2. Correctness
  - a. See "Hash"
3. Business Logic
  - a. Judges will review solution to determine the elegance of the decisions made by the team.
4. Use of Clues
  - a. See "Clues"

### Hash

This judging criterion will be weighted least of all judging criteria.

The two file hashes below relate to the original encrypted text.

Participants will use one or both file hashes to check the validity of their solution.

ascii hash	unicode hash
5929bc260d1c0debeb8962b043993b86	234fd68223e79e19424b96e077e27398

## Clues

Clue prompts and Clues will be sent to participants via email.

Clue prompts will be sent out at the specific time intervals below:

Clue 1	5PM Saturday
Clue 2	7PM
Clue 3	9PM
Clue 4	11PM
Clue 5	6AM Sunday
Clue 6	8AM
Clue 7	9AM

A Clue prompt will notify participants of the fact that a new Clue is available, and what portion of the solution the Clue is related to. If the participants feel that they would benefit from the specific Clue (based on its subject), they are able to reply to the Clue prompt email. After replying to the Clue prompt, the Clue will be sent to the specific participants via email.

The use of Clues is not required. Participants that use less clues will be judged less harshly than those participants who used multiple or all Clues.