The medieval codex of voynich manuscript, had challenged people for decades. The language in which it is written, doesn’t show much similarity to the natural languages and many believe the book is a cipher. Although mystery remains, after a few observations of different patterns, there is a new path to think about the code aspects of the writings.

Keywords: voynich manuscript, medieval, cipher, pattern hypothesis

Introduction

The voynich manuscript is one of the puzzling codices, that obsessed human minds for decades, and has been called the world’s most mysterious book. (Beinecke) It is named after Wilfrid Voynich, a Polish book dealer who purchased it in 1912. The folios are made of calf skin and had been carbon-dated to the early 15th century (1404–1438). The manuscript is profusely illustrated, and from these illustrations it appears to be a scientific or medical work from the middle ages.(Zandbergen, 2019) The largest section of the manuscript, consists of a hundred and thirteen large detailed colorful drawings of plants and herbs, with text carefully written around the imagery.(Blumberg, 2016) Other sections are considered Astronomical, containing zodiac-like illustrations; Balneological, with drawings of green and blue colored baths; Cosmological, consisting of circular illustrations; Pharmaceutical, containing drawing of small containers with plant organs, and Recipes, containing very dense text with drawings of stars in the margins.(Reddy & Knight, 2011)

The language and script of the book have been unknown for quite long time. In some ways, Voynichese, the nickname for the writing, acts as a language. In other ways, it doesn’t. (Pappas, 2018) In the 600 years that the Voynich manuscript has existed, we know of no one who has been able to read
a word or use it to accomplish anything useful. (Grady, 2017) Some researchers think the manuscript does contain a message and many assume the book to be coded. However, if the book is coded, the deciphering is above imaginations that could keep people from getting results. Some unusual repeats happen in the writings which can guide to solve the mystery. By developing specific methods, the book will speak and we would be able to hear its cries for first time.

Methodology

While observing the voynich pages a number of repeating features have been found. The repeats had been classified into different categories (Appendix 4.) Then the paragraphs of the beginning page were examined using the alphabetical substitutes from pre practical studies (Appendix 5.) First English substitutes for text were put into color cells for identifying patterns. Then the expected omissions of each category was done. At the end, the script was changed based on phonetics to Farsi and meanings were mined using Persian dictionaries.

Results

In color cells, comparison between words disturbed by the patterns and the remaining transcripts, revealed that about fifty-seven percent of the words would be affected. (Appendix 1.) After the first omissions, a second layer of patterns appeared which occurred in a lower domain. (Appendix 6.) In total the alternative rules caused the main changes in all four paragraphs.

The words appeared in sentence structure and produced relevant meanings. (Appendix 2& 3). And overall content was understandable. (Appendix 7)
Discussion

After omissions, the meanings were identifiable. But the lack of similar records may influence the translation. In the other hand, a few observations supported the hypothesis:

i. The translation brought *Pars* which is the specific name of Persia. And most of vocabulary came from Persian language.

ii. Sea and travels would reason the presence of plant drawings, belonged to the unknown continent in that era (Tucker & Janick, 2019). Although the time that Columbus discovered America is after the writing of Voynich, archeological findings have proved wrong (McGreevy, 2021). Which can rise the probability that voynich writers could have seen the plants.

iii. The phrase stating navigation by help of *constellations in scaled circles* revealed that the human figures in astrological illustrations were a point of dividing circles. (Figure 1.)

iv. The major part of the voynich contains herbal illustrations, looking for attars in translation matches with this fact.

![Figure 1. Circular illustration in astrology pages of the manuscript. The animal in the center represents the astrology house and human figures have stars in their hands. 360° of inner and outer circles are divided by these human figures' seats. The inner circle is divided into five parts, each about 72°. And the outer circle is divided to ten parts, each about 36°.](image)
Conclusion.

During the survey, it is concluded that the mentioned rules and alphabets can make meaningful structures. And the patterns are essential for decoding the writings. Hope that future research, shed more light into the mystery.

References

- General Collection, Beinecke Rare Book and Manuscript Library, Yale University. https://beinecke.library.yale.edu/collections/highlights/voynich-manuscript
Appendices


Gah variat ar vapam ta ro pareteh va rideh jad tas had ra dar roy ab am joday

sham homer e jatari va dar vari am jad as vohosh mahv shodam ta pars hayro

atar madar gam tapaje gadam jadsaar vajadat sareid padat ad padha sham

adarideh ghadat sho va shedat vapam do ba daste darij davayer e motedaraj

saharya vasham je daryat reid sham va de samteh ria vajat datas madat sho
داریدش پوارداتشام چاری توری جاتود جادار شام جاش دراد شام جاد رئید

واد اپا توأم بسام واب و توری رئید و ساج ب داریا واسه و سار جاما

داریمار اتار بودات حساب چادری جشتوم ریادو ب دام و داریام واد تاری

دسته پوست اراد سورشم حاصل شام پات ساج ئی و ریمسار جاتو پاری جادو

داریات شام گار پادت شام پادتسار ویتاوهو شام توریم د پادت پاپتاد

دشاریج ب داریا شات ابدار جاده تاری

7
### Appendix 3. Words definition.

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<td>Step</td>
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<td>Circles</td>
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<td>In degrees, Scaled</td>
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<td>مدرج</td>
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<td>To Tear (3sg), Harvest (In old literature)</td>
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<td>ری</td>
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<td>پوست</td>
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<td>Desert/Deserts, Flat Lands</td>
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<td>پَر</td>
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<tr>
<td>To pass through (1sg)</td>
<td>وَبِی</td>
<td>وَبِی</td>
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<td>Border</td>
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<td>At/At + Surface= On</td>
<td>در/در + دی</td>
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<td>Magic, Early Morning</td>
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<td>Wall</td>
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<td>Place+ of that</td>
<td>چَبیش</td>
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<td>وَادِی‌باد</td>
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<td>Counting</td>
<td>حساب، حساب</td>
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<td>In+ That+ Also/ Provision + of me</td>
<td>تو+یش+هم+توش+هم</td>
<td>تو+یش+هم+توش+هم</td>
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<td>With, to</td>
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<td>ب/بِایا</td>
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<td>Throbbing sound</td>
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<td>Dirt + Like</td>
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<td>Adding plant</td>
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<td>Large River</td>
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<td>Big+ To be (3sg)</td>
<td>جد+ تَم</td>
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<tr>
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<td>وحش</td>
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<td>In the direction of</td>
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Appendix 4. Omission rules. Patterns in the manuscript had been sorted into three kinds: a. Alternative, b. Inverse, and c. Twin.

**Alternative:**

1. ABC BC BC → A
2. ABC AB AB → C

1 & 2. AB CB CD → AD

**Inverse:**

1. ABCBD → ACD

AB CD EZ PL EZ CD GH → AB PL GH

**Twin:**

1. ABBC → ABC
2. ABC BCD → ABCD

Appendix 5. Alphabetical substitutes

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Appendix 7.

1. Transcript after two layer deletions:


2. Shift to Farsi Script:

3. Changing the Reading Frame:
(I) The time/song I pass through the deserts to go to Parete and there is enormous horizon. I will be separated from border, on water. Homer Jatari and I am in desert. There are giant animals. I vanished to Persia, wonderful attar, the cloddy step. (II) Steps with throbbing sound, filled with effort. I found a frozen sheep and its foot also became torn pieces. (III) And with force I pass. Running. With group of constellations in scaled circles. I'll become separated from sea and into water way. Found the material, teared..., The wall of that also becomes teared. From sea wind, I go to herbal attars. And face of horizon is to the Sea of ... Attar is..., of sea in the provision. (IV) I am in seashore. The wind makes throbbing sound. My messenger comes with a set of skin. I became dark. Plant, the dirty face..., decreasing of that adding plant. Adjusting cleaning. To the water of sea river.