

Method of

Encryption:

Barcode 39

Important Clues:

receipt, advertising
leaflet with coordinate
system (A- T, 1-10)

Hidden active and

clickable areas:

none

1

Download and print the advertising leaflet double-sided, fold the pages in the middle and arrange them according to the page numbers 1-12. The page numbers are in the bottom right or left corner of every page in a black circle.

2

Evaluation of the receipt [lines 1-4]

The entries on the receipt can be used to identify certain spots in the leaflet. These spots are identified by the **PAGE NUMBER** and **TWO COORDINATES** referring to the coordinate system surrounding the leaflet's pages. They are written according to the following pattern:
Page number – <Comma> – letter axis – number axis. If there are several coordinates in one entry they are separated by a semicolon.

2a – First receipt entry: „**READ REVERSE 2, B8**“

“2” refers to page two of the leaflet.

“B8” indicates the coordinates on page two. At the spot identified by the coordinates you will read “**1A**”



1A read in reverse (READ REVERSE): A1

You will also find “A1” in the sheet music. It marks **PART A1 OF THE COMPOSITION** – this part is the basis for the solution.

2b – Second entry on receipt: **1, L7; 10, E6 (-L +E)**

1, L7: At coordinates L7 on page 1 you will read **BAR**

10, E6 (-L +E): At coordinates E6 on page 10 you will read **COLD**. If you drop the letter "d" and add a letter "e" you get code.

This receipt entry is a clue towards a **BARCODE**.

2c – Third entry on receipt (four coordinates):

11, O6&Q4/5; 3, L6; 4, B1+4&C5, 11, M5 (-TO)

On page 11 the coordinates O6&Q4/5 read **FOLD** (O6: F and Q4/5: OLD)

On page 3 the coordinates L6 read **ALONG**

On page 4 the coordinates B1+4&C5 read **PIZZA** (B1: PI, B4: ZZ, C5 : A)

On page 11 the coordinates M5 (-TO) read Botox. If you drop the letters TO you are left with **BOX**

Everything combined gives you the hints **BARCODE** and **FOLD ALONG PIZZABOX**

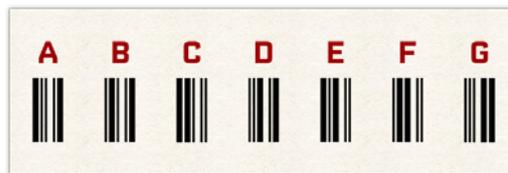
3

On page 5 of the leaflet you will find an image of a pizza box. If you fold the page along the boxes edge so that the pizza box is hidden and a ketchup bottle becomes visible instead, you will be able to read the hint **3 OF 9** above the word fragment "OMATOS".



4

And indeed, there is such a thing as a **BARCODE 3 OF 9** (also known as **BARCODE 39**). It works on the basis of five black and four white alternating lines. Three of those nine lines are thicker than the others. The plain text symbol that is being encoded is determined by which of the lines this applies to.



Go online and find a code table for Barcode 39, e.g. (e.g. www.everything2.com/title/three+of+nine). "0" represents a thin line, "1" a thick line.

5 Evaluation of the receipt [lines 5-7]

5a – „F->E: PW“

In the previous step we found out, that barcode 39 consists of 5 vertical black lines and 4 white lines, or gaps between them. In musical notations there are five lines with four gaps as well, but these run horizontally. This allows Barcode 39 to be translated into a **MUSICAL NOTATION**, or vice versa.

In the composition supermarket, this is done with the treble notes of part A1 (the clue to part A2 was given in the first receipt entry)

In the treble notes, the note „F“ occupies the top line, the note „E“ the bottom line.

F->E: PW indicates that the musical notes have to be read from the top to the bottom line. PW stands for **PASSWORD**.

The first bar of A1 begins with the chord E-B-G.

- › Note E is in the 1st gap.
- › Note B is on the 3rd black line.
- › Note G is on the 4th black line.

The lines and gaps that are occupied by notes represent **THICK LINES IN THE BARCODE**. Using this method with the chord E-B-G we get a barcode in which the 1st white line, the 3rd black line and the 4th black line are thick – three notes are now three thick lines in the barcode.



If we now refer to the encoding table for barcode 39 and look up the entry where positions 2, and 7 are marked with 1 (a thick line). This appears to be the case at the symbol * **(START / STOP)**.

The second chord consists of the notes F-B-A.

- › Note F is on the 1st black line.
- › Note B is on the 3rd black line.
- › Note A is in the 3rd gap

In the encoding table we are looking for the symbol in which positions 1, 4 and 5 (thus representing 1st and the 3rd black lines as well as the 3rd gap) are marked with 1. This is the case at the letter E.

Continuing in the same manner with the following chords gives us ***EDIGMA M4***

On page 9 of the leaflet we can find the mistyped word „**Nod't**“. Switching the letter d and N gives us the word with the correct spelling: „Don't “. Switching those letters ***EDIGMA M4*** delivers the correct password (PW): ***ENIGMA M4***

5b – „E->F: *“

E->F: * tells us that in this step the notes of the chords have to be read from the bottom to the top line.

1st chord: The notes are G-B-E

- › Note G is on the 2nd black line.
- › Note B is on the 3rd black line.
- › Note E is in 4th gap.

In the encoding table we are looking for the symbol, in which positions 3, 5 and 8 are marked with a 1, representing the 2nd and 3rd black line and the 4th gap. This we find at the **LETTER P**.

2nd chord: The notes are A – B – F

- › Note A is in the 2nd white gap.
- › Note B is on the 3rd black line.
- › Note F is on the 5th black line.

In the encoding table we are looking for the symbol, in which positions 4, 5 and 9 are marked with a 1, representing the 3rd and 5th black line and the 2nd gap. This we find at the **NUMBER 4**.

Continuing in the same manner with the following chords gives us **P4593-1S-EP**.

On page 9 of the leaflet we can find the mistyped word „Ver5 Cheap YO% off!“ Switching the number 5 and the letter Y gives us the phrase with the correct spelling: „**VERY CHEAP 50% OFF!**“. Switching those symbols in *P4593-1S-EP* delivers the following: **P4Y93-1S-EP**

5c – “ENTER X IN 7, T1-10: \$”

At the coordinates T1-10 on page 7 we find a line drawing that looks similar to a 7 segment display. Fill in the segments of the drawing so that you can read **P4Y93-1S-EP**



6

There is an image of a **LIGHT BULB** on page 7 of the leaflet, and on page 8a that of a bottle of **WINDOW CLEANER** with the slogan “for a straight & clear see through”. Both are hints to hold the drawing on page 7 in front of a lamp and **LOOK THROUGH THE PAPER**. On page 8 there is similar drawing as on page 7 with some segments already filled out. When held in front of a light, the two drawings complement each other and the following is legible: **PAY9381\$SEPT3**

SOLUTION / ENTERING THE CODE:

Enter **ENIGMAM4** for the password. (Leave out the two asterisks (*) and the blank, as stated in the on-screen instructions.)

Enter the amount and the date at \$: **9381SEPT3** (Leave out the \$-Sign.)