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# ORTHOGRAPHY

- 2D vector component of [alphabet](#)
- Circle -
  - Dot , point
  - Hollow
    - Quadrants -
      - right upper , left upper , right lower , left lower
    - Half
      - vertical
        - left semicircle , right semicircle
      - Horizontal
        - Upper semicircle , lower semicircle
      - Oblique halves
  - Solid
- Square
  - Bit , pixel
  - Solid
  - Hollow
    - Quadrant
      - upper
        - right , left
          - obstacle
          - entry
          - adverbs , [adjectives](#)
      - lower
        - right , left
          - Prepositional ideograms
          - sitting [person](#)
    - Halves
      - Right half , left half
        - rooms
      - upper Half , lower half
        - [table](#) , [chair](#) , [bed](#)
- Rhombus
- twinkle
- Solid
  - Quadrant
    - upper Right angled triangles
      - upper left , upper right
    - lower right angled triangles
      - lower left , lower right
  - Halves
    - Vertical
      - right triangle , left triangle
    - Transverse
      - Upper triangle , lower triangle
- Hollow

- Quadrant
  - oblique line
    - left and right
- Halves
  - vertical
    - left half triangle , right half triangle
  - Horizontal
    - upper half triangle , lower half triangle
- Compound
  - half triangle
    - with a handle
      - hook
    - with a loop or fold
    - with a tooth
      - [arrow](#)
    - with a tag or oblique line
    - doublets of
      - side by side
      - one on top of another opposite
  - Half square
    - with a handle
      - spoon
    - with a loop of fold
    - with a tooth
    - with a tag or oblique line
    - doublets of
      - same faces / tips
      - opposite faces / tips
  - straight half triangle
    - With a handle
      - straight Z shape
    - with a loop or fold
    - with a tooth
      - [corner arrow](#)
        - halves of [corner arrow](#)
          - acute angle
    - with a tag
      - square root symbol
  - Semicircles
    - with a Handle
    - with a Tag
    - with a circular loop
    - Doublets
      - same faces / tips
        - one on top of other same side
      - different faces / tips
  - acute angle triangle
  - acute half angled triangle
  - Obtuse angle triangle
  - obtuse half angled triangle

- More complex
  - circle and square
  - Triangle
    - with a handle
      - on its tip
      - on its side
    - with an oblique tag
    - doublets of
      - same faces / tips
      - opposite faces / tips

## STROKES

**Mantrakshar** strokes are the calligraphic strokes needed to write the **Mantrakshar** characters in regular **script** used in calligraphy. These strokes are the classified set of line patterns that may be arranged and combined to form character.

**The study and classification of **Mantrakshar** strokes is used for:**

- understanding **mantrakshar** character calligraphy – the correct method of writing, shape formation and stroke order required for character legibility;
- understanding stroke changes according to the style that is in use;
- defining stroke naming and counting conventions;
- identifying fundamental components of **Mantrakshar** radicals; and
- their use in computing.

The Logic of combining two strokes basically depends on 3 principles

- 1. Direction - leftward , rightward , upward , downward
- 2. Position - above , below , left side , right side , upper left **corner** , upper right **corner** , lower left **corner** , lower right **corner**
- 3. Orientation - transverse , longitudinal , oblique

## SINGLE STROKES

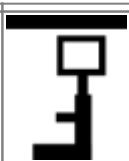
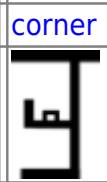
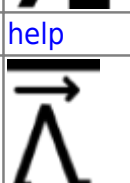
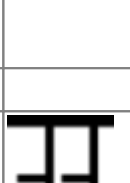
These are the most basic strokes used for creating almost any character in **mantrakshar**. These strokes are also used to **create** the **mantrakshar** particles. These basic strokes are written in a very small quantity just to signify the presence so they are usually considered to be equivalent to dots because you cannot differentiate these strokes with each other. Their writing order is given below in the picture as horizontal stroke is written from left to right , vertical stroke is written from top to bottom , left slash is written as a throw away towards left side, right slash is written some what slowly and stress is given so it is a press down stroke toward the right lower **corner**.

Combined Oblique ^ Combined axis ^ overall combined ^

|               |                   |                                    |                                     |
|---------------|-------------------|------------------------------------|-------------------------------------|
| left to right | <b>up</b> to down | centre to lower left <b>corner</b> | centre to lower right <b>corner</b> |
|---------------|-------------------|------------------------------------|-------------------------------------|

DOUBLE STROKES

These are the compound pair of strokes which can be written without lifting the pen. These strokes are also used frequently in constructing the mantrakshar characters.

|                                                                                     |                                                                                     |                                                                                   |  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|
|    |                                                                                     |  |  |
| corner                                                                              |                                                                                     | child                                                                             |  |
|    |                                                                                     |                                                                                   |  |
| muscle                                                                              |                                                                                     |                                                                                   |  |
|                                                                                     |    |                                                                                   |  |
|                                                                                     | alphabet                                                                            |                                                                                   |  |
|                                                                                     |   |                                                                                   |  |
|                                                                                     | fullbend                                                                            |                                                                                   |  |
|                                                                                     |  |                                                                                   |  |
|                                                                                     | help                                                                                |                                                                                   |  |
|                                                                                     |  |                                                                                   |  |
|                                                                                     | move                                                                                |                                                                                   |  |
|  |                                                                                     |                                                                                   |  |
| finger                                                                              |                                                                                     |                                                                                   |  |
|  |  |                                                                                   |  |
| against                                                                             | according                                                                           |                                                                                   |  |
|  |                                                                                     |                                                                                   |  |
| some                                                                                |                                                                                     |                                                                                   |  |

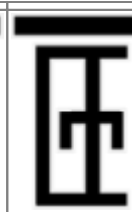
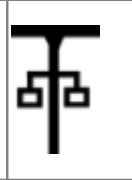
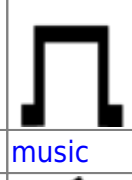
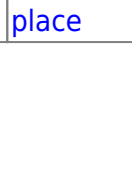
|      |     |      |        |
|------|-----|------|--------|
|      |     |      |        |
| with | gun | hand | weight |

## TRIPLE STROKES

A compound stroke (also called a complex stroke) is produced when two or more basic strokes are combined in a single stroke written without lifting the writing instrument from the writing surface. Below is the list of the complex triple stroke formed by the combination of basic 3 strokes. These strokes are used in forming a huge number of [mantrakshar](#) characters as well as forming the devanagari alphabets.

Another form of writing is cursive which is formed by combining the cursive forms. The Sanskrit or devanagari alphabets use straight strokes as well as cursive strokes which are written in a combined form. They combine the cursive forms with the simple basic strokes like vertical [bar](#), horizontal [bar](#) and then the full [alphabet](#) is formed. Below is a simple [table](#) showing the alphabets of Sanskrit formed by combining the cursive with the straight forms.

|        |           |      |       |
|--------|-----------|------|-------|
|        |           |      |       |
| create |           | wing |       |
|        |           |      |       |
| any    | not       |      | sound |
|        |           |      |       |
|        | name      |      |       |
|        |           |      |       |
|        | sit-lotus |      |       |
|        |           |      |       |
| arrow  |           |      |       |

|                                                                                   |                                                                                   |                                                                                     |                                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |    |  |
| left                                                                              | right                                                                             | down                                                                                | up                                                                                |
|  |                                                                                   |    |  |
| room                                                                              |                                                                                   | balance                                                                             | question                                                                          |
|                                                                                   |                                                                                   |    |                                                                                   |
|                                                                                   |                                                                                   | bed                                                                                 |                                                                                   |
|                                                                                   |                                                                                   |   |                                                                                   |
|                                                                                   |                                                                                   | chair                                                                               |                                                                                   |
|                                                                                   |                                                                                   |  |                                                                                   |
|                                                                                   |                                                                                   | table                                                                               |                                                                                   |
|                                                                                   |                                                                                   |  |                                                                                   |
|                                                                                   |                                                                                   | moon                                                                                |                                                                                   |
|                                                                                   |                                                                                   |  |                                                                                   |
|                                                                                   |                                                                                   | music                                                                               |                                                                                   |
|                                                                                   |                                                                                   |  |                                                                                   |
|                                                                                   |                                                                                   | cover                                                                               |                                                                                   |
|                                                                                   |                                                                                   |  |                                                                                   |
|                                                                                   |                                                                                   | place                                                                               |                                                                                   |

|           |       |             |          |
|-----------|-------|-------------|----------|
|           |       |             |          |
|           |       | sit         |          |
|           |       |             |          |
|           |       | study       |          |
|           |       |             |          |
| squat     | weak  | prone_sleep | lie_down |
|           |       |             |          |
| string    | fetus | water       |          |
|           |       |             |          |
| kneel     |       |             |          |
|           |       |             |          |
| liver     |       |             |          |
|           |       |             |          |
| stomach   |       |             |          |
|           |       |             |          |
| intestine |       |             |          |
|           |       |             |          |
|           |       |             |          |
|           |       |             |          |

|      |
|------|
|      |
| ache |
|      |

|          |                                                                                     |
|----------|-------------------------------------------------------------------------------------|
| dead     |    |
| corpse   |    |
| female   |    |
| fire     |    |
| human    |   |
| male     |  |
| person   |  |
| skeleton |  |
| trunk    |  |
| action   |  |
| doer     |  |

|      |
|------|
|      |
| tree |
|      |
| food |

FOUR STROKES

This category contains 4 strokes which can be written without lifting the pen or some strokes have to be written by lifting the pen.

E form of strokes have to be written by lifting the pen once.

|             |          |          |          |
|-------------|----------|----------|----------|
|             |          |          |          |
| supine_hand | life     | brush    | scribe   |
|             |          |          |          |
| back        | mountain | mountain | mountain |

# CURSIVE AND ENCLOSED FORMS

## CURSIVE

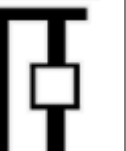
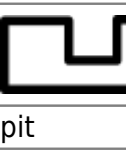
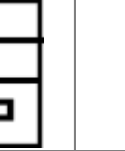
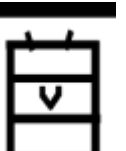
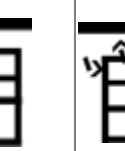
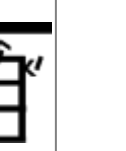
| CURSIVE RADICALS |  |      |  |
|------------------|--|------|--|
|                  |  |      |  |
|                  |  |      |  |
|                  |  |      |  |
| that             |  | this |  |

- circle
- heart shape

|          |  |
|----------|--|
|          |  |
| particle |  |
| seed     |  |
| stone    |  |
| wheel    |  |
| womb     |  |
| bouba    |  |
| cloud    |  |
| gland    |  |

ENCLOSED

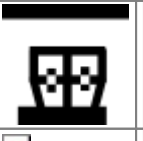
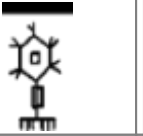
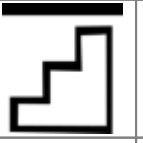
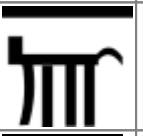
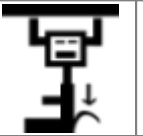
- Rhombus
- square
- rectangle
- parallelogram

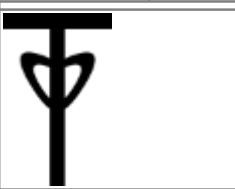
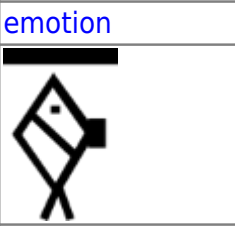
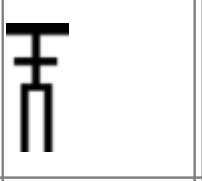
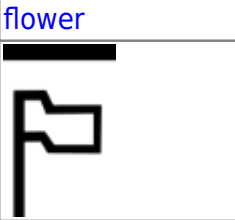
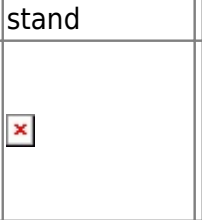
|                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| BOX                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| box                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|    |    |                                                                                     |                                                                                     |                                                                                     |
| hair                                                                                | sun                                                                                 |                                                                                     |                                                                                     |                                                                                     |
|   |   |   |   |   |
| cell                                                                                | board                                                                               | time                                                                                | money                                                                               | message                                                                             |
|  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| group                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|  |  |  |  |  |
| hammer                                                                              | insect                                                                              | lock                                                                                | hole                                                                                | object                                                                              |
|  |  |                                                                                     |                                                                                     |                                                                                     |
| elevation                                                                           | pit                                                                                 |                                                                                     |                                                                                     |                                                                                     |
|                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|  |  |  |                                                                                     |                                                                                     |
| face                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|  |  |  |  |                                                                                     |
| eye                                                                                 | nose                                                                                | mouth                                                                               | ear                                                                                 |                                                                                     |

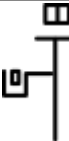
|            |           |        |  |
|------------|-----------|--------|--|
|            |           |        |  |
|            |           | tongue |  |
|            |           |        |  |
|            |           | teeth  |  |
|            |           |        |  |
| evaluation | mind      |        |  |
|            |           |        |  |
| centre     | different | equal  |  |
| leaf       |           |        |  |
| ship       |           |        |  |
| crown      |           |        |  |

MISCELLANEOUS

|       |  |
|-------|--|
| body  |  |
| book  |  |
| brain |  |

|            |                                                                                     |
|------------|-------------------------------------------------------------------------------------|
| foot       |    |
| heart-form |    |
| kidney     |    |
| neuron     |    |
| stairs     |    |
| lung       |    |
| animal     |    |
| bird       |   |
| tail       |  |

|                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |
| emotion                                                                             | cat-pose                                                                            |
|  | monkey-pose                                                                         |
| fish                                                                                |  |
|  |  |
| flower                                                                              | stand                                                                               |
|  |  |

|                     |                                                                                     |
|---------------------|-------------------------------------------------------------------------------------|
| flag                | tree-pose                                                                           |
|                     |    |
|                     | air                                                                                 |
|                     |    |
|                     | force                                                                               |
| fruit               |    |
| have                |    |
| join                |   |
| main                |  |
| radical-electricity |  |
| tool                |  |

## COMBINATION OF STROKES

While some strokes which can be equated to pictograms can be easily understood but other strokes which are not pictograms has to be degraded in to smaller strokes so that they can be easily understood. All these strokes mainly come under the category of simple ideograms.

## GENUS ALPHABET

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<https://mantrakshar.co.in/> - Kshtrgyn

Permanent link:  
<https://mantrakshar.co.in/doku.php/en/orthography?rev=1720527633>

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