

Sutton Movement Writing™



**SSS-2004, The International
Movement Writing Alphabet (IMWA)**

by
Valerie Sutton

Sutton Movement Writing

SSS-2004,
The
International
Movement
Writing
Alphabet
(IMWA)

by
Valerie Sutton

This booklet is
included in the

SignWriting
Library
Database

Map artwork by
Bill Reese.



ISBN: 0-914336-83-5

Copyright © 2004
Center for Sutton Movement Writing

SignWriting, a part of Sutton Movement Writing, was first invented by Valerie Sutton in 1974. **Sutton Movement Writing** records all body movement.

SignWriter®, SignWriting®, Sign-Symbol-Sequence®, SignBank® & DanceWriting® are registered trademarks belonging to The Center for Sutton Movement Writing, Inc.

Published by

The Center For Sutton Movement Writing, Inc.

A non-profit, tax-exempt 501 c 3 educational organization.

the DAC

The Deaf Action Committee For SignWriting®

Center For Sutton Movement Writing

PO. Box 517 • La Jolla • CA. • 92038-0517 • USA

tel: 858-456-0098 • fax: 858-456-0020

Sutton@SignWriting.org

SignWriting Site: www.SignWriting.org

SignBank Site: www.SignBank.org

DanceWriting Site: www.DanceWriting.org

Movement Writing Site: www.MovementWriting.org

SymbolBank Site: www.MovementWriting.org/symbolbank

Sutton Movement Writing

Sutton Movement Writing is the International Movement Writing Alphabet (IMWA). It is used to record all human and animal gesture. The IMWA can be compared to the International Phonetic Alphabet (the IPA) for spoken languages. The IPA records the details of sound-based-languages. The IMWA records the details of movement-based-languages. Since it is such a large and broad-based writing system, Sutton Movement Writing has been specified for five fields: **SignWriting**, for writing the movements of Sign Languages, **DanceWriting**, for writing dance choreography, **MimeWriting**, for writing classic pantomime, **SportsWriting**, for writing ice skating and gymnastics routines, and **ScienceWriting**, for gesture-based research.

Sign-Symbol-Sequence® (the SSS)

The Sign-Symbol-Sequence is the official sequence of symbols in Sutton Movement Writing. The Sequence is used in computer software to sort and look-up movement in Movement Writing. The Sign-Symbol-Sequence makes it possible to publish multi-lingual dictionaries in signed languages, sorted by signs, rather than words.

Sutton's SymbolBank

The SymbolBank Database is the official source for all symbols in Sutton Movement Writing, prepared by the system's inventor, Valerie Sutton. SymbolBank is built into the SignBank® Computer Program. SignBank sorts dictionaries based on the Sequence established in SymbolBank. SymbolBank can be accessed as a part of SignBank, or as a stand-alone database in FileMaker Pro. Download SymbolBank on the web, or search for symbols in the SymbolBank Web Database:

SymbolBank Web Database

www.MovementWriting.org/symbolbank

Chapter 1: SSS-2004

8 Symbol Categories

and 50 Symbol Groups





International Movement Writing Alphabet SSS-2004 Category BaseSymbols



Category 01: Hand

01	01	001	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Category 02: Movement

02	01	001	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Category 03: Face

03	01	001	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Category 04: Head

04	01	001	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Category 05: UpperBody

05	01	001	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Category 06: FullBody

06	01	001	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Category 07: Space

07	01	001	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Category 08: Punctuation

08	01	001	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



International Movement Writing Alphabet
SSS-2004 Group BaseSymbols p. 1



Group 01-01: Index Finger

01	01	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 01-02: Index Middle

01	02	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 01-03: Index Middle Thumb

01	03	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 01-04: Four Fingers

01	04	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 01-05: Five Fingers

01	05	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 01-06: Baby Finger

01	06	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 01-07: Ring Finger

01	07	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 01-08: Middle Finger

01	08	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 01-09: Index Thumb

01	09	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 01-10: Thumb

01	10	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



International Movement Writing Alphabet
SSS-2004 Group BaseSymbols p. 2

Group 02-01: Contact



02	01	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Group 02-02: Finger Movement



02	02	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Group 02-03: Straight Wall Plane



02	03	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Group 02-04: Straight Diagonal Plane



02	04	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Group 02-05: Straight Floor Plane



02	05	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Group 02-06: Curve Parallel Wall Plane



02	06	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Group 02-07: Curve Hits Wall Plane



02	07	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Group 02-08: Curve Hits Floor Plane



02	08	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Group 02-09: Curve Parallel Floor Plane



02	09	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Group 02-10: Circular Movement



02	10	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



International Movement Writing Alphabet
SSS-2004 Group BaseSymbols p. 3



Group 03-01: Brow

03	01	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 03-02: Eyes

03	02	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 03-03: Eyegaze

03	03	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 03-04: Cheeks Ears

03	04	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 03-05: Nose Breathing

03	05	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 03-06: Mouth

03	06	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 03-07: Tongue

03	07	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 03-08: Teeth

03	08	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 03-09: Chin Jaw

03	09	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 03-10: Neck Hair Emotions

03	10	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



International Movement Writing Alphabet

SSS-2004 Group BaseSymbols p. 4



Group 04-01: Head Viewpoints

04	01	001	01	01	01
----	----	-----	----	----	----

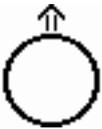
Category Group Symbol Variation Fill Rotation



Group 04-02: Head Location

04	02	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 04-03: Head Move Wall Plane

04	03	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 04-04: Head Move Floor Plane

04	04	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 04-05: Head Positions

04	05	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 05-01: ShoulderHip Viewpoints

05	01	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 05-02: ShoulderHip Positions

05	02	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 05-03: UpperBody Location

05	03	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 05-04: ShoulderHip Movement

05	04	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 05-05: Torso Movement

05	05	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 06-01: Limbs

06	01	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 06-02: FullBody Movement

06	02	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 07-01: HWD Location

07	01	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 07-02: Plane Location

07	02	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 07-03: 3D Location

07	03	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 07-04: Room Location

07	04	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 08-01: Dynamics

08	01	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 08-02: Timing

08	02	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 08-03: Scoring

08	03	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Group 08-04: Punctuation

08	04	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Group Base Symbols Chart

All 50 Groups

Hand	Movement	Face	Head-Body	Space-Punctuation
1	11	21	31	41
2	12	22	32	42
3	13	23	33	43
4	14	24	34	44
5	15	25	35	45
6	16	26	36	46
7	17	27	37	47
8	18	28	38	48
9	19	29	39	49
10	20	30	40	50

Chapter 2: SSS-2004

500 BaseSymbols

...Symbol Names and Numbers...





International Movement Writing Alphabet
SSS-2004 BaseSymbols p. 1



Index

01	01	001	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Index on Circle

01	01	002	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Index on Cup

01	01	003	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Index on Oval

01	01	004	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Index on Hinge

01	01	005	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Index on Angle

01	01	006	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



IndexBent, Version 1

01	01	007	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



IndexBent, Version 2

01	01	008	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



IndexBent on Fist Thumb Under

01	01	009	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



IndexCup

01	01	010	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



International Movement Writing Alphabet
SSS-2004 BaseSymbols p. 2



IndexHinge

01	01	011	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



IndexHinge on Circle

01	01	012	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



IndexHinge Low

01	01	013	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Middle

01	02	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Middle on Circle

01	02	002	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Middle Bent

01	02	003	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Middle Hinge

01	02	004	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



IndexUp MiddleHinge

01	02	005	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



IndexHinge MiddleUp

01	02	006	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Middle Unit

01	02	007	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



International Movement Writing Alphabet
SSS-2004 BaseSymbols p. 3



Index Middle UnitCup

01	02	008	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Middle UnitHinge

01	02	009	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Middle Cross

01	02	010	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



MiddleBent Over Index

01	02	011	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



IndexBent Over Middle

01	02	012	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Middle Thumb

01	03	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Middle Thumb on Circle

01	03	002	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Middle Straight, Thumb Bent

01	03	003	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Middle Bent, Thumb Straight

01	03	004	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Middle Thumb Bent

01	03	005	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Middle, Thumb Forward

01	03	006	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Middle Thumb Cup

01	03	007	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Middle Thumb Circle

01	03	008	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Middle Thumb Hinge

01	03	009	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Middle Unit, Thumb Side

01	03	010	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Middle Unit, Thumb Bent

01	03	011	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Middle UnitHinge, Thumb Side

01	03	012	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Middle Cross, Thumb Side

01	03	013	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Middle Unit, Thumb Forward

01	03	014	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Middle Thumb UnitHinge

01	03	015	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Middle Thumb AngleOut

01	03	016	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Middle Thumb Angle

01	03	017	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Middle Thumb AngleOut, IndexUp

01	03	018	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Middle Thumb Angle, IndexUp

01	03	019	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Middle Thumb Circle, IndexUp

01	03	020	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Thumb Circle, MiddleUp

01	03	021	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Four Fingers

01	04	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Four Fingers Bent

01	04	002	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Four Fingers Hinge

01	04	003	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Four Fingers Unit

01	04	004	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



International Movement Writing Alphabet
SSS-2004 BaseSymbols p. 6



Four Fingers UnitClaw

01	04	005	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Four Fingers UnitBent

01	04	006	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Four Fingers UnitHinge

01	04	007	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Five Fingers

01	05	001	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Five Fingers Four Bent

01	05	002	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Five Fingers Bent

01	05	003	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Five Fingers Thumb Forward

01	05	004	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Five Fingers Open Cup

01	05	005	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Five Fingers Cup

01	05	006	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Five Fingers Open Hinge

01	05	007	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Five Fingers Hinge

01	05	008	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Five Fingers Hinge Thumb Side

01	05	009	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Five Fingers Hinge No Thumb

01	05	010	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Flat Hand

01	05	011	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Flat InBetween Palm Facing

01	05	012	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Flat Diagonal Plane

01	05	013	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Flat Thumb Side

01	05	014	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Flat Thumb Side Bent

01	05	015	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Flat Thumb Forward

01	05	016	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



FlatSplit Index Thumb Side

01	05	017	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



International Movement Writing Alphabet
SSS-2004 BaseSymbols p. 8



FlatSplit Center

01	05	018	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



FlatSplit Baby

01	05	019	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Flat Arch Back

01	05	020	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Flat Relaxed

01	05	021	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Heel of Hand

01	05	022	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Claw

01	05	023	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Claw Thumb Side

01	05	024	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Claw No Thumb

01	05	025	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Claw Thumb Forward

01	05	026	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Hook

01	05	027	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



International Movement Writing Alphabet
SSS-2004 BaseSymbols p. 9



Open Cup

01	05	028	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Open Cup Thumb Side

01	05	029	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Open Cup No Thumb

01	05	030	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Open Cup Thumb Forward

01	05	031	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Cup

01	05	032	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Cup Thumb Side

01	05	033	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Cup No Thumb

01	05	034	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Cup Thumb Forward

01	05	035	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Curlicue

01	05	036	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Circle (Open Fist)

01	05	037	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Oval



01	05	038	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Oval Thumb Side



01	05	039	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Oval No Thumb



01	05	040	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Oval Thumb Forward



01	05	041	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Open Hinge



01	05	042	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Open Hinge Thumb Side



01	05	043	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Open Hinge No Thumb



01	05	044	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Open Hinge Thumb Forward



01	05	045	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Hinge



01	05	046	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Hinge Thumb Side



01	05	047	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Hinge No Thumb



01	05	048	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Small Hinge



01	05	049	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Angle



01	05	050	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Index Middle Ring



01	06	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Index Middle Ring on Circle



01	06	002	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Index Middle Ring Bent



01	06	003	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Index Middle Ring Unit



01	06	004	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Index Middle Ring UnitHinge



01	06	005	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Baby Down



01	06	006	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Baby Down Ripple



01	06	007	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Baby Up

01	06	008	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Baby Up on Circle

01	06	009	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Baby Up on Oval

01	06	010	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Baby Up on Angle

01	06	011	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Baby Bent

01	06	012	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Baby Thumb

01	06	013	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Baby Thumb on Hinge

01	06	014	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Baby Index Thumb

01	06	015	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Baby Index Thumb on Hinge

01	06	016	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Baby Index Thumb AngleOut

01	06	017	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Baby Index Thumb Angle

01	06	018	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Baby Index

01	06	019	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Baby Index on Circle

01	06	020	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Baby Index on Angle

01	06	021	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Index Middle Baby

01	07	001	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Index Middle Baby on Circle

01	07	002	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Index Middle Baby on Angle

01	07	003	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Ring Down

01	07	004	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Ring Up

01	07	005	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Ring Baby

01	07	006	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Ring Baby on Oval

01	07	007	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Ring Baby on Angle

01	07	008	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Ring Middle

01	07	009	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Ring Middle Unit

01	07	010	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Ring Index

01	07	011	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Ring Thumb

01	07	012	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Ring Thumb Hook

01	07	013	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Ring Baby

01	08	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Ring Baby on Circle

01	08	002	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Ring Baby on Curlicue

01	08	003	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Ring Baby on Cup

01	08	004	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Ring Baby on Hinge

01	08	005	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Ring Baby on AngleOut

01	08	006	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Ring Baby on Angle

01	08	007	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Middle Down

01	08	008	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Middle Hinge

01	08	009	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Middle Up

01	08	010	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Middle Up, Thumb Side

01	08	011	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Middle Thumb Hook

01	08	012	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Middle Thumb Baby

01	08	013	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Middle Baby

01	08	014	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Middle Ring Baby

01	09	001	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Middle Ring Baby on Circle

01	09	002	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Middle Ring Baby on Curlicue

01	09	003	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Middle Ring Baby on Cup

01	09	004	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Middle Ring Baby on Hinge

01	09	005	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Middle Ring Baby on AngleOut

01	09	006	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Middle Ring Baby on AngleIn

01	09	007	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Middle Ring Baby on Angle

01	09	008	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Middle Ring Baby Bent

01	09	009	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Middle Ring Baby Unit on Claw

01	09	010	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Middle Ring Baby Unit on ClawSide

01	09	011	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Middle Ring Baby Unit on HookOut

01	09	012	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Middle Ring Baby Unit on HookIn

01	09	013	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Middle Ring Baby Unit on Hook

01	09	014	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Thumb Side

01	09	015	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Thumb SideUnit

01	09	016	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Straight, Thumb Bent

01	09	017	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Bent, Thumb Side, Version 1

01	09	018	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Bent, Thumb Side, Version 2

01	09	019	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Hinge, Thumb Side

01	09	020	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Index Up, Thumb Forward

01	09	021	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Index Bent, Thumb Forward

01	09	022	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Index Thumb Hook

01	09	023	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Index Thumb Cup Large

01	09	024	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Index Thumb Cup

01	09	025	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Index Thumb Circle

01	09	026	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Index Thumb Open Hinge

01	09	027	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Index Thumb Hinge Large

01	09	028	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Index Thumb Hinge

01	09	029	01	02	01
Category	Group	Symbol	Variation	Fill	Rotation



Index Thumb Hinge Small

01	09	030	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Thumb AngleOut

01	09	031	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Thumb AngleIn

01	09	032	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Index Thumb Angle

01	09	033	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Thumb

01	10	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Thumb SideUnit

01	10	002	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Thumb SideBent

01	10	003	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Thumb Forward

01	10	004	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Thumb Between Index Middle

01	10	005	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Thumb Between Middle Ring

01	10	006	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Thumb Between Ring Baby

01	10	007	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Thumb Under 2 Fingers

01	10	008	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Thumb Under 3 Fingers

01	10	009	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Thumb Under 4 Fingers

01	10	010	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Fist

01	10	011	01	02	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Touch

02	01	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Touch Between

02	01	002	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Grasp

02	01	003	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Grasp Between

02	01	004	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Strike

02	01	005	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Strike Between

|#|

02	01	006	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Brush

⊙

02	01	007	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Brush Between

|⊙|

02	01	008	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Rub

@

02	01	009	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Rub Between

|@|

02	01	010	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Surface Wall Plane

≡

02	01	011	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Surface Floor Plane

⌒

02	01	012	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Squeeze

●

02	02	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Squeeze Sequential

↑
●

02	02	002	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Flick

○

02	02	003	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Flick Sequential

02	02	004	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Squeeze-Flick Alternating

02	02	005	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Hinge Motion Up-Down

02	02	006	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Hinge Motion Up-Down Sequential

02	02	007	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Hinge Motion Up-Down Alternating

02	02	008	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Hinge Motion Side-Side Scissors

02	02	009	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



FingerContact Movement Wall Plane

02	02	010	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



FingerContact Movement Floor Plane

02	02	011	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Straight Wall Plane Small

02	03	001	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Straight Wall Plane Medium

02	03	001	02	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Straight Wall Plane Large

02	03	001	03	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Wrist Flex Straight Wall Plane

02	03	001	04	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Double Wall Plane

02	03	002	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Wrist Flex Double Wall Plane

02	03	002	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Double Alternating Wall Plane

02	03	003	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Wrist Flex Double Alternating Wall Plane

02	03	003	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Cross Wall Plane

02	03	004	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Triple Wall Plane

02	03	005	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Wrist Flex Triple Wall Plane

02	03	005	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Triple Alternating Wall Plane

02	03	006	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Wrist Flex Triple Alternating Wall Plane

02	03	006	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Bend Wall Plane Small

02	03	007	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Bend Wall Plane Medium

02	03	007	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Bend Wall Plane Large

02	03	007	03	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Corner Wall Plane Small

02	03	008	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Corner Wall Plane Medium

02	03	008	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Corner Wall Plane Large

02	03	008	03	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Check Wall Plane Small

02	03	009	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Check Wall Plane Medium

02	03	009	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Check Wall Plane Large

02	03	009	03	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Box Wall Plane Small

02	03	010	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Box Wall Plane Medium

02	03	010	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Box Wall Plane Large

02	03	010	03	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



ZigZag Wall Plane Small

02	03	011	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



ZigZag Wall Plane Medium

02	03	011	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



ZigZag Wall Plane Large

02	03	011	03	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Peaks Wall Plane Small

02	03	012	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Peaks Wall Plane Medium

02	03	012	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Peaks Wall Plane Large

02	03	012	03	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Travel Rotation Single Wall Plane

02	03	013	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Travel Rotation Double Wall Plane

02	03	014	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Travel Rotation Alternating Wall Plane

02	03	015	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Diagonal-Away Plane Small

02	04	001	01	01	01
----	----	-----	----	----	----

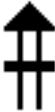
Category Group Symbol Variation Fill Rotation



Diagonal-Away Plane Medium

02	04	001	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Diagonal-Away Plane Large

02	04	001	03	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Diagonal-Towards Plane Small

02	04	002	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Diagonal-Towards Plane Medium

02	04	002	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Diagonal-Towards Plane Large

02	04	002	03	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Bewteen Wall & Diagonal-Away Small

02	04	003	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Bewteen Wall & Diagonal-Away Medium

02	04	003	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Bewteen Wall & Diagonal-Away Large

02	04	003	03	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Bewteen Wall-Diagonal-Towards Small

02	04	004	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Bewteen Wall-Diagonal-Towards Medium

02	04	004	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Bewteen Wall-Diagonal-Towards Large

02	04	004	03	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Straight Floor Plane Small

02	05	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Straight Floor Plane Medium

02	05	001	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Straight Floor Plane Large

02	05	001	03	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Wrist Flex Straight Floor Plane

02	05	001	04	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Double Floor Plane

02	05	002	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Wrist Flex Double Floor Plane

02	05	002	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Double Alternating Floor Plane



02	05	003	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Wrist Flex Double Alternating Floor Plane



02	05	003	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Cross Floor Plane



02	05	004	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Triple Floor Plane



02	05	005	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Wrist Flex Triple Floor Plane



02	05	005	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Triple Alternating Floor Plane



02	05	006	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Wrist Flex Triple Alternating Floor Plane



02	05	006	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Bend Floor Plane



02	05	007	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Corner Floor Plane Small



02	05	008	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Corner Floor Plane Medium



02	05	008	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Corner Floor Plane Large

02	05	008	03	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Check Floor Plane

02	05	009	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Box Floor Plane Small

02	05	010	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Box Floor Plane Medium

02	05	010	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Box Floor Plane Large

02	05	010	03	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



ZigZag Floor Plane Small

02	05	011	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



ZigZag Floor Plane Medium

02	05	011	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



ZigZag Floor Plane Large

02	05	011	03	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Peaks Floor Plane Small

02	05	012	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Peaks Floor Plane Medium

02	05	012	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Peaks Floor Plane Large

02	05	012	03	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Travel Rotation Single Floor Plane

02	05	013	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Travel Rotation Double Floor Plane

02	05	014	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Travel Rotation Alternating Floor Plane

02	05	015	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Curve Wall Plane Quarter Small

02	06	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Curve Wall Plane Quarter Medium

02	06	001	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Curve Wall Plane Quarter Large

02	06	001	03	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Curve Wall Plane Half Circle

02	06	002	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Curve Wall Plane Three-Quarter Circle

02	06	003	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Hump Wall Plane Small

02	06	004	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Hump Wall Plane Medium

02	06	004	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Hump Wall Plane Large

02	06	004	03	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Loop Wall Plane Small

02	06	005	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Loop Wall Plane Medium

02	06	005	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Loop Wall Plane Large

02	06	005	03	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Wave Wall Plane Small

02	06	006	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Wave Wall Plane Medium

02	06	006	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Wave Wall Plane Large

02	06	006	03	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Rotation Over-Under Wall Plane

02	06	007	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Rotation Double Wall Plane

02	06	008	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Rotation Alternating Wall Plane

02	06	009	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Shaking Wall Plane

02	06	010	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Rotation Side Wall Plane

02	06	011	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Rotation Double Wall Plane

02	06	012	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Rotation Alternating Wall Plane

02	06	013	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Movement Like A Question Mark

02	06	014	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Movement Like A Question Mark

02	06	014	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Curve Hits Front Wall

02	07	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Hump Hits Front Wall

02	07	002	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Loop Hits Front Wall

02	07	003	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Wave Hits Wall Plane

02	07	004	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Curve Hits Back Wall

02	07	009	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Hump Hits Back Wall

02	07	010	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Loop Hits Back Wall

02	07	011	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Wave Hits Wall Plane

02	07	012	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Curve Hits Ceiling

02	08	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Curve Hits Ceiling

02	08	001	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Hump Hits Ceiling

02	08	002	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Hump Hits Ceiling

02	08	002	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Loop Hits Ceiling

02	08	003	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Loop Hits Ceiling

02	08	003	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Wave Hits Ceiling

02	08	004	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Rotation Single Hits Ceiling

02	08	005	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Rotation Double Hits Ceiling

02	08	006	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Rotation Alternating Hits Ceiling

02	08	007	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Curve Hits Floor

02	08	009	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Curve Hits Floor

02	08	009	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Hump Hits Floor

02	08	010	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Loop Hits Floor

02	08	011	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Loop Hits Floor

02	08	011	02	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Wave Hits Floor

02	08	012	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Rotation Single Hits Floor

02	08	013	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Rotation Double Hits Floor

02	08	014	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Rotation Alternating Hits Floor

02	08	015	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Curve Floor Plane

02	09	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Hump Floor Plane

02	09	002	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Loop Floor Plane

02	09	003	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Wave Floor Plane

02	09	004	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Rotation Floor Plane

02	09	005	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Rotation Double Floor Plane

02	09	006	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Rotation Alternating Floor Plane

02	09	007	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Shaking Floor Plane

02	09	008	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Curve Hits Side Wall

02	09	009	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Hump Hits Side Wall

02	09	010	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Loop Hits Side Wall

02	09	011	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Wave Hits Side Wall

02	09	012	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Rotation Hits Side Wall

02	09	013	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Rotation Double Hits Side Wall

02	09	014	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Rotation Alternating Hits Side Wall

02	09	015	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Arm Circle Parallel Front Wall Single v.1

02	10	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Arm Circle Parallel Front Wall Single v.2

02	10	002	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Arm Circle Parallel Front Wall Double v.1

02	10	003	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Arm Circle Parallel Front Wall Double v.2

02	10	004	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Arm Circle Hits Front Wall Single v.1

02	10	005	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Arm Circle Hits Front Wall Single v.2

02	10	006	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Arm Circle Hits Front Wall Double v.1

02	10	007	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Arm Circle Hits Front Wall Double v.2

02	10	008	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Wrist Circle Parallel Front Wall Single

02	10	009	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Wrist Circle Parallel Front Wall Double

02	10	010	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Wrist Circle Hits Front Wall Single

02	10	011	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Wrist Circle Hits Front Wall Double

02	10	012	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Finger Circle Wall Plane

02	10	013	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Eyebrows Straight

03	01	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Eyebrows Bent

03	01	002	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Forehead

03	01	003	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Eyes

03	02	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Eyes Wide Open

03	02	002	01	01	02
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Eyelashes

03	02	003	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Eyegaze Up

03	03	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Eyegaze Forward

03	03	002	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Cheeks

03	04	001	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Cheeks Tense

03	04	002	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Ears

03	04	003	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Nose

03	05	001	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Breathing

03	05	002	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Mouth

03	06	001	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Mouth Open

03	06	002	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Kiss

03	06	003	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Lip Corners Up

03	06	004	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Tongue Sticks Outside

03	07	001	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Tongue Licks Lip

03	07	002	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Tongue Tip Touches Inside

03	07	003	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Tongue Rests Inside Mouth

03	07	004	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Tongue Pushes Cheek

03	07	005	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Tongue Sticks Outside Center Mouth

03	07	006	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Teeth

03	08	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Teeth Bite Lip

03	08	002	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Teeth Rest on Lip

03	08	003	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Teeth Movement

03	08	004	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Chin Up

03	09	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



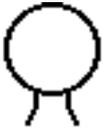
Chin Forward

03	09	002	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Jaw Twists, Whole Face Follows

03	09	003	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Neck

03	10	001	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Hair

03	10	002	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Emotions

03	10	003	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Head

04	01	001	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Head Rim

04	02	001	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Head Movement Up

04	03	001	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Head Movement Forward

04	04	001	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Head Direction Line

04	05	001	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation



Shoulders



05	01	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Shoulders & Hips



05	01	002	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Shoulders Up or Down



05	02	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

UpperBody Contact



05	03	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

UpperBody Location



05	03	002	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Shoulder Movement Wall Plane



05	04	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Shoulder Movement Floor Plane



05	04	002	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

UpperBody Tilts



05	05	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Torso Twists & Bends



05	05	002	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Arm



06	01	001	01	01	01
----	----	-----	----	----	----

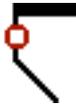
Category Group Symbol Variation Fill Rotation



Arm Contact

06	01	002	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Arm Location

06	01	003	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Leg

06	01	004	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Leg Contact

06	01	005	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Leg Location

06	01	006	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



FullBody Tilts

06	02	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



FullBody Movement

06	02	006	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Height Location

07	01	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Width Location

07	01	002	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Depth Location

07	01	003	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Wall Plane Location

07	02	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Floor Plane Location

07	02	002	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



3D Location

07	03	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Room Location

07	04	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Fast

08	01	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Slow

08	01	002	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Tense

08	01	003	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



Relaxed

08	01	004	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



SameTime Movement

08	02	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



SameTime Alternating

08	02	002	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation



DifferentTime Alternating



08	02	003	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Unit-Connecting Line



08	02	004	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Movement Scoring



08	03	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

End Sentence (Period)



08	04	001	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Syllable Divider (Hyphen)



08	04	002	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Phrase Divider (Comma, Pause)



08	04	003	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Inserted Phrase (Parentheses)



08	04	004	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Quoted Phrase (Quotes)



08	04	005	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Pause At End (Question Mark)



08	04	006	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Preface to a List (Colon)



08	04	007	01	01	01
----	----	-----	----	----	----

Category Group Symbol Variation Fill Rotation

Chapter 3: SSS-2004

Sequencing Design

...BaseSymbols, Fills & Rotations...

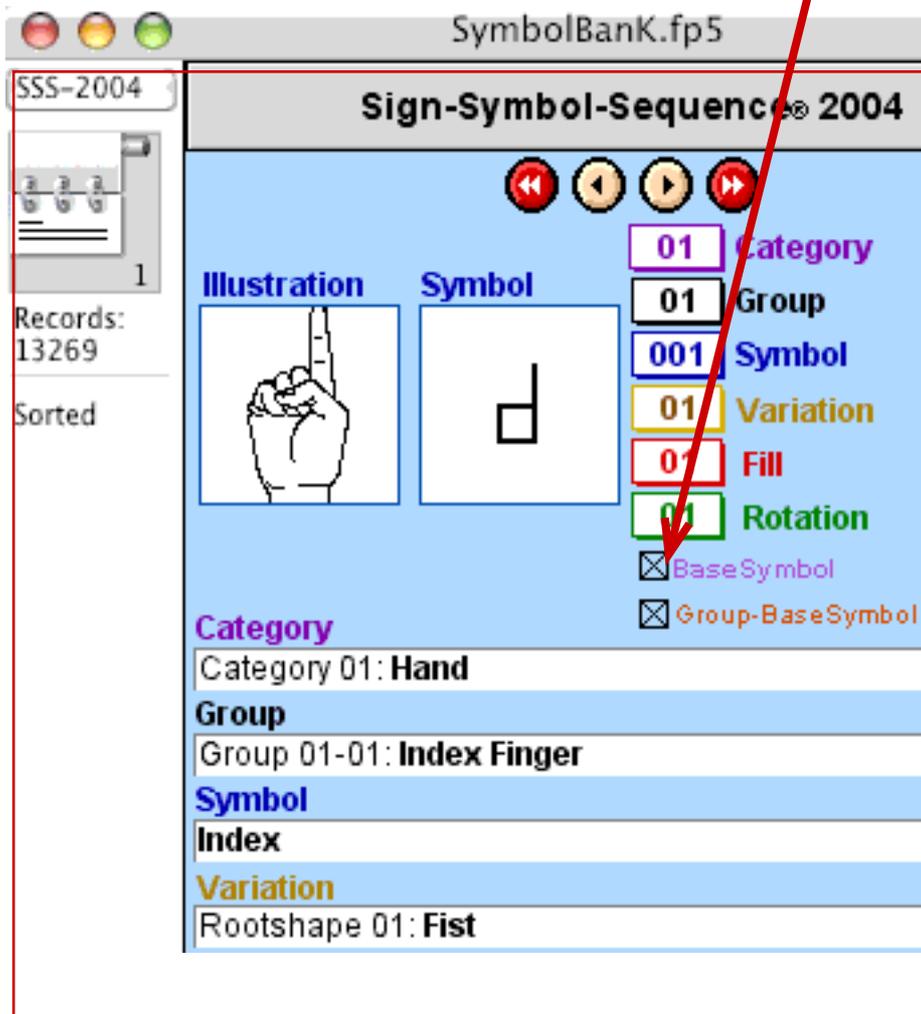


BaseSymbols

Symbols That Represent Symbols

What is a BaseSymbol?

Most symbols have several rotations. A BaseSymbol is one rotation, chosen to represent a symbol, when the symbol is listed in the SSS. BaseSymbols are used to skim through the SSS quickly. BaseSymbols are almost always the first symbol, Fill01-Rotation01. The only exception is Category 01: Hands. Category 01 can have BaseSymbols that are either Fill01-Rotation01 or Fill02-Rotation01. You can search for BaseSymbols in SymbolBank. They are marked with a checkbox:

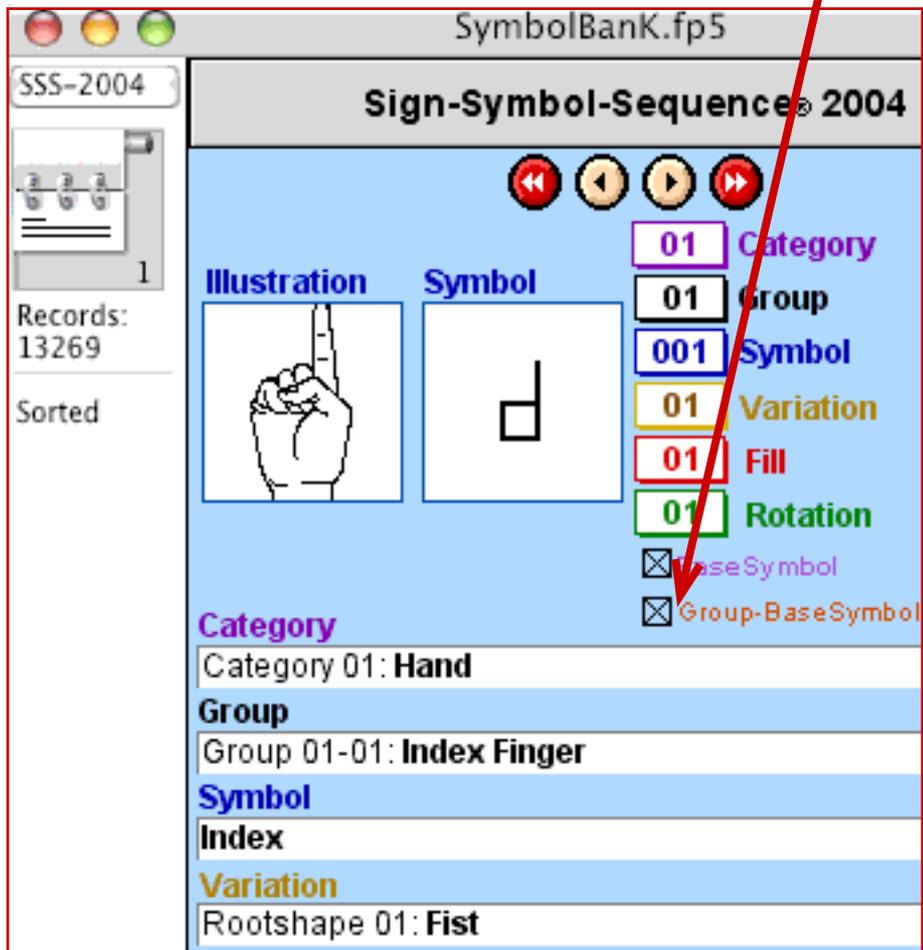


Group BaseSymbols

Symbols That Represent Groups

What is a Group BaseSymbol?

A Group BaseSymbol is a BaseSymbol chosen to represent an entire group of symbols. There are 50 Symbol Groups, and 50 Group BaseSymbols representing them. Group BaseSymbols are always the first BaseSymbol in the group, and are always Fill01-Rotation01. You can search for Group BaseSymbols in SymbolBank. They are marked with a checkbox:

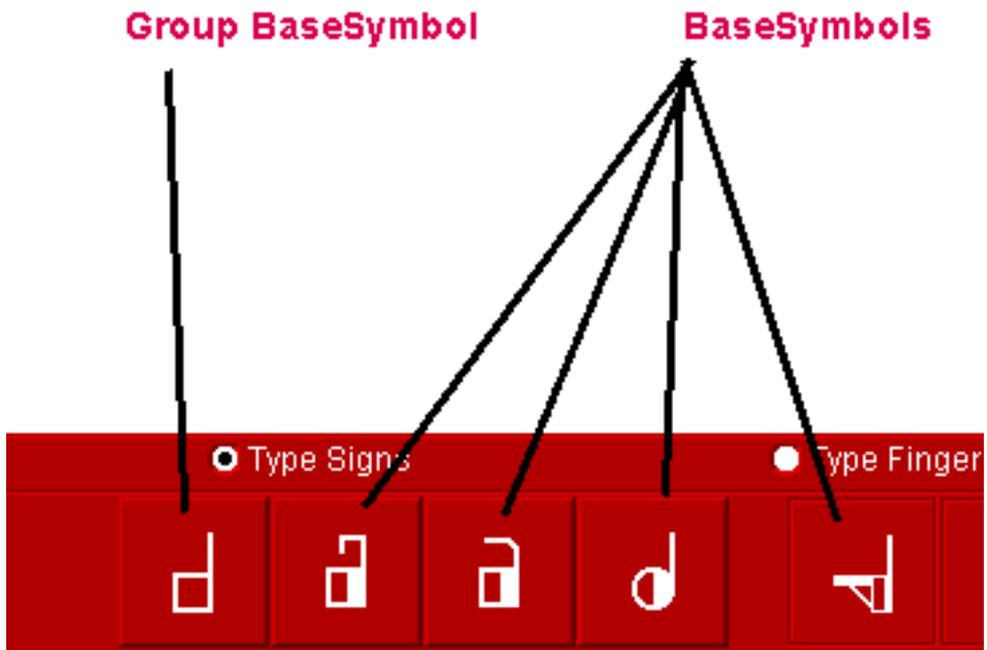


BaseSymbols in SignWriter

Displayed in Key Boxes

SignWriter DOS & Java

BaseSymbols are used in the SignWriter Computer Program, as a part of the design for typing quickly and directly in SignWriting symbols. The BaseSymbols are grouped on keys. When a key is tapped, a row of Key Boxes at the bottom of the screen displays the BaseSymbols in that group. The typist then taps on the desired Key Box, which then shows the rotations for that BaseSymbol.



Group BaseSymbols in SignBank

The SignBank Editor

Group BaseSymbol
01-01-001-01-01-01

BaseSymbols

Group BaseSymbol
01-02-001-01-01-01

BaseSymbols

Group BaseSymbol
01-03-001-01-01-01

SSS

BaseSymbols in SignBank

The SignBank Editor

SSS

Group BaseSymbol
01-01-001-01-01-01

BaseSymbols

Group BaseSymbol
01-02-001-01-01-01

BaseSymbols

Group BaseSymbol
01-03-001-01-01-01

BaseSymbols Used in Symbol-Searches

In the SignBank Portal

Searching For Signs by BaseSymbol

The SignBank Portal includes linguistic search routines. Groups of signs can be found by clicking on BaseSymbols.

The screenshot displays the SignBank Portal interface. At the top, there is a navigation bar with four red circular buttons (left, right, double left, double right) and a search bar labeled "Symbol-At-A-Glance" with a magnifying glass icon. Below the search bar, there are five columns labeled 01, 02, 03, 04, and 05. The main area is a grid of symbols. A red arrow points from the search bar to the first column of symbols. On the left side, there is a vertical sidebar with a home icon at the top, a list of symbols, and a search bar. Below the sidebar, there is a section labeled "cry" with several symbols. At the bottom left, there is a section labeled "File Compare Set" with a magnifying glass icon.

	01	02	03	04	05
one					

Symbol-At-A-Glance

		Symbol-At-A-Glance							
		01	02	03	04	05	06		
		01						01	
		02						02	
		03						03	
		04						04	
		05						05	
		06						06	
		07						07	
		08						08	
		09						09	
		10						10	
		11						11	
		12						12	
		13						13	
		14						14	
		15						15	
		16						16	

6 Fills
Go Across
Left
To Right

16
Rotations
Down in
Vertical
Columns

Symbol-At-A-Glance

Fills & Rotations



Index

01	01	001	01	01	01
Category	Group	Symbol	Variation	Fill	Rotation

6 Fills

16 Rotations



Index

01	01	001	01	01	02
Category	Group	Symbol	Variation	Fill	Rotation



Index

01	01	001	01	01	03
Category	Group	Symbol	Variation	Fill	Rotation



Index

01	01	001	01	01	04
Category	Group	Symbol	Variation	Fill	Rotation



Index

01	01	001	01	01	05
Category	Group	Symbol	Variation	Fill	Rotation



Index

01	01	001	01	01	06
Category	Group	Symbol	Variation	Fill	Rotation



Index

01	01	001	01	01	07
Category	Group	Symbol	Variation	Fill	Rotation



Index

01	01	001	01	01	08
Category	Group	Symbol	Variation	Fill	Rotation

The Fill Key in SSS-2004

Fills are defined differently depending on Symbol Type:

1. Hands

The Fill Key for Hand Symbols changes **Palm Facings**:

←		Symbol-At-A-Glance				→	
01	02	03	04	05	06	01	

2. Contact Symbols & Finger Movements

The Fill Key shows the number of times the contact is made, or the number of times the finger opens - closes.

←		Symbol-At-A-Glance				→	
01	02	03	04	05	06	01	
*	**						

←		Symbol-At-A-Glance				→	
01	02	03	04	05	06	01	

3. Right & Left Movement Arrows

The Fill Key changes right, left and general arrowheads:

Symbol-At-A-Glance					
01	02	03	04	05	06
←	→	↔			
↑	↑	↑			
					01

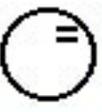
4. Small Movement Arrows That Do Not Show Right & Left

The Fill Key shows the number of times the movement is made, such as singles, doubles, triples and so forth...

Symbol-At-A-Glance					
01	02	03	04	05	06
↑	↑↑	↑↓	↑↑↑	↑↓↑	
↔	↔↔	↔↔↔	↔↔↔↔	↔↔↔↔↔	
↻	↻↻	↻↻↻	↻↻↻↻	↻↻↻↻↻	
↓	↓↓	↓↓↑	↓↓↓	↓↓↓↑	
					01
					02
					03
					04
					05

5. Facial Expressions

The Fill Key changes symmetrical halves of faces:

←		Symbol-At-A-Glance				→	
01	02	03	04	05	06		
						01	
						02	
						03	

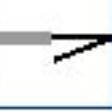
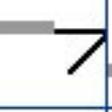
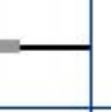
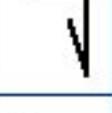
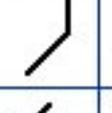
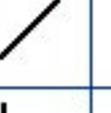
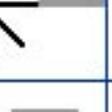
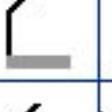
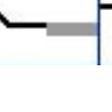
6. Small Related Symbol Changes Involving Contact, Dynamics, or Very Tiny Movements

Facial Expressions or parts that are related to each other, but the only change is something very small:

←		Symbol-At-A-Glance				→	
01	02	03	04	05	06		
						01	

7. Limbs

The Fill Key changes bending degrees in limbs:

←		Symbol-At-A-Glance				→	
01	02	03	04	05	06		
						01	
						02	
						03	
						04	
						05	
						06	
						07	
						08	
						09	

Chapter 4: SSS-2004

Handshape Construction

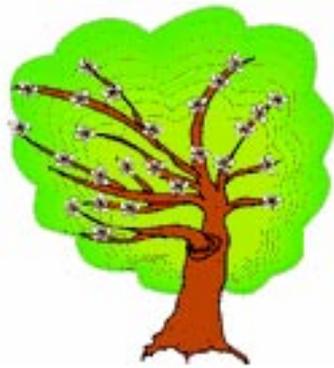
...and Sequencing Guidelines...



Handshape Construction

SignWriting handshapes are built like a tree. Just as a tree has roots, each handshape has a root, or foundation shape, called the Rootshape. There are 15 Rootshapes in the International Movement Writing Alphabet. Most signed languages use around seven.

The Rootshape is determined by the shape of the LOWEST finger in the handshape. Once the Rootshape is established, the lines for the fingers are attached. The finger lines are like the branches of the tree. They are called the Action Fingers. Signers tend to focus on Action Fingers, since they give meaning to the handshape.



Action
Fingers

Rootshape

Rootshape Groups

Rootshape Group 1: Fist-Circle



Rootshape Group 2: Claw-Hook



Rootshape Group 3: Cup-Oval



Rootshape Group 4: Hinge-Angle



Rootshape Group 5: Flat-Relaxed



Rootshape Sequence Chart

	Rootshape 01: Fist Thumb Over
	Rootshape 02: Fist Thumb Under
	Rootshape 03: Fist Thumb Across
	Rootshape 04: Circle
	Rootshape 05: Curlicue
	Rootshape 06: Claw
	Rootshape 07: Hook
	Rootshape 08: Cup
	Rootshape 09: Oval
	Rootshape 10: Hinge
	Rootshape 11: Angle
	Rootshape 12: Flat Thumb Across
	Rootshape 13: Flat
	Rootshape 14: Flat Arch-Back (Dance)
	Rootshape 15: Relaxed (Dance)

Multiple Action Finger Sequence Chart

More than one Action Finger follows this Sequence:



Multiple Fingers 01: Spread



Multiple Fingers 02: Unit (Together)



Multiple Fingers 03: Cross



Multiple Fingers 04: Outside



Multiple Fingers 05: Inside



Multiple Fingers 06: Under



Multiple Fingers 07: Touch Tip



Multiple Fingers 08: Touch Middle



Multiple Fingers 09: Open Small



Multiple Fingers 10: Open Medium



Multiple Fingers 11: Open Large

Individual Action Finger Sequence Chart

One Action Finger follows this Sequence:



Action Finger 01: Straight



Action Finger 02: Bent (Hook)



Action Finger 03: Cup (Curve)



Action Finger 04: Hinge (45 degrees)



Action Finger 05: Angle (90 degrees)



Action Finger 06: Thumb Out to Side



Action Finger 07: Thumb Close Side



Action Finger 08: Thumb Forward

How Handshapes Are Put Into Sequence

Every symbol in the SSS-2004 has a category, group, symbol, variation, fill and rotation number. These numbers are separated by dashes. For example, here is the first symbol in the SSS-2004. It is 01-01-001-01-01-01:



The Symbol numbers are always three digits: 001, 002 etc. The Category, Group, Variation, Fill and Rotation are two digits.

There are 8 categories in the SSS-2004. There are 50 groups. Some groups have a long list of symbols. The Variation number is used to squeeze unexpected new symbols between other ones.

So why is the above symbol 01-01-001-01-01-01? How were the category, group, symbol, variation, fill and rotation numbers determined?

The purpose of this article, is to explain how this sequencing is done, following specific rules for sequencing.

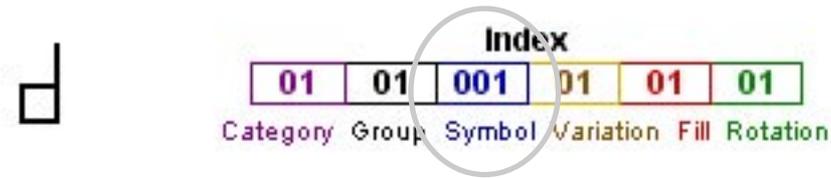
Let us imagine, that we are trying to place the above symbol into sequence. First, we determine the category and group numbers:

1. What is the Action Finger? It is a straight Index Finger.
2. The handshape falls under Category 01: Hands
3. The handshape falls under Group 01-01: Index Finger

How do we determine the Symbol number? Why is it 001? And what about another Index Finger, attached to a different Rootshape?... like a D hand, that has a circle for a base? That is an Index Finger too...Why isn't it 001 instead of the square for a fist? The answer is that there is a Rootshape sequence that is used to give each symbol it's number, in relationship to other symbols in that group.

Giving A Symbol A Symbol Number

How do we determine the Symbol Number for this symbol?:



There is a several-step process:

1. Step-One: Determine the shape of the Action Finger. Is the finger straight, bent, curved, hinged or angled?



Action Finger 01: Straight



Action Finger 02: Bent (Hook)



Action Finger 03: Cup (Curve)



Action Finger 04: Hinge (45 degrees)



Action Finger 05: Angle (90 degrees)

Since this handshape has a straight finger, we know it comes before a handshape with a bent finger. It will be one of the first symbols in the list of symbols in Group 01-01. But we still have to determine its Rootshape...

Giving A Symbol A Symbol Number continued...

2. Step-Two: Determine the shape of the foundation of the handshape. This is called a Rootshape. Is the Rootshape a fist, or a circle, or an angle, etc?...



Rootshape 01: Fist Thumb Over



Rootshape 02: Fist Thumb Under



Rootshape 03: Fist Thumb Across



Rootshape 04: Circle



Rootshape 05: Curlicue



Rootshape 06: Claw



Rootshape 07: Hook



Rootshape 08: Cup



Rootshape 09: Oval



Rootshape 10: Hinge



Rootshape 11: Angle

etc....The complete Rootshape Chart is on a previous page...

Since our handshape has a fist, we know it comes BEFORE a handshape with a circle. It is the first in Rootshape sequence. Next, the new symbol has to be inserted into the existing group of symbols...see Step Three next page...

Giving A Symbol A Symbol Number continued...

3. Step-Three: Now we need to insert the new symbol into the list of handshapes. Since our handshape is the first Action Finger, and the first Rootshape, it comes first in the group. It is 001.

Group 01-01 Index Finger

		Index					
1		01	01	001	01	01	01
		Category	Group	Symbol	Variation	Fill	Rotation
<hr/>							
2		Index on Circle					
		01	01	002	01	02	01
		Category	Group	Symbol	Variation	Fill	Rotation
<hr/>							
3		Index on Angle					
		01	01	003	01	02	03
		Category	Group	Symbol	Variation	Fill	Rotation
<hr/>							
4		IndexBent					
		01	01	004	01	02	01
		Category	Group	Symbol	Variation	Fill	Rotation
<hr/>							
5		IndexCup					
		01	01	005	01	02	01
		Category	Group	Symbol	Variation	Fill	Rotation
<hr/>							
6		IndexHinge					
		01	01	006	01	02	01
		Category	Group	Symbol	Variation	Fill	Rotation
<hr/>							
7		IndexAngle					
		01	01	007	01	02	01
		Category	Group	Symbol	Variation	Fill	Rotation

In Summary

The Rootshape and Action Finger sequences are hidden sequences used to determine the Symbol Number. The charts that list these sequences in this chapter, are only referred to once, to determine where to insert the new handshape. Once the Symbol Number becomes official, it cannot be changed, for the sake of computer standardization. New symbols can be inserted between existing symbols using Variation Numbers.

From the user's point of view, and even from the programmer's point of view, these sequencing details are not to be memorized, since you will not be placing the symbols into sequence yourselves. Mainly the rules just clarify why the sequence is as it is.

The SymbolBank Database, that comes with SignBank for Research Use, is the official source for the SSS-2004. You can search for symbol names and numbers, and print lists of symbols. If you need to clarify a sequence, look it up in SymbolBank!

SymbolBankK.fp5

SSS-2004

Sign-Symbol-Sequence® 2004

Records: 17172
Found: 118
Unsorted

1

Illustration

Symbol

01 Category
01 Group
001 Symbol
01 Variation
01 Fill
01 Rotation

BaseSymbol
 Group-BaseSymbol

Category
Category 01: Hand

Group
Group 01-01: Index Finger

Symbol
Index

Chapter 5: SSS-2004

Keyboard Designs

...Typing Techniques For SignWriter...



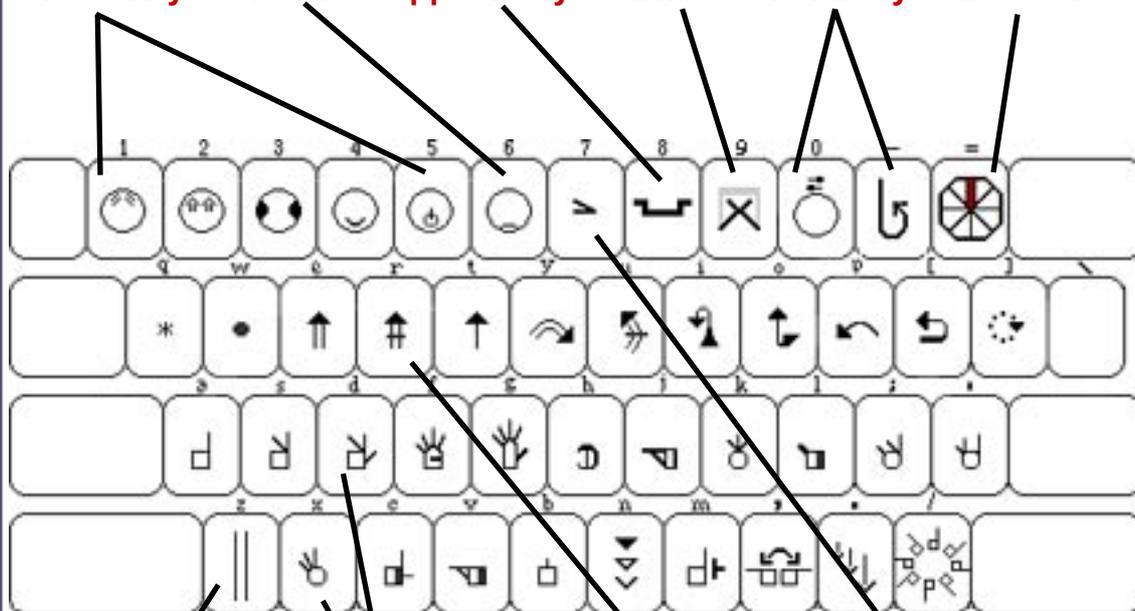
Typing SSS-2004

The International Movement-Writing Keyboard

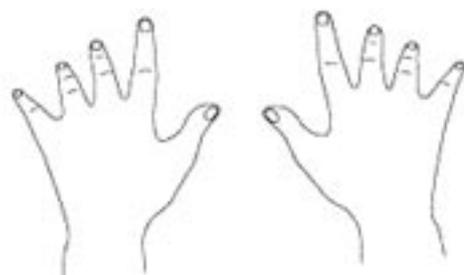
40 Symbol Keys

....50 groups are combined onto 40 keys...

5 Face Keys Head Upper Body Limbs FullBody Location



Punctuation Key 15 Hand Keys 12 Movement Keys Dynamics

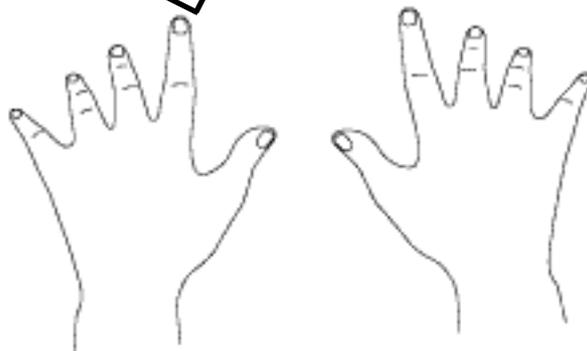
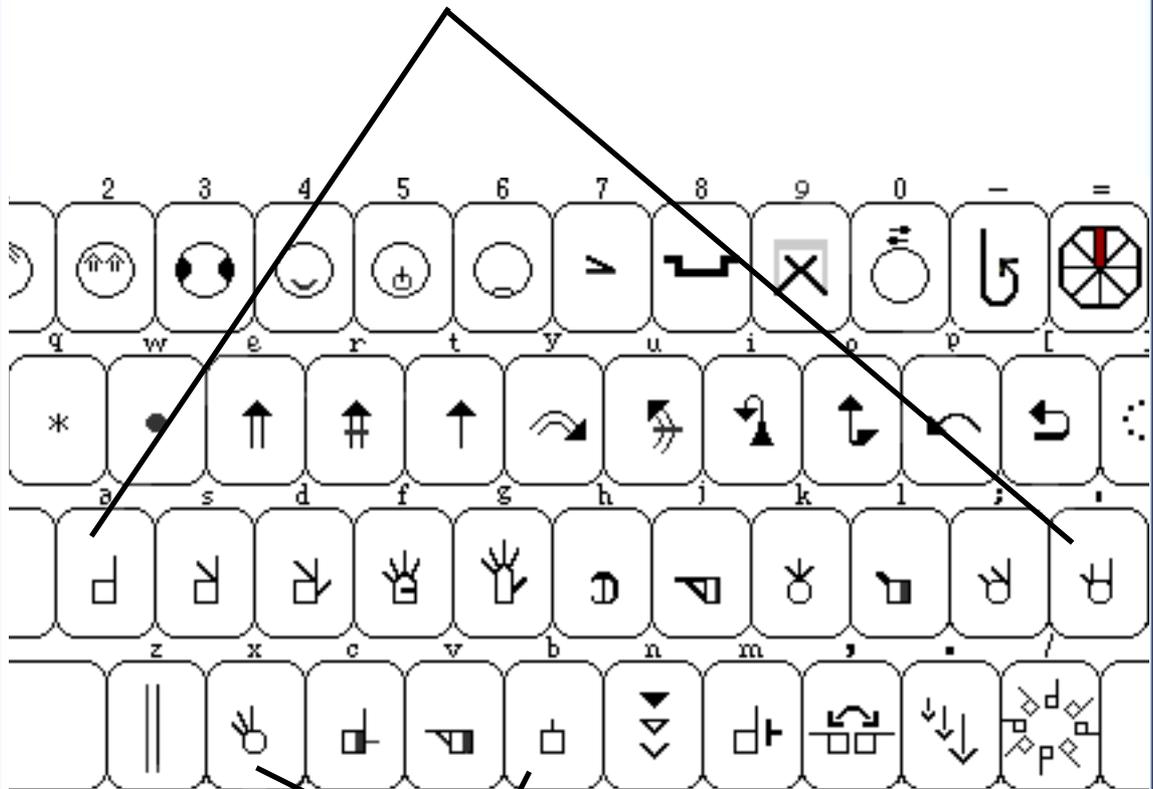


Typing SSS-2004

The International Movement-Writing Keyboard

15 Hand Keys

Extend Across Bottom 2 Rows of SSS-2004 Keyboard



Typing SSS-2004: Keys 01-15

Key names below are based on the US Keyboard.

-  **Key 01** (A Key): Index
-  **Key 02** (S Key): Index Middle
-  **Key 03** (D Key): Index Middle Thumb
-  **Key 04** (F Key): Four Fingers
-  **Key 05** (G Key): Five Fingers
-  **Key 06** (H Key): Claw-Cup
-  **Key 07** (J Key): Oval-Angle
-  **Key 08** (K Key): Baby Finger Down
-  **Key 09** (L Key): Baby Finger Up
-  **Key 10** (; Key): Ring Finger
-  **Key 11** (, Key): Middle Finger
-  **Key 12** (X Key): Middle Ring Baby
-  **Key 13** (C Key): Index-Thumb Up, Others Down
-  **Key 14** (V Key): Index-Thumb Forward, Others Down
-  **Key 15** (B Key): Thumb

Typing SSS-2004: Keys 16-28

Key names below are based on the US Keyboard.

-  **Key 16** (Q Key): Contact
-  **Key 17** (W Key): Finger Movement
-  **Key 18** (E Key): Straight Wall Plane
-  **Key 19** (R Key): Straight Diagonal Plane
-  **Key 20** (T Key): Straight Floor Plane
-  **Key 21** (Y Key): Curves Parallel Wall Plane
-  **Key 22** (U Key): Curves Hit Front Wall
-  **Key 23** (I Key): Curves Hit Ceiling
-  **Key 24** (O Key): Curves Hit Floor
-  **Key 25** (P Key): Curves Parallel Floor Plane
-  **Key 26** ([Key): Curves Hit Side Wall
-  **Key 27** (] Key): Circular Movement
-  **Key 28** (1 Key): Brow & Eyebrows

Typing SSS-2004: Keys 29-40

Key names below are based on the US Keyboard.



Key 29 (2 Key): Eyes & Eyegaze



Key 30 (3 Key): Cheeks, Nose, Breathing



Key 31 (4 Key): Mouth



Key 32 (5 Key): Tongue, Teeth, Jaw



Key 33 (6 Key): Head



Key 34 (8 Key): Upper Body



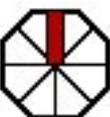
Key 35 (9 Key): Limbs



Key 36 (0 Key): FullBody 1



Key 37 (- Key): FullBody 2



Key 38 (= Key): Location



Key 39 (7 Key): Dynamics



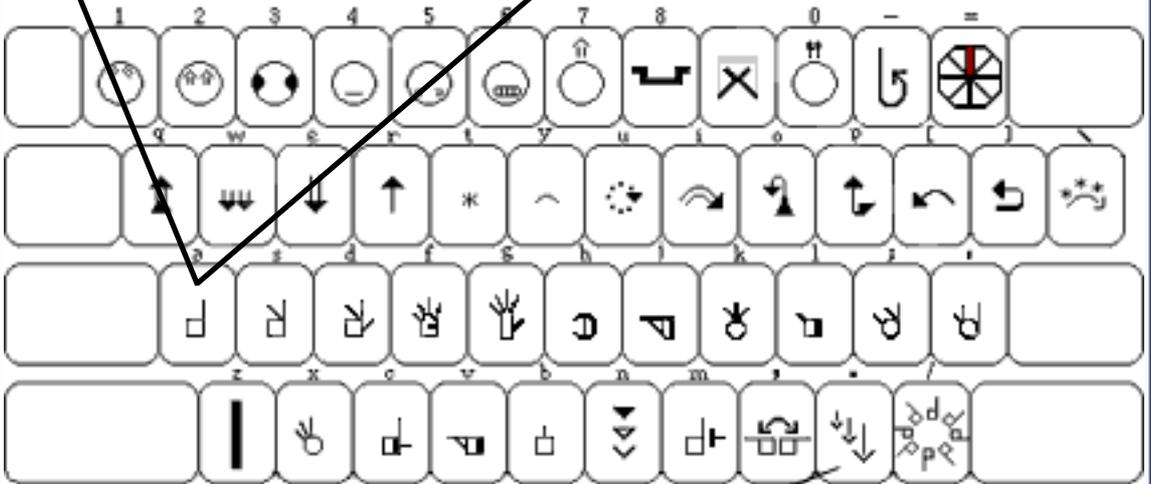
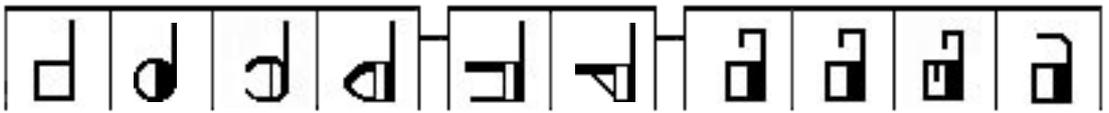
Key 40 (Z Key): Punctuation

Typing SSS-2004

The International Movement-Writing Keyboard

Typing Group 01-01

01-01-001-01
01-01-002-01
01-01-003-01
01-01-004-01
01-01-005-01
01-01-006-01
01-01-007-01
01-01-008-01
01-01-009-01
01-01-010-01



Variations Key



01-01-011-01
01-01-012-01
01-01-013-01