

The Thot Sign-List (TSL)

*A referenced online
hieroglyphic sign-list*

Jorke Grotenhuis (ULiège)
Ingelore Hafemann (BBAW)
Stéphane Polis (F.R.S.-FNRS)

Partners



Luc Desert (IT)
Jorke Grotenhuis
Stéphane Polis
Jean Winand



Vincent Razanajao



Serge Rosmorduc



berlin-brandenburgische
AKADEMIE DER WISSENSCHAFTEN

Ingelore Hafemann
Simon Schweitzer
Lisa Seelau



Sächsische Akademie der Wissenschaften
zu Leipzig

Peter Dils

HUMBOLDT-UNIVERSITÄT ZU BERLIN



Daniel Werning

Introduction

- Identifying the pros and cons of sign-lists in Egyptology
- History of the project: Towards a data-model
- The Thot Sign-List (TSL)




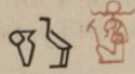

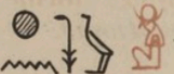

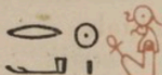
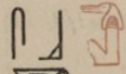
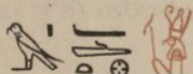
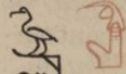
**+ The pros and cons of
hieroglyphic sign-lists**

Sign-lists in Egyptology

■ Jean-François Champollion (1836)















1790-1832










	Нт . нб . нг ,	A tête de <i>bélier</i> .	<i>Chnouphis</i> .
	Нт . нг . нб ,	A tête de <i>bélier</i> sur- montée du <i>disque</i> ,	<i>Chnouphis</i> .
	Нмост . ностм ,	A tête de <i>bélier</i> sur- montée d'un <i>aspic</i> ,	<i>Chnoumis</i> .
	Шпсѡ . ѡѡпс ,	A tête d' <i>épervier</i> sur- montée du <i>disque</i> et du <i>croissant</i> ,	<i>Chons</i> .
	Шпѡ . мпт ,	A tête d' <i>épervier</i> sur- montée du <i>disque</i> et de deux <i>longues</i> <i>plumes</i> ,	<i>Month</i> .
	Рн . прн . фрн ,	A tête d' <i>épervier</i> sur- montée du <i>disque</i> en- touré par un <i>aspic</i> ,	<i>Phré</i> .
	Сѡб . сѡн . сѡк ,	A tête de <i>crocodile</i> ,	<i>Sévék</i> .
	Ѣррѡт ,	A tête d' <i>épervier</i> coiffé du <i>pschent</i> ,	<i>Har-hat</i> .
	Ѣѡѡт ,	A tête d' <i>ibis</i> ,	<i>Thoth</i>













Sign-lists in Egyptology

■ Jean-François Champollion

■ Theinhardt font

- A. 1.  
2. 
3. 
4. 
5.  
6. 
7. 
8.  
9. 
10. 

- A. 17. 
18. 
19. 
20. 
21. 
22. 
23. 
24.  
25. 
26. 

- A. 33. 
34. 
35. 
36.  
37.  
38. 
39. 
40. 
41. 
42. 



























Sign-lists in Egyptology

■ Jean-François Champollion

■ Theinhardt font

■ Gardiner

Sect. A. Man and his Occupations

1		seated man	<p>Ideo. in  <i>s</i> (<i>st</i>)⁰ 'man'. Ideo. or det. 'I', 'me' in  <i>i</i>,  <i>wi</i>,  <i>ink</i>,  <i>kwi</i>. Det. man's relationships or occupations, exx.  <i>st</i> 'son';  <i>smr</i> 'courtier';  <i>hwrw</i> 'wretch';  <i>irr</i> 'doer'; also personal names, ex.  <i>nḥw</i> 'Ankhu'. In personal names,  is abbrev. for  <i>rḥw</i> 'men',¹ ex.  <i>Rḥw-ḥnḥ</i> 'Reḥuḥonkh'.</p> <p>⁰ Very rarely written as <i>st</i>, exx. <i>Urk.</i> v. 179; <i>Mett.</i> 18. ¹ <i>Kec.</i> 9, 57, n. 2.</p>
		seated man and woman with plural strokes	<p>Det. people and their occupations, exx.  <i>rmḫ</i> 'people';  <i>smw</i> 'Asiatics';  <i>mtrw</i> 'witnesses'.</p>
2		man with hand to mouth	<p>Det. eat,¹ exx.  <i>wnm</i> 'eat';  <i>ḥkr</i> 'hungry'; drink, ex.  <i>sw(r)i</i> 'drink'; speak, exx.  <i>sdd</i> 'relate';  <i>gr</i> 'be silent'; think, ex.  <i>ksj</i> 'devise'; feel, ex.  <i>mri</i> 'love'.</p> <p>¹ Old uses, <i>AZ.</i> 57, 73.</p>

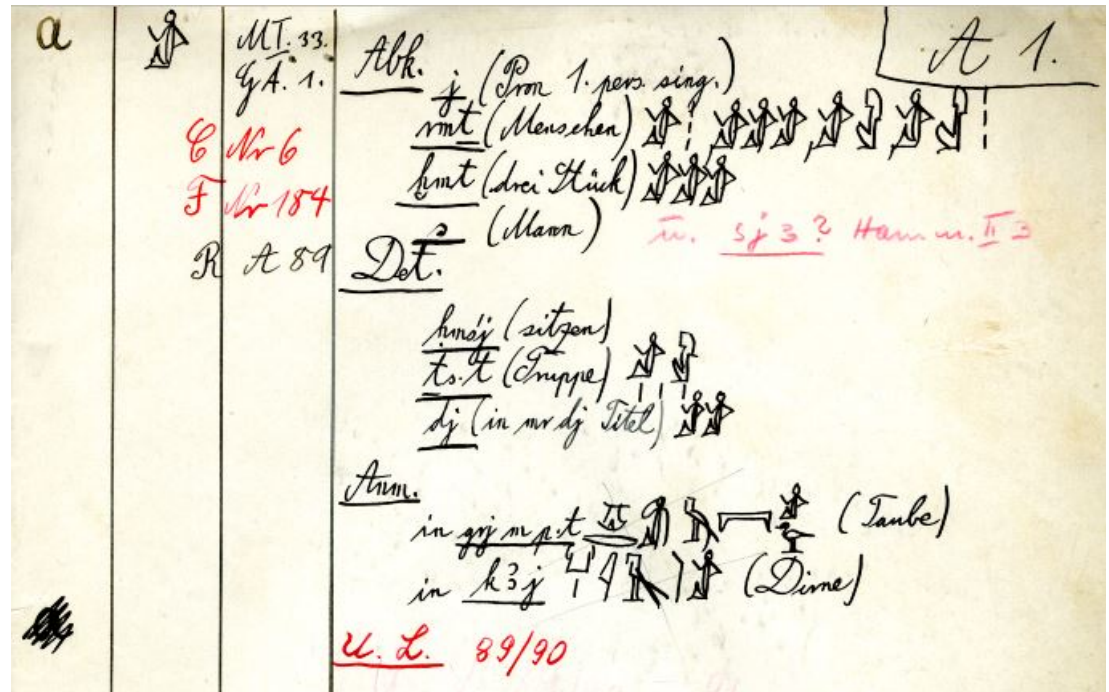
Sign-lists in Egyptology

■ Jean-François Champollion

■ Theinhardt font



■ Gardiner

■ Berliner Zeichenliste





Sign-lists in Egyptology

HOMME ADORANT OU PENCHÉ


(type ,  et var.)

■ Jean-François Champollion


4  221 1,2

5  222 1,2


■ Theinhardt font

6  224 1,2


■ Gardiner

7  225 1,2


■ Berliner Zeichenliste


8  226 1,2


■ IFAO font


9  227 1,2,3

10  1549 b 1

11  228 1,2

12  229 1,2

13  230 1,2

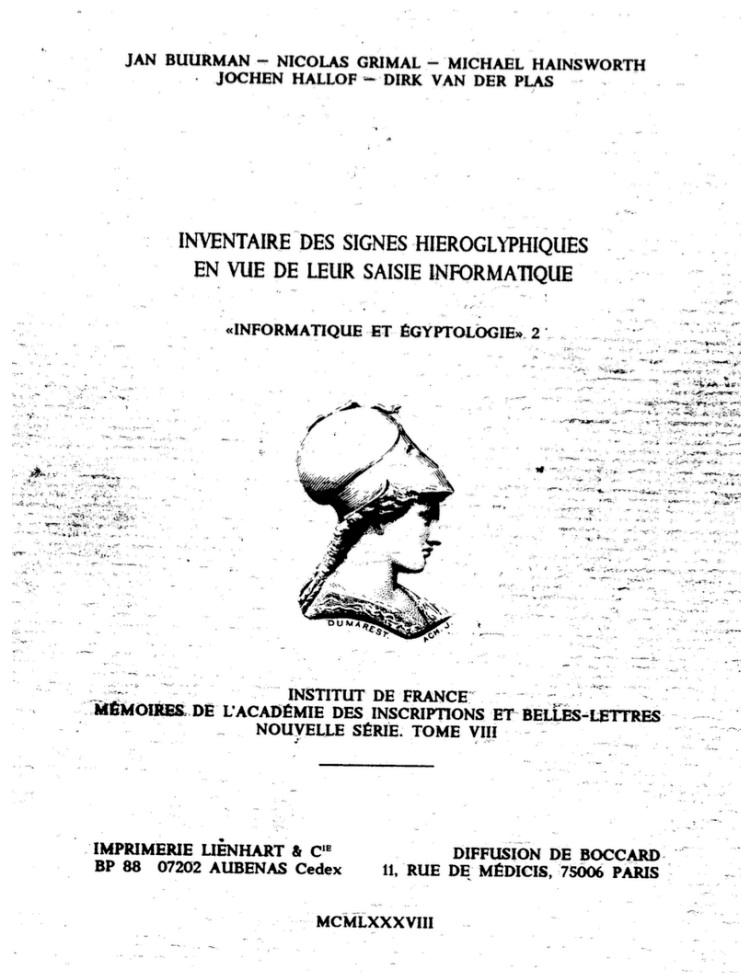
14  231 1,2

Sign-lists in Egyptology

- Many other sign-lists since then
 - Part of Grammars: Allen, Borghouts, Malaise & Winand, Schenkel, Kurth, Leitz
 - Part of Dictionaries: Hannig, van der Molen
 - Paleographical works: Paléographie Hiéroglyphique I-VII, Hibis temple project, ect.
 - Addendum to series: Daumas, Cauville
 - Unpublished: Hornung & Schenkel

Sign-lists in Egyptology

■ Sign-lists for digital encoding: Manuel de Codage



A1						
A1A						
A70						
A71						
A2						
A2A						

Sign-lists in Egyptology

■ Sign-lists for digital encoding: Extended Library

































HIEROGLYPHICA

Sign list - Liste des Signes - Zeichenliste

Extended Library - version 2
january 2000

[B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#) [Aa](#)

A - Man and his Occupations

							
A1	A1A	A1B	A1C	A2	A2A	A3	A3A
							
A3B	A4	A4A	A4B	A4C	A4D	A5	A5A
							
A5B	A6	A6A	A6B	A6C	A6D	A6E	A6F
							
A6G	A6H	A6I	A6J	A6K	A6L	A7	A7A

Sign-lists in Egyptology

■ Sign-lists for digital encoding

- Glyph
- MacScribe
- Winglyph
- JSesh
- Perfectglyph, etc.

Sign-lists in Egyptology

■ To sum up:

- Fonts vs commented sign-lists (esp. with functions)
- Referenced or not
- Iconic information (i.e., what does the sign represent and what matters from an iconic point of view) or not
- Paleographical information (esp. with diachronic purposes, e.g., first use of the sign, first appearance of function 'x', etc.) or not

Sign-lists in Egyptology

- The **negative** aspects of existing sign-lists

- *Functions* Gardiner A11:



phonetic value : *hnms*

Sign-lists in Egyptology

■ The **negative** aspects of existing sign-lists

■ *Functions* Gardiner A11:



phonetic value : *hnms*

■ Gardiner's sources and references:

■ Davies, Ptah. I, no.8:
Logogram



Sign-lists in Egyptology

■ The **negative** aspects of existing sign-lists

- *Functions* Gardiner A11:  phonetic value : *hnms*

■ Gardiner's sources and references:

- Davies, Ptah. I, no.8:
Logogram



- Saq. Mast. I, 23
Classifier



Sign-lists in Egyptology

■ The **negative** aspects of existing sign-lists

- *Functions* Gardiner A11:  phonetic value : *hnms*

■ Gardiner's sources and references:

- Davies, Ptah. I, no.8:
Logogram  
- Saq. Mast. I, 23
Classifier   
A56 ≠ A11

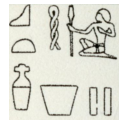
Sign-lists in Egyptology

■ The **negative** aspects of existing sign-lists

■ *Functions* Gardiner A11:  phonetic value : *hnms*

■ *Diachronic information* – Old Kingdom

■ Common: seated man with sceptor



Sign-lists in Egyptology

■ The **negative** aspects of existing sign-lists

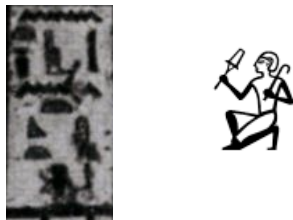
■ *Functions* Gardiner A11:  phonetic value : *hnms*

■ *Diachronic information* – Old Kingdom

■ Common: seated man with sceptor



■ Rare: seated man with sceptor and stick



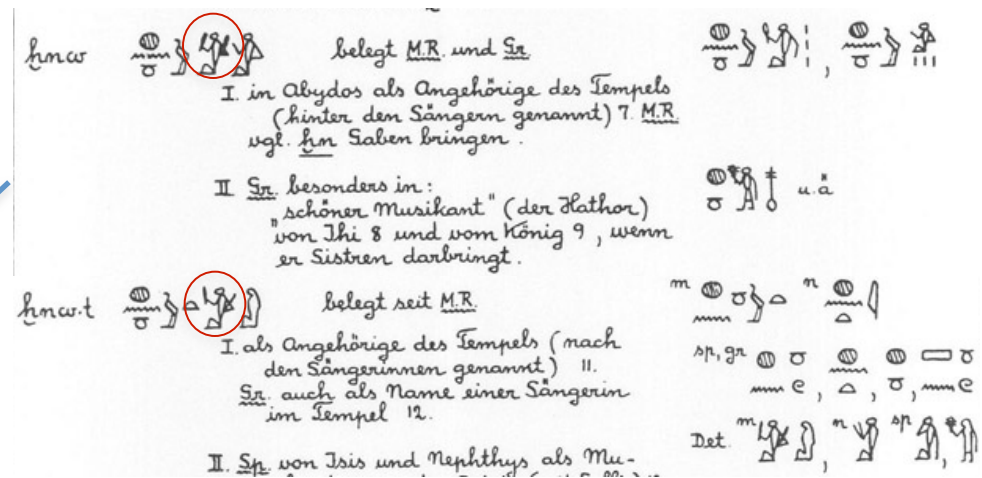
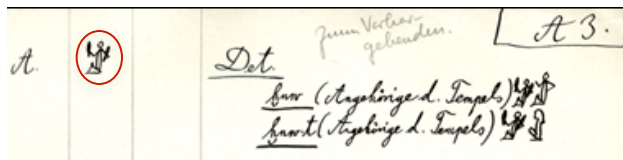
Sign-lists in Egyptology

■ The **negative** aspects of existing sign-lists

■ The case of A482

WB-sign list (1935)

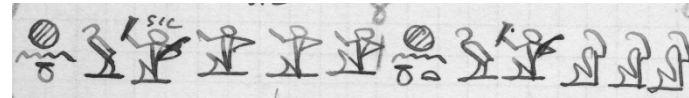
WB 3, 286. 8-9, 11-13



Sign-lists in Egyptology

Source: Turin Cat. 1447 (WB archive)

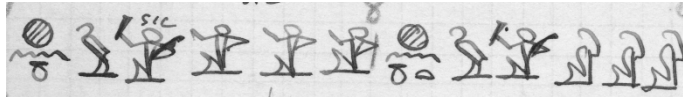
1. Turin 229 49 Grosse Totenstele 11. 12. 8. J. v. Chr.
 1. Oben f. 286, 17
 2. darunter:



Sign-lists in Egyptology

Source: Turin Cat. 1447 (WB archive)

1. Turin 729 49 Grosse Totenstele 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 846. 847. 848. 849. 850. 851. 852. 853. 854. 855. 856. 857. 858. 859. 860. 861. 862. 863. 864. 865. 866. 867. 868. 869. 870. 871. 872. 873. 874. 875. 876. 877. 878. 879. 880. 881. 882. 883. 884. 885. 886. 887. 888. 889. 890. 891. 892. 893. 894. 895. 896. 897. 898. 899. 900. 901. 902. 903. 904. 905. 906. 907. 908. 909. 910. 911. 912. 913. 914. 915. 916. 917. 918. 919. 920. 921. 922. 923. 924. 925. 926. 927. 928. 929. 930. 931. 932. 933. 934. 935. 936. 937. 938. 939. 940. 941. 942. 943. 944. 945. 946. 947. 948. 949. 950. 951. 952. 953. 954. 955. 956. 957. 958. 959. 960. 961. 962. 963. 964. 965. 966. 967. 968. 969. 970. 971. 972. 973. 974. 975. 976. 977. 978. 979. 980. 981. 982. 983. 984. 985. 986. 987. 988. 989. 990. 991. 992. 993. 994. 995. 996. 997. 998. 999. 1000.



Incorrect: actually a seated man with two sistrums !

knwt : Musi-
 Vielleicht mit :
 identisch. Kantin, Tänzerin o.ä.
 Schreibung: ; nR ;
 spät u. griech. ;
 und .

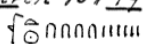







Rev. 18

K.

Det. (Mann mit Kestag-
 netten?); nR. , spät , griech.

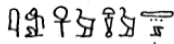
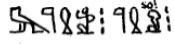


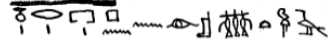


Sign-lists in Egyptology

1) Turin 729 49 Grosse Totenstele 11.66 Spalte
 1. Oben: 
 2. Darunter:






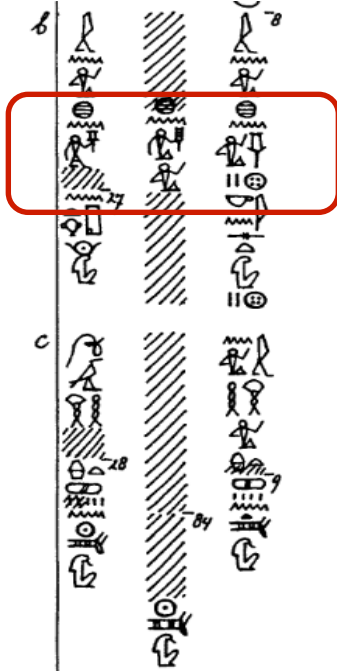
~~286, 17~~ ^{kn-w}

other sources of this word show
 a sitting man with a sceptre



115] Kairo 20026. Grabstein, m. R.
 [Der Tote sagt:]







 0 ihr
 Priester und
 Priestinnen
 in diesem Tempel des
 Osiris
 die ihr in ihm Zere-
 monien verrichtet für
 ihre (!) Edlen,
 Sprecht: (folgt Totenformel)

~~286, 17~~ ^{kn-w}




Sign-lists in Egyptology

■ Additions and corrections needed:



A11 : Not the prototypical image of the sign, but a variant



A482 : Does not exist, should be replaced by a sign of a seated man holding 2 sistrums, with the function [Classifier: musician]


Sign-lists in Egyptology

■ The positive dimensions of existing sign-lists

- Functions
- Sources and references
- Diachronic information

■ Addition needed

- Description of the signs and standardization principles
- Collection of forms and analysis of the variation
- Harmonizing the codes



+ History of the project:
Towards a data-model

Réviser le codage de l'égyptien ancien

Vers un répertoire partagé des signes hiéroglyphiques

Stéphane Polis¹, Serge Rosmorduc²

1. Fonds National de la Recherche Scientifique – Université de Liège
Département des Sciences l'Antiquité
Place du XX Août, 7
B-4000 Liège, Belgique
s.polis@ulg.ac.be

2. Cédric/ILJ/Conservatoire National des Arts et Métiers
Rue Conté, 2
75003 Paris, France
serge.rosmorduc@cnam.fr

RÉSUMÉ. Nous proposons de réviser le codage de l'égyptien ancien qui repose sur un standard nommé « manuel de codage » (1988) ne répondant pas aux besoins actuels dans la création de corpus hiéroglyphiques. Une analyse des 60 000 graphies du corpus Ramsès nous permet de faire deux propositions concrètes concernant, d'une part, les principes présidant à l'encodage des graphies hiéroglyphiques dans les corpus annotés et, d'autre part, la nécessaire refonte du répertoire des signes hiéroglyphiques.

ABSTRACT. Based on an analysis of the 60 000 spellings found in the Ramses corpus, we show that the encoding scheme that is used for hieroglyphic texts, known as the Manuel de Codage (1988), is problematic for the development of text corpora in general. We consequently (1) argue in favour of basic principles that should be followed when encoding hieroglyphic texts in the framework of corpus projects, and (2) suggest guidelines for a new encoding scheme, especially with respect to the structure of the sign-list.

MOTS-CLÉS : hiéroglyphes, encodage, Unicode, liste de signe, égyptien ancien.

KEYWORDS: hieroglyphs, encoding, Unicode, sign-list, Ancient Egyptian.



Gestion informatisée des écritures anciennes

sous la direction de
Christine Bénévent
Rémi Jimenes
Guillaume Sarah

The data-model

Dictionnaire hiéroglyphique, inventaire des hiéroglyphes et Unicode

Dimitri Meeks

CNRS. Directeur de recherche honoraire
19 rue Gamay, 34980 Saint-Clément-de-Rivière. France
dimitri.meeks@wanadoo.fr

RÉSUMÉ. Le standard Unicode pour les hiéroglyphes égyptiens a été validé en 2009 après des années de débats sans que pourtant l'ensemble de la communauté des égyptologues ait été associée au processus. L'Unicode actuel valide quelque 1200 caractères, les plus usités de la période classique. Son extension n'est pas envisagée dans l'immédiat. Si, toutefois, on souhaite travailler sur l'ensemble des textes hiéroglyphiques, de l'époque archaïque aux époques hellénistique et romaine, c'est de plus de 10 000 caractères qu'il faudrait disposer, un objectif que l'Unicode ne se propose en aucun cas d'atteindre. Je travaille actuellement à l'élaboration d'un dictionnaire de l'égyptien ancien, sous forme d'une base de données lexicales, ainsi qu'à une base de données inventoriant l'ensemble des hiéroglyphes. Ces deux bases se fondent sur la documentation lexicale et paléographique que j'ai rassemblée au cours des quarante dernières années, la seconde ayant vocation à dresser un catalogue aussi exhaustif que possible des caractères hiéroglyphiques actuellement connus à partir des monuments publiés en photographie ou en facsimilé. C'est un travail qui n'a jamais été entrepris par l'égyptologie depuis le déchiffrement des hiéroglyphes par Champollion en 1822. Une fois achevé, il servira de base à la constitution d'une fonte numérique couvrant tous les besoins de la recherche, quelle que soit la période de l'écriture envisagée. C'est aussi sur cette fonte que s'appuiera le dictionnaire pour la rédaction de ses notices.

ABSTRACT. The Unicode standard for Egyptian hieroglyphs was validated in 2009 after years of debate, though the whole community of egyptologists was not associated to the process. As to the present time, Unicode validates the most common 1200 characters of the classical period. No extension is planned in a near future. However, if one needs to work on hieroglyphic texts as a whole, conspicuously more than 10 000 characters are needed, a goal Unicode certainly do not intend to achieve. I am currently working on a dictionary of ancient Egyptian, taking on the form of a lexical data base, and on another data base inventorying all the hieroglyphs. Both are based upon the lexical and palaeographical documentation I collected over the past forty years, the last being intended to produce a catalogue as exhaustive as possible of all hieroglyphs presently known from publications in photographs or facsimiles. This work was never undertaken by egyptology since the decipherment of hieroglyphs by Champollion in 1822. Once completed it will serve as a source for a new digital font meeting all the requirements of the research, no matter which period of the writing is taken into account. This font will ultimately be used for the editorial work on the dictionary.



**Document
numérique**

RSTI série DN • Volume 16 – n° 3/2013

Gestion informatisée des écritures anciennes

sous la direction de
Christine Bénévent
Rémi Jimenes
Guillaume Sarah

hermes

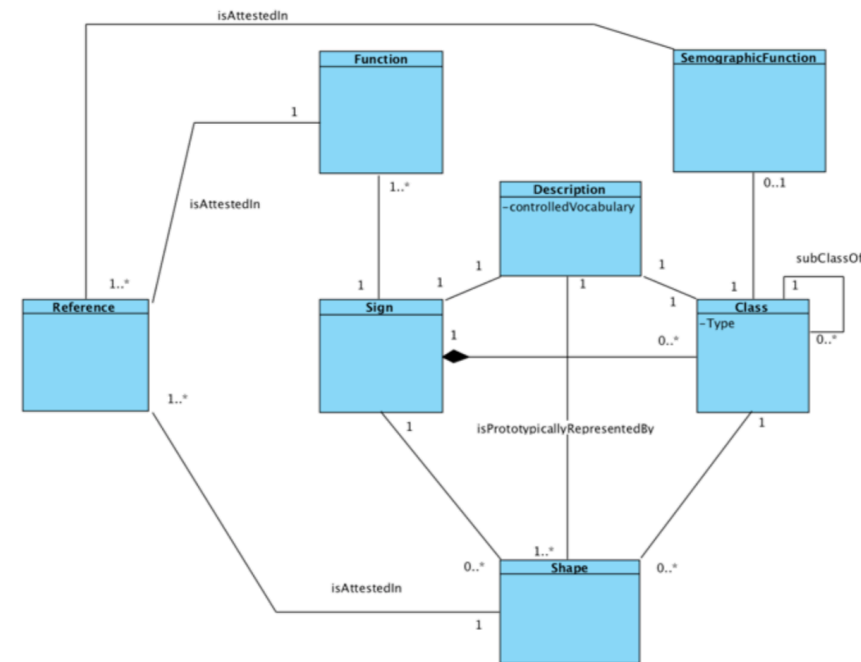
Lavoisier

The data-model

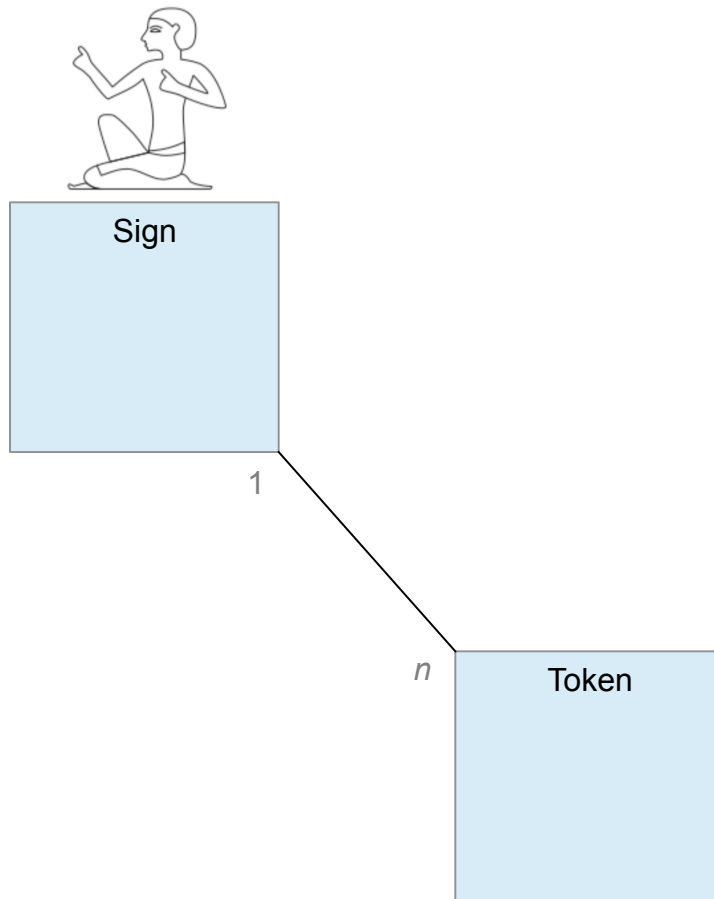
The Thot Sign List (TSL) & hieroglyphic encoding

St. Polis & S. Rosmorduc

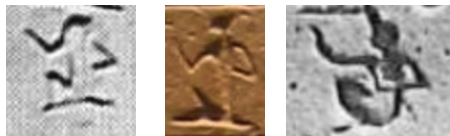
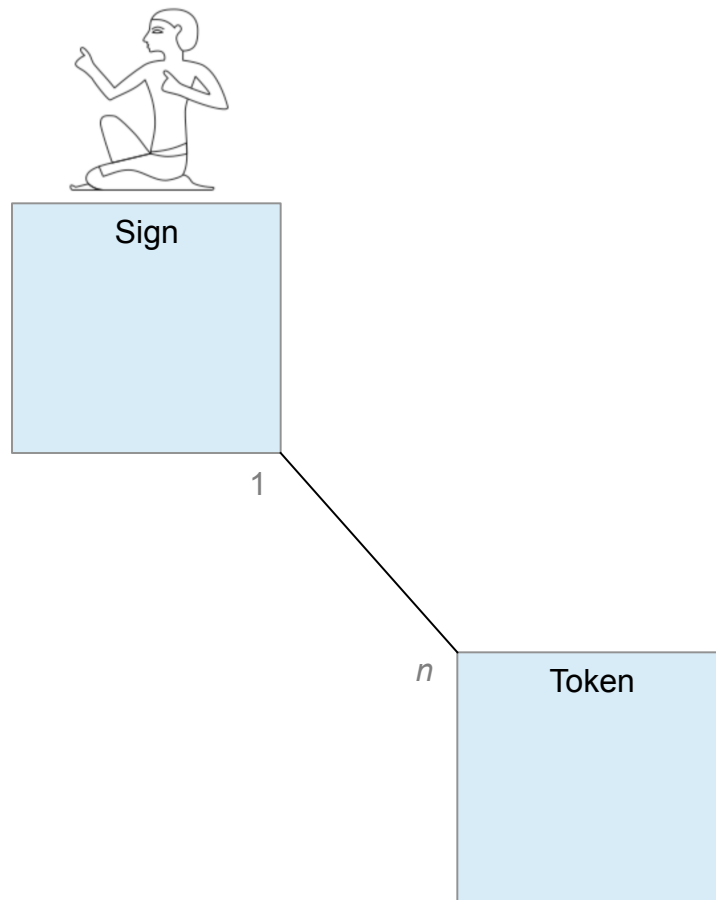
Informatique et Égyptologie, Cambridge (July 2016)



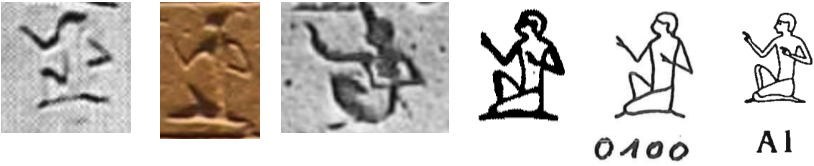
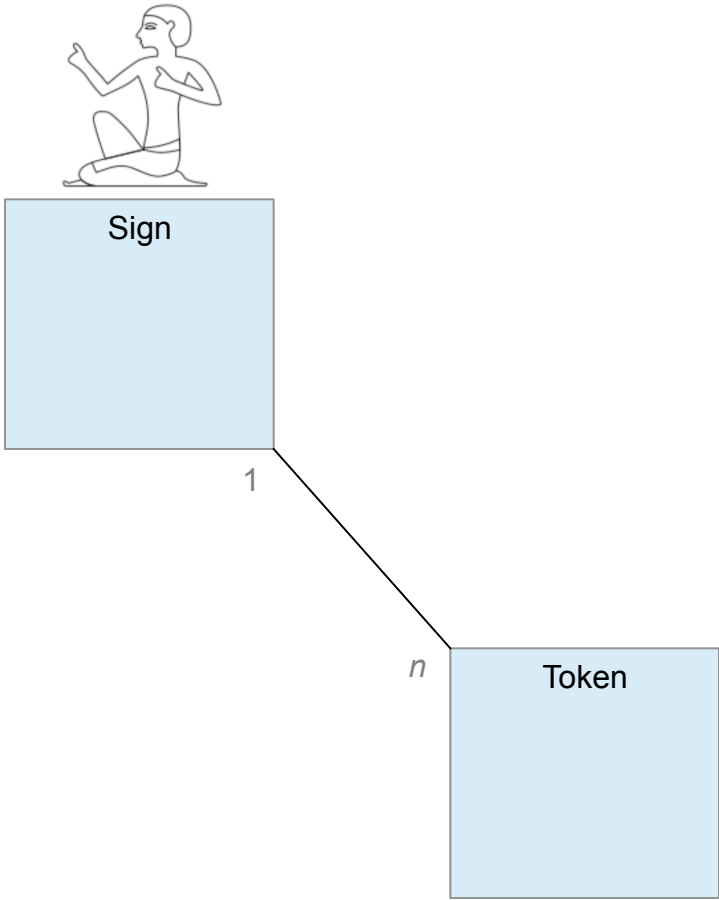
The data-model



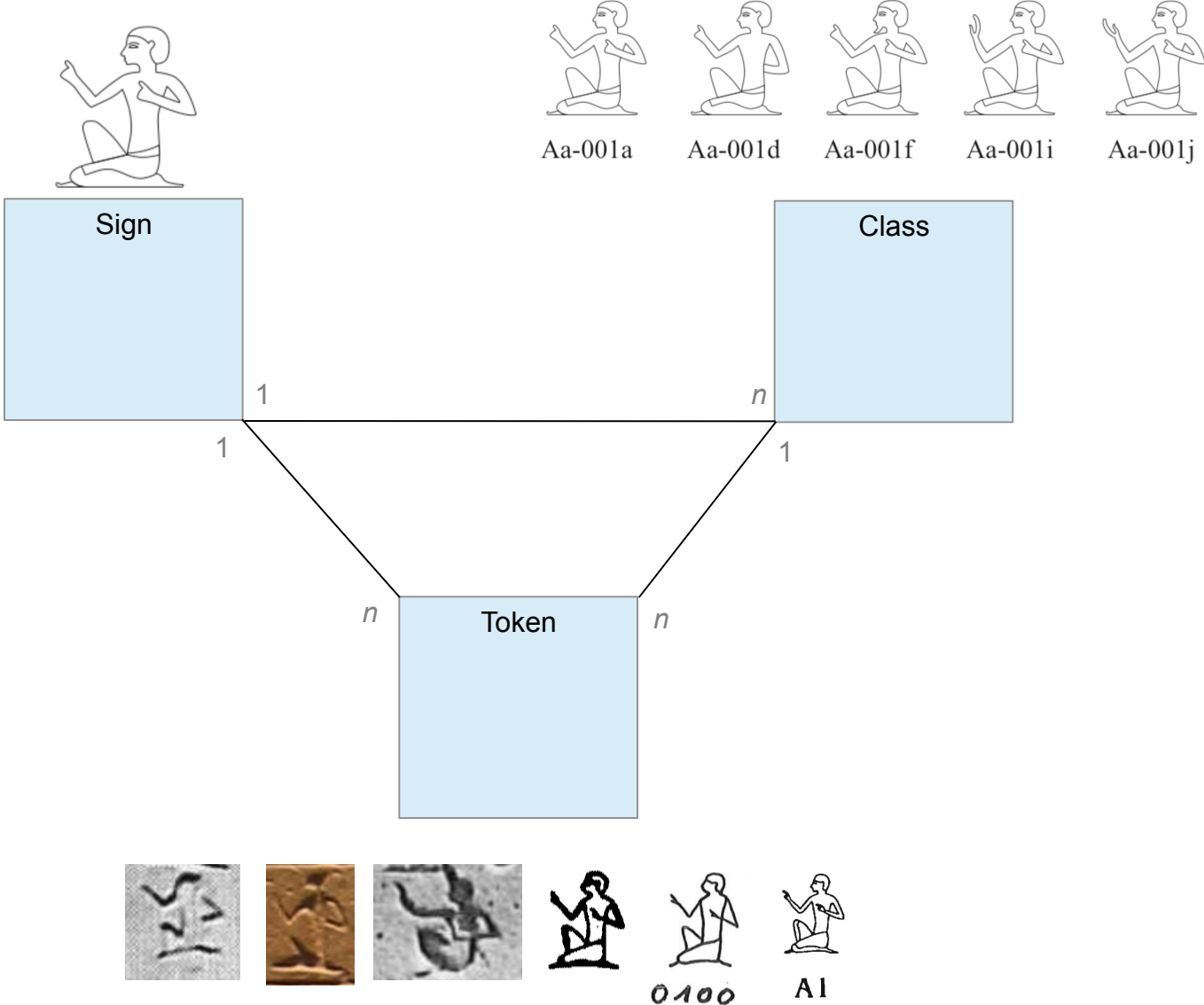
The data-model



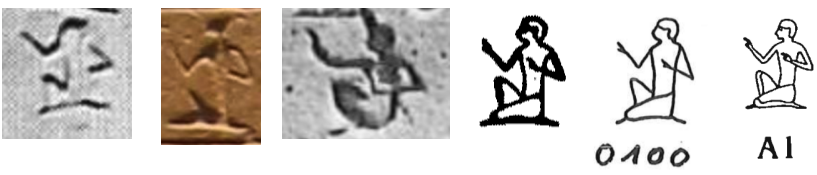
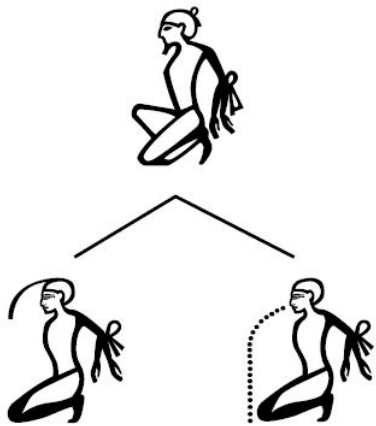
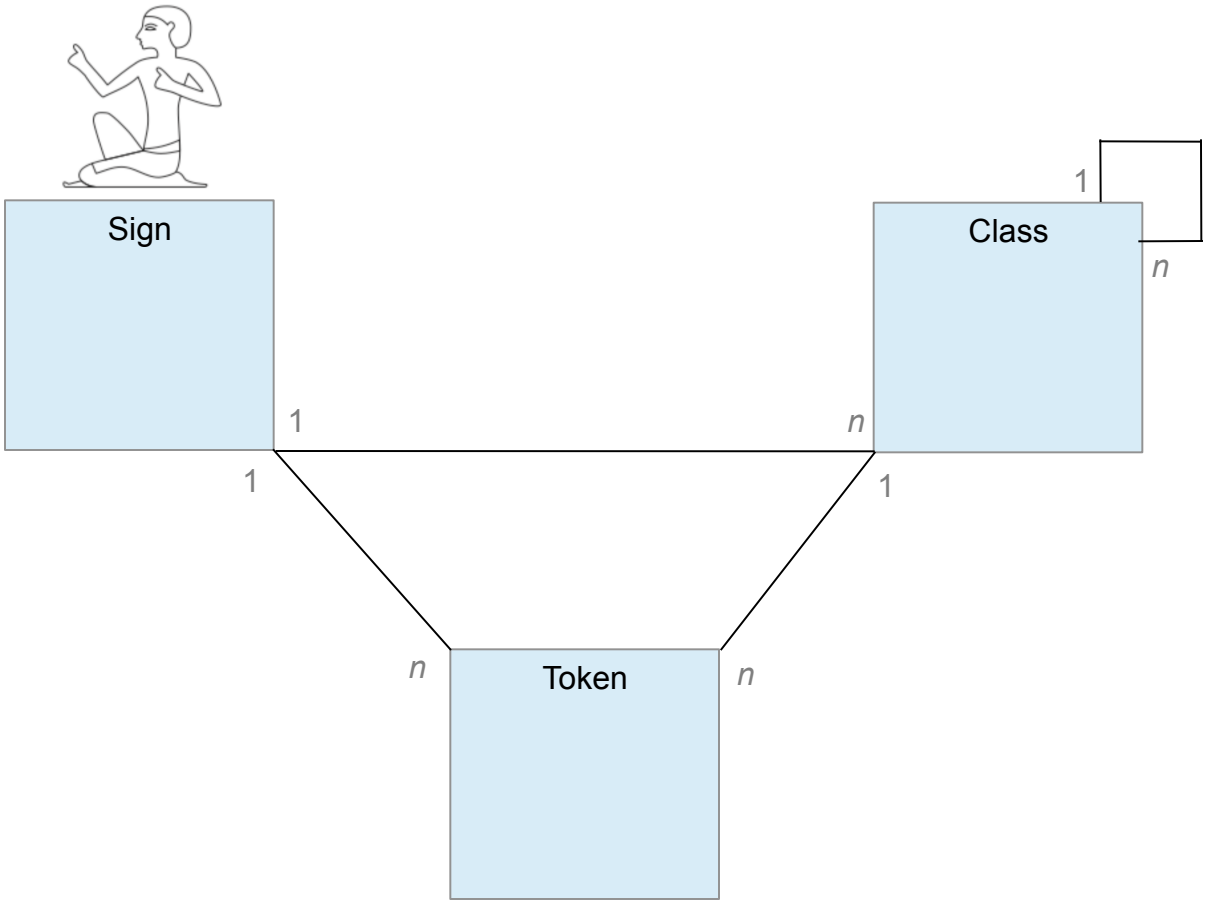
The data-model



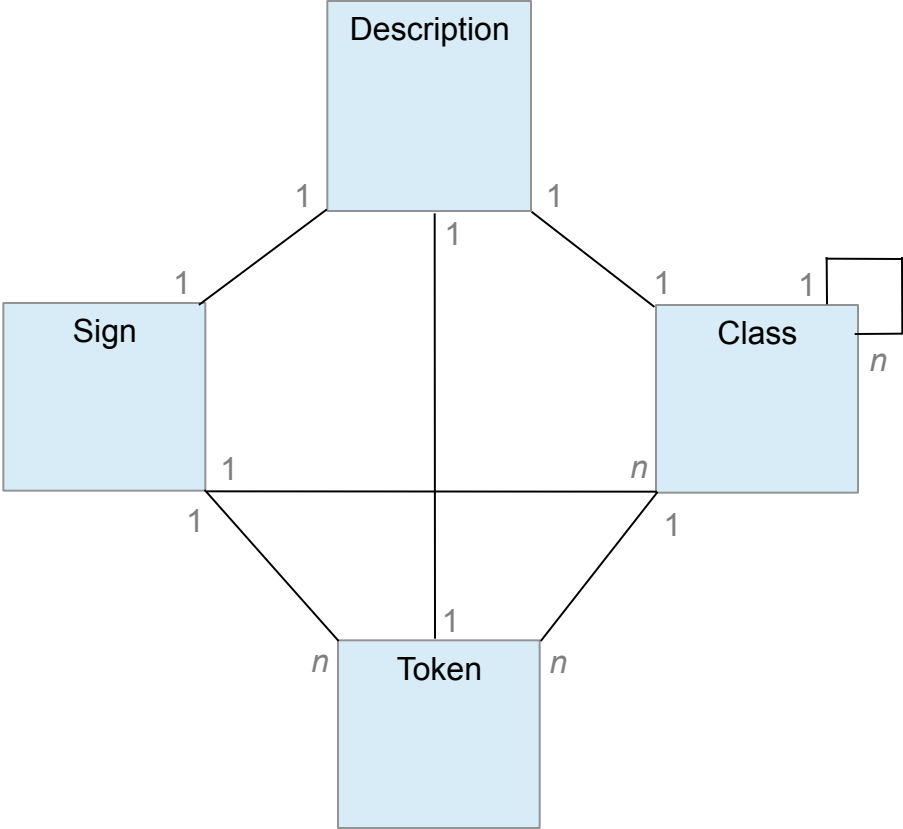
The data-model



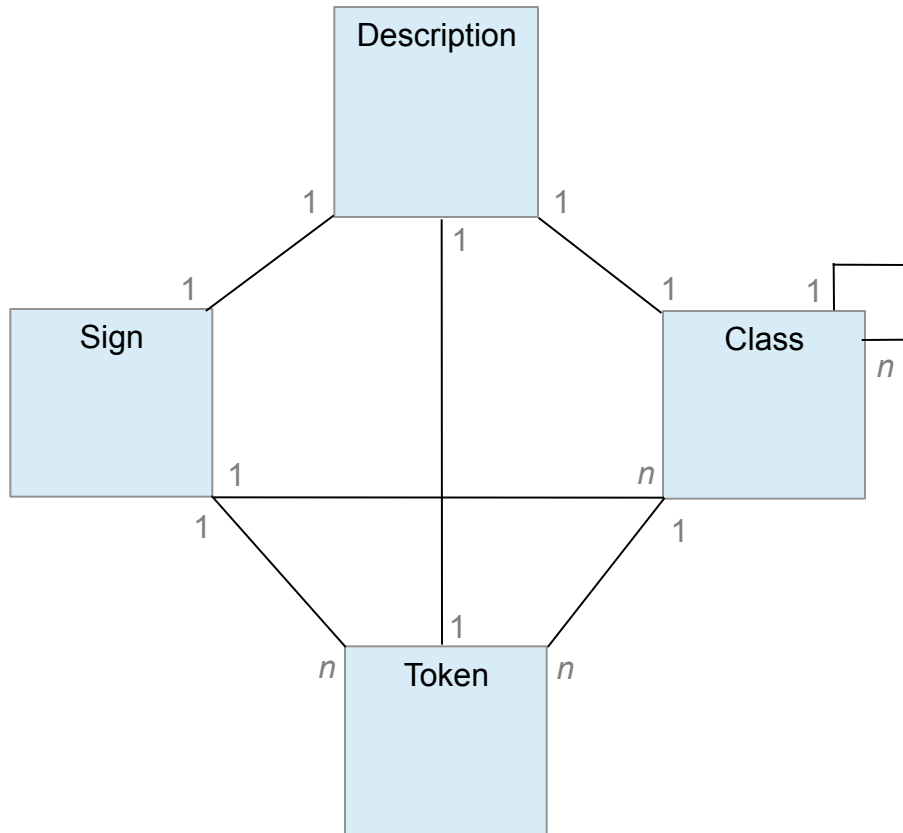
The data-model



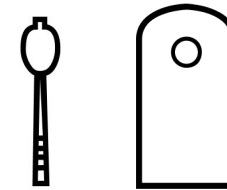
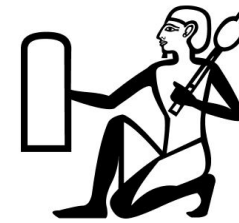
The data-model



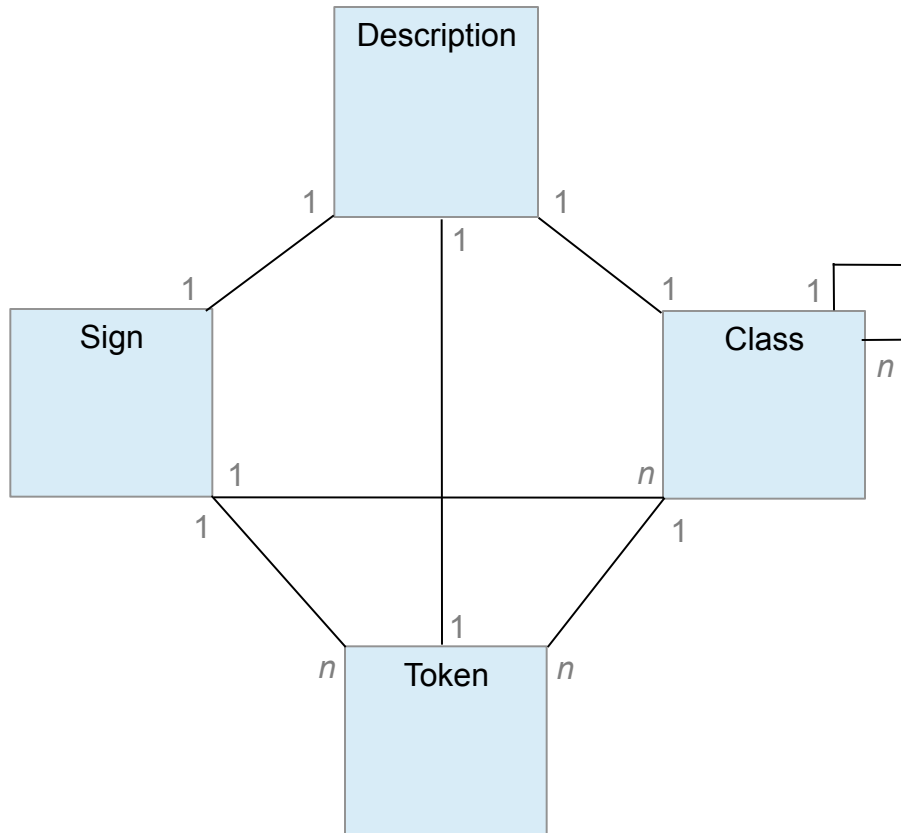
The data-model



Description
•Components

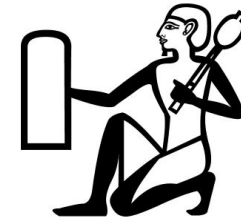


The data-model



Description

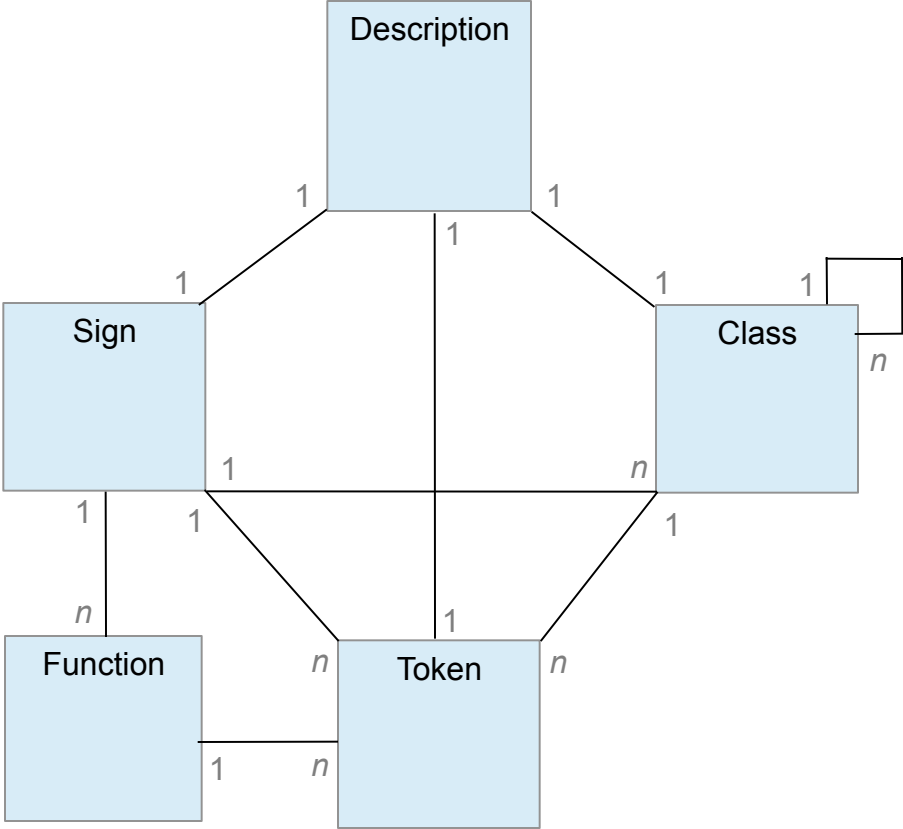
- Components
- Controlled vocabulary



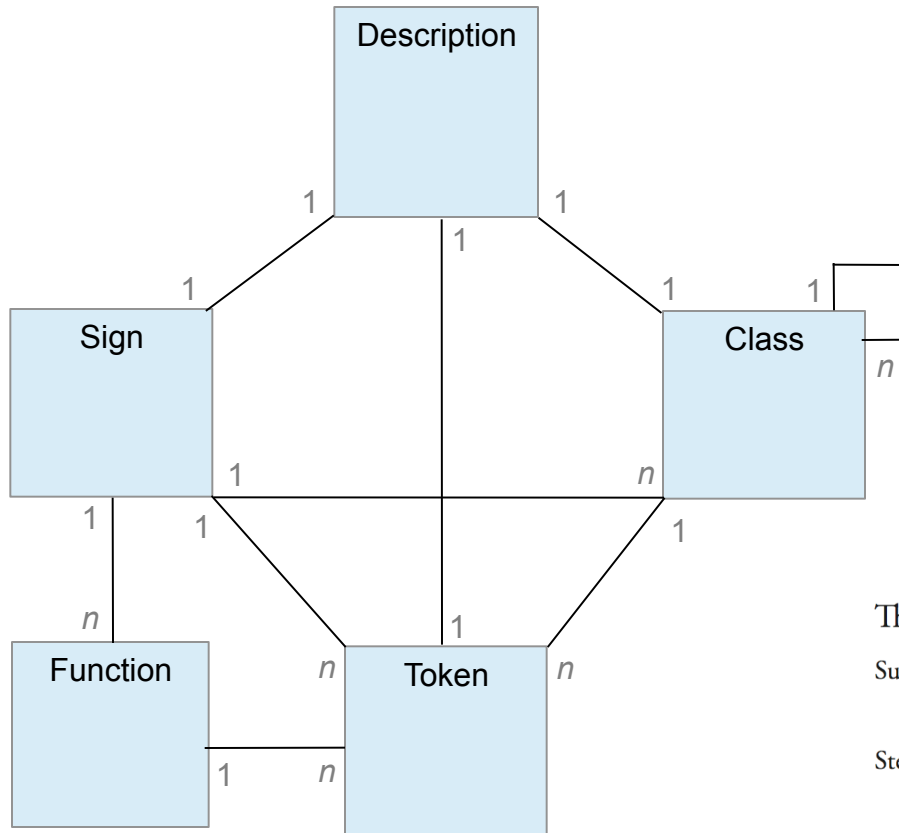
List of Tags

captivated - ennemy -
holding nothing - kneeled -

The data-model



The data-model



The Hieroglyphic Sign Functions¹

Suggestions for a Revised Taxonomy

Stéphane Polis/Serge Rosmorduc

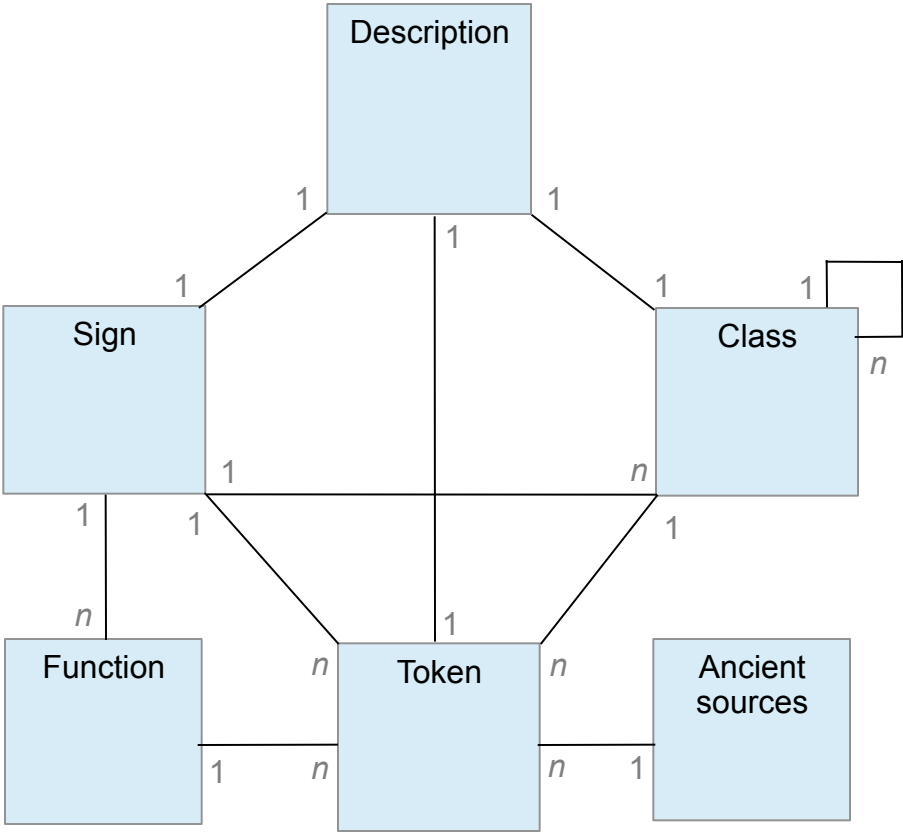
Abstract

The aim of this paper is to suggest a taxonomy that allows for a systematic description of the functions that can be fulfilled by hieroglyphic signs. Taking as a point of departure the insights of several studies that have been published on the topic since Champollion, we suggest that three key-features – namely, semography, phonemography and autonomy – are needed in order to provide a description of the glottic functions of the ancient Egyptian graphemes. Combining these paradigmatic and syntagmatic features, six core functions can be identified for the hieroglyphic signs: they may behave as pictograms, logograms, phonograms, classifiers, radicograms or interpretants. In a second step, we provide a definition for each function and discuss examples that illustrate the fuzziness between these core semiotic categories.

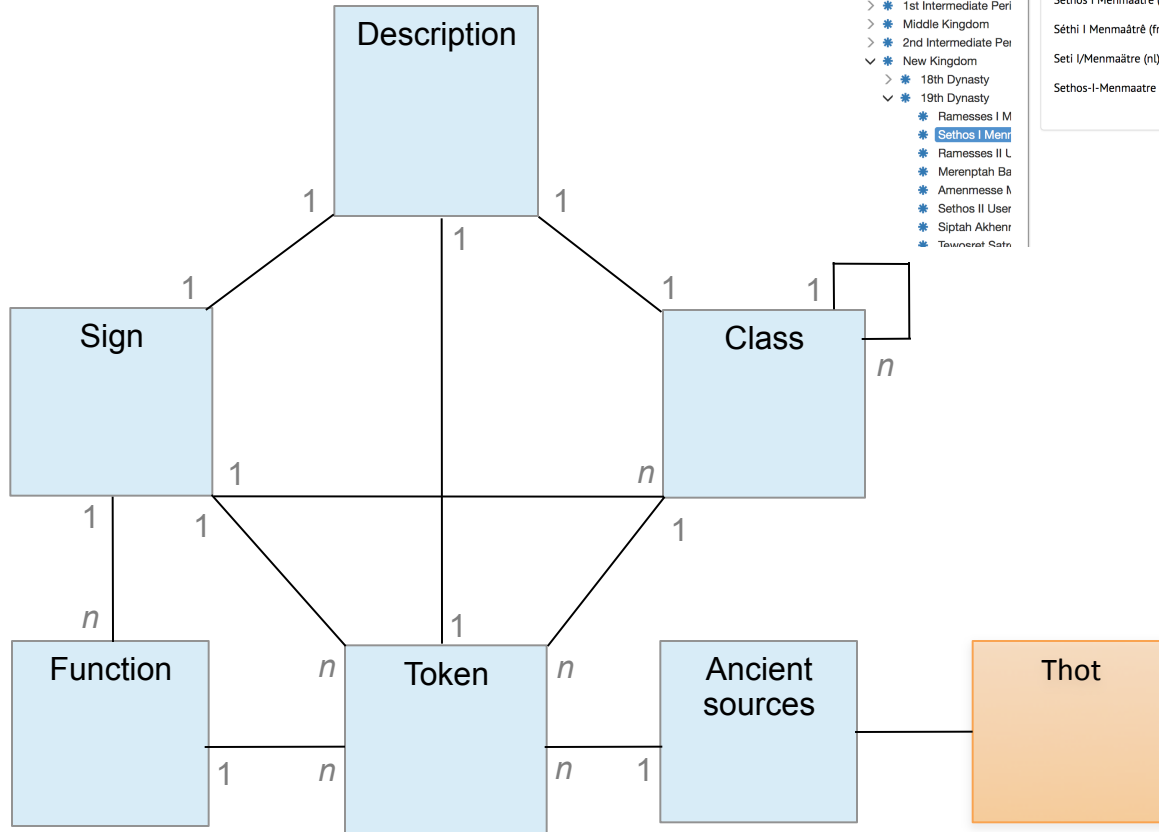
	+ SEMOGRAM		– SEMOGRAM
AUTONOMOUS	Pictogram	Logogram	Phonogram
NON-AUTONOMOUS	Classifier	Radicogram	Interpretant
	– PHONEMOGRAM	+ PHONEMOGRAM	

Fig. 10 A taxonomy of the hieroglyphic sign functions

The data-model



The data-model



- Filter concepts in curre
- Thot Collections
 - Dates and dating systems
 - Periods
 - Prehistoric and predyna
 - Pharaonic Period
 - Early Dynastic Period
 - Old Kingdom
 - 1st Intermediate Peri
 - Middle Kingdom
 - 2nd Intermediate Peri
 - New Kingdom
 - 18th Dynasty
 - 19th Dynasty
 - Ramesses I M
 - Sethos I Men**
 - Ramesses II L
 - Merenptah Ba
 - Armenesse I
 - Sethos II User
 - Siptah Akhenr
 - Toumenot Sate

URI <http://thot.philo.ulg.ac.be/concept/thot-385>

Preferred Terms <small>(skos:prefLabel)</small> <ul style="list-style-type: none"> Sethos I. Menmaatre (de) Sethos I Menmaatre (en) Séthi I Menmaître (fr) Seti I/Menmaître (nl) Sethos-I-Menmaatre (xml) 	Broader Terms <small>(skos:broader)</small> <ul style="list-style-type: none"> 19th Dynasty
Temporal Extent <small>(time:TemporalEntity)</small> <ul style="list-style-type: none"> 1290 - 1279 BC 	
Exact match <small>(skos:exactMatch)</small> <ul style="list-style-type: none"> MET-test 04/0284/3 (SETHOS I_MENMAATRE) ↗ 	



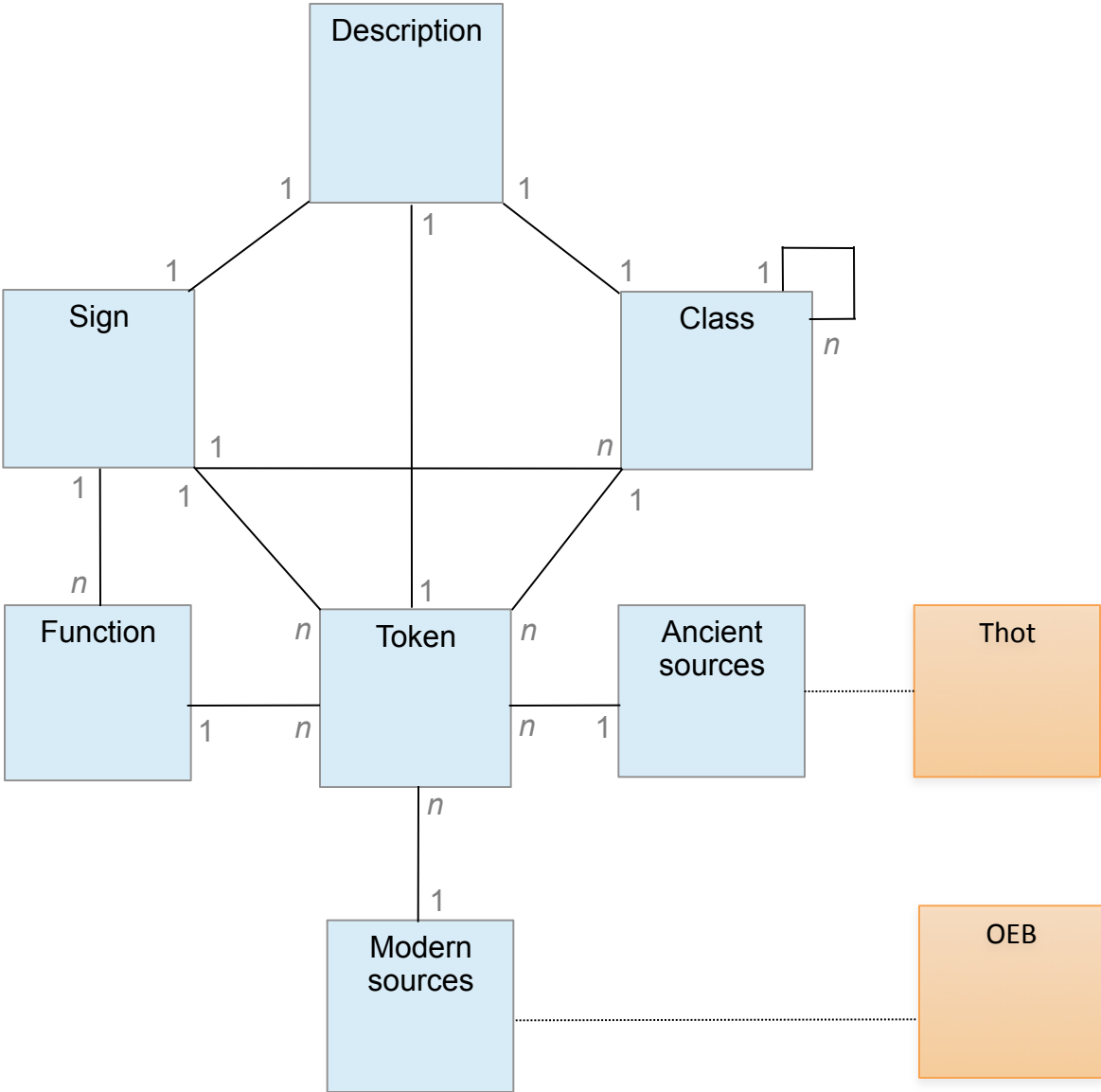
THOT - THESAURI & ONTOLOGY

for documenting Ancient Egyptian Resources

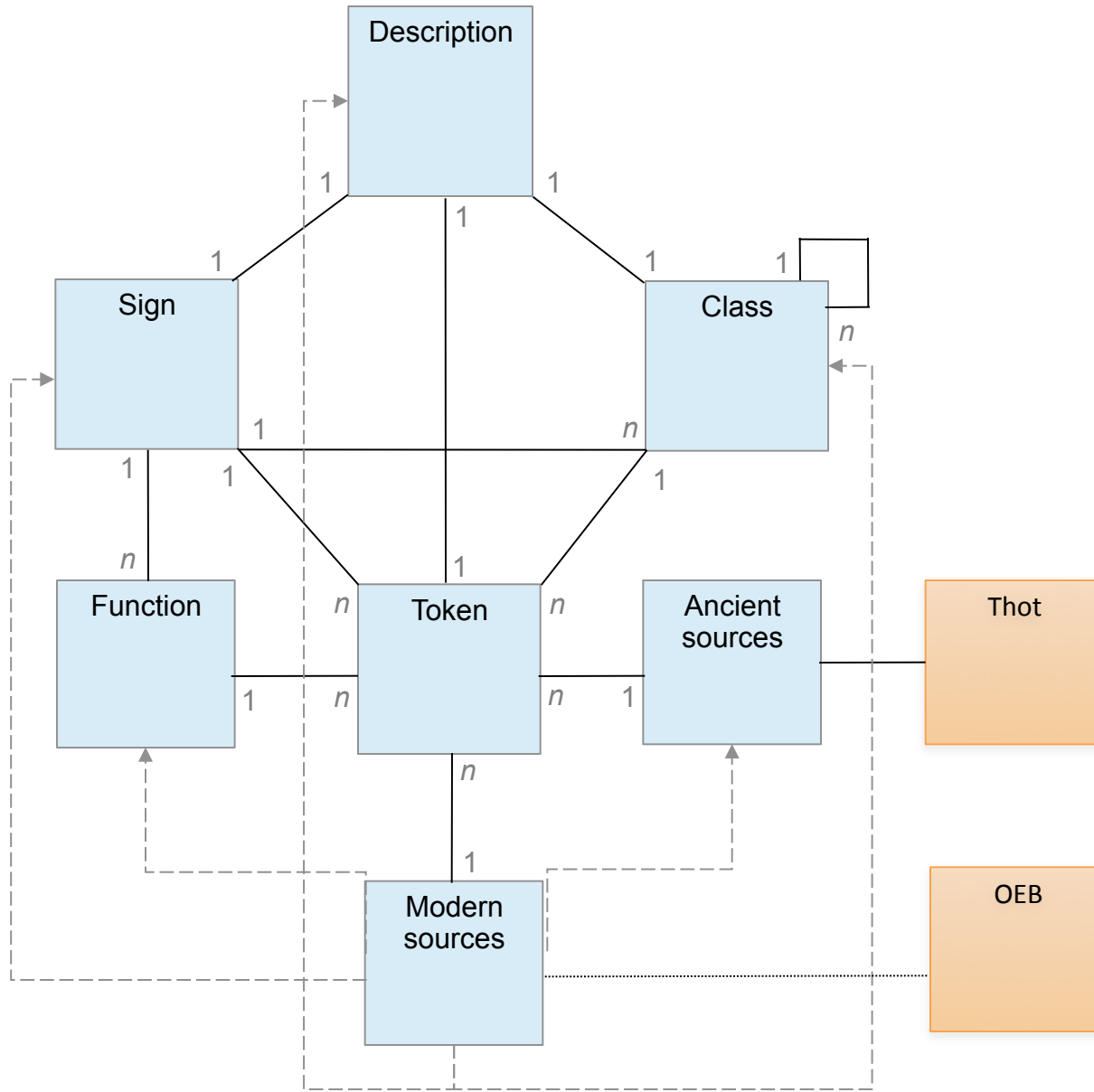
BETA

<http://thot.philo.ulg.ac.be>

The data-model



The data-model





+The Thot Sign-List (TSL)

The Thot Sign-List (TSL)

28. January 2015, No. 03/2013

2015 Anneliese Maier Research Award winners announced

Jean Winand

Mit Computerlinguistik zum ägyptischen Wörterbuch

Der belgische Ägyptologe Jean Winand zählt zu den führenden Experten für die ägyptische Sprache. Mithilfe der Computerlinguistik begann er 2006 mit dem Ramses-Projekt die Arbeit an einer Textdatenbank, welche die jüngeren Phasen der ägyptische Sprachgeschichte abdeckt, und führte damit moderne linguistische Methoden in die Ägyptologie ein. Hoch angesehen ist Winand auch als Co-Autor einer mittelägyptischen Grammatik und für seine Arbeiten zu regionalen sprachlichen Unterschieden und zur Kodierung von Hieroglyphen. In Deutschland will Winand gemeinsam mit seinem Heidelberger Partner Joachim Friedrich Quack die Erkenntnisse aus seinem Ramses-Projekt mit Arbeiten aus Deutschland, wie der der Berliner Akademie der Wissenschaften an einem Thesaurus Linguae Aegyptiae, zusammenführen und ein umfassendes modernes Wörterbuch des Ägyptischen schaffen.

Gastinstitut: Universität Heidelberg, Ägyptologisches Institut

Gastgeber: Prof. Dr. Joachim-Friedrich Quack

Prof. Dr. Jean Winand

wurde 1962 in Belgien geboren. Er ist Professor an der Université de Liège, sowie an der l'Université libre de Bruxelles, beides Belgien. Zudem ist er Mitglied in mehreren nationalen und internationalen Gremien der Ägyptologie. In seinen Arbeiten konzentriert er sich auf die Textanalyse und Lexikographie der ägyptischen Sprache und Schrift.



Foto: Université de Liège/
Michel Houet

The Thot Sign-List (TSL)

[Accueil](#)[L'équipe](#)[Développements](#)[Web Design](#)[Publications](#)[Contacts](#)

Centre Informatique de Philosophie & Lettres

Créé en 1983 à l'Université de Liège, le CIPL est une Unité Décentralisée d'Informatique (UDI). Son objectif général est de promouvoir et coordonner l'utilisation de l'informatique au sein de la Faculté de Philosophie et Lettres.

[▶ DEVELOPPEMENTS](#)[▶ WEB DESIGN](#)

The Thot Sign-List (TSL)



Centre Informatique de Philosophie & Lettres

Créé en 1983 à l'Université de Liège, le CIPL est une Unité Décentralisée d'Informatique (UDI). Son objectif général est de promouvoir et coordonner l'utilisation de l'informatique au sein de la Faculté de Philosophie et Lettres.

[▶ DEVELOPPEMENTS](#) [▶ WEB DESIGN](#)



Thot Sign List

[Documents](#)

[Sources](#)

[Signs](#)

[Tokens](#)

The Thot Sign-List (TSL)

Thot Sign List



[Home](#)

[About](#)

[Contact](#)

[Register](#)

Hello, jgrotenhuis!

[Logout](#)

Thot Sign List

[Documents](#)

[Sources](#)

[Signs](#)

[Tokens](#)

The Thot Sign-List (TSL)

Thot Sign List



Home

About

Contact

Register

Hello, jgrotenhuis!

Logout

Thot Sign List

Documents

Sources

Signs

Tokens

Data

- BBAW

```
1 |<Zeichenliste>
2 |<Zeichen>
3 |<code>A1</code>
4 |<Funktion type="Lautwert">
5 |<Element>
6 |<Lautwert>j</Lautwert>
7 |<Literatur>G 442</Literatur>
8 |<Literatur>L 153</Literatur>
9 |<Literatur>S 90</Literatur>
10|</Element>
11|<Element>
12|<Lautwert>z</Lautwert>
13|<Literatur>G 442</Literatur>
14|<Literatur>Wb 3, 404 ff.</Literatur>
15|<Literatur>S 45, 133</Literatur>
16|</Element>
17|<Element>
18|<Lautwert>rHw</Lautwert>
19|<Literatur>G 442</Literatur>
20|</Element>
21|<Element>
22|<Lautwert>rmT</Lautwert>
23|<Literatur>S 121</Literatur>
24|<Literatur>Z A1</Literatur>
25|<Literatur>K 127.1</Literatur>
26|</Element>
27|</Funktion>
28|<Funktion type="Determinativ">
29|<Existenz type="JA" />
```

The Thot Sign-List (TSL)

Thot Sign List

Documents

Sources

Signs

Tokens

Data

- BBAW
- ULiège (JG)

```
1 |<Zeichenliste>
2 |<Zeichen>
3 |<code>A1</code>
4 |<Funktion type="Lautwert">
5 |<Element>
6 |<Lautwert>j</Lautwert>
7 |<Literatur>G 442</Literatur>
8 |<Literatur>L 153</Literatur>
9 |<Literatur>S 90</Literatur>
10|</Element>
11|<Element>
12|<Lautwert>z</Lautwert>
13|<Literatur>G 442</Literatur>
14|<Literatur>Wb 3, 404 ff.</Literatur>
15|<Literatur>S 45, 133</Literatur>
16|</Element>
17|<Element>
18|<Lautwert>rHw</Lautwert>
19|<Literatur>G 442</Literatur>
20|</Element>
21|<Element>
22|<Lautwert>rmT</Lautwert>
23|<Literatur>S 121</Literatur>
24|<Literatur>Z A1</Literatur>
25|<Literatur>K 127.1</Literatur>
26|</Element>
27|</Funktion>
28|<Funktion type="Determinativ">
29|<Existenz type="JA" />
```

The Thot Sign-List (TSL)

Thot Sign List



[Home](#)

[About](#)

[Contact](#)

[Register](#)

Hello, jgrotenhuis!

[Logout](#)

Thot Sign List

[Documents](#)

[Sources](#)

[Signs](#)

[Tokens](#)

The Thot Sign-List (TSL)

Signs

Filter : Meeks Category Code


[Add a new sign](#)

[First](#) [Next](#) [1](#) [2](#) [Previous](#) [Last](#)

Sign Id : [TSL_1_227](#) Token Id : TSL_3_7775  Meeks Category : A [Delete](#)

Sign Id : [TSL_1_226](#) Token Id : TSL_3_7774  Meeks Category : A [Delete](#)


Sign Id : [TSL_1_225](#) Token Id : TSL_3_7773  Meeks Category : A [Delete](#)

Sign Id : [TSL_1_224](#) Token Id : TSL_3_7772  Meeks Category : A [Delete](#)

Sign Id : [TSL_1_223](#) Token Id : TSL_3_7771  Meeks Category : A [Delete](#)

Sign Id : [TSL_1_222](#) Token Id : TSL_3_7770  Meeks Category : A [Delete](#)


Sign Id : [TSL_1_221](#) Token Id : TSL_3_7769  Meeks Category : A [Delete](#)

Sign Id : [TSL_1_220](#) Token Id : TSL_3_7768  Meeks Category : A [Delete](#)

Sign Id : [TSL_1_217](#) Token Id : TSL_3_7765  Meeks Category : A [Delete](#)

Sign Id : [TSL_1_216](#) Token Id : TSL_3_7764  Meeks Category : A [Delete](#)

Sign Id : [TSL_1_215](#) Token Id : TSL_3_7763  Meeks Category : A [Delete](#)

Sign Id : [TSL_1_214](#) Token Id : TSL_3_7762  Meeks Category : A [Delete](#)

The Thot Sign-List (TSL)

Signs

Filter : Meeks Category

Code

[First](#) [Next](#) [1](#) [2](#) [Previous](#) [Last](#)

Sign Id : [TSL_1_227](#) Token Id : TSL_3_7775  Meeks Category : A

Sign Id : [TSL_1_226](#) Token Id : TSL_3_7774  Meeks Category : A

Sign Id : [TSL_1_225](#) Token Id : TSL_3_7773  Meeks Category : A

Sign Id : [TSL_1_224](#) Token Id : TSL_3_7772  Meeks Category : A

Sign Id : [TSL_1_223](#) Token Id : TSL_3_7771  Meeks Category : A

Sign Id : [TSL_1_222](#) Token Id : TSL_3_7770  Meeks Category : A


Sign Id : [TSL_1_221](#) Token Id : TSL_3_7769  Meeks Category : A

Sign Id : [TSL_1_220](#) Token Id : TSL_3_7768  Meeks Category : A

Sign Id : [TSL_1_217](#) Token Id : TSL_3_7765  Meeks Category : A

Sign Id : [TSL_1_216](#) Token Id : TSL_3_7764  Meeks Category : A

Sign Id : [TSL_1_215](#) Token Id : TSL_3_7763  Meeks Category : A

Sign Id : [TSL_1_214](#) Token Id : TSL_3_7762  Meeks Category : A

The Thot Sign-List (TSL)

Signs

Filter : Meeks Category

Code

[First](#) [Next](#) [1](#) [Previous](#) [Last](#)

Sign Id : [TSL_1_82](#) Token Id : TSL_3_7630  Meeks Category : A [Delete](#)


The Thot Sign-List (TSL)

Signs

Filter : Meeks Category Code

[Add a new sign](#)

First Next 1 2 Previous Last

Sign Id : TSL_1_227	Token Id : TSL_3_7775		Meeks Category : A	Delete
Sign Id : TSL_1_226	Token Id : TSL_3_7774		Meeks Category : A	Delete
Sign Id : TSL_1_225	Token Id : TSL_3_7773		Meeks Category : A	Delete
Sign Id : TSL_1_224	Token Id : TSL_3_7772		Meeks Category : A	Delete
Sign Id : TSL_1_223	Token Id : TSL_3_7771		Meeks Category : A	Delete
Sign Id : TSL_1_222	Token Id : TSL_3_7770		Meeks Category : A	Delete
Sign Id : TSL_1_221	Token Id : TSL_3_7769		Meeks Category : A	Delete
Sign Id : TSL_1_220	Token Id : TSL_3_7768		Meeks Category : A	Delete
Sign Id : TSL_1_217	Token Id : TSL_3_7765		Meeks Category : A	Delete
Sign Id : TSL_1_216	Token Id : TSL_3_7764		Meeks Category : A	Delete
Sign Id : TSL_1_215	Token Id : TSL_3_7763		Meeks Category : A	Delete
Sign Id : TSL_1_214	Token Id : TSL_3_7762		Meeks Category : A	Delete



The Thot Sign-List (TSL)

Signs


Filter : Meeks Category Code


[Add a new sign](#)

First Next 1 2 Previous 1 ...

Sign Id : TSL_1_277	Token Id : TSL_3_7775		Meeks Category : A	Delete
Sign Id : TSL_1_276	Token Id : TSL_3_7774		Meeks Category : A	Delete
Sign Id : TSL_1_275	Token Id : TSL_3_7773		Meeks Category : A	Delete
Sign Id : TSL_1_274	Token Id : TSL_3_7772		Meeks Category : A	Delete
Sign Id : TSL_1_273	Token Id : TSL_3_7771		Meeks Category : A	Delete
Sign Id : TSL_1_272	Token Id : TSL_3_7770		Meeks Category : A	Delete
Sign Id : TSL_1_271	Token Id : TSL_3_7769		Meeks Category : A	Delete
Sign Id : TSL_1_270	Token Id : TSL_3_7768		Meeks Category : A	Delete
Sign Id : TSL_1_267	Token Id : TSL_3_7765		Meeks Category : A	Delete
Sign Id : TSL_1_266	Token Id : TSL_3_7764		Meeks Category : A	Delete
Sign Id : TSL_1_265	Token Id : TSL_3_7763		Meeks Category : A	Delete
Sign Id : TSL_1_264	Token Id : TSL_3_7762		Meeks Category : A	Delete

The Thot Sign-List (TSL)

Thot Sign List  Home About Contact Register Hello, jgrotenhuis! Logout



Sign Id : [TSL_1_29](#) Token Id : [TSL_3_7002](#) L24.svg  Meeks category : L Creator : [jgrotenhuis](#) Editor : [jgrotenhuis](#) [Edit](#)

[Description](#) [Functions](#) [Tokens](#) [Codes](#)

Basic Form full quadrat **Type** compound
Description Comment Scorpion over the sceptre sign
Components Comment S42
[Edit](#)

List of Tags
scepter - scorpion -
 [Add](#)
[Add to List](#)


Components


Sign_id	Added by	New
TSL_1_26 		Delete
TSL_1_5692 		Delete

[Sign Bibliography](#)

© 2018 - Thot Sign List

The Thot Sign-List (TSL)

Thot Sign List  Home About Contact Register Hello, jgrotenhuis! Logout

Sign Id : [TSL_1_29](#) Token Id : [TSL_3_7002](#) L24.svg  Meeks category : L Creator : [jgrotenhuis](#) Editor : [jgrotenhuis](#) [Edit](#)



[Description](#) [Functions](#) [Tokens](#) [Codes](#)

[Basic Form](#) rui quadrat [Type](#) compound
[Description Comment](#) Scorpion over the sceptre sign
[Components Comment](#) S42
[Edit](#)

List of Tags
scepter - scorpion -

[Add to List](#)


Components

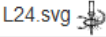
Sign_id	Added by	New
TSL_1_26 		Delete
TSL_1_5692 		Delete

[Sign Bibliography](#)

© 2018 - Thot Sign List

The Thot Sign-List (TSL)

Thot Sign List  Home About Contact Register Hello, jgrotenhuis! Logout

Sign Id : [TSL_1_29](#) Token Id : [TSL_3_7002](#)  Meeks category : L Creator : [jgrotenhuis](#) Editor : [jgrotenhuis](#) [Edit](#)

[Description](#) [Functions](#) [Tokens](#) [Codes](#)

[Basic Form](#) full quadrat [Type](#) compound

[Description Comment](#) scorpion over the sceptre sign



[Components Comment](#) S42

[Edit](#)

List of Tags
scepter - scorpion -

[Add to List](#)


Components


Sign_id	Added by	New
TSL_1_26 		Delete
TSL_1_5692 		Delete

[Sign Bibliography](#)

© 2018 - Thot Sign List

The Thot Sign-List (TSL)

Thot Sign List  Home About Contact Register Hello, jgrotenhuis! Logout

Sign Id : [TSL_1_29](#) Token Id : [TSL_3_7002](#) L24.svg  Meeks category : L Creator : [jgrotenhuis](#) Editor : [jgrotenhuis](#) [Edit](#)

[Description](#) [Functions](#) [Tokens](#) [Codes](#)

[Basic Form](#) full quadret [Tms](#) compound

[Description](#) [Comment](#) Scorpion over the sceptre sign



[Components](#) [Comment](#) S42

[Edit](#)

List of Tags
scepter - scorpion -

[Add to List](#)


Components


Sign_id	Added by	New
TSL_1_26 		Delete
TSL_1_5692 		Delete

[Sign Bibliography](#)

© 2018 - Thot Sign List

The Thot Sign-List (TSL)

Thot Sign List  Home About Contact Register Hello, jgrotenhuis! Logout

Sign Id : [TSL_1_29](#) Token Id : [TSL_3_7002](#) L24.svg  Meeks category : L Creator : [jgrotenhuis](#) Editor : [jgrotenhuis](#) [Edit](#)

[Description](#) [Functions](#) [Tokens](#) [Codes](#)



Basic Form full quadrat **Type** compound
Description Comment Scorpion over the sceptre sign
Components Comment S42
[Edit](#)

List of Tags

scepter - scorpion -

[Add to List](#)


Components


Sign_id	Added by	New
TSL_1_26 		Delete
TSL_1_5692 		Delete

[Sign Bibliography](#)

© 2018 - Thot Sign List

The Thot Sign-List (TSL)

Thot Sign List  Home About Contact Register Hello, jgrotenhuis! Logout



Sign Id : [TSL_1_29](#) Token Id : [TSL_3_7002](#) L24.svg  Meeks category : L Creator : [jgrotenhuis](#) Editor : [jgrotenhuis](#) [Edit](#)

[Description](#) [Functions](#) [Tokens](#) [Codes](#)

Basic Form full quadrat **Type** compound
Description Comment Scorpion over the sceptre sign
Components Comment S42
[Edit](#)

List of Tags
scepter - scorpion -
 [Add](#)
[Add to List](#)

Components

Sign_id	Added by	New
TSL_1_26 		Delete
TSL_1_5692 		Delete

[Sign Bibliography](#)

© 2018 - Thot Sign List

The Thot Sign-List (TSL)

Thot Sign List

[Home](#) [About](#) [Contact](#) [Register](#) [Hello, jgrotenhuis!](#) [Logout](#)

Sign Id : TSL_1_29 Token Id : TSL_3_7002 L24.svg Meeks category : L Creator : jgrotenhuis Editor : jgrotenhuis Edit

Description
Functions
Tokens
Codes

New function

	Function ID	Function Type	Phonetic Value	Semantic Value	Use																							
Edit Delete	79	logogram	<i>hrp-srq.t</i>	scorpion summoner	Ptolemaic	Function Creator : Editor : Comment Lemma Tokens <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 10%;">New Token</th> <th style="width: 10%;">Token ID</th> <th style="width: 10%;">Source ID</th> <th style="width: 10%;">Jses code</th> <th style="width: 10%;">Date Start</th> <th style="width: 10%;">Added by</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Delete</td> <td style="text-align: center;">7003</td> <td style="text-align: center;"> 111</td> <td style="text-align: center;"></td> <td style="text-align: center;">Roman Period</td> <td style="text-align: center;">jgrotenhuis</td> </tr> </tbody> </table> Bibliography New <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 10%;">ref_id</th> <th style="width: 40%;">reference_meta</th> <th style="width: 10%;">ref_position</th> <th style="width: 10%;">ref_comment</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">63</td> <td style="text-align: center;">Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,</td> <td style="text-align: center;">page 298</td> <td></td> <td style="text-align: center;">Edit Delete</td> </tr> </tbody> </table>	New Token	Token ID	Source ID	Jses code	Date Start	Added by	Delete	7003	111		Roman Period	jgrotenhuis	ref_id	reference_meta	ref_position	ref_comment		63	Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,	page 298		Edit Delete
New Token	Token ID	Source ID	Jses code	Date Start	Added by																							
Delete	7003	111		Roman Period	jgrotenhuis																							
ref_id	reference_meta	ref_position	ref_comment																									
63	Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,	page 298		Edit Delete																								

© 2018 - Thot Sign List

The Thot Sign-List (TSL)

Thot Sign List

[Home](#) [About](#) [Contact](#) [Register](#) [Hello, jgrotenhuis!](#) [Logout](#)

Sign Id : TSL_1_29 Token Id : TSL_3_7002 L24.svg Meeks category : L Creator : jgrotenhuis Editor : jgrotenhuis Edit

Description
Functions
Tokens
Codes

New function

	Function ID	Function Type	Phonetic Value	Semantic Value	Use																							
Edit Delete	79	logogram	<i>hrp-srq.t</i>	scorpion summoner	Ptolemaic	Function Creator : Editor : Comment Lemma Tokens <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 10%;">New Token</th> <th style="width: 10%;">Token ID</th> <th style="width: 10%;">Source ID</th> <th style="width: 10%;">Jses code</th> <th style="width: 10%;">Date Start</th> <th style="width: 10%;">Added by</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Delete</td> <td style="text-align: center;">7003</td> <td style="text-align: center;"> 111</td> <td style="text-align: center;"></td> <td style="text-align: center;">Roman Period</td> <td style="text-align: center;">jgrotenhuis</td> </tr> </tbody> </table> Bibliography New <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 10%;">ref_id</th> <th style="width: 40%;">reference_meta</th> <th style="width: 10%;">ref_position</th> <th style="width: 10%;">ref_comment</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">63</td> <td style="text-align: center;">Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,</td> <td style="text-align: center;">page 298</td> <td></td> <td style="text-align: center;">Edit Delete</td> </tr> </tbody> </table>	New Token	Token ID	Source ID	Jses code	Date Start	Added by	Delete	7003	111		Roman Period	jgrotenhuis	ref_id	reference_meta	ref_position	ref_comment		63	Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,	page 298		Edit Delete
New Token	Token ID	Source ID	Jses code	Date Start	Added by																							
Delete	7003	111		Roman Period	jgrotenhuis																							
ref_id	reference_meta	ref_position	ref_comment																									
63	Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,	page 298		Edit Delete																								

© 2018 - Thot Sign List

The Thot Sign-List (TSL)

Thot Sign List

[Home](#) [About](#) [Contact](#) [Register](#) [Hello, jgrotenhuis!](#) [Logout](#)

Sign Id : TSL_1_29 Token Id : TSL_3_7002 L24.svg Meeks category : L Creator : **jgrotenhuis** Editor : **jgrotenhuis** Edit

Description
Functions
Tokens
Codes

New function

	Function ID	Function Type	Phonetic value	Semantic Value	Use																							
Edit Delete	79	logogram	urp-srq.t	scorpion summoner	Ptolemaic	Function Creator : Editor : Comment Lemma Tokens <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 10%;">New Token</th> <th style="width: 10%;">Token ID</th> <th style="width: 10%;">Source ID</th> <th style="width: 10%;">Jses code</th> <th style="width: 10%;">Date Start</th> <th style="width: 10%;">Added by</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Delete</td> <td style="text-align: center;">7003</td> <td style="text-align: center;"> 111</td> <td style="text-align: center;"></td> <td style="text-align: center;">Roman Period</td> <td style="text-align: center;">jgrotenhuis</td> </tr> </tbody> </table> Bibliography New <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 10%;">ref_id</th> <th style="width: 50%;">reference_meta</th> <th style="width: 10%;">ref_position</th> <th style="width: 10%;">ref_comment</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">63</td> <td style="text-align: center;">Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,</td> <td style="text-align: center;">page 298</td> <td></td> <td style="text-align: center;">Edit Delete</td> </tr> </tbody> </table>	New Token	Token ID	Source ID	Jses code	Date Start	Added by	Delete	7003	111		Roman Period	jgrotenhuis	ref_id	reference_meta	ref_position	ref_comment		63	Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,	page 298		Edit Delete
New Token	Token ID	Source ID	Jses code	Date Start	Added by																							
Delete	7003	111		Roman Period	jgrotenhuis																							
ref_id	reference_meta	ref_position	ref_comment																									
63	Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,	page 298		Edit Delete																								

© 2018 - Thot Sign List

The Thot Sign-List (TSL)

Thot Sign List

[Home](#) [About](#) [Contact](#) [Register](#) [Hello, jgrotenhuis!](#) [Logout](#)

Sign Id : TSL_1_29 Token Id : TSL_3_7002 L24.svg Meeks category : L Creator : jgrotenhuis Editor : jgrotenhuis Edit


Description
Functions
Tokens
Codes


New function

	Function ID	Function Type	Phonetic Value	Semantic value	Use																							
Edit Delete	79	logogram	<i>hrp-srq.t</i>	corpion ummoner	Ptolemaic	Function Creator : Editor : Comment Lemma Tokens <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 10%;">New Token</th> <th style="width: 10%;">Token ID</th> <th style="width: 10%;">Source ID</th> <th style="width: 10%;">Jses code</th> <th style="width: 10%;">Date Start</th> <th style="width: 10%;">Added by</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Delete</td> <td style="text-align: center;">7003</td> <td style="text-align: center;"> 111</td> <td style="text-align: center;"></td> <td style="text-align: center;">Roman Period</td> <td style="text-align: center;">jgrotenhuis</td> </tr> </tbody> </table> Bibliography New <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 10%;">ref_id</th> <th style="width: 50%;">reference_meta</th> <th style="width: 10%;">ref_position</th> <th style="width: 10%;">ref_comment</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">63</td> <td style="text-align: center;">Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,</td> <td style="text-align: center;">page 298</td> <td></td> <td style="text-align: center;">Edit Delete</td> </tr> </tbody> </table>	New Token	Token ID	Source ID	Jses code	Date Start	Added by	Delete	7003	111		Roman Period	jgrotenhuis	ref_id	reference_meta	ref_position	ref_comment		63	Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,	page 298		Edit Delete
New Token	Token ID	Source ID	Jses code	Date Start	Added by																							
Delete	7003	111		Roman Period	jgrotenhuis																							
ref_id	reference_meta	ref_position	ref_comment																									
63	Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,	page 298		Edit Delete																								

© 2018 - Thot Sign List

The Thot Sign-List (TSL)

Thot Sign List  Home About Contact Register Hello, jgrotenhuis! Logout

Sign Id : [TSL_1_29](#) Token Id : [TSL_3_7002](#) L24.svg  Meeks category : L Creator : **jgrotenhuis** Editor : **jgrotenhuis** [Edit](#)





[Description](#) [Functions](#) [Tokens](#) [Codes](#)

[New function](#)

	Function ID	Function Type	Phonetic Value	Semantic Value	Use
Edit Delete	79	logogram	<i>hrp-srq.t</i>	scorpion summoner	Ptolemaic

Function Creator : Editor :
 Comment
[Lemma](#)

Tokens

New Token	Token ID	Source ID	Jses code	Date Start	Added by
Delete	7003	 111	  	Roman Period	jgrotenhuis

Bibliography
[New](#)

ref_id	reference_meta	ref_position	ref_comment
63	Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,	page 298	Edit Delete

© 2018 - Thot Sign List

The Thot Sign-List (TSL)

Thot Sign List

[Home](#) [About](#) [Contact](#) [Register](#) [Hello, jgrotenhuis!](#) [Logout](#)

Sign Id : TSL_1_29 Token Id : TSL_3_7002 L24.svg Meeks category : L Creator : **jgrotenhuis** Editor : **jgrotenhuis** Edit

Description
Functions
Tokens
Codes

New function

	Function ID	Function Type	Phonetic Value	Semantic Value	Use																							
Edit Delete	79	logogram	<i>hrp-srq.t</i>	scorpion summoner	Ptolemaic	Function Creator : Editor : Comment emma Tokens <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>New Token</th> <th>Token ID</th> <th>Source ID</th> <th>Jsessh code</th> <th>Date Start</th> <th>Added by</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Delete</td> <td style="text-align: center;">7003</td> <td style="text-align: center;"> 111</td> <td style="text-align: center;"></td> <td style="text-align: center;">Roman Period</td> <td style="text-align: center;">jgrotenhuis</td> </tr> </tbody> </table> Bibliography New <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>ref_id</th> <th>reference_meta</th> <th>ref_position</th> <th>ref_comment</th> <th></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,</td> <td style="text-align: center;">page 298</td> <td></td> <td style="text-align: center;">Edit Delete</td> </tr> </tbody> </table>	New Token	Token ID	Source ID	Jsessh code	Date Start	Added by	Delete	7003	111		Roman Period	jgrotenhuis	ref_id	reference_meta	ref_position	ref_comment		3	Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,	page 298		Edit Delete
New Token	Token ID	Source ID	Jsessh code	Date Start	Added by																							
Delete	7003	111		Roman Period	jgrotenhuis																							
ref_id	reference_meta	ref_position	ref_comment																									
3	Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,	page 298		Edit Delete																								

© 2018 - Thot Sign List

The Thot Sign-List (TSL)

Thot Sign List

[Home](#) [About](#) [Contact](#) [Register](#) [Hello, jgrotenhuis!](#) [Logout](#)

Sign Id : TSL_1_29 Token Id : TSL_3_7002 L24.svg Meeks category : L Creator : **jgrotenhuis** Editor : **jgrotenhuis** Edit

Description
Functions
Tokens
Codes

New function

	Function ID	Function Type	Phonetic Value	Semantic Value	Use																							
Edit Delete	79	logogram	<i>hrp-srq.t</i>	scorpion summoner	Ptolemai :	Function Creator : Editor : Comment Lemma <div style="border: 1px solid #ccc; border-radius: 10px; padding: 5px; background-color: #e9f5ff; margin: 5px 0;"> Tokens <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>New Token</th> <th>Token ID</th> <th>Source ID</th> <th>Jses code</th> <th>Date Start</th> <th>Added by</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Delete</td> <td style="text-align: center;">7003</td> <td style="text-align: center;"> 111</td> <td style="text-align: center;"></td> <td style="text-align: center;">Roman Period</td> <td style="text-align: center;">jgrotenhuis</td> </tr> </tbody> </table> </div> Bibliography New <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>ref_id</th> <th>reference_meta</th> <th>ref_position</th> <th>ref_comment</th> <th></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">63</td> <td>Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,</td> <td style="text-align: center;">page 298</td> <td></td> <td style="text-align: center;">Edit Delete</td> </tr> </tbody> </table>	New Token	Token ID	Source ID	Jses code	Date Start	Added by	Delete	7003	111		Roman Period	jgrotenhuis	ref_id	reference_meta	ref_position	ref_comment		63	Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,	page 298		Edit Delete
New Token	Token ID	Source ID	Jses code	Date Start	Added by																							
Delete	7003	111		Roman Period	jgrotenhuis																							
ref_id	reference_meta	ref_position	ref_comment																									
63	Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,	page 298		Edit Delete																								

© 2018 - Thot Sign List

The Thot Sign-List (TSL)

Thot Sign List

[Home](#) [About](#) [Contact](#) [Register](#) [Hello, jgrotenhuis!](#) [Logout](#)

Sign Id : TSL_1_29 Token Id : TSL_3_7002 L24.svg Meeks category : L Creator : jgrotenhuis Editor : jgrotenhuis Edit

Description
Functions
Tokens
Codes

New function

	Function ID	Function Type	Phonetic Value	Semantic Value	Use																							
Edit Delete	79	logogram	<i>hrp-srq.t</i>	scorpion summoner	Ptolemaic	Function Creator : Editor : Comment Lemma Tokens <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 10%;">New Token</th> <th style="width: 10%;">Token ID</th> <th style="width: 10%;">Source ID</th> <th style="width: 10%;">Jsessh code</th> <th style="width: 10%;">Date Start</th> <th style="width: 10%;">Added by</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Delete</td> <td style="text-align: center;">7003</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">Roman Period</td> <td style="text-align: center;">jgrotenhuis</td> </tr> </tbody> </table> Bibliography New <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 10%;">ref_id</th> <th style="width: 40%;">reference_meta</th> <th style="width: 10%;">ref_position</th> <th style="width: 10%;">ref_comment</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">63</td> <td style="text-align: center;">Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,</td> <td style="text-align: center;">page 298</td> <td></td> <td style="text-align: center;">Edit Delete</td> </tr> </tbody> </table>	New Token	Token ID	Source ID	Jsessh code	Date Start	Added by	Delete	7003	1	1	Roman Period	jgrotenhuis	ref_id	reference_meta	ref_position	ref_comment		63	Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,	page 298		Edit Delete
New Token	Token ID	Source ID	Jsessh code	Date Start	Added by																							
Delete	7003	1	1	Roman Period	jgrotenhuis																							
ref_id	reference_meta	ref_position	ref_comment																									
63	Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,	page 298		Edit Delete																								

© 2018 - Thot Sign List

The Thot Sign-List (TSL)

Thot Sign List

[Home](#) [About](#) [Contact](#) [Register](#) [Hello, jgrotenhuis!](#) [Logout](#)

Sign Id : TSL_1_29 Token Id : TSL_3_7002 L24.svg Meeks category : L Creator : jgrotenhuis Editor : jgrotenhuis Edit

Description
Functions
Tokens
Codes

New function

	Function ID	Function Type	Phonetic Value	Semantic Value	Use																							
Edit Delete	79	logogram	<i>hrp-srq.t</i>	scorpion summoner	Ptolemaic	Function Creator : Editor : Comment Lemma Tokens <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 10%;">New Token</th> <th style="width: 10%;">Token</th> <th style="width: 10%;">source id</th> <th style="width: 10%;">mesh code</th> <th style="width: 10%;">Date Start</th> <th style="width: 10%;">Added by</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Delete</td> <td style="text-align: center;">7003</td> <td style="text-align: center;">111</td> <td style="text-align: center;"></td> <td style="text-align: center;">Roman Period</td> <td style="text-align: center;">jgrotenhuis</td> </tr> </tbody> </table> Bibliography New <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 10%;">ref_id</th> <th style="width: 40%;">reference_meta</th> <th style="width: 10%;">ref_position</th> <th style="width: 10%;">ref_comment</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">63</td> <td style="text-align: center;">Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,</td> <td style="text-align: center;">page 298</td> <td></td> <td style="text-align: center;">Edit Delete</td> </tr> </tbody> </table>	New Token	Token	source id	mesh code	Date Start	Added by	Delete	7003	111		Roman Period	jgrotenhuis	ref_id	reference_meta	ref_position	ref_comment		63	Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,	page 298		Edit Delete
New Token	Token	source id	mesh code	Date Start	Added by																							
Delete	7003	111		Roman Period	jgrotenhuis																							
ref_id	reference_meta	ref_position	ref_comment																									
63	Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,	page 298		Edit Delete																								

© 2018 - Thot Sign List

The Thot Sign-List (TSL)

Thot Sign List

[Home](#) [About](#) [Contact](#) [Register](#) [Hello, jgrotenhuis!](#) [Logout](#)

Sign Id : TSL_1_29 Token Id : TSL_3_7002 L24.svg Meeks category : L Creator : jgrotenhuis Editor : jgrotenhuis Edit

Description
Functions
Tokens
Codes

New function

	Function ID	Function Type	Phonetic Value	Semantic Value	Use																							
Edit Delete	79	logogram	<i>hrp-srq.t</i>	scorpion summoner	Ptolemaic	Function Creator : Editor : Comment Lemma Tokens <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 10%;">New Token</th> <th style="width: 10%;">Token ID</th> <th style="width: 10%;">Source</th> <th style="width: 10%;">Access code</th> <th style="width: 10%;">Date Start</th> <th style="width: 40%;">Added by</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Delete</td> <td style="text-align: center;">7003</td> <td style="text-align: center;"></td> <td style="text-align: center;">111</td> <td style="text-align: center;">Roman Period</td> <td style="text-align: center;">jgrotenhuis</td> </tr> </tbody> </table> Bibliography New <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 10%;">ref_id</th> <th style="width: 50%;">reference_meta</th> <th style="width: 10%;">ref_position</th> <th style="width: 10%;">ref_comment</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">63</td> <td style="text-align: center;">Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,</td> <td style="text-align: center;">page 298</td> <td></td> <td style="text-align: center;">Edit Delete</td> </tr> </tbody> </table>	New Token	Token ID	Source	Access code	Date Start	Added by	Delete	7003		111	Roman Period	jgrotenhuis	ref_id	reference_meta	ref_position	ref_comment		63	Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,	page 298		Edit Delete
New Token	Token ID	Source	Access code	Date Start	Added by																							
Delete	7003		111	Roman Period	jgrotenhuis																							
ref_id	reference_meta	ref_position	ref_comment																									
63	Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,	page 298		Edit Delete																								

© 2018 - Thot Sign List

The Thot Sign-List (TSL)

Thot Sign List

[Home](#) [About](#) [Contact](#) [Register](#) [Hello, jgrotenhuis!](#) [Logout](#)

Sign Id : TSL_1_29 Token Id : TSL_3_7002 L24.svg Meeks category : L Creator : jgrotenhuis Editor : jgrotenhuis Edit

Description
Functions
Tokens
Codes

New function

	Function ID	Function Type	Phonetic Value	Semantic Value	Use																							
Edit Delete	79	logogram	<i>hrp-srq.t</i>	scorpion summoner	Ptolemaic	Function Creator : Editor : Comment Lemma Tokens <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 10%;">New Token</th> <th style="width: 10%;">Token ID</th> <th style="width: 10%;">Source ID</th> <th style="width: 10%;">Jses code</th> <th style="width: 10%;">Date Start</th> <th style="width: 10%;">Added by</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Delete</td> <td style="text-align: center;">7003</td> <td style="text-align: center;"> 111</td> <td style="text-align: center;"></td> <td style="text-align: center;">Roman Period</td> <td style="text-align: center;">jgrotenhuis</td> </tr> </tbody> </table> <div style="background-color: #e0f2f1; padding: 5px; margin-top: 5px; border: 1px solid #ccc;"> Bibliography New <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">ref_id</th> <th style="width: 40%;">reference_meta</th> <th style="width: 15%;">ref_position</th> <th style="width: 15%;">ref_comment</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">63</td> <td>Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,</td> <td style="text-align: center;">page 298</td> <td></td> <td style="text-align: center;">Edit Delete</td> </tr> </tbody> </table> </div>	New Token	Token ID	Source ID	Jses code	Date Start	Added by	Delete	7003	111		Roman Period	jgrotenhuis	ref_id	reference_meta	ref_position	ref_comment		63	Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,	page 298		Edit Delete
New Token	Token ID	Source ID	Jses code	Date Start	Added by																							
Delete	7003	111		Roman Period	jgrotenhuis																							
ref_id	reference_meta	ref_position	ref_comment																									
63	Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,	page 298		Edit Delete																								

© 2018 - Thot Sign List

The Thot Sign-List (TSL)

Thot Sign List

[Home](#) [About](#) [Contact](#) [Register](#) [Hello, jgrotenhuis!](#) [Logout](#)

Sign Id : TSL_1_29 Token Id : TSL_3_7002 L24.svg Meeks category : L Creator : **jgrotenhuis** Editor : **jgrotenhuis** Edit


Description
Functions
Tokens
Codes


New function

	Function ID	Function Type	Phonetic Value	Semantic Value	Use																							
Edit Delete	79	logogram	<i>hrp-srq.t</i>	scorpion summoner	Ptolemaic	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> Function Creator : Editor : Comment Lemma </div> Tokens <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 5px;"> <thead> <tr> <th style="width: 10%;">New Token</th> <th style="width: 10%;">Token ID</th> <th style="width: 10%;">Source ID</th> <th style="width: 10%;">Jsesch code</th> <th style="width: 10%;">Date Start</th> <th style="width: 10%;">Added by</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Delete</td> <td style="text-align: center;">7003</td> <td style="text-align: center;"> 111</td> <td style="text-align: center;"></td> <td style="text-align: center;">Roman Period</td> <td style="text-align: center;">jgrotenhuis</td> </tr> </tbody> </table> Bibliography New <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">ref_id</th> <th style="width: 40%;">reference_meta</th> <th style="width: 10%;">ref_position</th> <th style="width: 10%;">ref_comment</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">63</td> <td style="text-align: center;">Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,</td> <td style="text-align: center;">page 298</td> <td></td> <td style="text-align: center;">Edit Delete</td> </tr> </tbody> </table>	New Token	Token ID	Source ID	Jsesch code	Date Start	Added by	Delete	7003	111		Roman Period	jgrotenhuis	ref_id	reference_meta	ref_position	ref_comment		63	Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,	page 298		Edit Delete
New Token	Token ID	Source ID	Jsesch code	Date Start	Added by																							
Delete	7003	111		Roman Period	jgrotenhuis																							
ref_id	reference_meta	ref_position	ref_comment																									
63	Kurth,2007,Einführung ins Ptolemäische vol. 1,170879,	page 298		Edit Delete																								

© 2018 - Thot Sign List


The Thot Sign-List (TSL)


Thot Sign List  Home About Contact Register Hello, jgrotenhuis! Logout


Sign Id : [TSL_1_29](#) Token Id : [TSL_3_7002](#) L24.svg  Meeks category : L Creator : [jgrotenhuis](#) Editor : [jgrotenhuis](#) [Edit](#)

Description Functions **Tokens** Codes


[New token](#)

Sign ID : [TSL_1_29](#) Token Id : [TSL_3_7177](#) 

Sign ID : [TSL_1_29](#) Token Id : [TSL_3_7003](#) 

Sign ID : [TSL_1_29](#) Token Id : [TSL_3_7002](#) 

[Detail](#) [Class](#)

Token Id [TSL_3_7177](#) 


Source: [-5](#) Manuel de codage


[Edit](#) [Delete](#)

token_img_path : L24-mdc.JPG
comment :
Meeks category : L
code type : Manuel de Codage
code value : L24
Creator : [jgrotenhuis](#) Editor : [jgrotenhuis](#)

© 2018 - Thot Sign List


The Thot Sign-List (TSL)


Thot Sign List  Home About Contact Register Hello, jgrotenhuis! Logout


Sign Id : **TSL_1_29** Token Id : **TSL_3_7002** L24.svg  Meeks category : L Creator : **jgrotenhuis** Editor : **jgrotenhuis** [Edit](#)

Description Functions **Tokens** Codes


[New token](#)

Sign ID : **TSL_1_29** Token Id : **TSL_3_7177** 

Sign ID : **TSL_1_29** Token Id : **TSL_3_7003** 

Sign ID : **TSL_1_29** Token Id : **TSL_3_7002** 

[Detail](#) [Class](#)

Token Id **TSL_3_7177** 


Source: [-5](#) Manuel de codage


[Edit](#) [Delete](#)

token_img_path : L24-mdc.JPG
comment :
Meeks category : L
code type : Manuel de Codage
code value : L24
Creator : jgrotenhuis Editor : jgrotenhuis

© 2018 - Thot Sign List

The Thot Sign-List (TSL)

Thot Sign List  Home About Contact Register Hello, jgrotenhuis! Logout

Sign Id : [TSL_1_29](#) Token Id : [TSL_3_7002](#) L24.svg  Meeks category : L Creator : [jgrotenhuis](#) Editor : [jgrotenhuis](#) [Edit](#)

[Description](#) [Functions](#) [Tokens](#) [Codes](#)

[New](#)

	Type	Code
Delete	Hieroglyphica	L24
Delete	IFAO	231,7
Delete	Jsesh	L24

© 2018 - Thot Sign List

The Thot Sign-List (TSL)

Thot Sign List



[Home](#)

[About](#)

[Contact](#)

[Register](#)

[Hello, spolis!](#)

[Logout](#)

Thot Sign List

[Documents](#)

[Sources](#)

[Signs](#)

[Tokens](#)

The Thot Sign-List (TSL)

Thot Sign List



Home About Contact

Register Hello, jgrotenhuis! Logout

TSL - Documents Management

Select 23	Papyrus Gardiner 2, sheet 6	BM EA 10676,6	1st Intermediate Period
Select 22	Dier el-Gebrawi, tomb S12, tomb of Djau		Pepi II Neferkare I
Select 21	Pyramid of Pepi II		Pepi II Neferkare I
Select 20	Pyramid of Merenre I		Nemtiemsaft I Merenre I
Select 19	Meir, rock tomb D2, tomb of Ppii-anx-Hr(y)-ib		Pepi I Merire
Select 18	Pyramid of Pepi I		Pepi I Merire
Select 17	Pyramid of Teti		Teti
Select 16	Tomb 8, Tomb of Ibi		6th Dynasty
Select 15	Saqqara, mastaba of Wernu		6th Dynasty
Select 14	Pyramid of Unas		Unas_Wenis

New document Edit

Doc id 18 **Type** old
Title Pyramid of Pepi I

Date-start thot-190 -> [Pepi I Merire](#)
Date-end thot-190 -> [Pepi I Merire](#)
Year of 0
Provenance topbib-309-010 -> [Pyramids](#)
Provenance Compl
Current Location
Inventory
Scripts thot-83 -> [Hieroglyphs](#)
Material thot-6216 -> [limestone](#)
Technique of inscription thot-19254 -> [sunk relief](#)
Colour unset
Text Content thot-18636 -> [Pyramid texts](#)
Metadata comment
Languages thot-10 -> [Old Egyptian](#)
Object Type thot-2633 -> [Relief](#)

Encoding

Created by [jgrotenhuis](#) Edited by [jgrotenhuis](#)

Sources attached to document

Id	Jshesh Code	Date Start	Location in Document	New Source
369		Pepi I Merire	Pyramid of Pepi I, The flat entrance before the the blocking stones, eastern wall, column 5	
314		Pepi I Merire	Pyramid of Pepi I, The flat entrance before the the blocking stones, eastern wall, column 17	
110		Pepi I Merire	Pyramid of Pepi I, level hallway behind the blocking stones, west wall, column 31.	
366		Pepi I Merire	Pyramid of Pepi I, The flat entrance before the the blocking stones, eastern wall, column 5	
2		Pepi I Merire	Pyramid of Pepi I, The flat entrance before the the blocking stones, eastern wall, column 72.	
55		Pepi I Merire	Pyramid of Pepi I, Burial chamber, west wall, center, column 29.	
313		Pepi I Merire	Pyramid of Pepi I, Burial chamber, east wall, column 12.	
			Pvramid of Pepi I. the flat hallway before	

The Thot Sign-List (TSL)

Thot Sign List



[Home](#)

[About](#)

[Contact](#)

[Register](#)

[Hello, jgrotenhuis!](#)

[Logout](#)

TSL - Documents Management

Select 23 Papyrus Gardiner 2, sheet 6	BM EA 10676,6	1st Intermediate Period
Select 22 Dier el-Gebrawi, tomb S12, tomb of Djau		Pepi II Neferkare I
Select 21 Pyramid of Pepi II		Pepi II Neferkare I
Select 20 Pyramid of Merenre I		Nemtiemsaf I Merenre I
Select 19 Meir, rock tomb D2, tomb of Ppii-anx-Hr(y)-ib		Pepi I Merire
Select 18 Pyramid of Pepi I		Pepi I Merire
Select 17 Pyramid of Teti		Teti
Select 16 Tomb 8, Tomb of Ibi		6th Dynasty
Select 15 Saqqara, mastaba of Wernu		6th Dynasty
Select 14 Pyramid of Unas		Unas_Wenis

[New document](#) [Edit](#)

Doc Id 18 **Type** old
Title Pyramid of Pepi I

Date-start thot-190 → [Pepi I Merire](#)
Date-end thot-190 → [Pepi I Merire](#)
Year of 0
Provenance topbib-309-010 → [Pyramids](#)
Provenance Compl
Current Location
Inventory
Scripts thot-83 → [Hieroglyphs](#)
Material thot-6216 → [limestone](#)
Technique of inscription thot-19254 → [sunk relief](#)
Colour unset
Text Content thot-18636 → [Pyramid texts](#)
Metadata comment
Languages thot-10 → [Old Egyptian](#)
Object Type thot-2633 → [Relief](#)

Encoding

Created by [jgrotenhuis](#) Edited by [jgrotenhuis](#)

Sources attached to document

Id	Jshesh Code	Date Start	Location in Document	New Source
369		Pepi I Merire	Pyramid of Pepi I, The flat entrance before the the blocking stones, eastern wall, column 5	
314		Pepi I Merire	Pyramid of Pepi I, The flat entrance before the the blocking stones, eastern wall, column 17	
110		Pepi I Merire	Pyramid of Pepi I, level hallway behind the blocking stones, west wall, column 31.	
366		Pepi I Merire	Pyramid of Pepi I, The flat entrance before the the blocking stones, eastern wall, column 5	
2		Pepi I Merire	Pyramid of Pepi I, The flat entrance before the the blocking stones, eastern wall, column 72.	
55		Pepi I Merire	Pyramid of Pepi I, Burial chamber, west wall, center, column 29.	
313		Pepi I Merire	Pyramid of Pepi I, Burial chamber, east wall, column 12.	
			Pvramid of Pepi I. the flat hallway before	

The Thot Sign-List (TSL)

TSL - Documents Management

Select 23	Papyrus Gardiner 2, sheet 6	BM EA 10676,6	1st Intermediate Period
Select 22	Dier el-Gebrawi, tomb S12, tomb of Djau		Pepi II Neferkare I
Select 21	Pyramid of Pepi II		Pepi II Neferkare I
Select 20	Pyramid of Merenre I		Nemtiemsaf I Merenre I
Select 19	Meir, rock tomb D2, tomb of Ppii-anx-Hr(y)-ib		Pepi I Merire
Select 18	Pyramid of Pepi I		Pepi I Merire
Select 17	Pyramid of Teti		Teti
Select 16	Tomb 8, Tomb of Ibi		6th Dynasty
Select 15	Saqqara, mastaba of Wernu		6th Dynasty
Select 14	Pyramid of Unas		Unas_Wenis

[New document](#) [Edit](#)

[Doc Id](#) 18 [Type](#) old
[Title](#) Pyramid of Pepi I

Date-start thot-190 -> [Pepi I Merire](#)
Date-end thot-190 -> [Pepi I Merire](#)
Year of 0
Provenance topbib-309-010 -> [Pyramids](#)
Provenance Compl
Current Location
Inventory
Scripts thot-83 -> [Hieroglyphs](#)
Material thot-6216 -> [limestone](#)
Technique of inscription thot-19254 -> [sunk relief](#)
Colour unset
Text Content thot-18636 -> [Pyramid texts](#)
Metadata comment
Languages thot-10 -> [Old Egyptian](#)
Object Type thot-2633 -> [Relief](#)

Encoding

Created by [jgrotenhuis](#) Edited by [jgrotenhuis](#)

Sources attached to document

Id	Jshesh Code	Date Start	Location in Document	New Source
369		Pepi I Merire	Pyramid of Pepi I, The flat entrance before the the blocking stones, eastern wall, column 5	
314		Pepi I Merire	Pyramid of Pepi I, The flat entrance before the the blocking stones, eastern wall, column 17	
110		Pepi I Merire	Pyramid of Pepi I, level hallway behind the blocking stones, west wall, column 31.	
366		Pepi I Merire	Pyramid of Pepi I, The flat entrance before the the blocking stones, eastern wall, column 5	
2		Pepi I Merire	Pyramid of Pepi I, The flat entrance before the the blocking stones, eastern wall, column 72.	
55		Pepi I Merire	Pyramid of Pepi I, Burial chamber, west wall, center, column 29.	
313		Pepi I Merire	Pyramid of Pepi I, Burial chamber, east wall, column 12.	
			Pvramid of Pepi I. the flat hallway before	

The Thot Sign-List (TSL)

Thot Sign List



[Home](#)

[About](#)

[Contact](#)

[Register](#)

[Hello, spolis!](#)

[Logout](#)

Thot Sign List

[Documents](#)

[Sources](#)

[Signs](#)

[Tokens](#)

The Thot Sign-List (TSL)

Source **111**

[Refresh](#)

[-> Images](#)

[-> Tokens](#)



[Edit](#)

Jshesh code

F20&L24-W5:D2*D1-E38-R8-Y1v



Transliteration

imy-r hrp srq.t hry-ḥb hry-tp sš md3.t nṯr

Translation

the overseer of the scorpion summoners, the chief lector priest, the scribe of the book of the god.

Location in

Document

location inscription: line 4

Source Comment

Document

[-> 161](#)

Encoding Created by [jgrotenhuis](#) Edited by [jgrotenhuis](#)

Bibliography

[New](#)

source_id	reference_id	reference_meta	ref_position	ref_picture	ref_facsimile	ref_hiero_transcription	ref_lat_transliteration	ref_translation	ref_comment
111	148	Kamal, Ahmed, 1904, Stèles ptolémaïques et romaines., 142259	page 45, plate XV	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Edit Delete

The Thot Sign-List (TSL)

Source **111**

[Refresh](#)

[-> Images](#)

[-> Tokens](#)



[Edit](#)

Jshesh code F20&L24-W5:D2*D1-E38-R8-Y1v



Transliteration *imy-r hrp srq.t hry-ḥb hry-tp sš md3.t nṯr*

Translation the overseer of the scorpion summoners, the chief lector priest, the scribe of the book of the god.

Location in Document location inscription: line 4

Source Comment

Document [-> 161](#)



Encoding Created by [jgrotenhuis](#) Edited by [jgrotenhuis](#)

Bibliography



[New](#)

source_id	reference_id	reference_meta	ref_position	ref_picture	ref_facsimile	ref_hiero_transcription	ref_lat_transliteration	ref_translation	ref_comment
111	148	Kamal, Ahmed, 1904, Stèles ptolémaïques et romaines., 142259	page 45, plate XV	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Edit Delete



The Thot Sign-List (TSL)

Source Id TSL_Source_1f1		Images attached to this source					
Insert	Cancel	Bladeren... Upload	Geen bestand geselecteerd. Image Path	Type picture	Copyright <input type="checkbox"/>	Copyright Text	URL
Edit	Delete		CG-22049-line4-page45.JPG	transcription	<input type="checkbox"/>		
Edit	Delete		CG-22049-line4.JPG	picture	<input type="checkbox"/>		



The Thot Sign-List (TSL)

Source Id TSL_Source_111		Images attached to this source		Type	Copyright	Copyright Text	URL
Insert	Cancel	Bladeren...	Geen bestand geselecteerd.	Type	<input type="checkbox"/>		
		Upload	image Path	picture	<input type="checkbox"/>		
Edit	Delete	CG-22049-line4-page45.JPG 		transcription	<input type="checkbox"/>		
Edit	Delete			picture	<input type="checkbox"/>		



The Thot Sign-List (TSL)

Source Id TSL_Source_111		Images attached to this source						
Insert	Cancel	Bladeren...	Geen bestand geselecteerd.		Type	Copyright	Copyright Text	URL
		Upload	Image Path		picture	<input type="checkbox"/>		
Edit	Delete	CG-22049-line4-page45.JPG			transcription	<input type="checkbox"/>		
Edit	Delete	CG-22049-line4.JPG			picture	<input type="checkbox"/>		


The Thot Sign-List (TSL)

Source Id TSL_Source_1f1		Images attached to this source		Type	Copyright	Copyright Text	UR
Insert	Cancel	Bladeren...	Geen bestand geselecteerd.	picture	<input type="checkbox"/>		
Edit	Delete	CG-22049-line4-page45.JPG		transcription	<input type="checkbox"/>		
Edit	Delete	CG-22049-line4.JPG		picture	<input type="checkbox"/>		

The Thot Sign-List (TSL)

Source Id TSL_Source_1f1		Images attached to this source				URL
Insert	Cancel	Bladeren... Upload	Geen bestand geselecteerd. Image Path	Type picture	Copyright <input type="checkbox"/>	Copyright Text
Edit	Delete	CG-22049-line4-page45.JPG 		transcription	<input type="checkbox"/>	
Edit	Delete	CG-22049-line4.JPG 		picture	<input type="checkbox"/>	

The Thot Sign-List (TSL)

Source Id TSL_Source_84 Images attached to this source		Type	Copyright	Copyright Text	URL
Insert Cancel	Bladeren... Upload Image Path	Geen bestand geselecteerd. picture	<input type="checkbox"/>		
Edit Delete	 PNu-sheet8-sp36.JPG	picture	<input type="checkbox"/>	© British Museum	http://www.britishmuseum.org/research/collection_online/collection_object_details.aspx?objectId=113212&partId=1&searchText=10477&page=1

The Thot Sign-List (TSL)

Source **111**

[Refresh](#)

[-> Images](#)

[-> Tokens](#)



[Edit](#)

Jseph code

F20&L24-W5:D2*D1-E38-R8-Y1v



Transliteration

imy-r hrp srq.t hry-ḥb hry-tp sš md3.t nṯr

Translation

the overseer of the scorpion summoners, the chief lector priest, the scribe of the book of the god.

Location in

Document

location inscription: line 4

Source Comment

Document

[-> 161](#)

Encoding Created by [jgrotenhuis](#) Edited by [jgrotenhuis](#)

Bibliography

[New](#)

source_id	reference_id	reference_meta	ref_position	ref_picture	ref_facsimile	ref_hiero_transcription	ref_lat_transliteration	ref_translation	ref_comment
111	148	Kamal, Ahmed, 1904, Stèles ptolémaïques et romaines., 142259	page 45, plate XV	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Edit Delete

The Thot Sign-List (TSL)

Source **111**

[Refresh](#)

[-> Images](#)

[-> Tokens](#)



[Edit](#)

Jshesh code

F20&L24-W5:D2*D1-E38-R8-Y1v



Transliteration

imy-r hrp srq.t hry-ḥb hry-tp sš md3.t nṯr

Translation

the overseer of the scorpion summoners, the chief lector priest, the scribe of the book of the god.

Location in

Document

location inscription: line 4

Source Comment

Document

[-> 161](#)

Encoding Created by [jgrotenhuis](#) Edited by [jgrotenhuis](#)

Bibliography

[New](#)

source_id	reference_id	reference_meta	ref_position	ref_picture	ref_facsimile	ref_hiero_transcription	ref_lat_transliteration	ref_translation	ref_comment
111	148	Kamal, Ahmed, 1904, Stèles ptolémaïques et romaines., 142259	page 45, plate XV	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Edit Delete

The Thot Sign-List (TSL)

Source **111**

[-> Image](#)

[-> Tokens](#)



[Edit](#)

Jshesh code F20&L24-W5:D2*D1-E38-R8-Y1v



Transliteration *imy-r hrp srq.t hry-ḥb hry-tp sš md3.t nṯr*

Translation the overseer of the scorpion summoners, the chief lector priest, the scribe of the book of the god.

Location in Document location inscription: line 4

Source Comment

Document [-> 161](#)

Encoding Created by [jgrotenhuis](#) Edited by [jgrotenhuis](#)

Bibliography

[New](#)

source_id	reference_id	reference_meta	ref_position	ref_picture	ref_facsimile	ref_hiero_transcription	ref_lat_transliteration	ref_translation	ref_comment
111	148	Kamal, Ahmed, 1904, Stèles ptolémaïques et romaines., 142259	page 45, plate XV	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Edit Delete

The Thot Sign-List (TSL)

Tokens linked to Source 111

New

Close

Token Id : **TSL_3_17497**
Creator : **jgrotenhuis**

Token Id : TSL_3_17496

Token Id : TSL_3_17495

Token Id : TSL_3_17494

Token Id : TSL_3_17493

Token Id : TSL_3_17492

Token Id : TSL_3_17491

Detail **Description** Class

Token Id **TSL_3_17497**

Source: **111**

[Edit](#) [Delete](#)

token_img_path : Y1v-CG-22049-line 4.JPG

comment :

Meeks category :

code type : No Code

code value :

Creator : jgrotenhuis Editor : jgrotenhuis



+ Conclusions

+ Conclusions



Agreement among the partners that the addition of 6324 characters (Suignard, 2018-04-17) is premature, since:

1. The purpose of Unicode is not to embrace a glyph-level coding based on (and replicating the mistakes of) modern fonts (that copy each other), but to encode meaningful differences (i.e., characters)

Identifying the meaningful differences between hieroglyphic signs is precisely the goal of the TSL project => Results will be released online, category by category, from 2019 onwards

2. Many of hieroglyphic signs suggested in this proposal conflict with the use of control characters (L2/17-112R)
3. A more urgent task seems to be the addition of additional control characters for productive (and therefore frequent) types of grouping such as:
 1. INSERT (center, center-top, center-bottom)
 2. (OVERLAY; high and low)