Central European Spiders

A Memory Game

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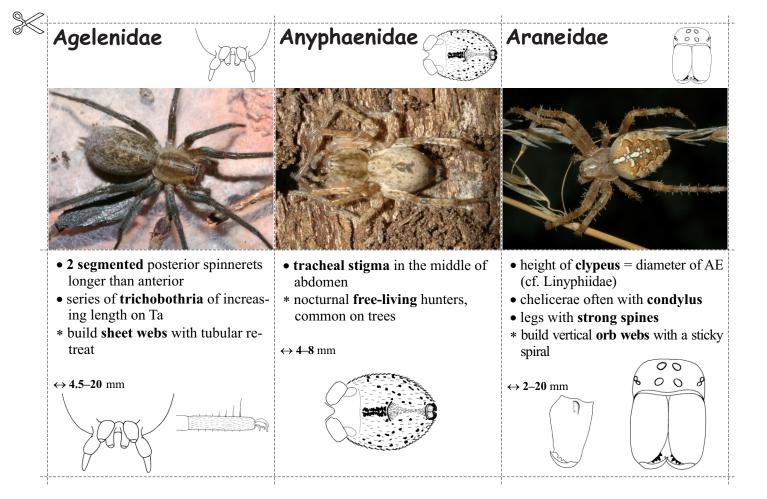
The goal of this memory game is to teach players to recognise selected families of Central European spiders. The memory game includes 33 spider families out of 42 that occur in the Central Europe (Řezáč & Růžička 2024). The remaining families were not included either because they are too rare or because their identification is more difficult.

Each family is represented by two cards which are, in contrast to the classical memory game, not completely identical. They are identical only in one character – represented by a drawing. One of the twin cards bears the name of the family and the colour photograph of a species belonging to the family. The other card includes verbal description of the main morphological characters, drawings, short information about ecology, and body size. The characters were selected to be unique for a given family. The principle of the game is the same as in other memory game – to find as many twin cards as possible.

The following abbreviations were used in the text: AE – anterior eyes, AME – anterior median eyes, LE – lateral eyes, ME – median eyes, Mt – metatarsus, PE – posterior eyes, PME – posterior median eyes, TA – tarsus.

The drawings were made using the following resources: Roberts (2001), Jocqué & Dippenaar-Schoeman (2006), and Nentwig et al. (2012).

Enjoy the game! *authors*



References

Jocqué R. & Dippenaar-Schoeman A.S. 2006. Spider Families of the World. Royal Museum for Central Africa, Tervuren.

Nentwig W., Blick T., Gloor D., Hänggi A. & Kropf C. 2012. Araneae: Spiders of Europe. URL: http://www.araneae.unibe.ch/

Řezáč M. & Růžička V. 2024. An updated checklist of spiders of Czechia. Online at https://www.arachnology.cz/checklist-of-spiders-of-Czechia-26.html.

Roberts M.J. 2001. The Spiders of Britain and Northern Europe. Harper Collins Publishers, London.

Glossary

clypeus – area between anterior carapace margin and the eye field procurved – bent forward prograde – pointing forward recurved – bent backward

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Atypidae



Clubionidae



Phrurolithidae

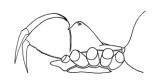




- massive orthognath chelicerae (as long as the carapace)
- * live inside closed tube-like **burrows** legs **short** and **stout**, of similar in the ground
- ↔ 7–**15** mm



- width of eye field = half of largest width of prosoma
- length (cf. Cheiracanthiidae)
- * nocturnal free-living plant-dwellers
- width of eye field < half of largest width of prosoma (cf. Clubionidae)
- Mt I+II with long ventral **bristles**
- * diurnal free-living ground-dwellers
- ↔ **3–10** mm









Dictynidae



Dysderidae

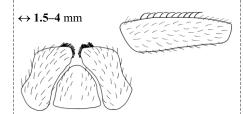


Eresidae





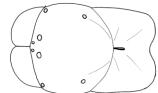
- \bigcirc calamistrum in one row
- gnathocoxae enclosing labium (cf. Titanoecidae)
- * build tangled cribellate webs on vegetation



- 6 eyes arranged in a circle
- sternum with intercoxal sclerites
- chelicerae may be porrect
- * nocturnal free-living grounddwellers
- ↔ **5–15** mm



- 8 small eyes, ME close together, LE at corners of prosoma
- carapace rectangular
- * build **tangled webs** with tubular retreat in the ground
- ↔ 3–20 mm





Gnaphosidae



Hahniidae



Linyphiidae





- anterior spinnerets cylindrical, longer than others
- 8 small eyes in 2 rows, PME oval
- * nocturnal free-living grounddwellers
- **↔ 2–18** mm



- all spinnerets arranged in a transverse row
- 8 eyes in 2 rows
- * build small sheet webs on ground
- ↔ **1.5**–**3** mm



- AE (cf. Araneidae)
- chelicerae often with stridulating ridges
- * build sheet webs on ground and in foliage







Lycosidae



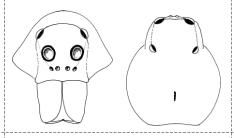




Cheiracanthiidae



- 8 eyes in 3 rows, **PME largest**, PE arranged in a square
- * free-living ground-dwellers
- ↔ **3–30** mm



- Mt I, II and Ta I, II with series of prominent spines
- 1 to 3 pairs of small tubercles on abdomen
- * free-living on foliage, araneophagic
- ↔ **2.5–4** mm



- width of **eye field** = half of largest width of prosoma
- legs long, leg I considerably longer than leg II (cf. Clubionidae)
- * nocturnal free-living plant-dwellers
- ↔ **5–15** mm







Nesticidae



Oonopidae



Oxyopidae



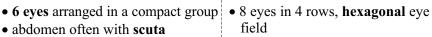








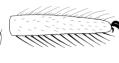
- labium with front margin swollen (cf. Theridiidae)
- legs with few or no spines, **bristles** on Ta IV
- * build tangled webs in dark places
- abdomen often with scuta
- * free-living ground-dwellers, mostly synanthropic
- ↔ < 2 mm



- all legs with very long spines
- * diurnal free-living plant-dwellers

↔ 2–6 mm















Philodromidae



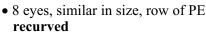




Pisauridae







- legs long, prograde, legs II usually very long and slender legs longer than others
- * free-living hunters common on foliage

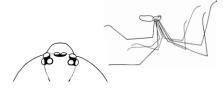






- 6 of 8 eyes arranged in 2 triads, AME much smaller than others
- * build tangled webs, mostly synanthropic

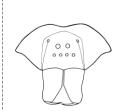
↔ **2–10** mm





- 8 eyes in 3 rows, of similar size, PE arranged in a trapezoid
- * diurnal free-living on low vegetation or water surface

↔ 9–20 mm







Salticidae



Scytodidae

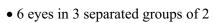


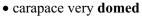
Segestriidae





- 8 eyes in 3 rows, **AME largest**, quadrangular eye field
- * diurnal free-living **jumping** hunters in canopy and on ground

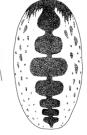




- * nocturnal free-living hunters, **spray gum** and poison from chelicerae, synanthropic
- 6 eyes in 3 groups of 2
- abdomen with a clear dark pattern
- * build **tubular webs** with radiating silk in walls or barks







↔ 2–12 mm



 \leftrightarrow 3–6 mm



Tetragnathidae



Theridiidae



Theridiosomatidae



- maxillae much longer than wide
- chelicerae often long and massive
- * build **orb webs** with open hub
- ↔ **2.5–15** mm



- legs with few or no spines, serrated bristles on Ta IV
- labium with the **margin** NOT swollen (cf. Nesticidae)
- * build tangled webs in vegetation

↔ **1.5–13** mm





- sternum with two **depressions**
- globular abdomen
- * build small horizontal **orb webs**, inverted umbrella-like









Thomisidae



Titanoecidae



Uloboridae









- row of **PE recurved**, LE usually larger than others
- than others, crab-like
- * diurnal free-living, ambushing mainly on foliage
- strong front legs (I, II), longer
- * build tangled cribellate webs under stones

• gnathocoxae parallel with labium

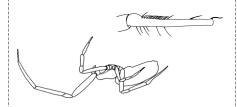
• \bigcirc calamistrum in one row

(cf. Dictynidae)

↔ 3–7 mm



- legs I and IV longer than others
- Mt IV **curved** with calamistrum
- * build horizontal orb webs or triangular webs with cribellate silk
- **↔ 3–6** mm



Zodariidae

↔ 2–11 mm



Miturgidae



Sparassidae





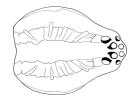




- 8 eyes arranged in **heart-like** shape
- anterior spinnerets much larger than others
- * free-living ground-dwellers, myrmecophagous
- ↔ **1.6–5** mm



- 8 eyes closely grouped
- carapace pale yellowish with pair of longitudinal brown bands
- * diurnal free-living ground-dwellers
- **↔ 4–6.5** mm



- Mt and Ta of all legs with scopulae
- apex of Mt with trilobate membrane
- * diurnal free-living plant-dweller
- ↔ 7–17 mm

