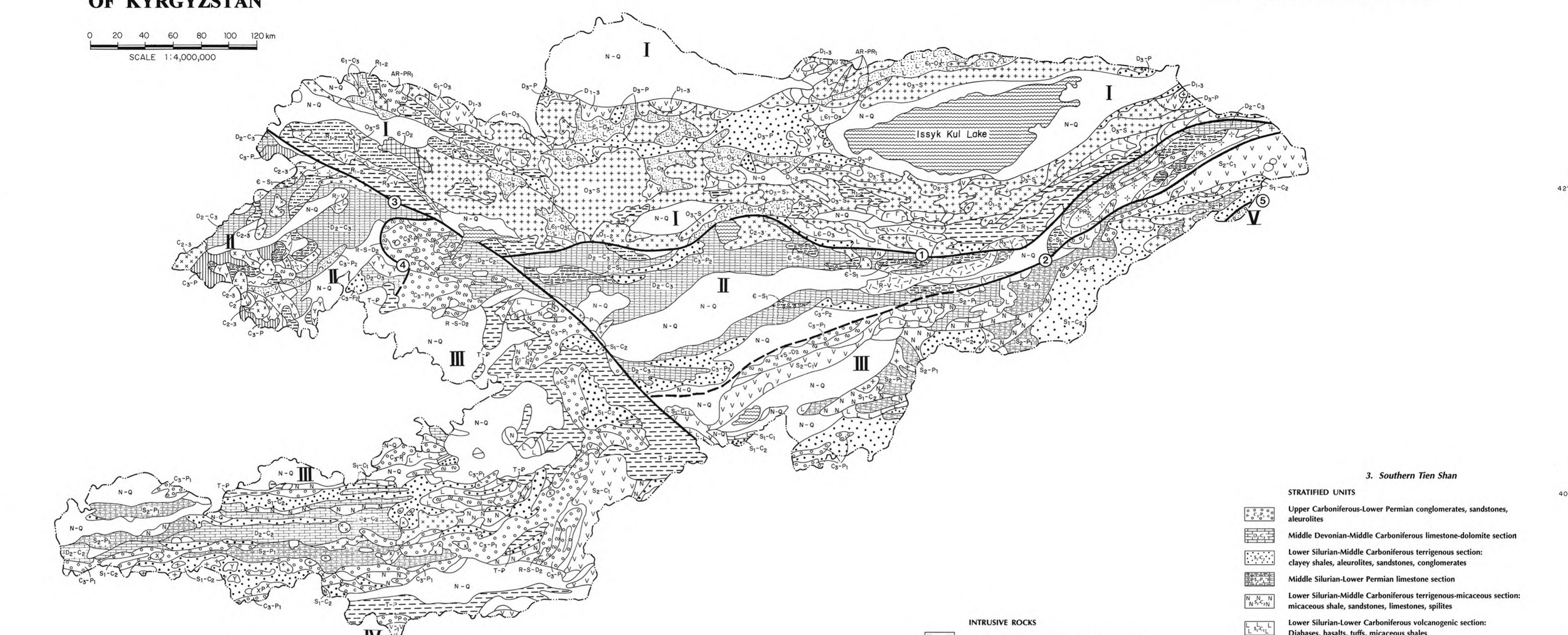


SCHEMATIC GEOLOGICAL MAP OF KYRGYZSTAN



PUBLISHED BY THE UNITED NATIONS ECONOMIC AND SOCIAL COMMISSION FOR ASIA AND THE PACIFIC IN COOPERATION WITH THE STATE CONCERN "KYRGYZALTYN" AND THE KYRGYZ MINING ASSOCIATION

0 20 40 60 80 100 120 km
SCALE 1:4,000,000



LEGEND

I. ALPINE STRUCTURAL LEVEL

- Neogene-Quaternary molasse of intermountain basins
- Triassic-Paleogene carbonaceous-terrigenous subplatform sediments

II. PRE-MESOZOIC STRUCTURAL LEVEL

1. Northern Tien Shan

- STRATIFIED UNITS**
 - Upper Devonian-Permian sandstones, aleurolites, conglomerates, layers of limestones, tuffs, mica
 - Lower-Upper Devonian andesite-basalt porphyrites, dacites, tuffs, liparites
 - Lower Cambrian-Upper Ordovician basalt and andesite porphyrites, dacites, tuffs, sandstones, conglomerates, aleurolites: a) lower (C_1-O_2) volcanogenic, b) upper (C_2-O_3) terrigenic substrata
 - Cambrian-Middle Ordovician limestones, dolomites
 - Upper Riphean-Vendian liparites, dacites, tuffs, shales, sandstones, lylites, limestones
 - Lower-Middle Riphean phyllites, shales, limestones, liparites, dacites, porphyrites, tuffs, quartzites, conglomerates, sandstones
 - Archaen-Lower Proterozoic amphibolites, gneisses, migmatites, quartzites, eclogites, marbles
- INTRUSIVE ROCKS**
 - Permian syenites, nepheline syenites, granosyenites
 - Permian leucocratic granites, granosyenites
 - Late Ordovician-Silurian granites, granodiorites
 - Early-Middle Ordovician granodiorites, tonalites, quartz monzonites
 - Cambrian diorites, gabbro, gabbro-diorites
 - Riphean plagiogranites, granites, granodiorites, gneissose granites

2. Middle Tien Shan

- STRATIFIED UNITS**
 - Upper-Carboniferous-Middle Permian: a) dacites, andesites, tuffs; b) shales, sandstones, conglomerates
 - Middle Carboniferous andesite-dacite porphyrites
 - Middle Devonian-Upper Carboniferous limestones, dolomites, shales, sandstones, conglomerates
 - Lower-Middle Devonian andesites, dacites, tuffs, sandstones, conglomerates
 - Cambrian-Lower Silurian micaceous and clayey shales, limestones, sandstones, aleurolites, layers of porphyrites
 - Riphean-Vendian shales, liparites, phyllites, trachibasalts, tilloids
 - Lower Proterozoic (?) gneisses, crystalline shales, amphibolites, marbles
- INTRUSIVE ROCKS**
 - Late Carboniferous-Permian granodiorites, granites, granosyenites
 - Middle-Late Carboniferous gabbro, diorites, monzonites, granodiorites, granite-porphyrines
 - Silurian granites, granodiorites, often gneiss-like
 - Middle Proterozoic porphyry-like granites and granodiorites, plagiogranites

3. Southern Tien Shan

- STRATIFIED UNITS**
 - Upper Carboniferous-Lower Permian conglomerates, sandstones, aleurolites
 - Middle Devonian-Middle Carboniferous limestone-dolomite section
 - Lower Silurian-Middle Carboniferous terrigenous section: clayey shales, aleurolites, sandstones, conglomerates
 - Middle Silurian-Lower Permian limestone section
 - Lower Silurian-Middle Carboniferous terrigenous-micaceous section: micaceous shale, sandstones, limestones, splipples
 - Lower Silurian-Lower Carboniferous volcanic section: Diabases, basalts, tuffs, micaceous shales
 - Riphean-Middle Devonian metamorphic section: green shales, overlapped by limestone shales of Silurian-Middle Devonian age.
 - Middle Silurian-Lower Carboniferous. Complex relationship between shales, sandstones, limestones, andesites, basalts, tuffs, splipples
- INTRUSIVE ROCKS**
 - Permian-Triassic alkaline and nepheline syenites
 - Permian granites, granodiorites, alaskites
 - Permian quartz diorites, granodiorites, monzonites

4. Northern Pamir

- Permian sandstones, aleurolites, conglomerates
- Lower Carboniferous splipples, basalts, tuffs, sandstones, dacites

5. Tarim

- Proterozoic-Lower Permian metamorphic rocks, limestones, shales, sandstones

Regional faults

- Nikolaev line
- Atbaschy-Inylchekskiy
- Talas-Ferganskij
- Karasuyskiy
- Kipchakskiy

MAJOR TECTONIC UNITS

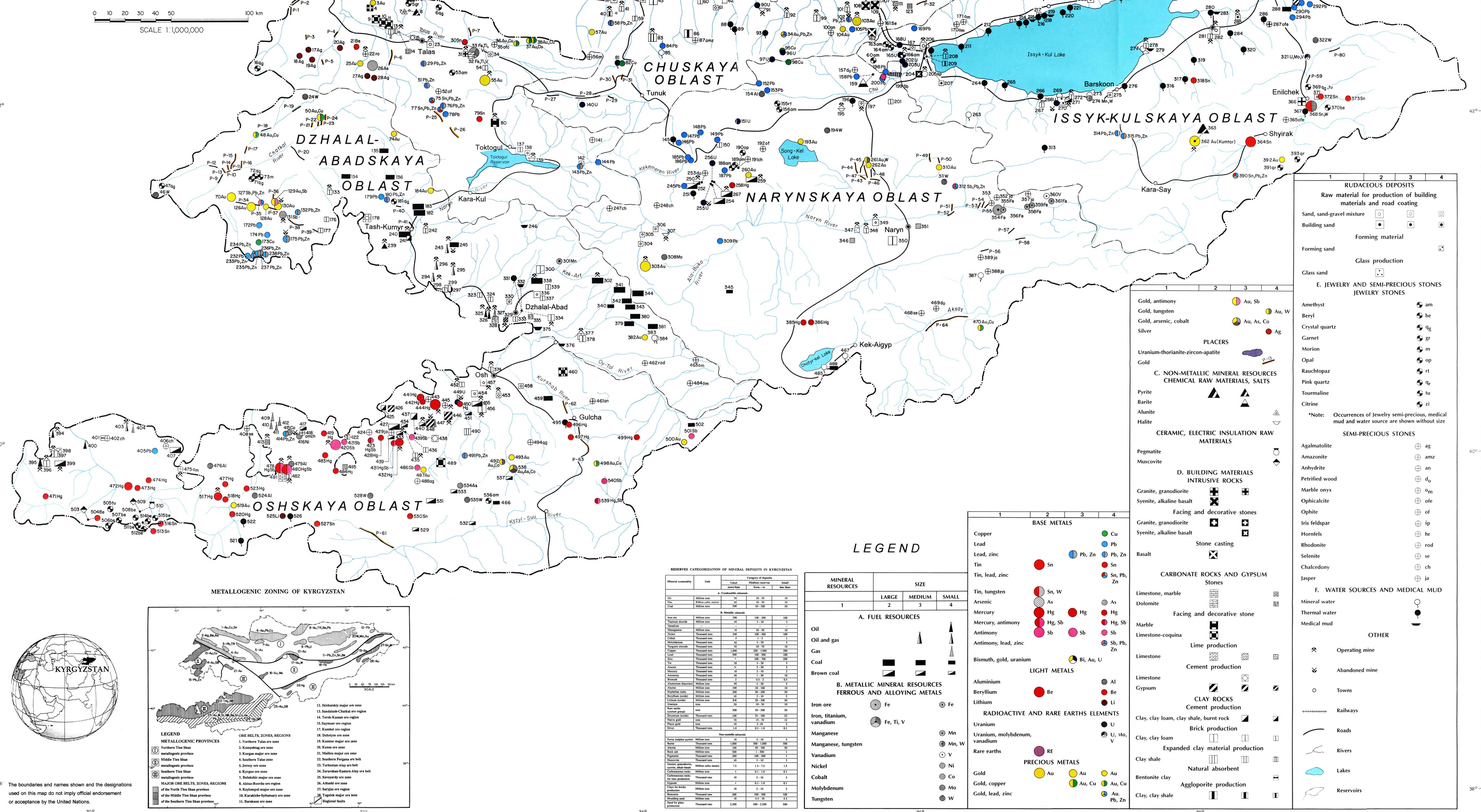
- I Northern Tien Shan
- II Middle Tien Shan
- III Southern Tien Shan
- IV Northern Pamir
- V Tarim



The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

MINERAL RESOURCES MAP OF KYRGYZSTAN

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