

Exemple Class extracted from the text:

Geographical Space

- **Total Area:** Numeric (e.g., 17,098,242 km² for Russia)
 - **Population Density:** Numeric (e.g., 9 people/km² for Canada)
 - **Climate Type:** Categorical (e.g., Temperate, Tropical, Continental)
 - **Topography:** Text (e.g., "Mountainous terrain with vast plains")
 - **Natural Hazards:** List (e.g., [Earthquakes, Tsunamis])
 - **Resources:** List (e.g., [Oil, Gas, Timber])
 - **Biodiversity Level:** Categorical (e.g., High, Medium, Low)
 - **Accessibility:** Text (e.g., "Limited in remote areas")
 - **Strategic Importance Level:** Categorical (e.g., High, Low)
 - **Bordering Countries:** List (e.g., [China, India, Mongolia for Russia])
 - **Major Rivers and Water Bodies:** List (e.g., [Volga River, Caspian Sea])
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Country

- **Name:** Text (e.g., Russia)
 - **Capital:** Text (e.g., Moscow)
 - **Population:** Numeric (e.g., 144 million)
 - **Official Language:** Text (e.g., Russian)
 - **Currency:** Text (e.g., Ruble)
 - **Region:** Text (e.g., Eastern Europe, Asia)
 - **Government Type:** Text (e.g., Federal Republic)
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Natural Barriers

- **Barrier Type:** Categorical (e.g., Mountain, Ocean, River)
 - **Name:** Text (e.g., Himalayas)
 - **Impact:** Text (e.g., "Impacts trade, cultural exchange")
 - **Length/Extent:** Numeric (e.g., 2,400 km for the Himalayas)
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Climate

- **Type:** Categorical (e.g., Tropical, Temperate, Continental)
 - **Temperature Range:** Numeric (e.g., -40°C to 30°C)
 - **Precipitation:** Numeric (e.g., 500 mm annually)
 - **Seasonal Variability:** Categorical (e.g., Monsoonal, Dry)
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Topography

- **Terrain Type:** Categorical (e.g., Mountainous, Plain)
 - **Elevation Range:** Numeric (e.g., Sea level to 8,848 m for Mount Everest)
 - **Notable Features:** Text (e.g., "Himalayan mountains, plateaus")
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Natural Hazards

- **Type:** Categorical (e.g., Earthquake, Tsunami, Flood)
 - **Severity:** Numeric (e.g., Richter Scale for earthquakes)
 - **Frequency:** Numeric (e.g., Occurs every 10 years)
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Resources

- **Resource Type:** Categorical (e.g., Mineral, Oil, Timber)
 - **Abundance:** Numeric (e.g., 100 billion barrels for oil)
 - **Exploitation Status:** Categorical (e.g., Fully Exploited, Untapped)
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Strategic Importance

- **Importance Level:** Categorical (e.g., High, Low)
 - **Military Presence:** Numeric (e.g., 50 military bases)
 - **Political Influence:** Categorical (e.g., Major Power)
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Accessibility

- **Transport Infrastructure:** Categorical (e.g., Roads, Rail, Air)
 - **Accessibility Issues:** Text (e.g., "Mountainous terrain")
 - **Connectivity with Neighboring Regions:** Text (e.g., "Limited due to mountainous regions")
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Rivers and Water Bodies

- **River Type:** Categorical (e.g., River, Lake, Sea)
 - **Length/Area:** Numeric (e.g., 4,400 km for the Amazon River)
 - **Water Quality:** Categorical (e.g., Clean, Polluted)
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Economic Indicators

- **GDP:** Numeric (e.g., \$1.7 trillion)

- **GDP per Capita:** Numeric (e.g., \$12,000)
 - **Inflation Rate:** Numeric (e.g., 3.5%)
 - **Unemployment Rate:** Numeric (e.g., 5.2%)
 - **Major Industries:** List (e.g., [Manufacturing, Services, Technology])
 - **Trade Balance:** Numeric (e.g., \$100 billion surplus)
 - **Foreign Direct Investment (FDI):** Numeric (e.g., \$50 billion)
 - **Public Debt:** Numeric (e.g., 60% of GDP)
 - **Economic Growth Rate:** Numeric (e.g., 2.7% annually)
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Political Structure

- **Government Type:** Categorical (e.g., Democracy, Autocracy, Federal Republic)
 - **Political Stability:** Categorical (e.g., Stable, Unstable, Transitional)
 - **Major Political Parties:** List (e.g., [United Russia, Servant of the People])
 - **International Memberships:** List (e.g., [UN, NATO, WTO])
 - **Legal System:** Text (e.g., Common Law, Civil Law, Sharia Law)
 - **Corruption Index:** Numeric (e.g., Transparency International score of 45)
 - **Judicial Independence:** Categorical (e.g., Independent, Influenced by Government)
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Social Factors

- **Literacy Rate:** Numeric (% e.g., 99%)
- **Life Expectancy:** Numeric (years, e.g., 72 years)
- **Ethnic Composition:** List (e.g., [Russians, Ukrainians, Tatars])
- **Religion:** List (e.g., [Orthodox Christianity, Islam, Judaism])
- **Education System:** Text (e.g., "Compulsory education until 16")
- **Healthcare System:** Text (e.g., "Universal healthcare, Private healthcare")
- **Population Growth Rate:** Numeric (e.g., 1.2% annually)

EXAMPLE IN KG:

Entities

1. **Country**
 - **Name:** "Russia"
 - **Capital:** "Moscow"
 - **Population:** 144 million

- **Official Language:** "Russian"
- **Currency:** "Ruble"
- **Region:** "Eastern Europe, Asia"
- **Government Type:** "Federal Republic"

2. Ukraine

- **Name:** Ukraine
- **Capital:** Kyiv
- **Population:** 41 million
- **Official Language:** Ukrainian
- **Currency:** Hryvnia
- **Region:** Eastern Europe
- **Government Type:** Unitary

Relationship

- **Relationship Name:** SharesBorderWith

Properties of the Relationship

- **NO PROPERTIES**

This would translate into a knowledge graph:

- **Node 1 (Country):**
 - Name: Russia
 - Attributes: Total Area, Population Density, Climate Type, Resources, Biodiversity Level
- **Node 2 (Country):**
 - Name: Ukraine
 - Attributes: Capital, Population, Official Language, Currency, Region, Government Type
- **Edge (Relationship):**
 - **Name:** SharesBorderWith

[Geographical Space:](#)

Eurasian Flatlands

- **Total area:** Approximately 10,000,000 km² (estimate).
- **Population density:** Low to medium (varies by subregion).
- **Major rivers and water bodies:** Dnieper River, Volga River, Ural River.

Rimland

- **Total area:** Approximately 20,000,000 km² (spanning multiple countries).
- **Population density:** Medium to high in urban centers.
- **Major rivers and water bodies:** Pacific Ocean, South China Sea, Indian Ocean.

Intermarium Corridor

- **Total area:** Approximately 500,000 km² (estimate).
- **Population density:** Medium.
- **Major rivers and water bodies:** Vistula River, Baltic Sea.
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Carpathian Mountains

- **Total area:** Approximately 200,000 km² (range).
- **Population density:** Low (sparsely populated).
- **Major rivers and water bodies:** Tisza River.

Caucasus

- **Total area:** Approximately 440,000 km² (estimate).
- **Population density:** Low to medium.
- **Major rivers and water bodies:** Kura River, Caspian Sea.

Black Sea

- **Total area:** 436,402 km².
- **Population density:** N/A (water body).
- **Major rivers and water bodies:** Dnieper River (tributary).

Caspian Sea

- **Total area:** 371,000 km².
- **Population density:** N/A (water body).
- **Major rivers and water bodies:** Volga River.

Europe

Countries:

1. Russia

- **Name:** Russia
- **Capital:** Moscow

- **Population:** 144 million
- **Official Language:** Russian
- **Currency:** Ruble
- **Region:** Eastern Europe, Asia
- **Government Type:** Federal

2. Canada

- **Name:** Canada
- **Capital:** Ottawa
- **Population:** 38 million
- **Official Language:** English, French
- **Currency:** Canadian Dollar
- **Region:** North America
- **Government Type:** Federal Parliamentary

3. China

- **Name:** China
- **Capital:** Beijing
- **Population:** 1.4 billion
- **Official Language:** Mandarin
- **Currency:** Renminbi (Yuan)
- **Region:** East Asia
- **Government Type:** Socialist Republic

4. India

- **Name:** India
- **Capital:** New Delhi
- **Population:** 1.4 billion
- **Official Language:** Hindi, English
- **Currency:** Indian Rupee
- **Region:** South Asia
- **Government Type:** Federal Parliamentary

5. Ukraine

- **Name:** Ukraine
- **Capital:** Kyiv
- **Population:** 41 million
- **Official Language:** Ukrainian
- **Currency:** Hryvnia
- **Region:** Eastern Europe
- **Government Type:** Unitary

Natural Barriers:

1. Himalayas

- **Barrier Type:** Mountain
- **Name:** Himalayas
- **Impact:** Impacts trade, cultural exchange
- **Length/Extent:** 2,400 km

2. Pacific Ocean

- **Barrier Type:** Ocean
- **Name:** Pacific Ocean
- **Impact:** Acts as a natural defense and influences climate
- **Length/Extent:** Not specified

3. Sahara Desert

- **Barrier Type:** Desert
- **Name:** Sahara Desert
- **Impact:** Hinders movement and trade across North Africa
- **Length/Extent:** 9.2 million km²

4. Amazon River

- **Barrier Type:** River
- **Name:** Amazon River
- **Impact:** Affects regional accessibility and ecosystems
- **Length/Extent:** 6,575 km

5. Rocky Mountains

- **Barrier Type:** Mountain
- **Name:** Rocky Mountains
- **Impact:** Impacts travel and trade routes in North America
- **Length/Extent:** 4,800 km

6. Andes Mountains

- **Barrier Type:** Mountain
- **Name:** Andes Mountains
- **Impact:** Defines regional geography and climate in South America
- **Length/Extent:** 7,000 km

7. Atlantic Ocean

- **Barrier Type:** Ocean
- **Name:** Atlantic Ocean
- **Impact:** Facilitates and hinders transatlantic trade and migration

- **Length/Extent:** Not specified

Climate:

1. Tropical

- **Type:** Tropical
- **Seasonal Variability:** Monsoonal

2. Temperate

- **Type:** Temperate
- **Seasonal Variability:** Distinct seasons

3. Continental

- **Type:** Continental
- **Seasonal Variability:** Dry winters, warm summers

topology:

1. Mountainous

- **Elevation Range:** 0 m to 8,848 m (Mount Everest)
- **Notable Features:** "Himalayan mountains, plateaus"

2. Plain

- **Elevation Range:** 0 m to 1,000 m
- **Notable Features:** "Vast plains"

Natural Hazard:

Earthquake

- **Type:** Earthquake
- **Severity:** Not specified in the text
- **Frequency:** Not specified in the text

Tsunami

- **Type:** Tsunami
- **Severity:** Not specified in the text
- **Frequency:** Not specified in the text

Resources:

1. Oil
 - Resource type: Oil
2. Gas
 - Resource type: Gas
3. Timber
 - Resource type: Timber

Strategic importance:

1. High
2. low

Accessibility:

1. Accessibility

Economic indicators :

1. GDP
2. Major Industries
3. Economic Growth Rate

Political Structure

- Government Type
- PoliticalStability
- MajorPoliticalParties
- InternationalMemberships
- LegalSystem
- CorruptionIndex
- JudicialIndependence

Infrastructure :

- TransportInfrastructure
- EnergyInfrastructure
- CommunicationInfrastructure
- UrbanizationRate
- AccesstoCleanWater
- ElectricityAccess

Military:

1. Russian Armed Forces:

- Military Expenditure: ~\$65 billion

- **Military Bases:** Numerous domestic and occupied bases
- **Military Alliances:** CSTO, SCO
- **Defense Systems:** S-400 missile defense
- **Active-duty Personnel:** ~1 million
- **Reserve Forces:** ~2 million
- **Nuclear Arsenal:** ~6,375 warheads

2. Ukrainian Armed Forces:

- **Military Expenditure:** ~\$5-6 billion
- **Military Bases:** Various bases, especially in conflict zones
- **Military Alliances:** NATO Partnership
- **Defense Systems:** S-300, Buk missile systems
- **Active-duty Personnel:** ~250,000
- **Reserve Forces:** ~80,000
- **Nuclear Arsenal:** None

3. Ukrainian National Guard:

- **Military Expenditure:** Part of Ukraine's overall budget
- **Military Bases:** Operates in urban and conflict areas
- **Military Alliances:** Aligns with NATO-supported forces
- **Defense Systems:** Shares defense systems with the military
- **Active-duty Personnel:** ~60,000
- **Reserve Forces:** Additional mobilization available
- **Nuclear Arsenal:** None

4. Russian Ministry of Defence:

- **Military Expenditure:** Part of Russia's overall military budget
- **Military Bases:** Oversees numerous bases
- **Military Alliances:** CSTO, SCO
- **Defense Systems:** Manages missile defense systems
- **Active-duty Personnel:** ~1 million
- **Reserve Forces:** ~2 million
- **Nuclear Arsenal:** ~6,375 warheads

International relationship:

- **InternationalRelation**

Environmental Factors:

- **Protected Areas**
- **Pollution Levels**
- **Climate Change Impact**
- **Natural Resource Management**
- **Biodiversity**

Demographic:

- Demographic

Technology:

- Technology

Historical Context

- Colonial History
- Major Conflicts
- Historical Treaties
- Historical Alliances

Economic policies:

- tradePolicies
- monetaryPolicies
- fiscalPolicies
- economicReforms
- subsidiesAndGrants

cultural factors:

- Language Diversity
- Cultural Heritage
- National Identity
- Cultural Institutions
- Festivals and Traditions

Legal frameworks:

- HumanRightsRecord: Categorical (e.g., Good, Poor)
- JudicialSystem: Text (e.g., Independence, Government-controlled)
- LawEnforcementAgencies: List (e.g., FSB, SBU)
- IntellectualPropertyLaws: Text (e.g., Strong protection, Weak enforcement)
- RegulatoryEnvironment: Text (e.g., Business-friendly, Bureaucratic)

Geographical Space

1. Eurasian Flatlands → IsPartOf → Rimland
 - Property: Role: Primary Terrain.
 2. Intermarium Corridor → LiesWithin → Eurasian Flatlands
 - Property: Significance: Strategic Buffer Zone.
 3. Carpathian Mountains → SharesBorderWith → Ukraine
 - Property: Function: Natural Barrier; Use: Defense Line.
 4. Caucasus → Separates → Russia/Black Sea
 5. Black Sea → ConnectsTo → Caspian Sea
 - Property: Connection: Waterways.
 6. Rimland → Encircles → Eurasian Flatlands
 - Property: Function: Strategic Perimeter.
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Countries

1. Russia → SharesBorderWith → Ukraine
 2. Canada → IsNeighborOf → USA
 - Property: Trade Relationship: Strong.
 3. China → SharesBorderWith → India
 - Property: Conflict Zone: Himalayas.
 4. India → MaintainsTradeWith → Russia
 - Property: Focus: Energy.
 5. Ukraine → IsPartOf → Intermarium Corridor
 6. Ukrain → IsIn → Europe
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Natural Barriers

1. Himalayas → Separate → India/ China
 2. Pacific Ocean → SharesBorderWith → Russia
 3. Atlantic Ocean → ConnectsTo → Europe
 - Property: Function: Trade Route.
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Climate

1. Russia → HasClimateType → Continental
 - Property: Temperature Range: Extreme Winters.
2. India → HasClimateType → Tropical
 - Property: Monsoon: Heavy Seasonal Rains.
3. Canada → HasClimateType → Temperate

- **Property: Northern Areas: Subarctic.**
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Topology

- 1. Ukraine → ConsistsOf → Plain**
 - 2. Russia → Includes → Mountainous**
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Natural Hazards

- 1. Himalayas → AreProneTo → Earthquake**
 - 2. Pacific Ocean → Causes → Tsunami**
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Resources

- 1. Russia → Exports → Oil**
 - **Property: Region: Siberia.**
 - 2. Canada → Supplies → Timber**
 - **Property: Focus: Sustainable Forestry.**
 - 3. Ukraine → Possesses → Gas**
 - **Property: Location: Eastern Reserves.**
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Strategic Importance

- 1. Intermarium Corridor → HasStrategicImportance → High**
 - **Property: Function: Defense Buffer.**
 - 2. Carpathian Mountains → HaveStrategicImportance → Low**
 - **Property: Use: Limited to Border Protection.**
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Accessibility

- 1. Ukraine → HasLimited → Accessibility**
 - **Property: Cause: Ongoing Conflict.**
 - 2. Russia → FacesChallengesIn → Accessibility**
 - **Property: Reason: Harsh Winters.**
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Economic Indicators

- 1. China → HasHigh → GDP**

- **Property: Rank: Second Globally.**
 - 2. **India → FocusesOn → Major Industries**
 - **Property: Example: Technology.**
 - 3. **Ukraine → HasFluctuating → Economic Growth Rate**
 - **Property: Cause: Conflict.**
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Political Structure

- 1. **Canada → BelongsTo → International Memberships**
 - **Propey: Example: G7.**
 - 2. **Ukraine → AspiresToJoin → International Memberships**
 - **Property: Goal: EU and NATO.**
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Infrastructure

- 1. **India → Develops → Transport Infrastructure**
 - **Property: Type: High-Speed Rail.**
 - 2. **Russia → Expands → Energy Infrastructure**
 - **Property: Resource: Gas Pipelines.**
 - 3. **Ukraine → LacksDevelopmentIn → Communication Infrastructure**
 - **Property: Area: Rural Regions.**
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Military

- 1. **Russian Ministry of Defence → Commands → Russian Armed Forces**
 - **Property: Objective: National Security.**
 - 2. **Ukraine → Maintains → Ukrainian National Guard**
 - **Property: Role: Crisis Management.**
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International Relationships

- 1. **Russia → HasTensionsWith → Ukraine**
 - **Property: Cause: Territorial Disputes.**
 - 2. **Canada → Supports → Ukraine**
 - **Property: Type: Humanitarian Aid.**
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Environmental Factors

- 1. **Canada → Manages → Natural Resource Management**

- **Property: Focus: Forestry.**
 - 2. China → Faces Challenges In → Pollution Levels**
 - **Property: Source: Industrial Activity.**
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Demographics

- 1. Russia → Faces Decline In → Demographic**
 - **Property: Cause: Aging Population.**
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Technology

- 1. India → Develops → Technology**
 - **Property: Sector: Software Development.**
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Historical Context

- 1. Ukraine → Has Historical Conflict With → Russia**
 - **Property: Example: Crimean Dispute.**
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Cultural Factors

- 1. India → Celebrates → Festivals and Traditions**
 - **Property: Example: Diwali.**
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Legal Frameworks

- 1. Canada → Upholds → Human Rights Record**
 - **Property: Rating: Strong.**