

# Cheemera belief structuring examples

Sentences are one of the core elements of Cheemera beliefs:

All sentences must be grammatically complete and be framed in the positive sense:

Acceptable:

- The situation is puzzling
- The license in question is legally obtained.
- The temperature is above 35 degrees.

Unacceptable:

- The situation is not puzzling
- The person is not qualified as a doctor.

Topics in a sentence must make sense by itself and must avoid relative language.

Acceptable:

- The person in question is licensed to be a lawyer.
- An unacceptable situation arises.

Unacceptable:

- It is a good person (*what is 'it'?*)
- The food is better than yesterday ('Better' than what?)

Text-to-Scenario examples

These are examples showing how rules, principles and beliefs written in text should be translated into the Cheemera Scenario Schema.

```
//Belief: If A and B are true, then C and E are true.
{
  "scenario":
  {
```

```

"type": "IF_THEN",
"consequences":
[
  {
    "modal": "Always",
    "properties":
    [
      {
        "valence": true,
        "sentence": "C is true"
      },
      {
        "valence": true,
        "sentence": "E is true"
      }
    ]
  }
],
"antecedents":
[
  [
    {
      "valence": true,
      "sentence": "A is true"
    },
    {
      "valence": false,
      "sentence": "B is true"
    }
  ]
]
},
"beliefUniqueId": "uusdfe-dgdfg32-3434-dfg11",
"originatingRuleSystemName": "Belief set 1",

```

```
"originatingRuleSystemUuid": "uuid-1"
}
```

```
//Belief: If A or B are true, then C and E are true
```

```
{
  "scenario":
  {
    "type": "IF_THEN",
    "consequences": [
      {
        "modal": "Always",
        "properties": [
          {
            "valence": true,
            "sentence": "C is true"
          },
          {
            "valence": true,
            "sentence": "E is true"
          }
        ]
      }
    ],
    "antecedents": [
      [
        {
          "valence": true,
          "sentence": "A is true"
        }
      ],
      [
        {
          "valence": true,
          "sentence": "B is true"
        }
      ]
    ]
  }
}
```

```

    ]
  },
  "beliefUniqueId": "uusdfe-dgdgfg32-3434-dfg12",
  "originatingRuleSystemName": "Belief set 1",
  "originatingRuleSystemUuid": "uuid-1"
}

```

If A and B are true, then C and E are true.

```

{
  "type": "IF_THEN",
  "consequences": [
    {
      "modal": "Always",
      "properties": [
        {
          "valence": true,
          "sentence": "C is true"
        },
        {
          "valence": true,
          "sentence": "E is true"
        }
      ]
    }
  ],
  "antecedents": [
    [
      {
        "valence": true,
        "sentence": "A is true"
      },
      {
        "valence": false,
        "sentence": "B is true"
      }
    ]
  ]
}

```

```
    }
  ]
]
}
```

If A and B are true or if C are true, then D and E are true

```
{
  "type": "IF_THEN",
  "consequences": [
    {
      "modal": "Always",
      "properties": [
        {
          "valence": true,
          "sentence": "C is true"
        },
        {
          "valence": true,
          "sentence": "E is true"
        }
      ]
    }
  ],
  "antecedents": [
    {
      "valence": true,
      "sentence": "A is true"
    },
    {
      "valence": true,
      "sentence": "B is true"
    }
  ]
}
```

```
],
  [
    {
      "valence": true,
      "sentence": "C is true"
    }
  ]
}
```

```
//Belief: If A and B are true, then D and E is true and F and G
{
  "scenario":
  {
    "type": "IF_THEN",
    "consequences": [
      {
        "modal": "Always",
        "properties": [
          {
            "valence": true,
            "sentence": "D is true"
          },
          {
            "valence": true,
            "sentence": "E is true"
          }
        ]
      },
      {
        "modal": "Never",
        "properties": [
          {
            "valence": true,
            "sentence": "F is true"
          }
        ]
      }
    ]
  }
}
```

```

        {
          "valence": false,
          "sentence": "G is true"
        }
      ]
    },
    "antecedents": [
      [
        {
          "valence": true,
          "sentence": "A is true"
        },
        {
          "valence": true,
          "sentence": "B is true"
        }
      ]
    ],
    "beliefUniqueId": "uusdfe-dgdfg32-3434-593hfn",
    "originatingRuleSystemName": "Belief set 1",
    "originatingRuleSystemUuid": "uuid-1"
  }
}

```

If A and B are true, then D and E is true and F and G is not true.

```

{
  "type": "IF_THEN",
  "consequences": [
    {
      "modal": "Always",
      "properties": [
        {
          "valence": true,

```

```

        "sentence": "D is true"
    },
    {
        "valence": true,
        "sentence": "E is true"
    }
]
},
{
    "modal": "Never",
    "properties": [
        {
            "valence": true,
            "sentence": "F is true"
        },
        {
            "valence": false,
            "sentence": "G is true"
        }
    ]
}
],
"antecedents": [
    [
        {
            "valence": true,
            "sentence": "A is true"
        },
        {
            "valence": true,
            "sentence": "B is true"
        }
    ]
}

```



```
//Belief: C is never true when A and B are true, and vice versa
{
  "scenario":
  {
    "type": "MUTUAL_EXCLUSION",
    "antecedents": [
      [
        {
          "valence": true,
          "sentence": "A is true"
        },
        {
          "valence": true,
          "sentence": "B is true"
        }
      ],
      [
        {
          "valence": true,
          "sentence": "C is true"
        }
      ]
    ],
    "beliefUniqueId": "uusdfe-dgdfg32-3434-57393",
    "originatingRuleSystemName": "Belief set 1",
    "originatingRuleSystemUuid": "uuid-1"
  }
}
```

```
//Belief: Only one of A, B or C can be true.
{
  "scenario":
  {
    "type": "MUTUAL_EXCLUSION",
    "antecedents": [
```

```

    [
      {
        "valence": true,
        "sentence": "A is true"
      }
    ],
    [
      {
        "valence": true,
        "sentence": "B is true"
      }
    ],
    [
      {
        "valence": true,
        "sentence": "C is true"
      }
    ]
  ],
  "beliefUniqueId": "uusdfe-dgdfg32-gggd-11232",
  "originatingRuleSystemName": "Belief set 1",
  "originatingRuleSystemUuid": "uuid-1"
}

```

```

//Belief: A, B and C are always true together. Or you can say th
{
  "scenario":
  {
    "type": "MUTUAL_INCLUSION",
    "antecedents": [
      [
        {
          "valence": true,
          "sentence": "A is true"
        }
      ]
    ]
  }
}

```

```

    ],
    [
      {
        "valence": true,
        "sentence": "B is true"
      }
    ],
    [
      {
        "valence": true,
        "sentence": "C is true"
      }
    ]
  ],
  "beliefUniqueId": "33423-dgdfg32-3434-dfg12",
  "originatingRuleSystemName": "Belief set 1",
  "originatingRuleSystemUuid": "uuid-1"
}

```

```

//Belief: You can only have a situation where either A is true,
{
  "scenario":
  {
    "type": "MUTUAL_EXCLUSION",
    "antecedents": [
      [
        {
          "valence": true,
          "sentence": "A is true"
        }
      ],
      [
        {
          "valence": true,
          "sentence": "B is true"
        }
      ]
    ]
  }
}

```

```
    },
    {
      "valence": true,
      "sentence": "D is true"
    }
  ],
  [
    {
      "valence": true,
      "sentence": "C is true"
    }
  ]
},
  "beliefUniqueId": "uusdfe-4jffj-3434-dfg12",
  "originatingRuleSystemName": "Belief set 1",
  "originatingRuleSystemUuid": "uuid-1"
}
```