Chemistry

In[ ]:=

```
caffeine = caffeine CHEMICAL
```

Out[ ]=

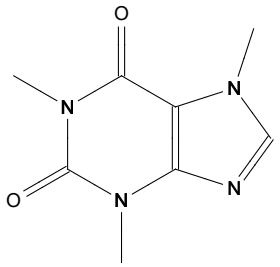
caffeine

In[ ]:=

```
ChemicalData[caffeine CHEMICAL, "StructureDiagram"]
```

化学数据

Out[ ]=

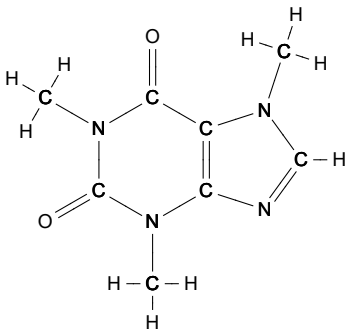


In[ ]:=

```
ChemicalData[caffeine CHEMICAL, "CHStructureDiagram"]
```

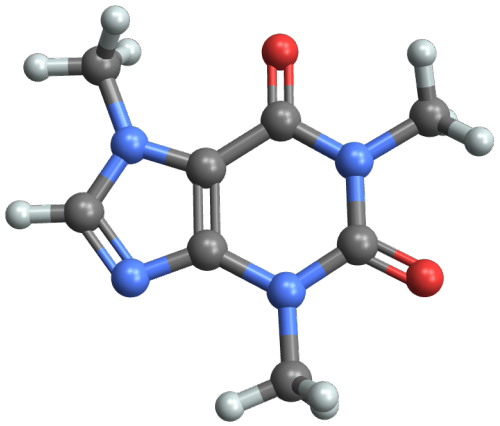
化学数据

Out[ ]=



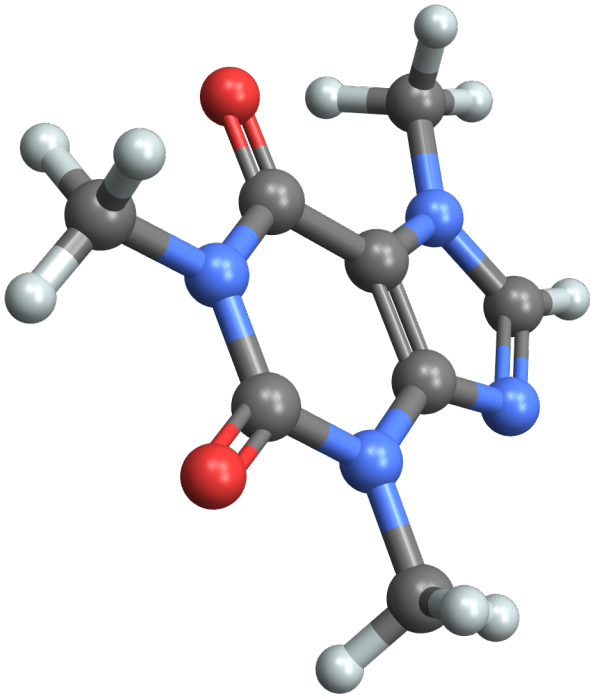
In[ ]:= `ChemicalData[caffeine CHEMICAL, "MoleculePlot"]`
化学数据 二维分子图

Out[ ]=



In[ ]:= `MoleculePlot3D[caffeine]`
三维分子图

Out[ ]=



In[ ]:= `planets = planets PLANETS`

Out[ ]=

planets

In[ ]:= `EntityList[planets]`
实体列表

Out[ ]=

{Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune}

In[ ]:= **Jupiter** PLANET

Out[ ]=

Jupiter

In[ ]:= **Jupiter** PLANET **["Satellites"]**

Out[ ]=

{Metis, Adrastea, Amalthea, Thebe, Io, Europa, Ganymede, Callisto, Themisto, Leda, S/2018 J1, Himalia, S/2017 J4, Lysithea, Elara, Dia, S/2003 J12, Carpo, Valetudo, Euporie, S/2003 J3, S/2003 J18, S/2017 J7, S/2017 J3, S/2016 J1, Orthosie, Euanthe, Harpalyke, Praxidike, Thyone, S/2003 J16, S/2010 J1, S/2010 J2, Iocaste, Mneme, Hermippe, Thelxinoe, Helike, Ananke, S/2017 J9, S/2017 J6, S/2003 J15, Eurydome, Arche, Herse, Pasithee, S/2003 J10, Chaldene, S/2011 J2, Isonoe, S/2017 J5, S/2017 J8, Erinome, Kale, Aitne, S/2017 J2, Taygete, S/2003 J9, Carme, S/2011 J1, Sponde, Megaclite, S/2003 J5, S/2003 J19, S/2017 J1, S/2003 J23, Kalyke, Kore, Pasiphae, Eukelade, S/2003 J4, Sinope, Hegemone, Aoede, Kallichore, Autonoe, Callirrhoe, Cyllene, S/2003 J2}

In[ ]:= **PlanetData[Jupiter** PLANET **, "AtmosphericComposition"]**
行星数据

Out[ ]=

⟨| hydrogen → (85.1 to 87.5) vol%, helium → (14. to 16.3) vol%,
methane → (0.233 to 0.247) vol%, ammonia → (0 to 0.12) vol%,
water → (0.0033 to 0.0099) vol%, hydrogen sulfide → (0. × 10^{-4} to 0.015) vol%,
neon → (0.00203 to 0.00257) vol%, deuterium hydride → 0.0011 vol%,
argon → (0.0002 to 0.0015) vol%, phosphine → (0 to 0.0010) vol%,
ethane → (0 to 0.0005) vol%, ethylene → (0 to 0.00002) vol%,
methane-d 1 → 2. × 10^{-6} vol%, acetylene → (0 to 3.02 × 10^{-6}) vol%,
krypton → (4.2 × 10^{-7} to 1.3 × 10^{-6}) vol%, xenon → (2.3 × 10^{-7} to 8.1 × 10^{-7}) vol%,
germane → 6. × 10^{-8} vol%, methylamine → (0 to 1.6 × 10^{-7}) vol%,
hydrogen cyanide → (0 to 1.6 × 10^{-7}) vol%, carbon monoxide → 1. × 10^{-8} vol% |⟩

In[ ]:=

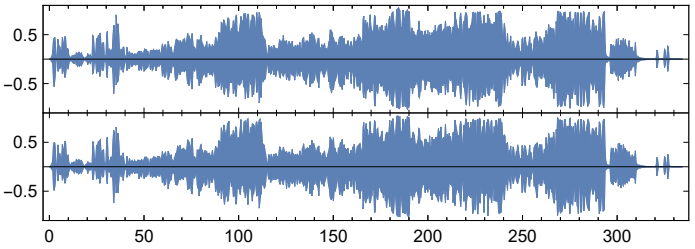
```
song = Import["E:\\KuGou\\kanon - 雪之少女.mp3"]
       导入      自然常数
```

Out[ ]=

In[ ]:=

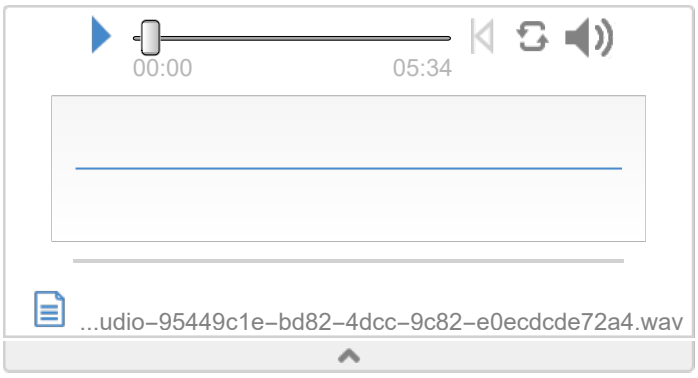
```
AudioPlot[song]
绘制音频波形
```

Out[ ]=




```
AudioSpectralMap[#Value^1 &, song]
音频频谱
```

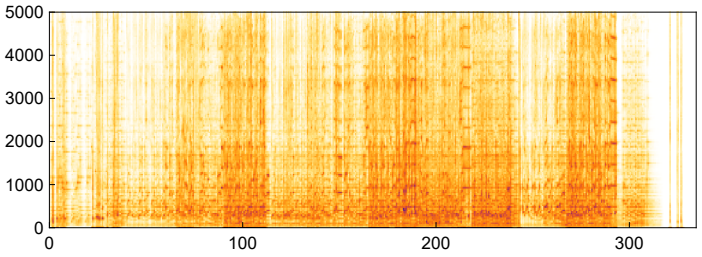
Out[ ]=




```
AudioSpectralTransformation
音频频谱变换
```

In[ ]:=
```
Spectrogram[song]
```
频谱

Out[ ]=



In[ ]:=
```
?Video*
```

Out[ ]=

System`

Video	VideoFrameMap	VideoMapTimeSeries	VideoStream
VideoCombine	VideoGenerator	VideoPause	VideoStreams
VideoDelete	VideoIntervals	VideoPlay	VideoTrackSelection
VideoEncoding	VideoJoin	VideoQ	VideoTranscode
VideoExtractFrames	VideoMap	VideoSplit	VideoTrim
VideoFrameList	VideoMapList	VideoStop	