**1. Rational Rose**

**Rational Rose** is a legacy software design tool from IBM used for visual modeling and component construction of enterprise-level software applications. It supports various languages like UML (Unified Modeling Language) and helps in designing and maintaining object-oriented software.

**Key Features:**

* Supports multiple programming languages (C++, Java, Visual Basic).
* Provides round-trip engineering (code generation and reverse engineering).
* Integrates with other IBM Rational tools.
* Allows for the creation of UML diagrams like use case diagrams, class diagrams, sequence diagrams, etc.

**2. StarUML**

**StarUML** is an open-source software modeling tool that supports the creation of UML diagrams. It is designed to be lightweight and fast, providing a robust environment for creating detailed and extensive UML models.

**Key Features:**

* Supports multiple UML 2.x diagrams (e.g., class diagrams, use case diagrams, sequence diagrams).
* Extensible with plugins.
* Real-time collaboration through cloud services.
* Code generation and reverse engineering capabilities.
* User-friendly interface with drag-and-drop features.

**3. Umbrello**

**Umbrello** is a UML modeling tool that is part of the KDE Software Compilation. It allows users to create diagrams for software design and other modeling needs.

**Key Features:**

* Supports all standard UML diagrams.
* Provides code generation for various programming languages.
* Open-source and cross-platform.
* Simple and intuitive interface.
* Supports XMI (XML Metadata Interchange) for model interchange.

**4. Visual Paradigm**

**Visual Paradigm** is a sophisticated modeling tool that supports UML and other standards like BPMN (Business Process Model and Notation). It is widely used for both software development and business process modeling.

**Key Features:**

* Comprehensive support for UML, BPMN, ERD, and other diagrams.
* Integration with various IDEs (Integrated Development Environments).
* Agile and Scrum support.
* Collaboration tools for team-based modeling.
* Visual modeling with drag-and-drop and automated layout features.

**5. Microsoft Visio**

**Microsoft Visio** is a versatile diagramming tool from Microsoft that supports a wide range of diagram types, including flowcharts, network diagrams, organizational charts, and UML diagrams.

**Key Features:**

* Extensive template library for various types of diagrams.
* Integration with Microsoft Office Suite.
* Real-time collaboration and sharing features.
* Easy-to-use with drag-and-drop functionality.
* Supports both simple and complex diagramming needs.

**Comparison and Use Cases**

* **Rational Rose:** Best for large enterprises with complex systems needing integration with other IBM tools.
* **StarUML:** Suitable for developers looking for an open-source, lightweight, and fast UML modeling tool.
* **Umbrello:** Ideal for KDE users and those looking for an open-source alternative with basic UML modeling needs.
* **Visual Paradigm:** Great for comprehensive modeling needs, including software development and business processes, with extensive collaboration features.
* **Microsoft Visio:** Perfect for users who need a versatile diagramming tool that integrates well with Microsoft Office products and can be used for a variety of diagram types beyond just UML.