ACTIVITY DIAGRAM

* Activity diagrams are constructed from a limited number of shapes, connected with arrows. The most important shape types:

1. *Stadia* represent *actions.*
2. *Diamonds* represent *decisions.*
3. *Bars* represent the start (*split*) or end (*join*) of concurrent activities.
4. A *black circle* represents the start (*initial node*) of the workflow.
5. An *encircled black circle* represents the end (*final node*).

* Arrows run from the start towards the end and represent the order in which activities happen.
* Activity diagrams can be regarded as a form of a structured flowchart combined with a traditional data flow diagram. Typical flowchart techniques lack constructs for expressing concurrency. However, the join and split symbols in activity diagrams only resolve this for simple cases; the meaning of the model is not clear when they are arbitrarily combined with decisions or loops.
* Activity diagrams were a specialized form of state diagrams, the activity diagrams were reformalized to be based on petri net-like semantics, increasing the scope of situations that can be modeled using activity diagrams.[[7]](https://en.wikipedia.org/wiki/Activity_diagram#cite_note-7) These changes cause many activity diagrams to be interpreted differently