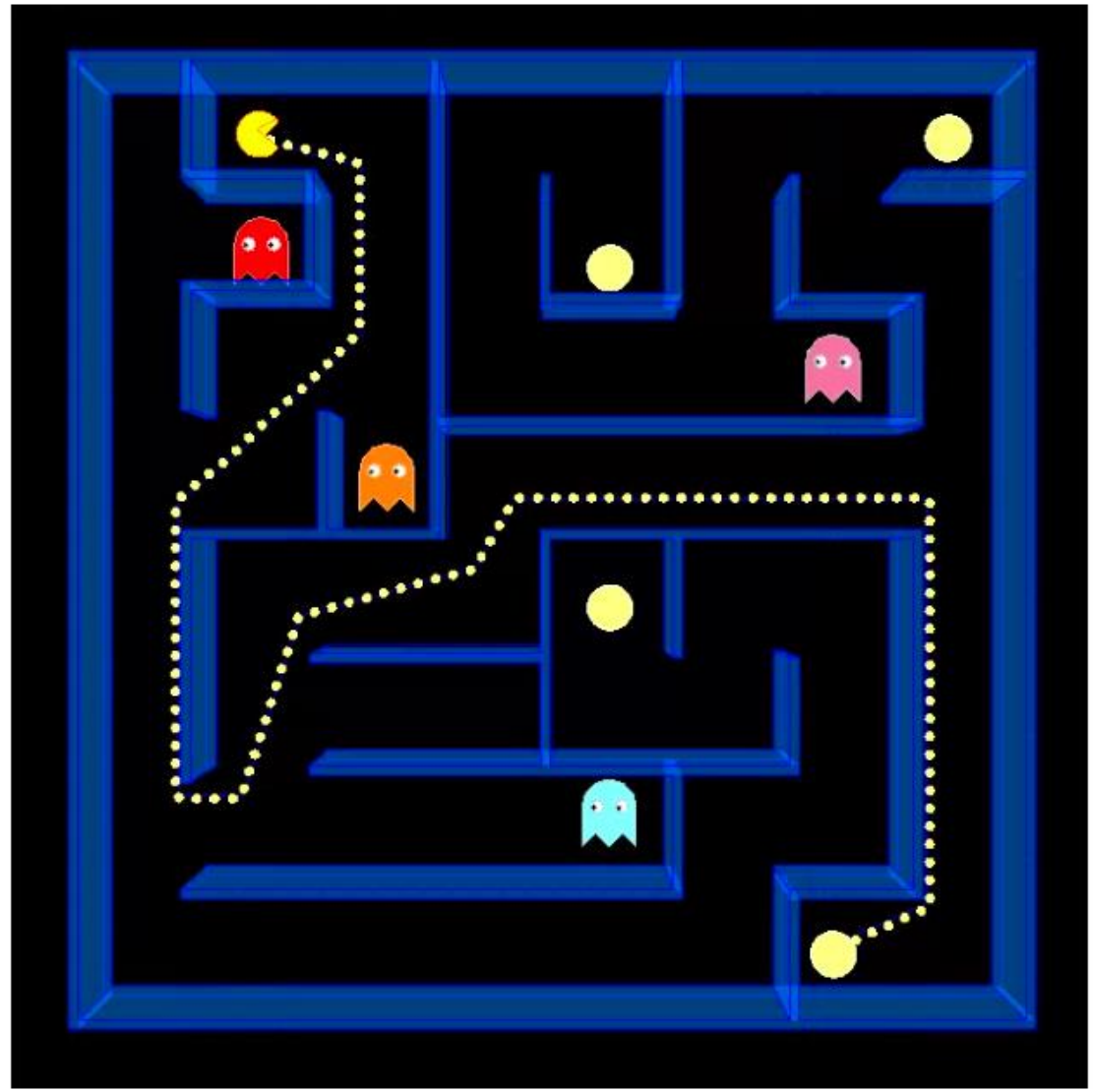

Shortest Distance Analysis

Using Revit and Dynamo

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The Goal

Find the **shortest** route between two points that is **possible**, given a range of obstructions and **barriers** along the way….

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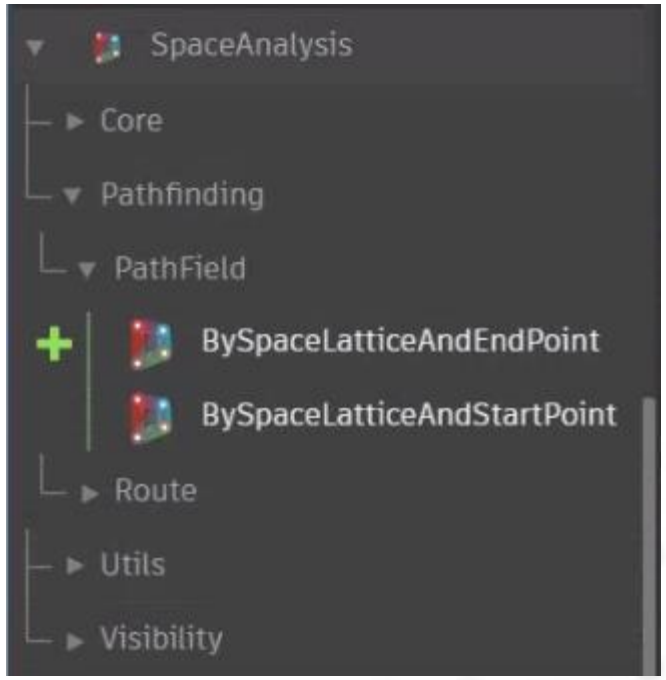
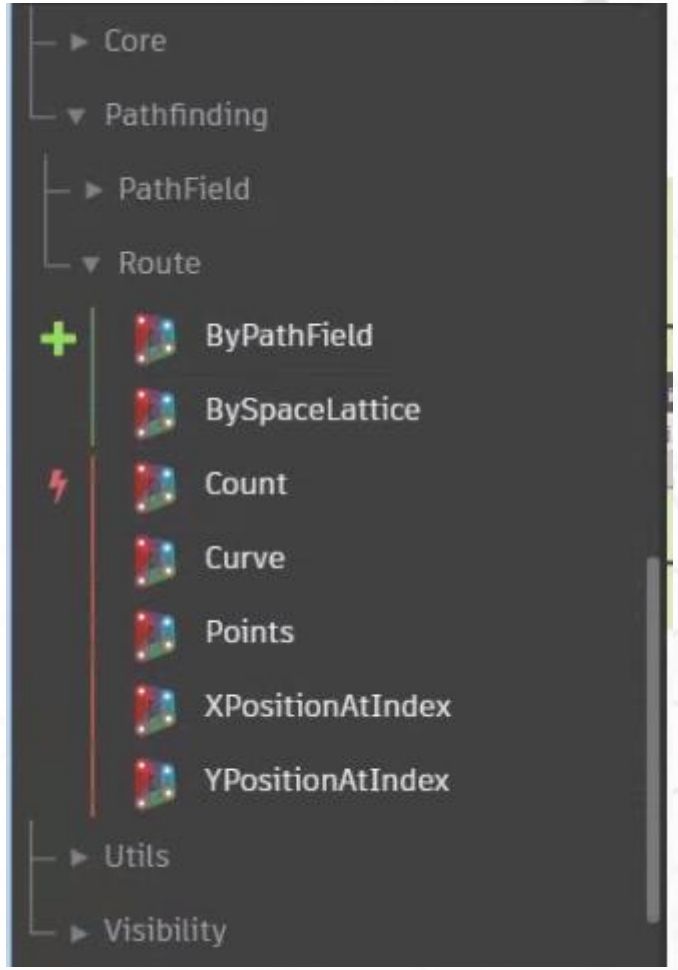
Space Analysis package





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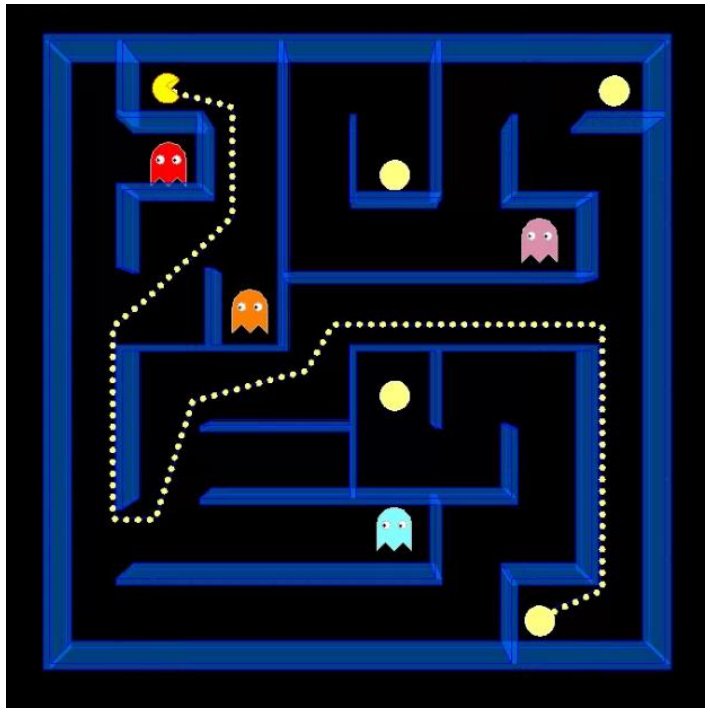
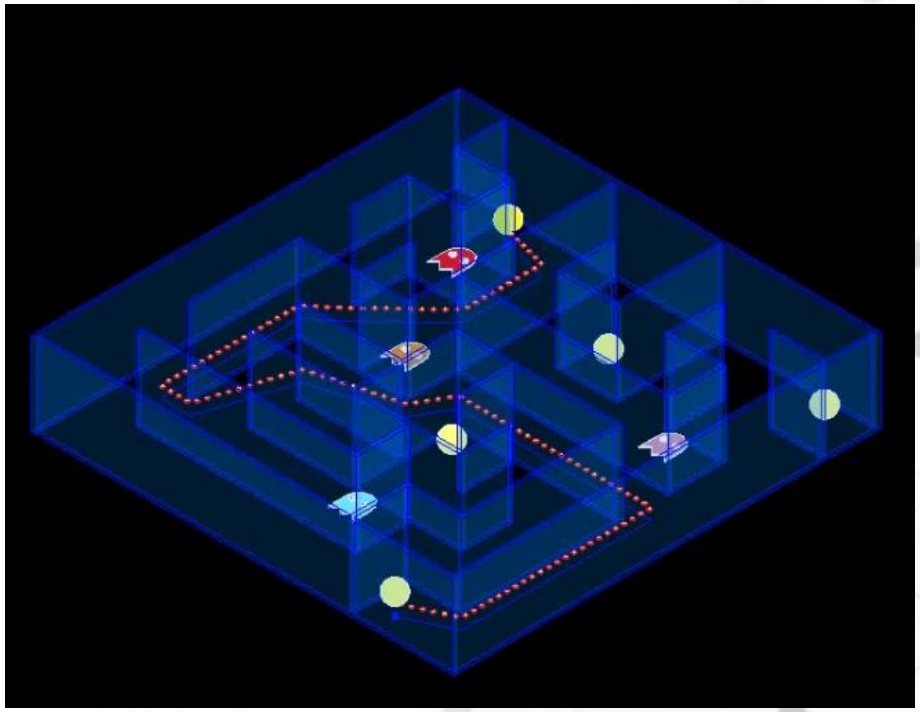
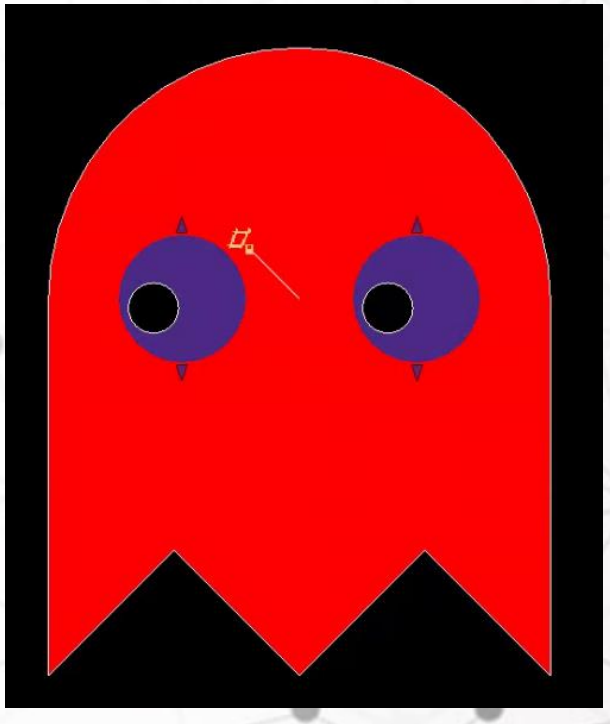
Fun Applications







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Architectural Applications

(c) **Class 5 to 9 buildings -** Subject to (d), (e) and (f)-

(i) no point on a floor must be more than 20 m from an *exit*, or a point from which travel in different directions to 2 *exits* is available, in which case the maximum distance to one of those *exits* must not exceed 40 m; and

(ii) in a Class 5 or 6 building, the distance to a single *exit* serving a *storey* at the level of access to a road or *open space* may be increased to 30 m.

(d) **Class 9a buildings -** In a *patient care area* in a Class 9a building-

(i) no point on the floor must be more than 12 m from a point from which travel in different directions to 2 of the *required exits* is available; and

(ii) the maximum distance to one of those *exits* must not be more than 30 m from the starting point.

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Other Applications

Town/master planning

Pedestrian flow optimization

Vehicle flow optimization

Equipment movement paths

Clearance checking

Fire extinguisher ranges

Without further ado…

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