

Street Map to DWG

Via Dynamo Scripting



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Script Function

Convert OSM File

...

to **Model Lines**

...

Export to **DWG**



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Shapes Files

Collection of **vector** elements such as points, line and polygons

Each typically has metadata attached to it

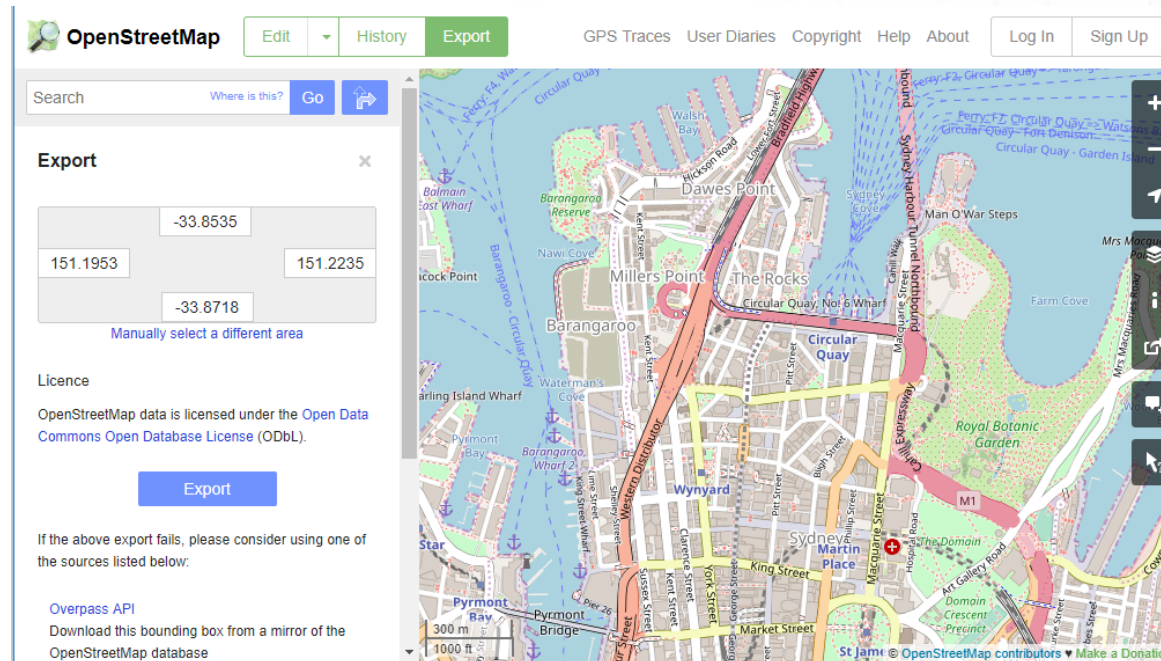
E.g. Address, Building Name, Height



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Open Street Map (OSM)

Public database of free shapes files for street maps around the world



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Some Issues for awareness

Incomplete in some areas

CBD focus

Public contribution, may be inaccurate

Often doesn't have height data

Doesn't have base RL data



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But it has...

Building vector outlines (some metadata)

Road centrelines

Fairly complete in metropolitan areas



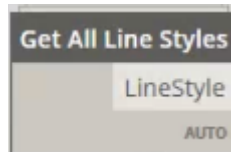
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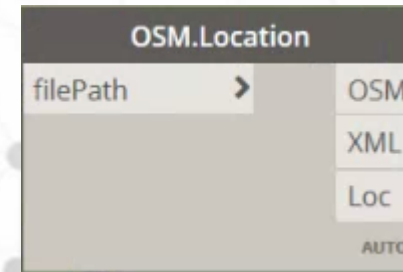
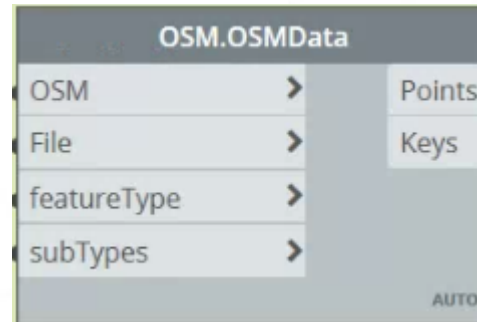
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Custom Nodes

Archilab



Elk



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Custom Nodes – UI/UX

Data-shapes

UI.DropDown Data		
InputName	>	DropDown input
Keys : []: var[]..[]	>	
Values : []: var[]..[]	>	
DefaultValueIndex	>	
Sorted_optional	>	
AUTO		

UI.MultipleInputForm ++		
Description_optional	>	User Inputs
Logo_optional	>	Was Run
ButtonText_optional	>	Was Cancelled
Inputs	>	
Toggle	>	
LinkToHelp_optional	>	
CancelButtonText_optional	>	
MaxHeight_optional	>	
Width_optional	>	
AUTO		

UI.FilePath Data		
InputName	>	FilePath input
DefaultPath	>	
ButtonText	>	
AUTO		

UI.TextBox Data		
InputName	>	TextBox input
DefaultText	>	
IsNumberEntry	>	
AUTO		



Data-Shapes | Multi Input UI ++

OSM Building/Road Line Generator


OSM File Path

OSM Building Layer

OSM Roads Layer

Buildings Line Style

Roads Line Style



[Help](#)



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A background network diagram consisting of numerous grey dots connected by thin grey lines, forming a complex web-like structure that fills the right side of the slide.

Without further ado...

Let's make the script!



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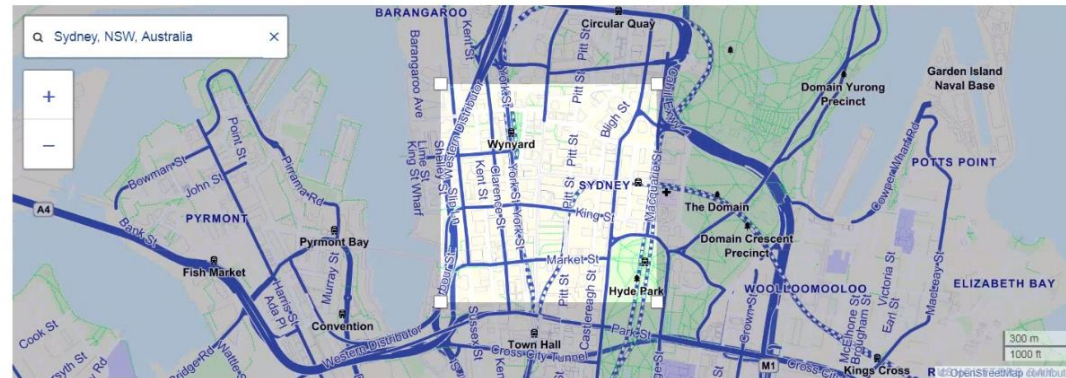
Alternative

CADMapper

CADMAPPER

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Create Map



Select your design program



Include

Map Size



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