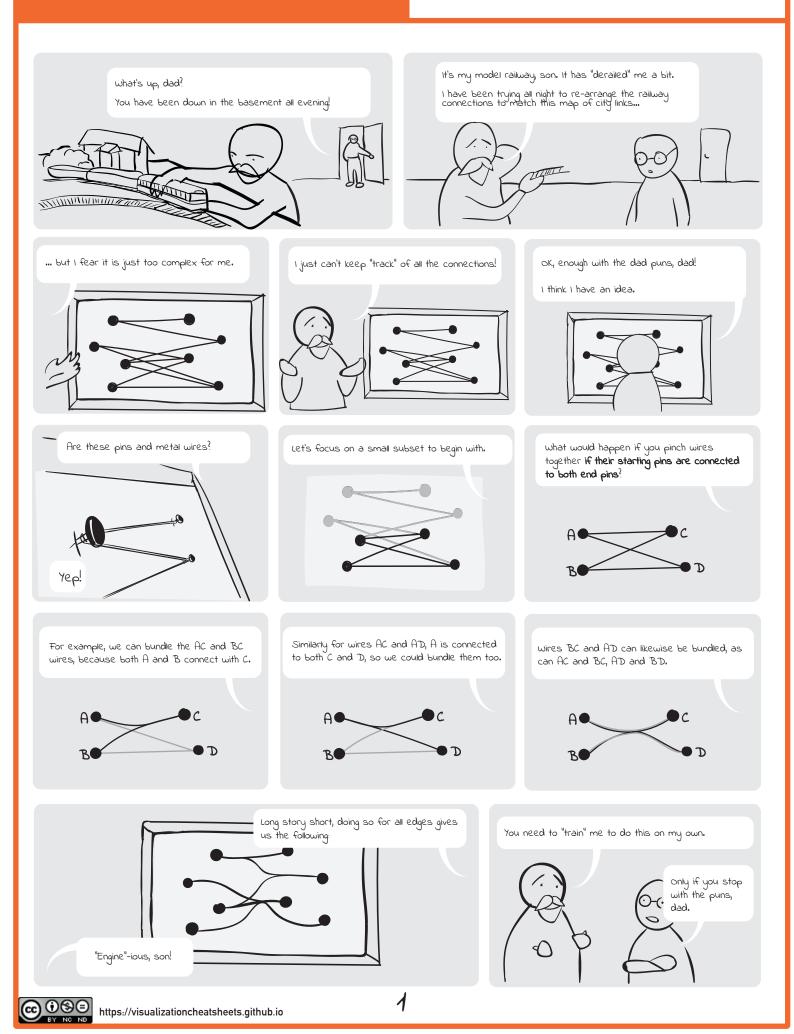
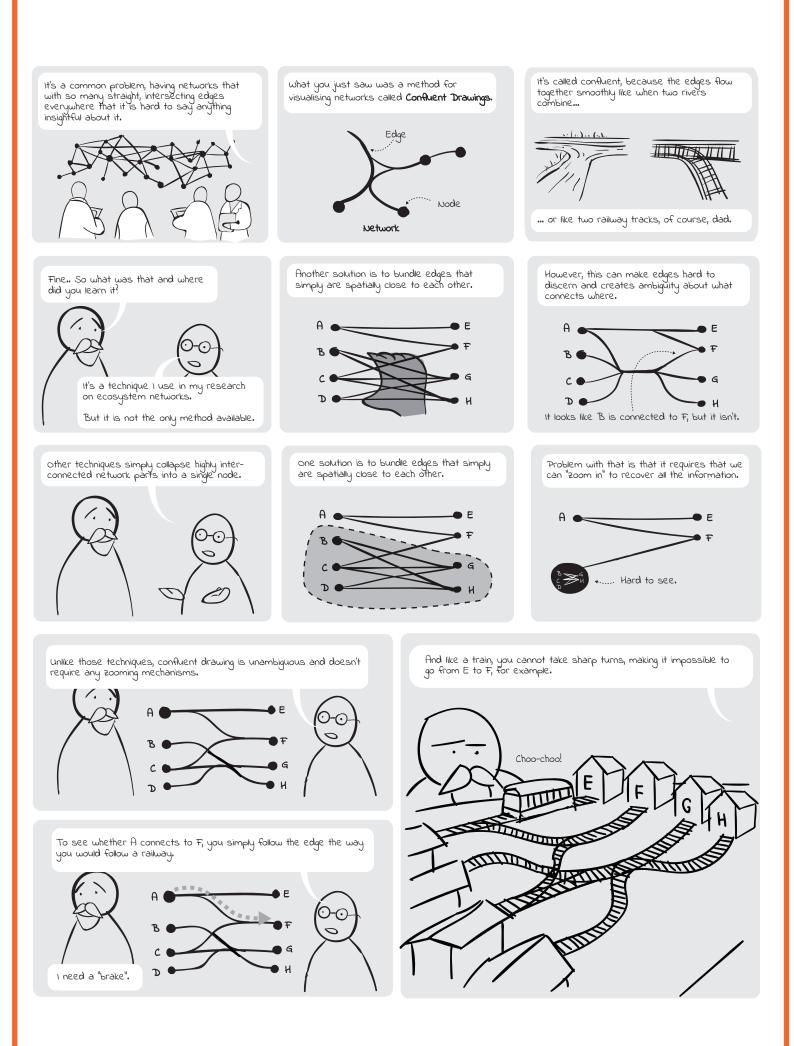
Confluence Graph

Introduction





To simplify the graph, we are therefore on the lookout for nodes that have a neighbour in Recall that the main criterion with Confluent Drawings is that two edges are bundled only if both **source nodes** are connected to both Algorithmically, they are not that easy to construct, however. We often have to be common, or many neighbours in common. satisfied with okay yet suboptimal solutions. target nodes. For example, in edges BA and BC, B is connected to both A and C. Seems simple enough. Consider this graph, for example. In rough terms, the algorithm looks for groups of nodes that have an outsider neighbour in common. For large networks that are not too chaotic or simple, this transformation can reveal beautiful structures, called "motifs". Motifs include things like... C C, F and H are A, B, E and G all connected to are all connected B, E and G to D ... cliques ... The edges that connect in-group nodes with the outsider is replaced by a container edge... clusters ... 30 ... hubs ... \ldots these edges are then replaced by a bundle junction so that all nodes inside are connected to that bundle. Apply some twists and turns to separate nodes into a readable layout without overlap, et voila! ... stars trees ... one last time, dad, could you please **STOP** with the ... bicliques... Motif? Like a... puns! I just lost my train of thought! ... like a loco-motif? ... cycle: 5

* Learn more about the algorithm: Bach, B., Henry Riche, N., Hurter, C., Marriott, K. & Dwyer, T. (2017; January). Towards Unambiguous Edge Bundling Investigating Confluent Drawings for Network Visualization. In IEEE Transactions on Visualization and Computer Graphics (Vol. 23, No. 1, pp. 613-746).