



































Consequences

- Flyweights introduce run-time costs associated with transferring, finding, and/or computing extrinsic state.
- Costs are offset by space savings
 - (which also save run-time costs)
 - depends on
 - the reduction in the total number of instances that comes from sharing
 - the amount of intrinsic state per object
 - whether extrinsic state is computed or stored
- Often coupled with Composite to represent a hierarchical structure as a graph with shared leaf nodes
 - flyweight leaf nodes cannot store a pointer to their parent
 - parent pointer is passed to the flyweight as part of its extrinsic stateprofound effect on object collaboration

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Implementation				
 Extrinsic State <i>e.g.</i>, Document editor character font, <u>type style</u>, and colour. store a map that keeps track of runs of characters with the same typographic attributes 				
 Shared Objects FlyweightFactory can use an associative array to find existing instances. need reference counting for garbage collection 				
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