

Before:

ID	CLASS	COUPLING	COMPLEXITY	LACK OF COHESION	SIZE	LOC	COMPLEXITY	COUPLING	LACK OF COHESION	SIZE
1	Snake	<div></div>	<div></div>	<div></div>	<div></div>	86	low-medium	medium-high	low-medium	low-medium

Name	Complexity	Coupling	Size	Lack of Cohesion	CBO	RFC	SRFC	DIT	NOC	WMC
▼ Snake	low-medium	medium-high	low-medium	low-medium	12	30	16	1	0	33
m Snake(Texture, T low		low-medium	low	low	5					
m ateFood(Food): low		low	low	low	3					
m final addBody(T) low		low-medium	low	low	4					
m getHead(): Rotat low		low	low	low	1					
m getSnakeBody(): low		low	low	low	0					
m getTail(): Rotatal low		low	low	low	1					
m hasCollided(Boa low-medium		low-medium	low	low	4					
m moveBody(): vo low		low	low	low	1					
m moveOnKeyPres low		low-medium	low	low	5					
m render(SpriteBat low		low	low	low	3					
f transient head : f										
f transient snakeBi										
f transient tail : Ro										

After:

ID	CLASS	COUPLING	COMPLEXITY	LACK OF COHESION	SIZE	LOC	COMPLEXITY	COUPLING	LACK OF COHESION	SIZE
1	Snake					70	low-medium	low-medium	low-medium	low-medium

Name	Complexity	Coupling	Size	Lack of Cohesion	CBO	RFC	SRFC	DIT	NOC	WMC
Snake	low-medium	low-medium	low-medium	low-medium	10	31	16	1	0	25
Snake(Texture, T low		low-medium	low	low	4					
ateFood(Food): low		low	low	low	3					
final addBody(T): low		low	low	low	3					
getHead(): Rotat low		low	low	low	1					
getSnakeBody(): low		low	low	low	0					
getTail(): Rotat low		low	low	low	1					
hasCollided(Boa low-medium		low-medium	low	low	4					
moveBody(): vo low		low	low	low	1					
moveOnKeyPres low		low	low	low	1					
render(SpriteBat low		low	low	low	3					

We chose to focus on the CBO metric as improving this metric in specific methods will also improve the class score. The CBO metric means the 'Coupling between object classes'. This metric applies both to methods and classes, and by refactoring the methods the class' score also improved. For the Snake class refactoring, we used the Extract class technique, by introducing the new class 'Movement'.