PlayN Game Loop

February 3, 2014

```
{\bf public\ class\ AsteroidsGame\ extends\ Game.\ Default\ \{}
     /* NOTE CODE HAS BEEN LEFT OUT FOR CLARITY */
     public AsteroidsGame() {
   super(33); // call update every 33ms (30 times per second)
}
     @Override
public void init() {
         \begin{tabular}{ll} // & create & a & group & layer & to & hold & everything \\ layer & = & graphics().rootLayer(); \end{tabular}
         // create and add background image layer
layer.add(graphics().createImmediateLayer(new StarRenderer(clock)));
             add Player
         land langer
IEntity ship = new Ship();
gameListener.onCreate(new CreateEvent(this, ship));
     @Override
     public void update(int delta) {
  clock.update(delta);
         // Test for collision
for (int i = 0; i < entities.size(); i++) {
   for (int j = i + 1; j < entities.size(); j++) {
      // compare list.get(i) and list.get(j)
      IEntity entity = entities.get(i);
      IEntity target = entities.get(j);
      if (target != null && testCollision(entity, target)) {
            target.health().hit(entity, 1);
            entity.health().hit(target, 1);
      }
}</pre>
            }
         for (IEntity e : new ArrayList<IEntity>(entities)) {
  e.onUpdate(new UpdateEvent(delta));
     }
     @Override
     public void paint(float alpha) {
  clock.paint(alpha);
         for (IEntity e : entities) {
  e.onRender(new RenderEvent(alpha));
        }
}
```