1. Copy and Paste the 3000x1600 grid from: http://steamcoded.org/lessons/grid3000x1600.svg.txt 2. After the openning <svg> tag add a <style> element as follows: <style type="text/css"><![CDATA[</pre> .hashmarks {stroke:white;stroke-width:50;stroke-dasharray:6,19;} .yardlines {stroke:white;stroke-width:1400;stroke-dasharray:10,115;} .yardlinetext {fill:white;stroke:white;stroke-width:6;font-size:100px;font-family:Arial;} .lj {text-anchor:start;} .rj {text-anchor:end;}]]> </style> 3. Add a <rect> element with attributes: width="100%" height="100%" style="fill:green;" 4. Add a group element <g> with attribute transform=translate(0,100)" Don't forget the ending </g> tag 5. Inside the group from step 4, add a <rect> element with attributes: x="25" y="25" width="2950" height="1350" style="fill:none;stroke:white;stroke-width:50;" 6. Add a <path> element with attributes: d="M245,700L2755,700" class="yardlines' 7. Add a group element <g> with attribute class="hashmarks" 8. Add 2 <path> elements inside the group of step 7 with attributes: Path 1: d="M247,525L2753,525" Path 2: d="M247,875L2753,875" 9. Outside the group element of step 7, add a group element <g> with attribute: class="yardlinetext" 10. Inside the group from step 9, add 2 group elements to put the 10 yardline on the field <g transform="translate(500,1250)"> <text x="-1" y="0" class="rj">1</text> <text x="9" y="0" class="lj">0</text> <g transform="rotate(180,500,700) translate(500,1250)"> <text x="-1" y="0" class="rj">1</text> <text x="9" y="0" class="lj">0</text> </q>11. Copy the code from step 10 and paste it on the next line, then change: value 500 to 750 in 3 places x attributes to -8text value from 1 to 2 (20 yard line) 12. Copy the code from step 11 and paste it on the next line, then change: value 750 to 1000 in 3 places text value from 2 to 3 (30 yard line) 13. Copy the code from step 12 and paste it on the next line, then change: value 1000 to 1250 in 3 places text value from 3 to 4 (40 yard line) 14. Copy the code from step 13 and paste it on the next line, then change: value 1250 to 1500 in 3 places text value from 4 to 5 (50 yard line)

15. Copy the code from step 14 and paste it on the next line, then change:

value 1500 to 1750 in 3 places

text value from 5 to 4 (40 yard line)

- 16. Copy the code from step 15 and paste it on the next line, then change: value 1750 to 2000 in 3 places text value from 4 to 3 (30 yard line)
- 17. Copy the code from step 16 and paste it on the next line, then change: value 2000 to 2250 in 3 places text value from 3 to 2 (20 yard line)
- 18. Copy the code from step 17 and paste it on the next line, then change:
 value 2250 to 2500 in 3 places
 x attributes to -1
 text value from 2 to 1 (10 yard line)
- 19. Print the field with the grid showing, then hide the grid by change the display style from initial to none, and the opacity from 0.5 to 1

Add a Football Play to the Football Field

- 1. Add a definitions element <defs> after the <style> element near the top of the code
- 2. Add a <path> element with attributes: id="route" d="M2250,325L1725,325" to the <defs>
- 3. Add another <path> element with attributes: id="rac" d="M1725,325L800,900L0,375"
- 4. Add a <symbol> with attributes: id="receiver" overflow="visible" to the <defs>
- 5. In the browser, copy the code from the lessons link for the receiver.txt, then paste the code into the <symbol> element created in step 2

Add a football to pass to the receiver

- 8. Add another <path> element with attributes: id="pass" d="M2250,700L1725,325" to
 the <defs> section of the code
- 9. Add another <use> element by copying the from step 6 and pasting on the next line, then change #receiver to #football change #route to #pass

Add a quarterback

- 10. Copy the code for the <symbol> defintion of the receiver and paste on the next line, then change the transform attribute to add a rotation transformation: transform="translate(130,-100) scale(-10,10) rotate(-45,13,13)" also change the id from "receiver" to "gb"
- 11. Add a <use> element on the line after the other <use> elements to reference the "qb" <use x="2250" y="700" xlink:href="#qb" />

Add a pass defender

- 10. Copy the code for the <symbol> defintion of the receiver and paste on the next line,
 then change the transform and style attribute to read:
 transform="translate(0,-100) scale(10)" style="fill:blue;"
 also change the id from "receiver" to "d1" and
 change the style of the first <path> element from "fill:white;" to "fill:#999;"
- 11. Add another <path> element with attributes: id="defend" d="M2125,500L1825,325" to the <defs> section of the code
- 12. Add another <path> element with attributes: id="offscreen" d="M-100,-100" to the <defs> section of the code
- 13. Copy the <use> element referencing the #receiver and paste on the next line, then change
 #receiver to "d1"
 #route to #defend
 #rac to #offscreen

Add a defender giving chase

- 14. Copy the code for the <symbol> defintion of the defender (id="d1") and paste on the next line,
 then change the transform attribute to read:
 transform="translate(130,-100) scale(-10,10)"
 also change the id from "d1" to "d2"
- 15. Add another <path> element with attributes: id="chase" d="M1825,325L700,950L250,375" to the <defs> section of the code
- 16. Copy the <use> element referencing the #d1 and paste on the next line, then change
 #d1 to "d2"
 #defend to #offscreen
 #offscreen to #chase