



## THE SHOT CYCLE: Key Building Block for Situation Training

In a Game-based approach (GBA), it is 'situations' rather than strokes that need to be trained. Strokes have no tactical connection. The only information conveyed when one is told to, 'hit a forehand' is that a right-handed player will hit it on the right hand side. Therefore, it is not as effective to organize planning and training around strokes as it is to use situations.

For example, if a player hits a rally topspin forehand crosscourt from the baseline, which is more similar tactically and technically: a rally backhand with topspin hit crosscourt from the baseline or, a leveled off attacking forehand from  $\frac{3}{4}$  court? Obviously the FH and BH are more similar than the two forehands. How effective is it then to teach (and learn) 'the forehand' when one doesn't know *which* forehand?

Rather than only a process of learning strokes, learning tennis is really a process of expanding the library of situations you can handle during play (which includes different strokes). Even players who are not taught this way go through this process in spite of their coaching. For example, players typically learn how to handle the tactics of different opponents by experiencing them in match play.

The goal of Situation Training (ST) is to identify these situations and shortcut the learning process by exposing players to the problems and solutions encountered during play. It provides coaches with a framework and terminology that encompasses the key tactical possibilities that would occur during play.

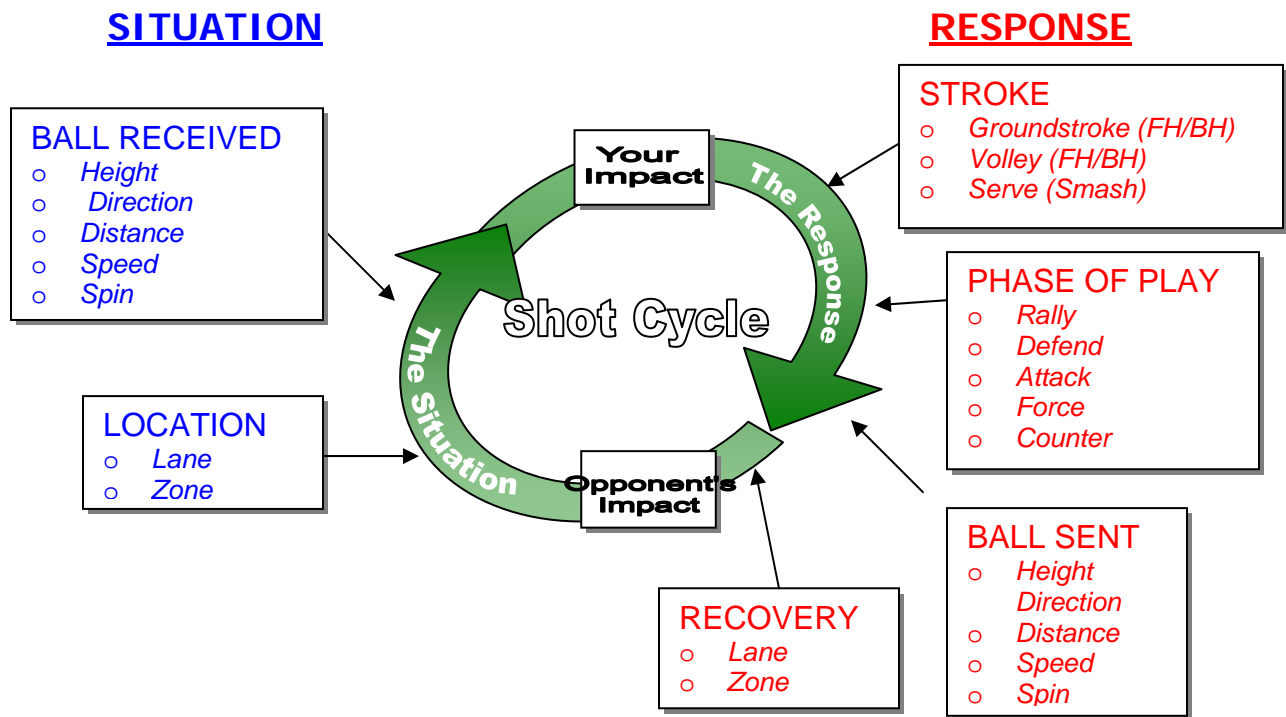
A main building block of the Situation Training framework is the, "**Shot Cycle**" which describes the cycle of events that happen during a shot from the player's impact to the opponent's, and back again.

**This framework gives coaches a critical tool to systematically organize training tactically.** It allows lesson construction ("*Coach, I would like to work on this situation that happened to me at the tournament*"), unit planning ("*This month we will cover these situations*"), and the creation of drills ("*Today's drill will be about maintaining a neutral crosscourt exchange*").

The Shot Cycle includes two main 'halves'. A tactical **Situation** (starting just before the opponent's impact) that presents a challenge to the player, and a **Response** (starting from the player's impact) that deals with the challenge.

- The **Situation** incorporates the elements that happen in the situation when the player receives the ball (where they are in relation to the opponent and the characteristics of the ball received).
- The **Response** includes the elements required to answer the challenge (the Phase of Play and the characteristics of the ball sent).

This can be represented in a cycle that starts and ends with the impact of the ball:



The Shot Situation can be also represented in chart form:

SITUATION		RESPONSE			
Location	Ball Received	Stroke	Phase	Ball Sent	Recovery

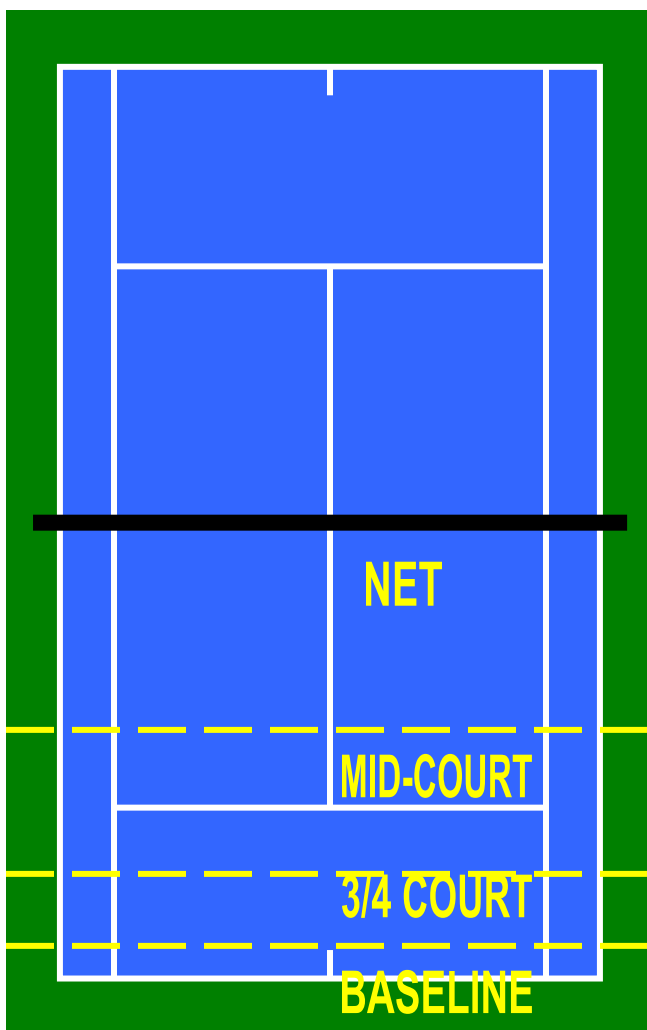
## SHOT CYCLE “SITUATION” COMPONENTS

### LOCATION

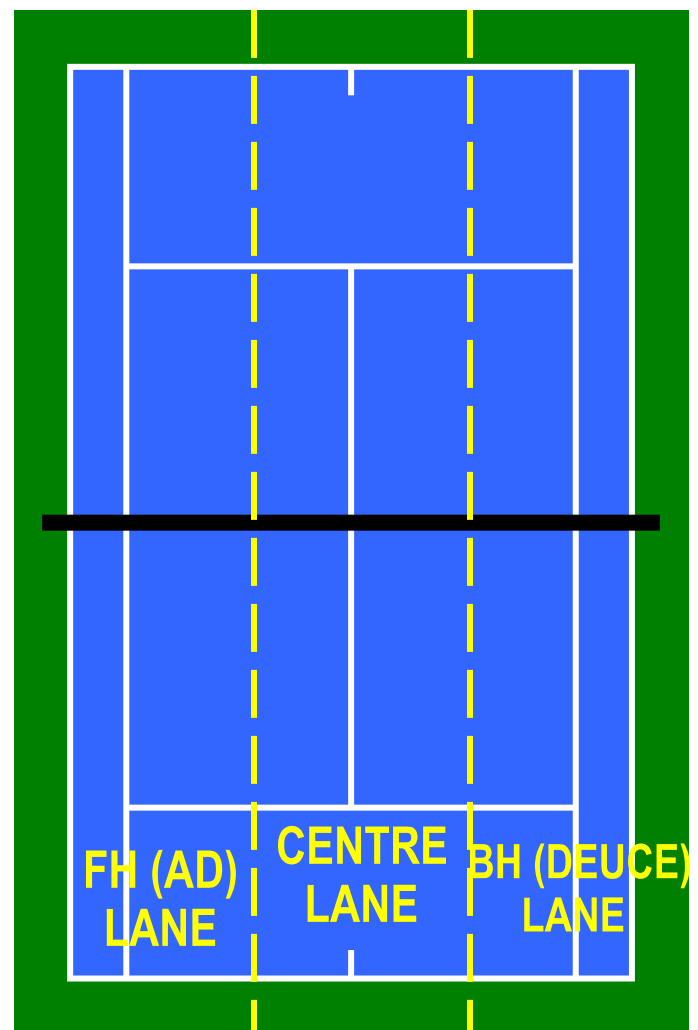
Tennis is a game of territory and geometry. The space a player uses and covers is critical to a successful game. To identify both players' and opponent's location (which affects tactics and technique) the court is split into horizontal “Zones” and lateral “Lanes”. For example: *“The opponent was at the baseline in his Ad (BH) Lane. He hit a down-the-line dropshot which pulled the player into their Mid-Court Zone in the Deuce (FH) Lane”.*

It is important to note that these are simply locations. They have no direct connection to Phase of Play (e.g. players are at the net, not in the ‘attacking’ Zone as it is possible to receive shots that require defensive actions from there).

### ZONES

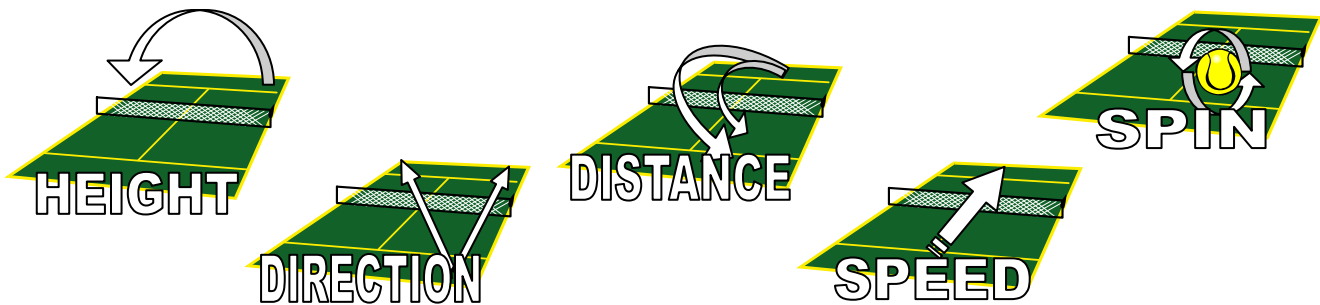


### LANES



## BALL RECEIVED

There are five characteristics that can be manipulated with a tennis ball. They are dictated by physics and are called, "The 5 ball Controls":



- **Height** (the ball is high, medium or low). Height is typically referenced by the net (e.g. the ball was 3 racquet lengths over the net), and the player (e.g. the ball was hit at shoulder height).
- **Direction** (the ball flies straight or with an angle). Directions in tennis use the terms: crosscourt (hitting various angles) or down-the-lines (hitting straight). Common terms also include inside-out (e.g. using a FH from the BH Lane to hit an angle) or Inside-in (e.g. using a FH from the BH Lane to hit a Down-the-line).
- **Distance** (the ball goes longer or shorter). Distance in relation to the net is typically called 'depth'. However, when hitting a sharp angle the ball may go out because of how long it flies (but since the player was aiming for a short angle, the ball wasn't too 'deep').
- **Speed** (the ball goes fast, medium, or slow). Speed is typically connected to power in tennis and is a key factor in how aggressive or defensive a person plays.
- **Spin** (the ball rotates with topspin, underspin, or sidespin). Although there is rarely such a thing as a 'spinless' ball, a ball with little spin is typically called 'flat'.

The Ball controls are critical for describing tactics (e.g. it was a fast, deep, crosscourt ball with topspin). They are how players solve tactical challenges on court (e.g. the opponent was at the net so the player hit a high lob).

Often it is useful to combine the Height and Distance to describe the balls, "Trajectory". Balls can have trajectories that are:

- Level
- Arc (Small , medium and large)

## SHOT CYCLE “RESPONSE” COMPONENTS

### STROKE

A stroke is a component of the Shot Situation. However, rather than meaning a prescribed series of movements (e.g. the forehand groundstroke means to take the racquet back, swing, and follow-through a certain way), ‘Stroke’ in a Shot Situation has the following significance:

Strokes come in three ‘families’:

- **Groundstroke:** Hitting a ball after it bounces
- **Volley:** Taking the ball in the air before it bounces
- **Overhead:** Serve or smash actions impacted above the head

Strokes also can be performed on two sides:

- **Forehand:** A shot right-handed players hit on the right hand side.
- **Backhand:** A shot right-handed players the on the left hand side of their body

### PHASE OF PLAY

The Phase of play is the relationship between the difficulty of the ball received and the risk of the ball sent . There are five Phases of Play:

- **Rally:** A neutral exchange where the difficulty of the ball received (medium difficulty) equals the risk of the ball sent (medium risk).
- **Defense:** A difficult reception answered by sending the ball with lower risk (e.g. returning an overhead smash with a lob)
- **Forcing:** Receiving a less-difficult shot and challenging an opponent with power, precision, or time (e.g. taking the ball early). A forcing shot has the intention of pressuring the opponent rather than hitting a winner (e.g. an approach shot is typically a forcing shot since it is used to set-up a winning shot).
- **Attack:** A less difficult reception answered with a higher risk shot. Players can attack with power (e.g. a high speed drive), precision (e.g. a sharp angled shot), or time (e.g. take the ball on the rise). The intention of an attack is to end the point.
- **Counter:** The intention of countering is to take a difficult shot and, ‘turn the tables’. It is typically seen at higher levels. For example, a player may return a fast serve with a counter rather than choosing to defend.

## BALL SENT

The same 5 Ball controls used to describe the characteristics of the ball a player receives, are used to explain the ball sent.

## RECOVERY

Since most points in tennis include multiple shots, every shot goes through a cycle of movement which includes getting ready to receive the next shot. After sending a shot, a player must recover their:

- **Position:** Regain balance to prepare to move in any direction and ready the racquet for any stroke
- **Location:** Place on the court (Lane & Zone) to cover the possible shot options an opponent has
- **Time:** Be prepared before the opponent hits their shot so it can be 'read'

## USING THE SHOT CYCLE

The power of the Shot Cycle is that it identifies all the components that occur during a shot. With these pieces, a coach can re-create realistic, practical, game relevant scenarios.

For example, a lesson or a drill could start with this introduction to a context (try to picture it on the court with players):

*"The opponent was on the baseline in their Ad (BH) Lane (**Location**). They hit a higher/shorter/weaker ball crosscourt (**Ball Received**). The Player received the ball at  $\frac{3}{4}$  Court (**Location**) and drove a topspin the ball down-the-line (**Ball Sent**) with a forehand (**Stroke**) attack (**Phase of Play**). They followed it to the net (**Recovery**)."*

Using our Shot Cycle Chart, we can break down the components:

SITUATION		RESPONSE			
Location	Ball Received	Stroke	Phase	Ball Sent	Recovery
Player: $\frac{3}{4}$ Court FH lane  Opponent: Baseline in BH Lane	High ball shorter & weaker	Forehand	Attack (power)	Down-the- line Power topspin drive	Followed ball to net.
<b>Challenge:</b> Taking advantage of a weak shot		<b>Effect on Opponent:</b> Send a ball that the opponent will have great challenge returning			

The coach can either set up the situation and let the student try to solve it (with guidance) or guide students into selecting a Response before the drill begins and jump right into training it. For example, the power down-the-line drive is one of a number of options. The player may also choose to hit an angle or, perform a drop shot. If the student has a sense of solving the problem on their own, they will become a smarter player.

This type of training also provides a great opportunity to train decision-making. Situations may have multiple choices. Players learn the game by understanding and practicing these choices. This in turn leads to relevant technical coaching.

It is worth mentioning again that this process is also the basis for creating hundreds of drills. How many situations do your players need to master? Every competition they play will produce a number of situations they need to work on. This is a far more useful way to practice than going through countless general 'forehand' & 'backhand' drills.

## **CONCLUSION**

Using Shot Cycles to organize training will allow coaches to fully exploit the benefits of a Game-based Approach. It will enhance the transfer of learning from training to match play by allowing coaches to re-create and manage the components that occur in a tennis shot.

**Note: To Plan Situation Training lessons, use the “Situation Training Lesson Planner” available on the “Coaching Articles & Videos” page of [acecoach.com](http://acecoach.com)**

## **References:**

1. Cayer, Louis. (1987). The Actions Method. Presentation at the ITF Worldwide coaches Conference. Mallorca, Spain.
2. Grifit, L.L., Oslin, J.L. & Mitchell, S.A. (1997). Teaching sport concepts and skills. A tactical games approach. Human Kinetics.
3. Jones, D. (1982). Teaching for understanding in tennis. Bulletin of Physical Education, 18 (1): 29-31.
4. Schmidt, R.A. & Bjork, R. (1992). New conceptualisations of practice: Common principles in three paradigms suggest new concepts for training. Psychological Science. 3, 207-217.
5. Thomas, K. T. and Thomas, J.R. (1994). Developing Expertise in Sport: The relation of knowledge and performance. International Journal of Sport Psychology, 25, 295-312.
6. Vickers, J. N., Livigston, L.F., Umeris, S., Holden, D. (1999). Decision training: The effects of complex instruction, variable practice and reduced delayed feedback on the acquisition and transfer of a motor skill. 17, 357-367.

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