

WPA:

Columns :

Period	Time-Left	H/A Key	Action	H-Score	A-Score	Margin	H-Win
...

```
pbp2_cols = [
    "EVENTNUM",
    "PLAYER1_ID",
    "PLAYER1_NAME",
    "PLAYER1_TEAM_ID",
    "PLAYER2_ID",
    "PLAYER2_NAME",
    "PLAYER2_TEAM_ID",
    "PLAYER3_ID",
    "PLAYER3_NAME",
    "PLAYER3_TEAM_ID",
    "PERIOD",
    "PCTIMESTRING"
]
```

Derived from
description col,
uses following
actions to
describe play
outcome:

{
TO: 0,
PF: 1,
MAKE: 2,
MISS: 3,
FT-MAKE: 4,
FT-MISS: 5,
REB: 6
}

Derived from
checking P1-TEAM-ID
and checking home
team id

Variable
depicting
game outcome
in terms
of home
victory (= 1)
or loss (= 0)

```
# relevant pbp3 columns
pbp3_cols = [
    "actionNumber",
    "description",
    "actionType",
    "subType",
    "location",
    "scoreHome",
    "scoreAway",
    "shotDistance"
]
```

uses score(Home/Away)
to keep track, but
in form:
 $\text{Margin} = \text{Score}_H - \text{Score}_A$