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**Forsyth-Edwards Expanded Notation (FEEN)** describes a [Chess Position](#). It is an one-line string. **FEEN** is based on [FEN](#). Cyril Wack specified the **FEEN format** for cross-board and cross-style computer chess applications, that is for [Shogi](#), Western chess, [Xiangqi](#) and for more than two dimensions, e.g. 3D chess. FEEN is a proposal by [Cyril Wack](#). So far there are no programs or [protocols](#) supporting it.

## FEEN Syntax

One FEEN string or record consists of **three** fields separated by a space character.

Terminal and nonterminal symbols of a variant of **BNF** below are embedded in ' ' resp. .

$$\begin{array}{ccc} \vdots & \vdots & = \\ & & \end{array} \quad \begin{array}{ccc} & & \\ & & \\ & & \end{array}$$

### *Piece Placement*

*The Piece Placement is determined in big-endian order, from a flatten board where each dimension is separated by the terminal symbol '/' (slash), and each piece is separated by a ',' (comma character). The pieces are identified according to the Portable Chess Notation. Uppercase letters are for Bottom pieces, lowercase letters for Top pieces.*

## **Active side**

*The side to move is one lowercase letter for either bottom ('B') or top ('t').*

*$::= \{ 'B' \mid 't' \}$*

## **Captured actors**

*Captured actors MUST be listed here. The actors are listed in alphabetical order, separated by an empty string.*

*If neither player has any captured actors, for instance on an initial position, this MUST be '-'.*

*Note: Captured actors are said to be in hand at Shogi.*

## **Samples**

*FEEN strings of starting position:*

```
????????/????????/8/8/8/8/????????/???????? B -
```

*And after 1.e4:*

```
????????/????????/8/8/4?3/8/????1???/???????? t -
```

## **Forum Posts**

- [FEEN?](#) by [Gerd Isenberg](#), [CCC](#), September 02, 2013

## **External Links**

- [Forsyth-Edwards Expanded Notation specification and implementation guide](#) by Cyril Wack
- [Portable Chess Notation specification and implementation guide](#) by Cyril Wack

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