



## OVERVIEW

- T.V. Fanatic is an Android app in which users share their opinions of the latest episodes of their favorite television shows and see what others are saying.
- We've optimized the app for tablets to make the best use of large screens.
- Other than an image cache and a few preferences, very little data is kept on your device.
- Almost everything comes from our PHP server. Our server was designed according to the elegant yet simple REST protocol.
- All that information on TV shows, episodes, as well as reviews and comments from users is kept in a blazingly fast SQLite database on our server.
- The first time anyone visits a TV show on our app, we get all the information on that show from the public "TVDB" television database. This takes a little while, but we keep all that info in our database. Next time, the show opens faster for everyone.
- We believe this is the first app of its kind for Android, iOS, or even the web!



## FEATURES

- 2500+ TV series:** Our database has access to every episode that has ever aired for more than 2,500 titles. T.V. Fanatic provides a photo, summary, and more for each and every episode.
- Become the critic:** Review any episode of any TV series, and read reviews from users everywhere.
- Comment on reviews:** Give feedback on reviews. Agree or disagree with a review? Let the author know! T.V. Fanatic strives to facilitate discussion.
- Personalized home screen:** Your home screen keeps you posted with the latest discussion on your reviews, replies to comments you've posted, and more.
- Keep track of your favorite shows:** Add any show to your list of favorites with the touch of a button. You now have instant access to that show from your home screen.
- Rate episodes:** Rate an episode on a scale from 1 to 5. Average ratings for episodes, seasons and entire series are instantly updated.

**Recent Comments**  
Scroll through replies to comments you've posted.

**Search**  
Search our comprehensive database of 2,500 TV series. The closest matches are provided as you type.

**Recently Viewed**  
Go back to the shows you've viewed recently, but haven't favorited yet.

**T.V. Series Info**  
View the official poster, main cast, and description of the T.V. series.

**Add to Favorites**  
Tap to add this T.V. series to your list of favorites. You'll get quick access to this show from your home screen.

**Series Average**  
Thinking of starting this show? The average rating of all episodes of this show can help you decide.

**My Reviews**  
See the latest activity within your reviews at a glance. We show you the number of new comments since you last checked.

**My Favorites**  
Instantly jump to any of your favorite shows to check out the latest reviews, write reviews for new episodes, and more.

**Back to Home**  
Just tap the TV icon in any page to jump back to your Home Screen.

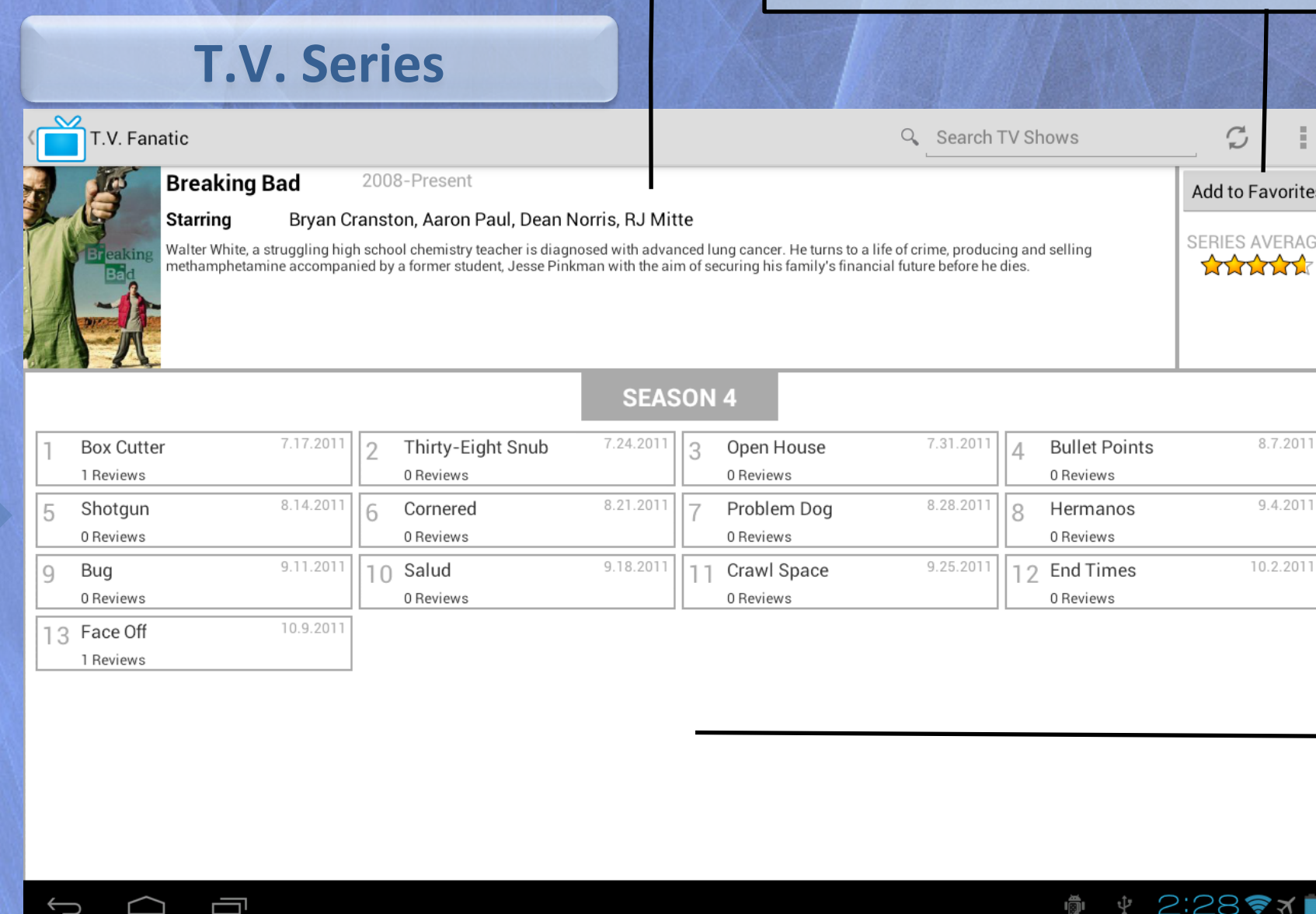
**Episode Image**  
An image straight from the episode itself.

**Episode Summary**  
The summary of the episode may help refresh your memory.

**Reviews**  
View a condensed list of all of the reviews for the episode. Tap one to open up the review.

**Write a Review**  
Click here to start writing a review. Let the world know your opinion!

**Rate the Episode**  
Click on your desired rating to rate the episode.



**Episodes**  
Click any episode to go to its page and see its reviews and ratings.

**Seasons**  
Just swipe left or right to flip between seasons. The latest season is shown first when you open a show.



**Agreeing**  
Agree or disagree with a review? Just tap the button.

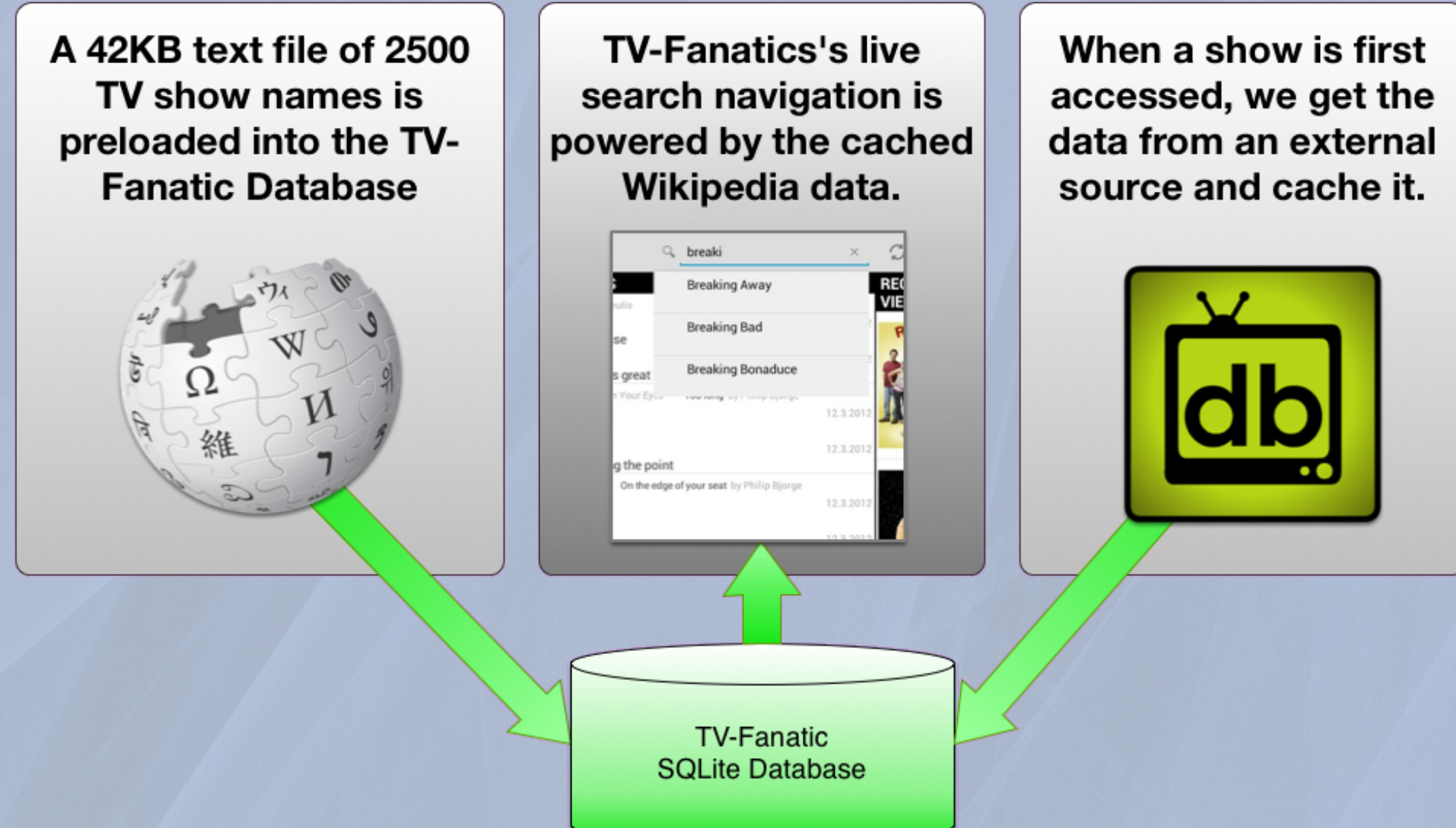
**Comments**  
View what other people have to say about this review. You can reply to a comment by simply tapping on it.

**Write Comment**  
Write your comment here, then tap Done to share it with the world.

## BEHIND THE SCENES

### On-demand database loading

Allows for complete database regeneration without any downtime and it eliminates the need for a test dataset or stub database by allowing all developer's access to the multi-gigabyte database with just a 42KB download.



### Improving performance

**The problem:** In the early days of the app, the Home Screen took a *long* time to load. The Home Screen requires dozens of images all stored on our remote server. The time required to download, decode, and render all of these images was considerable: an active user's home screen typically required 20-30 seconds to fully load. The Home Screen is the hub of the app, so this was unacceptable!

**The solution:** A multi-level, LRU image cache:

