

TiniWiki

Wikipedia in your pocket



At a Glance

TiniWiki is an iPhone application based on patented compression technologies developed at NICTA. The technology allows TiniWiki to store Wikipedia in its entirety allowing user access even when the phone is not connected to a network.

TiniWiki is the world's first application that will place a copy of the entire Wikipedia on the user's phone and keep it current with regular updates.

This technology works for non-Wikipedia content and will enable users to carry and access extremely large sets of information (e.g. reference manuals, emergency procedures and medial information).



The NICTA Approach

TiniWiki is developed around core patented NICTA technology that stores data in a structured compressed format, which can be manipulated without the need to de-compress and re-compress. This guarantees high performance access and updates to the content.

The Features

- Where the entire Wikipedia would fill the memory of the largest iPhone two times over, TiniWiki only needs quarter of the memory for the same function
- Full content of the Wikipedia stored on an iPhone allowing access no matter if the user is on-line or off-line (e.g. in a plane)
- Full text search is supported
- The content is always current, as a purchase of the TiniWiki Wikipedia application enables a user to receive regular updates of changes.

The Benefits

- Off-line access to vast stores of data will reduce network costs
- Unlike other technologies, TiniWiki updates only send the information that has been changed
- Efficient synchronisation reduces the time to receive updates and ensures the content is always up to date
- The technology is processor-friendly and can run on virtually any smart-phone device.

The Future

- TiniWiki will expand to content available beyond Wikipedia
- TiniWiki will also explore other commercial options for its technology including offering the compression engine and client for third-party use, as well as licensing the underlying patented technology.

From imagination to impact



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NICTA

NICTA is Australia's Information and Communications Technology (ICT) Research Centre of Excellence and the largest organisation in Australia dedicated to ICT research. NICTA drives innovation through high-quality research, research training and technology transfer.

Our researchers are located in five laboratories located in four cities around Australia: Melbourne, Sydney, Canberra and Brisbane. Working in specialised teams, they are focused on a series of specific research themes and business areas.

Our work as a world-class research institute and Centre of Excellence in science and innovation brings together many of Australia's and the world's top ICT researchers. NICTA provides them with the facilities and support they require, making our vision a reality.

NICTA's unique approach fosters and develops ICT research. We work closely with both industry and other research institutions to solve problems and make breakthroughs in ICT with real impact.

NICTA's focus on use-inspired research means our projects have direct relevance to the challenges faced by business, government and individuals around the world. The result is breakthrough technologies that provide commercial opportunities and have a positive impact on Australia's export earnings.

Our Research Themes:

- Embedded Systems
- Networked Systems
- Making Sense of Data
- Managing Complexity

Our Business Areas:

- Biomedical and Life Sciences
- Environmental Management
- Intelligent Transport Systems
- Mobile Systems and Services
- Safety and Security
- Software Infrastructure

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