

NVDA

NVDA...

NVDA

Non
Visual
Desktop
Access

NVDA

NVDA

2006

Open Source

2 blind men

Volunteers

120+ countries

43+ languages

- NV Access
 - www.nvaccess.org
 - <http://github.com/nvaccess/nvda>
- NVDA 음성엔진 구매
 - <https://vocalizer-nvda.com>
- Development Snapshot
 - <http://www.nvaccess.org/files/nvda/snapshots>
- NVDA 주요 기능키 정리
 - <http://haeppa.kr/srd/nvda.keystrokes.html>

NVDA 정식버전

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Additional Resources

- [NVDA features and system requirements](#)
- [What's New in this version of NVDA?](#)
- [Get extra voices for NVDA](#)
- [Get add-ons to enhance NVDA](#)
- [Get help and support](#)

NV Access >
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NVDA Development Snapshot

NVDA Development Snapshots

Included here are automatically generated snapshots of the project in its current state, known as 'bleeding edge' code. There will very possibly be nasty bugs and broken code, and while we welcome feedback, it is nevertheless welcome.

All dates and times are in UTC.

next

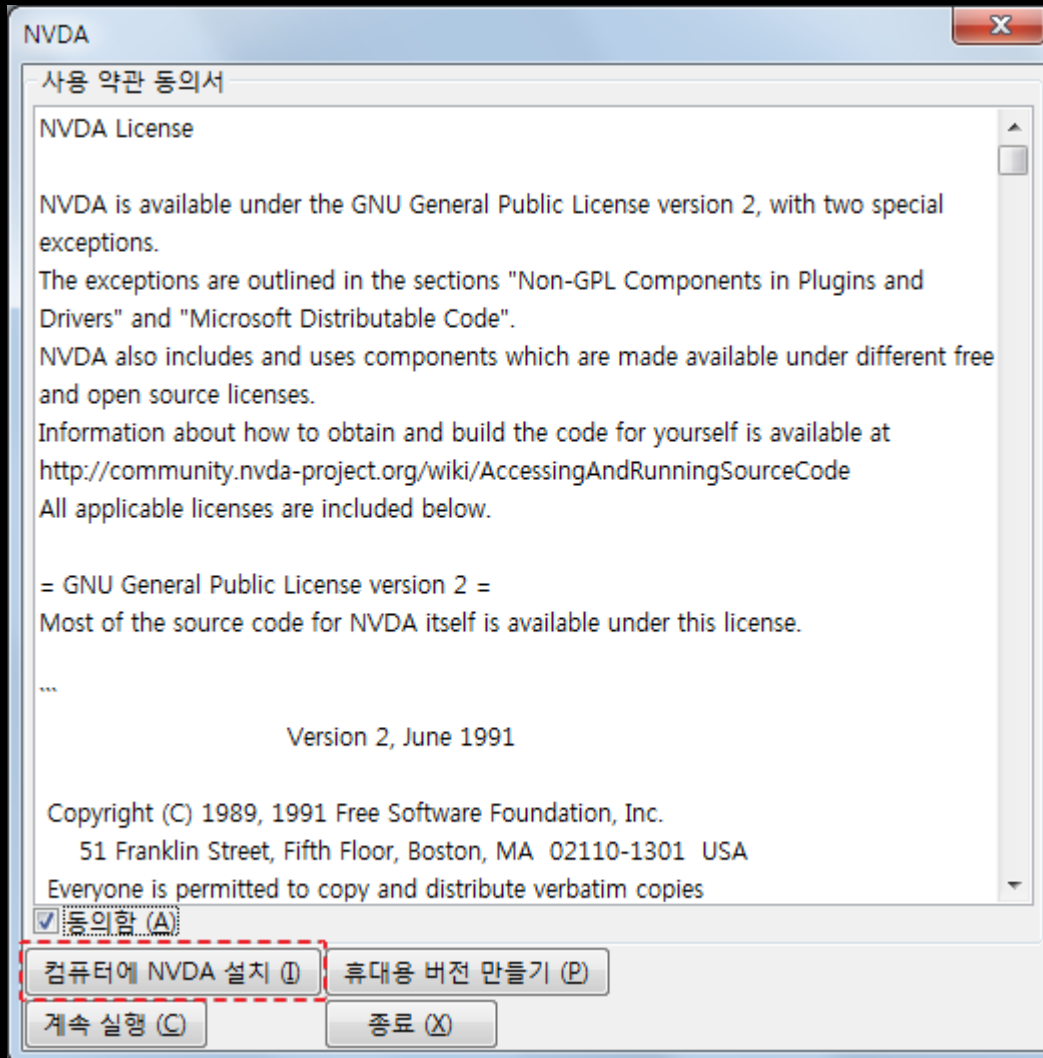
The next branch contains items being tested for possible inclusion in the next release. It is not yet a future release.

Version	Date	Download
13366,5410db6a	Mon Jun 20 03:29:40 2016	Download
13365,6cd0ebac	Sun Jun 19 21:55:58 2016	Download
13363,24458af3	Thu Jun 16 05:49:28 2016	Download
13362,f0e78d7b	Wed Jun 15 09:27:18 2016	Download
13361,c12fe1dc	Tue Jun 14 02:40:11 2016	Download
13360,11382a94	Mon Jun 13 06:30:57 2016	Download

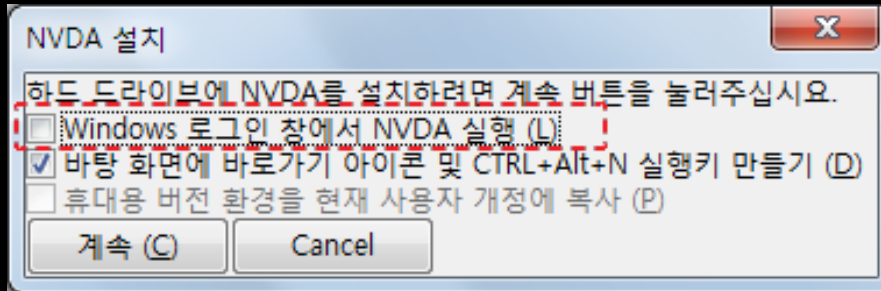
가장 최신 버전

NVDA 설치 1/2

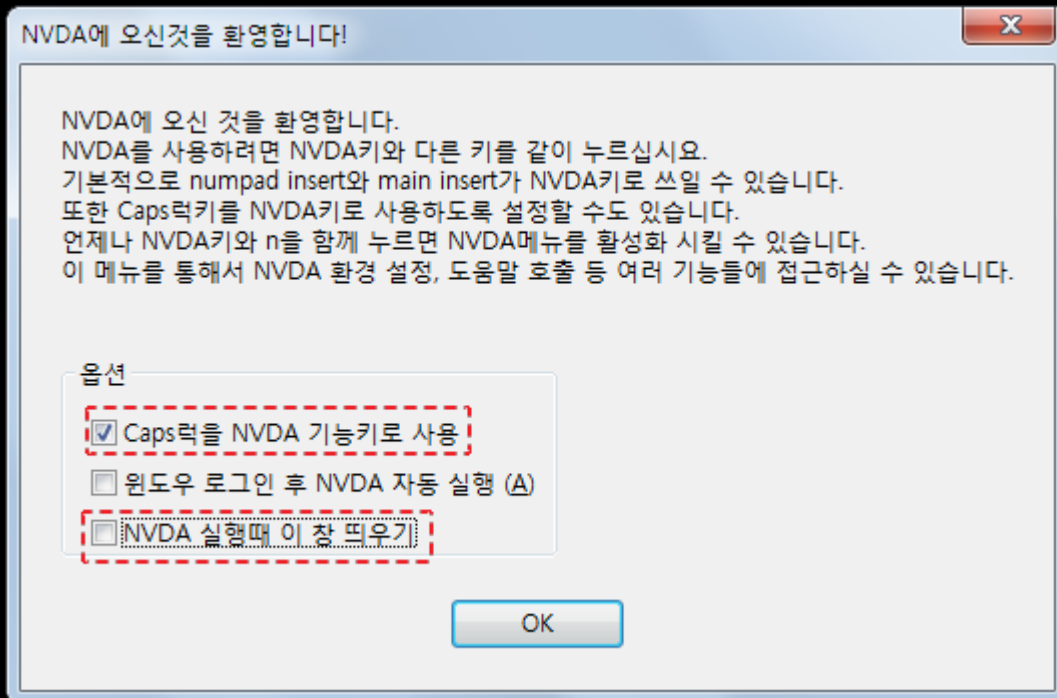
동의함 선택 후
컴퓨터에 NVDA 설치



NVDA 설치 2/2

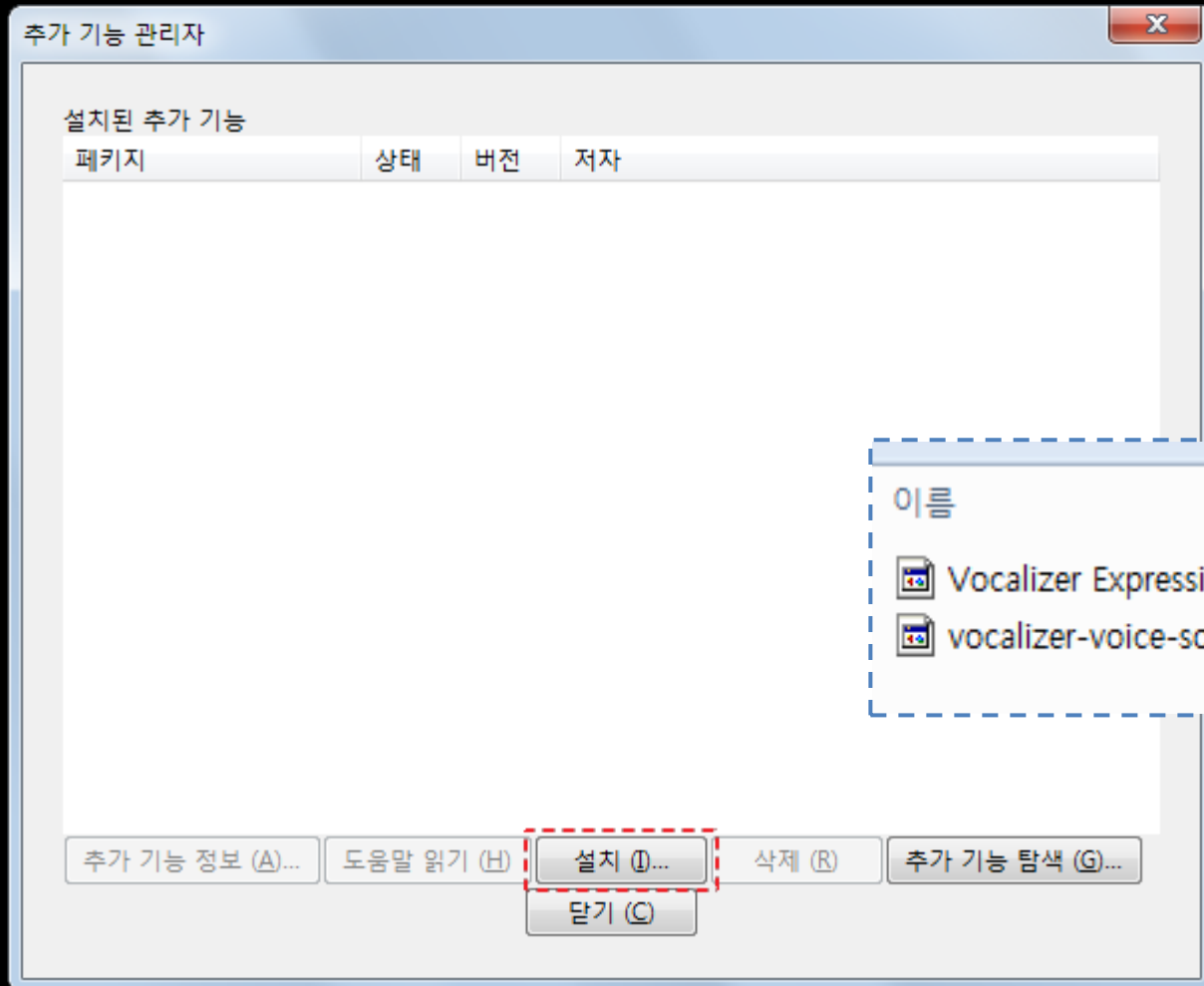


Windows 로그인...
- 해제



CapLock를 NVDA...
- 선택
NVDA 실행때 이...
- 해제

NVDA 음성엔진 설치 (Windows 7)



NVDA + N
도구 >
추가기능관리

이름

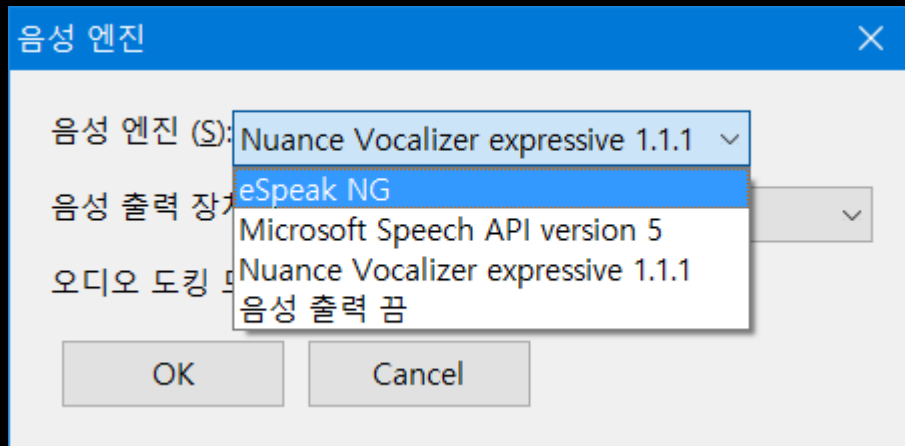


Vocalizer Expressive Driver 3.0.9.nvda-addon



vocalizer-voice-sora-PremiumHigh.nvda-addon

NVDA 음성엔진 설정



NVDA + N
설정 > 음성엔진
(NVDA + Ctrl + S)

Windows 7

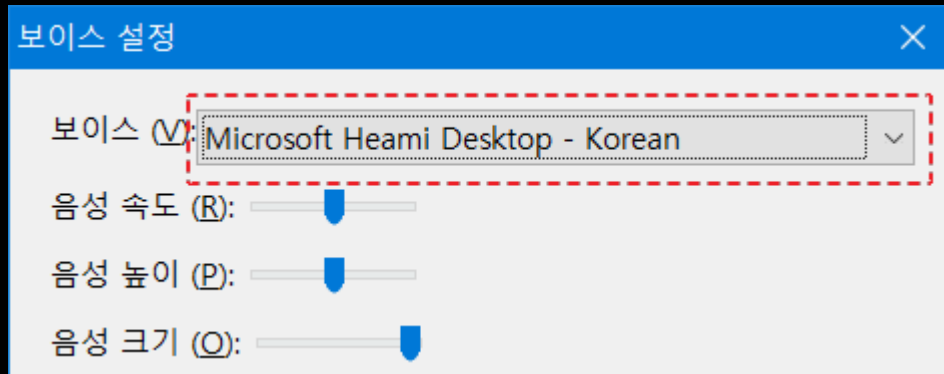
Nuance Vocalizer expressive ...

Windows 8 +

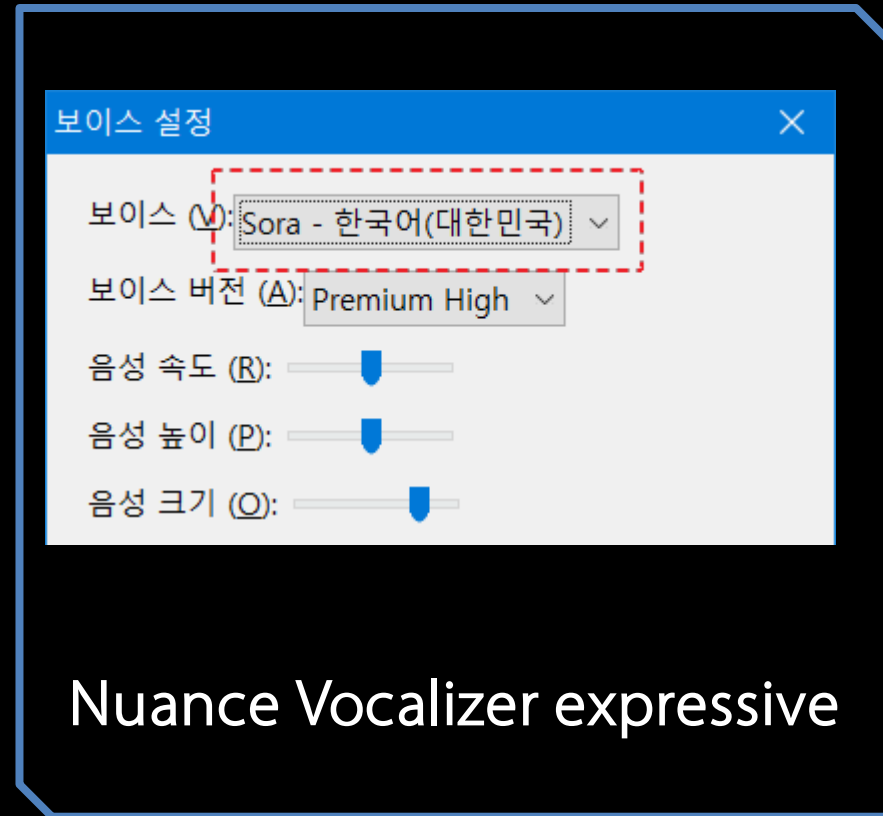
Microsoft Speech API ...

Nuance Vocalizer expressive ...

NVDA 보이스 설정



Microsoft Speech API



Nuance Vocalizer expressive

NVDA WEB - 포커스모드와 브라우저 모드

포커스모드

- 가상커서 OFF
- Tab 키로 탐색
- 텍스트입력, 컨트롤 조작
- ‘딸각’ 효과음으로 구분

– Enter

브라우저모드

- 가상커서 ON
- 방향키, 기능키로 탐색
- 콘텐츠 탐색
- ‘뽕~’ 효과음으로 구분

– ESC

NVDA + Spacebar

NVDA WEB - 화면 레이아웃모드

- 레이아웃 모드란 음성출력의 기준이 요소단위가 아닌 화면의 구성에 따르는 방식을 말함

Detail Delete Bookmark Order

- 여러 개의 링크와 버튼이 있더라도 한번에 한 줄 단위로 콘텐츠를 탐색하기 때문에 화면의 구성을 이해하고 빠른 탐색에 도움이 됨

Detail Delete Bookmark Order

NVDA + V

NVDA 음성출력뷰어

NVDA 음성 출력 뷰어

display. But in many cases screen reading software costs more than the computer itself. In the past this has left computers inaccessible to millions of blind people around the world. This is a critical problem, because without computers, access to education and employment is severely limited, not to mention everyday functions such as online banking, shopping and news.

For blind people to use a computer, they need a screen reader which reads the text on the screen in a synthetic voice or with a braille display. But in many cases screen reading software costs more than the computer itself. In the past this has left computers inaccessible to millions of blind people around the world. This is a critical problem, because without computers, access to education and employment is severely limited, not to mention everyday functions such as online banking, shopping and news.

NV Access | Our Story - Chrome 윈도우

NV Access | Our Story 문서

헤딩 레벨 2

Home of the free NVDA screen reader

NVDA + N

도구 > 음성출력뷰어

NVDA 기본 기능키

<http://haeppa.kr/srd/nvda>

- NVDA 키
 - Insert (CapsLock)
- NVDA 메뉴 열기
 - NVDA + N
- NVDA 종료
 - NVDA + Q
- CapsLock on/off
 - 2번 누르기
- 음성조절
 - NVDA + Ctrl + 좌/우
설정항목 선택
 - NVDA + Ctrl + 위/아래
설정값 조절
- 일시정지
 - NVDA + Shift + S

NVDA 함께 사용하기

- 다음에서 뉴스기사 확인하기 (landmark roles)
 - <http://media.daum.net>
- 다음메일 작성하기 (+ dialog)
 - <http://mail.daum.net>
 - 레이아웃업 <http://escrow.gmarket.co.kr/ko/Cart>

참조링크

- aria-describedby (링크텍스트 기능보완)
 - <http://haeppa.kr/test/aria-ul.button.text.html>
- aria-hidden (지도api)
 - <http://haeppa.kr/test/aria-hidden.map.html>
- aria-haspopup (링크의 기능 구체화)
 - <http://haeppa.kr/test/aria-haspopup.html>
- aria-current (현재위치, 날짜 등 구분)
 - <http://haeppa.kr/test/aria-current.html>
- aria-expanded (컨텐츠 확장여부)
 - <http://haeppa.kr/test/aria-expanded.html>

참조링크 aria-live

- aria-live (선택상자)
 - <http://haeppa.kr/test/aria-live.select.html>
- aria-live (서제스트)
 - www.daum.net
- aria-live (주식)
 - <http://files.paciellogroup.com/training/commonsamples/stocks/index.html>
- aria-live (채팅)
 - <http://chat.karlgroves-sandbox.com/>

참조링크 for JAWS

- aria-flowto (선형구조 보완) =
 - <http://3needs.org/en/testing/code/aria-flowto.html>
- aria-controls (선형구조 보완) Ins + alt + M
 - Tabs : <https://www.w3.org/TR/wai-aria-practices/examples/tabs/tabs-2/tabs.html>