

Generating Audio with LSTM

This notebook will let you download a song from Youtube and model it with an **LSTM**

This models the way each spectral frame follows another and can be used to generate new raw audio

Install prerequisites and get code

In [34]:

```
!pip install -U numpy==1.19.5
```

Requirement already satisfied: numpy==1.19.5 in /usr/local/lib/python3.7/dist-packages (1.19.5)

^^Restart runtime if required^^

In [26]:

```
%tensorflow_version 1.x
import os
os.environ['TF_CPP_MIN_LOG_LEVEL'] = '3' # less warnings ...
import tensorflow as tf
```

In [27]:

```
!git clone https://github.com/uai-cci/music_gen_interaction_RTML.git
```

fatal: destination path 'music_gen_interaction_RTML' already exists and is not an empty directory.

In [28]:

```
# python libraries
!pip install Pillow opencv-python PyWavelets tqdm slugify
!pip install -U Flask
!pip install lws==1.2.6
!pip install tflearn
!pip install librosa==0.7.2
!pip install numba==0.48
!pip install mock
```

Requirement already satisfied: Pillow in /usr/local/lib/python3.7/dist-packages (7.1.2)
 Requirement already satisfied: opencv-python in /usr/local/lib/python3.7/dist-packages (4.1.2.30)
 Requirement already satisfied: PyWavelets in /usr/local/lib/python3.7/dist-packages (1.2.0)
 Requirement already satisfied: tqdm in /usr/local/lib/python3.7/dist-packages (4.63.0)
 Requirement already satisfied: slugify in /usr/local/lib/python3.7/dist-packages (0.0.1)
 Requirement already satisfied: numpy>=1.14.5 in /usr/local/lib/python3.7/dist-packages (from opencv-python) (1.19.5)
 Requirement already satisfied: Flask in /usr/local/lib/python3.7/dist-packages (2.0.3)
 Requirement already satisfied: Werkzeug>=2.0 in /usr/local/lib/python3.7/dist-packages (from Flask) (2.0.3)
 Requirement already satisfied: Jinja2>=3.0 in /usr/local/lib/python3.7/dist-packages (from Flask) (3.0.3)
 Requirement already satisfied: click>=7.1.2 in /usr/local/lib/python3.7/dist-packages (from Flask) (7.1.2)
 Requirement already satisfied: itsdangerous>=2.0 in /usr/local/lib/python3.7/dist-packages (from Flask) (2.1.0)
 Requirement already satisfied: MarkupSafe>=2.0 in /usr/local/lib/python3.7/dist-packages (from Jinja2>=3.0->Flask) (2.0.1)
 Requirement already satisfied: lws==1.2.6 in /usr/local/lib/python3.7/dist-packages (1.2.6)
 Requirement already satisfied: tflearn in /tensorflow-1.15.2/python3.7 (0.3.2)
 Requirement already satisfied: six in /usr/local/lib/python3.7/dist-packages (from tflearn) (1.15.0)
 Requirement already satisfied: numpy in /usr/local/lib/python3.7/dist-packages (from tflearn) (1.19.5)
 Requirement already satisfied: Pillow in /usr/local/lib/python3.7/dist-packages (from tflearn) (7.1.2)
 Requirement already satisfied: librosa==0.7.2 in /usr/local/lib/python3.7/dist-packages (0.7.2)
 Requirement already satisfied: numba>=0.43.0 in /usr/local/lib/python3.7/dist-packages (from librosa==0.7.2) (0.48.0)
 Requirement already satisfied: audioread>=2.0.0 in /usr/local/lib/python3.7/dist-packages (from librosa==0.7.2) (2.1.9)
 Requirement already satisfied: decorator>=3.0.0 in /usr/local/lib/python3.7/dist-packages (from librosa==0.7.2) (4.4.2)
 Requirement already satisfied: scikit-learn!=0.19.0,>=0.14.0 in /usr/local/lib/python3.7/dist-packages (from librosa==0.7.2) (1.0.2)
 Requirement already satisfied: numpy>=1.15.0 in /usr/local/lib/python3.7/dist-packages (from librosa==0.7.2) (1.19.5)
 Requirement already satisfied: resampy>=0.2.2 in /usr/local/lib/python3.7/dist-packages (from librosa==0.7.2) (0.2.2)
 Requirement already satisfied: soundfile>=0.9.0 in /usr/local/lib/python3.7/dist-packages (from librosa==0.7.2) (0.10.3.post1)
 Requirement already satisfied: scipy>=1.0.0 in /usr/local/lib/python3.7/dist-packages (from librosa==0.7.2) (1.4.1)
 Requirement already satisfied: joblib>=0.12 in /usr/local/lib/python3.7/dist-packages (from librosa==0.7.2) (1.1.0)
 Requirement already satisfied: six>=1.3 in /usr/local/lib/python3.7/dist-packages (from librosa==0.7.2) (1.15.0)
 Requirement already satisfied: llvmlite<0.32.0,>=0.31.0dev0 in /usr/local/lib/python3.7/dist-packages (from numba>=0.43.0->librosa==0.7.2) (0.31.0)
 Requirement already satisfied: setuptools in /usr/local/lib/python3.7/dist-packages (from numba>=0.43.0->librosa==0.7.2) (57.4.0)
 Requirement already satisfied: threadpoolctl>=2.0.0 in /usr/local/lib/python3.7/dist-packages (from scikit-learn!=0.19.0,>=0.14.0->librosa==0.7.2) (3.1.0)
 Requirement already satisfied: cffi>=1.0 in /usr/local/lib/python3.7/dist-packages (from soundfile>=0.9.0->librosa==0.7.2) (1.15.0)
 Requirement already satisfied: pycparser in /usr/local/lib/python3.7/dist-packages (from cffi>=1.0->soundfile>=0.9.0->librosa==0.7.2) (2.21)
 Requirement already satisfied: numba==0.48 in /usr/local/lib/python3.7/dist-packages (0.48.0)
 Requirement already satisfied: numpy>=1.15 in /usr/local/lib/python3.7/dist-packages (from numba==0.48) (1.19.5)
 Requirement already satisfied: llvmlite<0.32.0,>=0.31.0dev0 in /usr/local/lib/python3.7/dist-packages (from numba==0.48) (0.31.0)
 Requirement already satisfied: setuptools in /usr/local/lib/python3.7/dist-packages (from numba==0.48) (57.4.0)
 Requirement already satisfied: mock in /usr/local/lib/python3.7/dist-packages (4.0.3)

In [29]:

```
%cd /content/music_gen_interaction_RTML
```

```
/content/music_gen_interaction_RTML
```

Download a sample audio:

Note: replace the url with whatever music video you want - or upload a file directly. You can use the ffmpeg to convert it to wav later.

In [30]:

```
# get a youtube downloader
```

```
!sudo curl -L https://www.youtube.com/watch?v=1mTsu8HvC1g /usr/local/bin/youtube-dl
```

```
!sudo chmod a+rx /usr/local/bin/youtube-dl
```

```
<!DOCTYPE html><html style="font-size: 10px;font-family: Roboto, Arial, sans-serif;" lang="zh-Hant-TW" system-icons typography typography-spacing><head><meta http-equiv="X-UA-Compatible" content="IE=edge"/><script nonce="VAfobRlSmIvpyo4ajH7Qsg">var ytcfg={d:function(){return window.yt&yt.config||ytcfg.data_||{ytcfg.data_={}}},get:function(k,o){return k in ytcfg.d()?ytcfg.d()[k]:o},set:function(){var a=arguments;if(a.length>1)ytcfg.d()[a[0]]=a[1];else for(var k in a[0])ytcfg.d()[k]=a[0][k]};window.ytcfg.set('EMERGENCY_BASE_URL','\error_204?t\x3djserror\x26level\x3dERROR\x26client.name\x3d1\x26client.version\x3d2.20220308.01.00');</script><script nonce="VAfobRlSmIvpyo4ajH7Qsg">(function(){window.ytterr=window.ytterr||true;window.unhandledErrorMessages={};window.unhandledErrorCount=0;window.onerror=function(msg,url,line,columnNumber,error){var err;if(error)err=error;else{err=new Error;err.stack="";err.message=msg;err.fileName=url;err.lineNumber=line;if(!isNaN(columnNumber))err["columnNumber"]=columnNumber}var message=String(err.message);if(!err.message||message in window.unhandledErrorMessages||window.unhandledErrorCount>=5)return;window.unhandledErrorCount+=1;window.unhandledErrorMessages[message]=true;var img=new Image;window.emergencyTimeoutImg=img;img.onload=img.onerror=function(){delete window.emergencyTimeoutImg};var combinedLineAndColumn=err.lineNumber;if(!isNaN(err["columnNumber"]))combinedLineAndColumn+=": "+err["columnNumber"];var stack=err.stack||"";var values={"msg":message,"type":err.name,"client.params":"unhandled window error","file":err.fileName,"line":combinedLineAndColumn,"stack":stack.substr(0,500)};var thirdPartyScript=!err.fileName||err.fileName==="<anonymous>"||stack.indexOf("extension://")>=0;var replaced=stack.replace(/https:\/\/www.youtube.com\/g,"");if(replaced.match(/https?:\/\/\[\/\]+\/\//))thirdPartyScript=true;else if(stack.indexOf("trapProp")>=0&&stack.indexOf("trapChain")>=0)thirdPartyScript=true;else if(message.indexOf("redefine non-configurable")>=0)thirdPartyScript=true;var baseUrl=window["ytcfg"].get("EMERGENCY_BASE_URL","https://www.youtube.com/error_204?t=jserror&level=ERROR");var unsupported=message.indexOf("window.customElements is undefined")>=0;if(thirdPartyScript||unsupported)baseUrl=baseUrl.replace("level=ERROR","level=WARNING");var parts=[baseUrl];for(var key in values){var value=values[key];if(value)parts.push(key+"="+encodeURIComponent(value))}img.src=parts.join("&");(function(){function _getExtendedNativePrototype(tag){var p=this._nativePrototypes[tag];if(!p){p=Object.create(this.getNativePrototype(tag));var p$=Object.getOwnPropertyNames(window["Polymer"].Base);for(var i=0,n=void 0;i<p$.length&&(n=p$[i]);i++)if(!window["Polymer"].BaseDescriptors[n])try{p[n]=window["Polymer"].Base[n]}catch(e){throw new Error("Error while copying property: "+n+" Tag is "+tag)};try{Object.defineProperties(p,window["Polymer"].BaseDescriptors)}catch(e$0){throw new Error("Polymer define property failed for "+Object.keys(p))};this._nativePrototypes[tag]=p}return p}function handlePolymerError(msg){window.onerror(msg>window.location.href?0,0,new Error(Array.prototype.join.call(arguments,""))}var origPolymer=window["Polymer"];var newPolymer=function(config){if(!origPolymer._ytIntercepted&&window["Polymer"].Base){origPolymer._ytIntercepted=true;window["Polymer"].Base._getExtendedNativePrototype=_getExtendedNativePrototype;window["Polymer"].Base._error=handlePolymerError;window["Polymer"].Base._warn=handlePolymerError}return origPolymer.apply(this,arguments)};var origDescriptor=Object.getOwnPropertyDescriptor(window,"Polymer");Object.defineProperty(window,"Polymer",{set:function(p){if(origDescriptor&&origDescriptor.set&&origDescriptor.get){origDescriptor.set(p);origPolymer=origDescriptor.get()}else origPolymer=p;if(typeof origPolymer==="function")Object.defineProperty(window,"Polymer",{value:origPolymer,configurable:true,enumerable:true,writable:true})},get:function(){return typeof origPolymer==="function"?newPolymer:origPolymer},configurable:true,enumerable:true}})})();).call(this);</script><script nonce="VAfobRlSmIvpyo4ajH7Qsg">window.Polymer=window.Polymer||{};window.Polymer.legacyOptimizations=true;window.Polymer.setPassiveTouchGestures=true;window.ShadyDOM={force:true,preferPerformance:true,noPatch:true};window.polymerSkipLoadingFontRoboto = true;</script><link rel="shortcut icon" href="https://www.youtube.com/s/desktop/58ec298f/img/favicon.ico" type="image/x-icon"><link rel="icon" href="https://www.youtube.com/s/desktop/58ec298f/img/favicon_32x32.png" sizes="32x32"><link rel="icon" href="https://www.youtube.com/s/desktop/58ec298f/img/favicon_48x48.png" sizes="48x48"><link rel="icon" href="https://www.youtube.com/s/desktop/58ec298f/img/favicon_96x96.png" sizes="96x96"><link rel="icon" href="https://www.youtube.com/s/desktop/58ec298f/img/favicon_144x144.png" sizes="144x144"><script nonce="VAfobRlSmIvpyo4ajH7Qsg">var ytcsi={gt:function(n){n=(n||"")+ "data_";return ytcsi[n]||{ytcsi[n]={tick:{},info:{}}},now>window.performance&&window.performance.timing&&window.performance.now&&window.performance.timing.navigationStart?function(){return window.performance.timing.navigationStart>window.performance.now():function(){return(new Date).getTime()}};tick:function(l,t,n){var ticks=ytcsi.gt(n).tick;var v=t||ytcsi.now();if(ticks[l]){ticks["_"+l]=ticks["_"+l]||ticks[l];ticks["_"+l].push(v)}ticks[l]=v},info:function(k,v,n){ytcsi.gt(n).info[k]=v},setStart:function(t,n){ytcsi.tick("_start",t,n)};(function(w,d){ytcsi.setStart(w.performance?w.performance.timing.responseStart:null);var isPrerender=(d.visibilityState||d.webkitVisibilityState)=="prerender";var vName=!d.visibilityState&&d.webkitVisibilityState?"webkitvisibilitychange":"visibilitychange";if(isPrerender){var startTick=function(){ytcsi.setStart();d.removeEventListener(vName,startTick)};d.addEventListener(vName,startTick,false)}if(d.addEventListener)d.addEventListener(vName,function(){ytcsi.tick("vc")},false);function isGecko(){if(!w.navigator)return false;try{if(w.navigator.userAgentData&&w.navigator.userAgentData.brands&&w.navigator.userAgentData.brands.length){var brands=w.navigator.userAgentData.brands;for(var i=0;i<brands.length;i++)if(brands[i]&&brands[i].brand==="Firefox")return true;return false}}catch(e){setTimeout(function(){throw e;})}if(!w.navigator.userAgent)return false;var ua=w.navigator.userAgent;return ua.indexOf("Gecko")>0&&ua.toLowerCase().indexOf("webkit")<0&&ua.indexOf("Edge")<0&&ua.indexOf("Trident")<0&&ua.indexOf("MSIE")<0}if(isGecko()){var isHidden=(d.visibilityState||d.webkitVisibilityState)=="hidden";if(isHidden)ytcsi.tick("vc")}var slt=function(el,t){setTimeout(function(){var n=ytcsi.now();el.loadTime=n;if(el.slt)el.slt(),t);w.__ytRIL=function(el){if(!el.getAttribute("data-thumb"))if(w.requestAnimationFrame)w.requestAnimationFrame(function{
```

```
n()){slt(el,0)}};else slt(el,16)}})(window,document);
</script><script nonce="VAFobRLSmIvpyo4ajH7Qsg">(function() {var img = new Image().src = "https://i.
ytimg.com/generate_204";})();</script><script src="https://www.youtube.com/s/desktop/58ec298f/jsbin/
web-animations-next-lite.min.vflset/web-animations-next-lite.min.js" nonce="VAFobRLSmIvpyo4ajH7Qsg">
</script><script src="https://www.youtube.com/s/desktop/58ec298f/jsbin/webcomponents-all-noPatch.vfl
set/webcomponents-all-noPatch.js" nonce="VAFobRLSmIvpyo4ajH7Qsg"></script><script src="https://www.y
outube.com/s/desktop/58ec298f/jsbin/fetch-polyfill.vflset/fetch-polyfill.js" nonce="VAFobRLSmIvpyo4a
jH7Qsg"></script><script src="https://www.youtube.com/s/desktop/58ec298f/jsbin/intersection-observer
.min.vflset/intersection-observer.min.js" nonce="VAFobRLSmIvpyo4ajH7Qsg"></script><script nonce="Vaf
obRLSmIvpyo4ajH7Qsg">if (window.ytcsi) {window.ytcsi.tick('lpcs', null, '');}</script><script nonce=
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ytcfg.set({"CLIENT_CANARY_STATE":"none","DEVICE":"cbrand\u003drobot\u0026ceng\u003dUSER_DEFINED\u002
6cmodel\u003dbot+or+crawler\u0026cplatform\u003dDESKTOP","DISABLE_YT_IMG_DELAY_LOADING":false,"ELEM
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3d8000\u0026autoplay_time_for_fullscreen\u003d-1\u0026autoplay_time_for_music_content\u003d3000\u0026
6autoplay_time_for_music_content_after_autoplayed_video\u003d-1\u0026bg_vm_reinit_threshold\u003d720
0000\u0026botguard_async_snapshot_timeout_ms\u003d3000\u0026cb_v2_uxe\u003d23983171\u0026check_ad_ui
_status_for_mweb_safari\u003dtrue\u0026check_navigator_accuracy_timeout_ms\u003d0\u0026clear_user_pa
rtitioned_ls\u003dtrue\u0026csi_on_get\u003dtrue\u0026dash_manifest_version\u003d5\u0026debug_bandai
d_hostname\u003d\u0026debug_sherlog_username\u003d\u0026delay_ads_gvi_call_on_bulleit_living_room_ms
\u003d0\u0026deprecate_pair_servlet_enabled\u003dtrue\u0026deprecate_two_way_binding_child\u003dtrue
\u0026deprecate_two_way_binding_parent\u003dtrue\u0026desktop_image_cta_no_background\u003dtrue\u0026
6desktop_player_button_tooltip_with_shortcut\u003dtrue\u0026desktop_sparkles_light_cta_button\u003dt
rue\u0026desktop_text_ads_gray_visurl\u003dtrue\u0026disable_channel_id_check_for_suspended_channels
\u003dtrue\u0026disable_child_node_auto_formatted_strings\u003dtrue\u0026disable_features_for_supex\
\u003dtrue\u0026disable_legacy_desktop_remote_queue\u003dtrue\u0026disable_md_x_connection_in_md_x_modu
le_for_music_web\u003dtrue\u0026disable_new_pause_state3\u003dtrue\u0026disable_rounding_ad_notify\u00
3dtrue\u0026disable_simple_mixed_direction_formatted_strings\u003dtrue\u0026disable_ssai_on_error
s\u003dtrue\u0026disable_thumbnail_preloading\u003dtrue\u0026embeds_enable_embed_module\u003dtrue\u00
26embeds_enable_iframe_apis_through_oneplatform\u003dtrue\u0026embeds_enable_limited_playback_durat
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n_buttons\u003dtrue\u0026embeds_web_enable_mobile_ally_hidden_seek_button\u003dtrue\u0026embeds_web_
enable_mobile_touch_fix\u003dtrue\u0026embeds_web_synth_ch_headers_banned_urls_regex\u003d\u0026enab
le_ad_break_end_time_on_pacf_tvhtml5\u003dtrue\u0026enable_cast_for_web_unplugged\u003dtrue\u0026ena
ble_cast_on_music_web\u003dtrue\u0026enable_client_page_id_header_for_first_party_pings\u003dtrue\u00
26enable_client_sli_logging\u003dtrue\u0026enable_eviction_protection_for_bulleit\u003dtrue\u0026en
able_get_log_commands\u003dtrue\u0026enable_gray_visurl\u003dtrue\u0026enable_h5_ssai_caption\u003d

true\u0026enable live_premiere_web_player_indicator\u003dtrue\u0026enable mixed_direction_formatted_strings\u003dtrue\u0026enable mweb_livestream_ui_update\u003dtrue\u0026enable new_paid_product_placement\u003dtrue\u0026enable server_stitched_dai\u003dtrue\u0026enable_shorts_player\u003dtrue\u0026enable_sli_flush\u003dtrue\u0026enable_survey_ads_on_ytv_lr\u003dtrue\u0026enable_svg_mode_on_embed_mobile\u003dtrue\u0026enable tectonic_ad_ux_for_halftime\u003dtrue\u0026enable_topsoil_wta_for_halftime_live_infra\u003dtrue\u0026enable_web_eom_visitor_data\u003dtrue\u0026enable_web_media_session_metadata_fix\u003dtrue\u0026error_message_for_gsuite_network_restrictions\u003dtrue\u0026export_networkless_options\u003dtrue\u0026external_fullscreen_with_edu\u003dtrue\u0026fast_autonav_in_background\u003dtrue\u0026fix_ads_tracking_for_swf_config_deprecation_mweb\u003dtrue\u0026forward_domain_admin_state_on_embeds\u003dtrue\u0026gvi_channel_client_screen\u003dtrue\u0026h5_csi_seek_latency_action_sampling\u003d0.1\u0026hfr_dropped_framerate_fallback_threshold\u003d0\u0026html5_ad_timeout_ms\u003d0\u0026html5_ads_preroll_lock_timeout_delay_ms\u003d15000\u0026html5_allow_chromecast_opus\u003dtrue\u0026html5_allow_missing_ad_duration_in_player_vars\u003dtrue\u0026html5_allow_video_keyframe_without_audio\u003dtrue\u0026html5_allowable_liveness_drift_chunks\u003d2\u0026html5_always_serve_dash\u003dtrue\u0026html5_attach_num_random_bytes_to_bandaidth\u003d0\u0026html5_attach_po_token_to_bandaidth\u003dtrue\u0026html5_autonav_cap_idle_secs\u003d0\u0026html5_autonav_quality_cap\u003d720\u0026html5_autoplay_default_quality_cap\u003d0\u0026html5_background_cap_idle_secs\u003d60\u0026html5_background_quality_cap\u003d360\u0026html5_block_pip_safari_delay\u003d0\u0026html5_clamp_cuepoints_to_min\u003dtrue\u0026html5_cobalt_override_quick\u003d0\u0026html5_crypto_period_secs_from_emsg\u003dtrue\u0026html5_de_dupe_content_video_loads_in_lifecycle_api\u003dtrue\u0026html5_deadzone_multiplier\u003d1.0\u0026html5_debug_data_log_probability\u003d0.0\u0026html5_decode_to_texture_cap\u003dtrue\u0026html5_decoder_freeze_timeout_delay_ms\u003d0\u0026html5_default_ad_gain\u003d0.5\u0026html5_default_quality_cap\u003d0\u0026html5_defer_fetch_att_ms\u003d0\u0026html5_delay_initial_loading\u003dtrue\u0026html5_delayed_retry_count\u003d1\u0026html5_delayed_retry_delay_ms\u003d5000\u0026html5_deprecate_video_tag_pool\u003dtrue\u0026html5_desktop_vr180_allow_panning\u003dtrue\u0026html5_df_downgrade_threshold\u003d0.2\u0026html5_disable_move_pssh_to_moov\u003dtrue\u0026html5_disable_non_contiguous\u003dtrue\u0026html5_drm_check_all_key_error_states\u003dtrue\u0026html5_drm_cpi_license_key\u003dtrue\u0026html5_early_resource_cooldown_check\u003dtrue\u0026html5_enable_ac3\u003dtrue\u0026html5_enable_client_hints_override\u003dtrue\u0026html5_enable_cpn_macro_substitution_for_trv_discovery_ads\u003dtrue\u0026html5_enable_deferred_triggers_on_error\u003dtrue\u0026html5_enable_eac3\u003dtrue\u0026html5_enable_embedded_player_visibility_signals\u003dtrue\u0026html5_enable_non_notify_composite_vod_lsar_pacf\u003dtrue\u0026html5_enable_non_notify_composite_vod_lsar_pacf_tv\u003dtrue\u0026html5_enable_pacf_command_api_with_macros\u003dtrue\u0026html5_enable_pacf_for_playback_tracking_layout_web\u003dtrue\u0026html5_enable_player_bytes_vod_survey_in_pacf_for_tv\u003dtrue\u0026html5_enable_server_stitched_alr\u003dtrue\u0026html5_enable_single_video_vod_ivar_on_pacf\u003dtrue\u0026html5_enable_single_video_vod_ivar_on_pacf_tv\u003dtrue\u0026html5_enable_ssai_secondary_host\u003dtrue\u0026html5_enable_tvos_encrypted_vp9\u003dtrue\u0026html5_enable_video_overlay_on_inplayer_slot_for_tv\u003dtrue\u0026html5_enable_vod_lsar_ivar_pacf_unplugged\u003dtrue\u0026html5_enable_vod_survey_in_pacf_for_web\u003dtrue\u0026html5_encourage_array_coalescing\u003dtrue\u0026html5_exile_on_drm_fatal\u003dtrue\u0026html5_expanded_max_vss_pings\u003dtrue\u0026html5_fix_csi_event_order_in_pacf\u003dtrue\u0026html5_fludd_suspend\u003dtrue\u0026html5_gapless_ad_byterate_multiplier\u003d1.6\u0026html5_gapless_ended_transition_buffer_ms\u003d200\u0026html5_gapless_max_played_ranges\u003d12\u0026html5_gapless_no_requests_after_lock\u003dtrue\u0026html5_gapless_preloading\u003dtrue\u0026html5_gapless_seek_tolerance_secs\u003d3.0\u0026html5_generate_session_po_token\u003dtrue\u0026html5_gl_fps_threshold\u003d0\u0026html5_hack_gapless_init\u003dtrue\u0026html5_hdcp_probing_stream_url\u003d\u0026html5_health_to_gel\u003dtrue\u0026html5_heartbeat_set_ended\u003dtrue\u0026html5_hfr_quality_cap\u003d0\u0026html5_live_rate_limit_ms\u003d0\u0026html5_ignore_bad_bitrates\u003dtrue\u0026html5_inline_quality_cap\u003d480\u0026html5_innertube_heartbeats_for_fairplay\u003dtrue\u0026html5_innertube_heartbeats_for_playready\u003dtrue\u0026html5_innertube_heartbeats_for_widevine\u003dtrue\u0026html5_ios4_seek_above_zero\u003dtrue\u0026html5_ios7_force_play_on_stall\u003dtrue\u0026html5_ios_force_seek_to_zero_on_stop\u003dtrue\u0026html5_jumbo_mobile_subsegment_readahead_target\u003d3.0\u0026html5_jumbo_ull_non_streaming_mffa_ms\u003d4000\u0026html5_jumbo_ull_subsegment_readahead_target\u003d1.3\u0026html5_license_constraint_delay\u003d5000\u0026html5_live_abr_head_miss_fraction\u003d0.0\u0026html5_live_abr_repredict_fraction\u003d0.0\u0026html5_live_low_latency_bandwidth_window\u003d0.0\u0026html5_live_normal_latency_bandwi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or crawler","platform":"DESKTOP","interfaceName":"WEB","interfaceVersion":"2.20220308.01.00"},"serializedExperimentIds":"23858058,23983296,23986027,24001373,24002022,24002025,24004644,24007246,24045469,24045470,24062269,24080738,24082661,24135310,24139173,24142509,24148484,24169726,24180015,24180070,24183383","serializedExperimentFlags":"ad_pod_disable_companion_persist_ads_quality\u003dtrue\u0026addto_ajax_log_warning_fraction\u003d0.1\u0026align_ad_to_video_player_lifecycle_for_bulleit\u003dtrue\u0026allow_live_autoplay\u003dtrue\u0026allow_poltergust_autoplay\u003dtrue\u0026allow_skip_networkless\u003dtrue\u0026autoplay_time\u003d8000\u0026autoplay_time_for_fullscreen\u003d-1\u0026autoplay_time_for_music_content\u003d3000\u0026autoplay_time_for_music_content_after_autoplayed_video\u003d-1\u0026bg_vm_reinit_threshold\u003d7200000\u0026botguard_async_snapshot_timeout_ms\u003d3000\u0026cb_v2_uxe\u003d23983171\u0026check_ad_ui_status_for_web_safari\u003dtrue\u0026check_navigator_accuracy_timeout_ms\u003d0\u0026clear_user_partitioned_ls\u003dtrue\u0026csi_on_gel\u003dtrue\u0026dash_manifest_version\u003d5\u0026debug_bandaaid_hostname\u003d\u0026debug_sherlog_username\u003d\u0026delay_ads_gvi_call_on_bulleit_living_room_ms\u003d0\u0026deprecate_pair_servlet_enabled\u003dtrue\u0026deprecate_two_way_binding_child\u003dtrue\u0026deprecate_two_way_binding_parent\u003dtrue\u0026desktop_image_cta_no_background\u003dtrue\u0026desktop_player_button_tooltip_with_shortcut\u003dtrue\u0026desktop_sparkles_light_cta_button\u003dtrue\u0026desktop_text_ads_gray_visurl\u003dtrue\u0026disable_channel_id_check_for_suspended_channels\u003dtrue\u0026disable_child_node_auto_formatted_strings\u003dtrue\u0026disable_features_for_supex\u003dtrue\u0026disable_legacy_desktop_remote_queue\u003dtrue\u0026disable_mdx_connection_in_mdx_module_for_music_web\u003dtrue\u0026disable_new_pause_state3\u003dtrue\u0026disable_rounding_ad_notify\u003dtrue\u0026disable_simple_mixed_direction_formatted_strings\u003dtrue\u0026disable_ssai_on_errors\u003dtrue\u0026disable_thumbnail_preloading\u003dtrue\u0026embeds_enable_embed_module\u003dtrue\u0026embeds_enable_iframe_apis_through_oneplatform\u003dtrue\u0026embeds_enable_limited_playback_duration\u003dtrue\u0026embeds_enable_mobile_custom_controls\u003dtrue\u0026embeds_web_enable_hiding_login_buttons\u003dtrue\u0026embeds_web_enable_mobile_ally_hidden_seek_button\u003dtrue\u0026embeds_web_enable_mobile_touch_fix\u003dtrue\u0026embeds_web_synth_ch_headers_banned_urls_regex\u003d\u0026enable_ad_break_end_time_on_pacf_tvhtml5\u003dtrue\u0026enable_cast_for_web_unplugged\u003dtrue\u0026enable_cast_on_music_web\u003dtrue\u0026enable_client_page_id_header_for_first_party_pings\u003dtrue\u0026enable_client_sli_logging\u003dtrue\u0026enable_eviction_protection_for_bulleit\u003dtrue\u0026enable_gel_log_commands\u003dtrue\u0026enable_gray_visurl\u003dtrue\u0026enable_h5_ssai_captions\u003dtrue\u0026enable_live_premiere_web_player_indicator\u003dtrue\u0026enable_mixed_direction_formatted_strings\u003dtrue\u0026enable_mweb_livestream_ui_update\u003dtrue\u0026enable_new_paid_product_placement\u003dtrue\u0026enable_server_stitched_dai\u003dtrue\u0026enable_shorts_player\u003dtrue\u0026enable_sli_flush\u003dtrue\u0026enable_survey_ads_on_ytv_lr\u003dtrue\u0026enable_svg_mode_on_embed_mobile\u003dtrue\u0026enable_tectonic_ad_ux_for_halftime\u003dtrue\u0026enable_topsoil_wta_for_halftime_live_infra\u003dtrue\u0026enable_web_eom_visitor_data\u003dtrue\u0026enable_web_media_session_metadata_fix\u003dtrue\u0026error_message_for_gsuite_network_restrictions\u003dtrue\u0026export_networkless_options\u003dtrue\u0026external_fullscreen_with_edu\u003dtrue\u0026fast_autonav_in_background\u003dtrue\u0026fix_ads_tracking_for_swf_config_deprecation_mweb\u003dtrue\u0026forward_domain_admin_state_on_embeds\u003dtrue\u0026gvi_channel_client_screen\u003dtrue\u0026h5_csi_seek_latency_action_sampling\u003d0.1\u0026hfr_dropped_framerate_fallback_threshold\u003d0\u0026html5_ad_timeout_ms\u003d0\u0026html5_ads_preroll_lock_timeout_delay_ms\u003d15000\u0026html5_allow_chromecast_opus\u003dtrue\u0026html5_allow_missing_ad_duration_in_player_vars\u003dtrue\u0026html5_allow_video_keyframe_without_audio\u003dtrue\u0026html5_allowable_liveness_drift_chunks\u003d2\u0026html5_always_serve_dash\u003dtrue\u0026html5_attach_num_random_bytes_to_bandaaid\u003d0\u0026html5_attach_po_token_to_bandaaid\u003dtrue\u0026html5_autonav_cap_idle_secs\u003d0\u0026html5_autonav_quality_cap\u003d720\u0026html5_autoplay_default_quality_cap\u003d0\u0026html5_background_cap_idle_secs\u003d60\u0026html5_background_quality_cap\u003d360\u0026html5_block_pip_safari_delay\u003d0\u0026html5_clamp_cuepoints_to_min\u003dtrue\u0026html5_cobalt_override_quic\u003d0\u0026html5_crypto_period_secs_from_emsg\u003dtrue\u0026html5_de_dupe_content_video_loads_in_lifecycle_api\u003dtrue\u0026html5_deadzone_multiplier\u003d1.0\u0026html5_debug_data_log_probability\u003d0.0\u0026html5_decode_to_texture_cap\u003dtrue\u0026html5_decoder_freeze_timeout_delay_ms\u003d0\u0026html5_default_ad_gain\u003d0.5\u0026html5_default_quality_cap\u003d0\u0026html5_defer_fetch_att_ms\u003d0\u0026html5_delay_initial_loading\u003dtrue\u0026html5_delayed_retry_count\u003d1\u0026html5_delayed_retry_delay_ms\u003d5000\u0026html5_deprecate_video_tag_pool\u003dtrue\u0026html5_desktop_vr180_allow_panning\u003dtrue\u0026html5_df_downgrade_thresh\u003d0.2\u0026html5_disable_move_pssh_to_moov\u003dtrue\u0026html5_disable_non_contiguous\u003dtrue\u0026html5_drm_check_all_key_error_states\u003dtrue\u0026html5_drm_cpi_license_key\u003dtrue\u0026html5_early_resource_cooldown_check\u003dtrue\u0026html5_enable_ac3\u003dtrue\u0026html5_enable_client_hints_override\u003dtrue\u0026html5_enable_cpn_macro_substitution_for_trv_discovery_ads\u003dtrue\u0026html5_enable_deferred_triggers_on_error\u003dtrue\u0026html5_enable_eac3\u003dtrue\u0026html5_enable_embedded_player_visibility_signals\u003dtrue\u0026html5_enable_non_notify_composite_vod_lsar_pacf\u003dtrue\u0026html5_enable_non_notify_composite_vod_lsar_pacf_tv\u003dtrue\u0026html5_enable_pacf_command_api_with_macros\u003dtrue\u0026html5_enable_pacf_for_playback_tracking_layout_web\u003dtrue\u0026html5_enable_player_bytes_vod_survey_in_pacf_for_tv\u003dtrue\u0026html5_enable_server_stitched_alr\u003dtrue\u0026html5_enable_single_video_vod_ivar_on_pacf\u003dtrue\u0026html5_enable_single_video_vod_ivar_on_pacf_tv\u003dtrue\u0026html5_enable_ssai_secondary_host\u003dtrue\u0026html5_enable_tvos_encrypted_vp9\u003dtrue\u0026html5_enable_video_overlay_on_inplayer_slot_for_tv\u003dtrue\u0026html5_enable_vod_lsar_ivar_pacf_unplugged\u003dtrue\u0026html5_enable_vod_survey_in_pacf_for_web\u003dtrue\u0026html5_encourage_array_coalescing\u003dtrue\u0026html5_exile_on_drm_fatal\u003d

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probing_stream_url\u003d\u0026html5_health_to_gel\u003dtrue\u0026html5_heartbeat_set_ended\u003dtrue\u0026html5_hfr_quality_cap\u003d0\u0026html5_idle_rate_limit_ms\u003d0\u0026html5_ignore_bad_bitrates\u003dtrue\u0026html5_inline_quality_cap\u003d480\u0026html5_innertube_heartbeats_for_fairplay\u003dtrue\u0026html5_innertube_heartbeats_for_playready\u003dtrue\u0026html5_innertube_heartbeats_for_widevine\u003dtrue\u0026html5_ios4_seek_above_zero\u003dtrue\u0026html5_ios7_force_play_on_stall\u003dtrue\u0026html5_ios_force_seek_to_zero_on_stop\u003dtrue\u0026html5_jumbo_mobile_subsegment_readahead_target\u003d3.0\u0026html5_jumbo_ull_nonstreaming_mffa_ms\u003d4000\u0026html5_jumbo_ull_subsegment_readahead_target\u003d1.3\u0026html5_license_constraint_delay\u003d5000\u0026html5_live_abr_head_miss_fraction\u003d0.0\u0026html5_live_abr_repredict_fraction\u003d0.0\u0026html5_live_low_latency_bandwidth_window\u003d0.0\u0026html5_live_normal_latency_bandwidth_window\u003d0.0\u0026html5_live_quality_cap\u003d0\u0026html5_live_ulltra_low_latency_bandwidth_window\u003d0.0\u0026html5_log_audio_abr\u003dtrue\u0026html5_log_experiment_id_from_player_response_to_ctmp\u003d\u0026html5_log_rebuffer_events\u003d5\u0026html5_log_server_url_param\u003dtrue\u0026html5_long_rebuffer_jiggle_cmt_delay_ms\u003d0\u0026html5_long_rebuffer_threshold_ms\u003d30000\u0026html5_manifestless_seg_drift_limit_secs\u003d0\u0026html5_manifestless_unplugged\u003dtrue\u0026html5_manifestless_vp9_otf\u003dtrue\u0026html5_max_drift_per_track_secs\u003d0.0\u0026html5_max_headm_for_streaming_xhr\u003d0\u0026html5_max_live_dvr_window_plus_margin_secs\u003d46800.0\u0026html5_max_readbehind_secs\u003d0\u0026html5_max_redirect_response_length\u003d8192\u0026html5_max_selectable_quality_ordinal\u003d0\u0026html5_maximum_readahead_seconds\u003d0.0\u0026html5_media_fullscreen\u003dtrue\u0026html5_mfl_extend_max_request_time\u003dtrue\u0026html5_min_readbehind_cap_secs\u003d60\u0026html5_min_readbehind_secs\u003d0\u0026html5_min_selectable_quality_ordinal\u003d0\u0026html5_min_startup_buffered_media_duration_secs\u003d1.2\u0026html5_minimum_readahead_seconds\u003d0.0\u0026html5_new_elem_on_hidden\u003dtrue\u0026html5_no_placeholder_rollbacks\u003dtrue\u0026html5_non_network_rebuffer_duration_ms\u003d0\u0026html5_non_onesie_attach_po_token\u003dtrue\u0026html5_not_register_disposables_when_core_listens\u003dtrue\u0026html5_onesie_all_supported_formats_in_pvi\u003dtrue\u0026html5_onesie_compress_player_response\u003dtrue\u0026html5_onesie_defer_content_loader_ms\u003d0\u0026html5_onesie_enable_server_side_bandwidth_estimation\u003dtrue\u0026html5_onesie_host_racing_cap_ms\u003d0\u0026html5_onesie_ignore_innertube_api_key\u003dtrue\u0026html5_onesie_live_ttl_secs\u003d8\u0026html5_onesie_media_bytes\u003dtrue\u0026html5_onesie_prewarm_intervalue_ms\u003d0\u0026html5_onesie_prewarm_max_lact_ms\u003d0\u0026html5_onesie_progress_timeout_ms\u003d0\u0026html5_onesie_server_initial_format_selection\u003dtrue\u0026html5_onesie_sticky_server_side\u003dtrue\u0026html5_pacf_enable_dai\u003dtrue\u0026html5_pacf_enable_non_dai_live_video_ads\u003dtrue\u0026html5_pause_on_nonforeground_platform_errors\u003dtrue\u0026html5_peak_shave\u003dtrue\u0026html5_perf_cap_override_sticky\u003dtrue\u0026html5_performance_cap_floor\u003d360\u0026html5_performance_impact_profiling_timer_ms\u003d0\u0026html5_persist_av1_perf_cap\u003dtrue\u0026html5_platform_minimum_readahead_seconds\u003d0.0\u0026html5_player_autonav_logging\u003dtrue\u0026html5_player_dynamic_bottom_gradient\u003dtrue\u0026html5_player_min_build_c\u003d1\u0026html5_populate_media_position_in_ad_break_request\u003dtrue\u0026html5_post_interrupt_readahead\u003d20\u0026html5_prefer_server_bw\u003dtrue\u0026html5_probe_live_using_range\u003dtrue\u0026html5_probe_primary_delay_base_ms\u003d0\u0026html5_process_all_encrypted_events\u003dtrue\u0026html5_qoe_user_intent_match_health\u003dtrue\u0026html5_random_playback_cap\u003d0\u0026html5_readahead_ratelimit\u003d3000\u0026html5_recognize_predict_start_cue_point\u003dtrue\u0026html5_recover_from_non_fatal_errors_in_player_bytes\u003dtrue\u0026html5_remove_not_servable_check_killswitch\u003dtrue\u0026html5_report_slow_ads_as_error\u003dtrue\u0026html5_request_only_hdr_or_sdr_keys\u003dtrue\u0026html5_request_sizing_multiplier\u003d0.8\u0026html5_reset_index_on_mismatch\u003dtrue\u0026html5_resource_bad_status_delay_scaling\u003d1.5\u0026html5_resource_no_content_delay_scaling\u003d0.25\u0026html5_restrict_streaming_xhr_on_sqlless_requests\u003dtrue\u0026html5_rewrite_manifestless_for_continuity\u003dtrue\u0026html5_safari_desktop_eme_min_version\u003d0\u0026html5_seek_jiggle_cmt_delay_ms\u003d8000\u0026html5_seek_new_elem_delay_ms\u003d12000\u0026html5_seek_over_discontinuities\u003dtrue\u0026html5_seek_over_discontinuities_delay_ms\u003d0\u0026html5_seek_set_cmt_delay_ms\u003d2000\u0026html5_seek_timeout_delay_ms\u003d20000\u0026html5_server_stitched_dai_decorated_url_retry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026music_enable shared audio tier logic\u003dtrue\u0026mweb_c3_endscreen\u003dtrue\u0026mweb_enable_custom_control_shared\u003dtrue\u0026mweb_enable_skippables_on_jio_phone\u003dtrue\u0026mweb_muted_a 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\u003dtrue\u0026web_player_offline_state_logging\u003dtrue\u0026web_player_orchestration\u003dtrue\u0026web_player_response_playback_tracking_parsing\u003dtrue\u0026web_player_seek_chapters_by_shortcut\u003dtrue\u0026web_player_seek_loop_range_after_duration\u003dtrue\u0026web_player_sentinel_is_uniplayer\u003dtrue\u0026web_player_show_music_in_this_video_graphic\u003dvideo_thumbnail\u0026web_player_ss_dai_ad_fetching_timeout_ms\u003d15000\u0026web_player_ss_media_time_offset\u003dtrue\u0026web_player_ss_timeout_skip_ads\u003dtrue\u0026web_player_ss_dai_hold_initial_qoe_ping_killswitch\u003dtrue\u0026web_player_touch_mode_improvements\u003dtrue\u0026web_player_transfer_timeout_threshold_ms\u003d1080000\u0026web_player_unavailable_subtitles_button\u003dtrue\u0026web_player_unset_default_csn_killswitch\u003dtrue\u0026web_player_vss_pageid_header\u003dtrue\u0026web_player_watch_next_response\u003dtrue\u0026web_player_watch_next_response_parsing\u003dtrue\u0026web_prefetch_preload_video\u003dtrue\u0026web_settings_menu_icons\u003dtrue\u0026web_yt_config_context\u003dtrue\u0026woffle_pause_video_download\u003dtrue\u0026www_for_videostats\u003dtrue\u0026ytidb_fetch_datasync_ids_for_data_cleanup\u003dtrue\u0026ytidb_remake_db_retries\u003d1\u0026ytidb_reopen_db_retries\u003d0\u0026ytidb_transaction_ended_event_rate_limit\u003d0.02", 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XY7Ki/a0eqvu0QrQTZ5g"><link rel="stylesheet" href="https://www.youtube.com/s/desktop/58ec298f/cssbin/www-main-desktop-player-skeleton.css" nonce="RFXy7Ki/a0eqvu0QrQTZ5g"><link rel="stylesheet" href="https://www.youtube.com/s/desktop/58ec298f/cssbin/www-onepick.css" nonce="RFXy7Ki/a0eqvu0QrQTZ5g"><style class="global_styles" nonce="RFXy7Ki/a0eqvu0QrQTZ5g">body{padding:0;margin:0;overflow-y:scroll}body.autoscroll{overflow-y:auto}body.no-scroll{overflow:hidden}body.no-y-scroll{overflow-y:hidden}.hidden{display:none}textarea{--paper-input-container-input_ _white-space:pre-wrap}.greaptcha-badge[visibility:hidden]</style><style class="masthead_shell" nonce="RFXy7Ki/a0eqvu0QrQTZ5g">ytd-masthead.shell{background:rgba(255,255,255,0.98);position:fixed;top:0;right:0;left:0;display:-ms-flex;display:-webkit-flex;display:flex;height:56px;-ms-flex-align:center;-webkit-align-items:center;align-items:center}ytd-masthead.shell #menu-icon{margin-left:16px}ytd-app>ytd-masthead.chunked{position:fixed;top:0;width:100%}ytd-masthead.shell.dark,ytd-masthead.shell.theater{background:rgba(40,40,40,0.98)}ytd-masthead.shell.full-window-mode{background:rgba(40,40,40,0.98);opacity:0;transform:translateY(calc(-100% - 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*/
'use strict';function aa(a){var b=0;return function(){return b<a.length?{done:!1,value:a[b++]}:{done:!0}}
var n="function"===typeof Object.defineProperty?Object.defineProperty:function(a,b,c){if(a===Array.p
rototype||a===Object.prototype)return a;a[b]=c.value;return a};
function ba(a){a={a:["object"===typeof globalThis&&globalThis,a,"object"===typeof window&&window,"object"
===typeof self&&self,"object"===typeof global&&global];for(var b=0;b<a.length;++b){var c=a[b];if(c&&c.
Math===Math)return c}throw Error("Cannot find global object");}
var ca=ba(this);function p(a,b){if(b)a:{var c=ca;a=a.split(".");for(var d=0;d<a.length-1;d++){var e=
a[d];if(!(e in c))break a;c=c[e]}a=a[a.length-1];d=c[a];b=b(d);b!=d&&null!=b&&n(c,a,{configurable:!0
,writable:!0,value:b})}}
p("Symbol",function(a){function b(g){if(this instanceof b)throw new TypeError("Symbol is not a const
ructor");return new c(d+(g||"")+ "_"+e++,g)}
function c(g,h){this.g=g;n(this,"description",{configurable:!0,writable:!0,value:h})}
if(a)return a;c.prototype.toString=function(){return this.g};
var d="jscomp_symbol_"+(1E9*Math.random())>>>0)+"_",e=0;return b});
function q(a){var b="undefined"!==typeof Symbol&&Symbol.iterator&&a[Symbol.iterator];return b?b.call(
a):{next:aa(a)}}
function r(a){for(var b,c=[];! (b=a.next()).done;)c.push(b.value);return c}
var da="function"===typeof Object.create?Object.create:function(a){function b(){}
b.prototype=a;return new b},t;
if("function"===typeof Object.setPrototypeOf)t=Object.setPrototypeOf;else{var u;a:{var ea={a:!0},v={};
try{v.__proto__=ea;u=v.a;break a}catch(a){}u=!1}t=u?function(a,b){a.__proto__=b;if(a.__proto__!==b)
throw new TypeError(a+" is not extensible");return a}:null}var w=t;
function x(a,b){a.prototype=da(b.prototype);a.prototype.constructor=a;if(w)w(a,b);else for(var c in
b)if("prototype"!=c)if(Object.defineProperty){var d=Object.getOwnPropertyDescriptor(b,c);d&&Object
.defineProperty(a,c,d)}else a[c]=b[c];a.o=b.prototype}
function fa(){for(var a=Number(this),b=[],c=a;c<arguments.length;c++)b[c-a]=arguments[c];return b}
function y(a,b){return Object.prototype.hasOwnProperty.call(a,b)}
p("WeakMap",function(a){function b(f){this.g=(1+Math.random()).toString();if(f){f=q(f);for(var k;
!(k=f.next()).done;)k=k.value,this.set(k[0],k[1])}}
function c(){}
function d(f){var k=typeof f;return"object"===k&&null!=f||"function"===k}
function e(f){if(!y(f,h)){var k=new c;n(f,h,{value:k})}}
function g(f){var k=Object[f];k&&(Object[f]=function(m){if(m instanceof c)return m;Object.isExtensib
le(m)&&e(m);return k(m)})}
if(function(){if(!a||!Object.seal)return!1;try{var f=Object.seal({}),k=Object.seal({}),m=new a([[f,2
],[k,3]]);if(2!=m.get(f)||3!=m.get(k))return!1;m.delete(f);m.set(k,4);return!m.has(f)&&4==m.get(k)}c
atch(Ra){return!1}}())return a;
var h="$jscomp_hidden_"+Math.random();g("freeze");g("preventExtensions");g("seal");var l=0;b.prototy
pe.set=function(f,k){if(!d(f))throw Error("Invalid WeakMap key");e(f);if(!y(f,h))throw Error("WeakMa
p key fail: "+f);f[h][this.g]=k;return this};
b.prototype.get=function(f){return d(f)&&y(f,h)?f[h][this.g]:void 0};
b.prototype.has=function(f){return d(f)&&y(f,h)&&y(f[h],this.g)};
b.prototype.delete=function(f){return d(f)&&y(f,h)&&y(f[h],this.g)?delete f[h][this.g]:!1};
return b});
var z=this||self;function A(a,b){a=a.split(".");var c=z;a[0]in c||"undefined"===typeof c.execScript||
c.execScript("var "+a[0]);for(var d;a.length&&(d=a.shift());)a.length||void 0===b?c[d]&&c[d]!==Obje
ct.prototype[d]?c=c[d]:c=c[d]={}:c[d]=b}
function ha(a){return Object.prototype.hasOwnProperty.call(a,B)&&a[B]||(a[B]=++ia)}
var B="closure_uid_"+(1E9*Math.random())>>>0,ia=0;var C={},D=null;var E="function"===typeof Uint8Arr
ay;var F="function"===typeof Symbol&&"symbol"===typeof Symbol()?Symbol(void 0):void 0;function G(a){
var b;F?b=a[F]:b=a.l;return null==b?0:b}
function H(a){Object.isFrozen(a)|| (F?a[F]:1:void 0!==(a.l?a.l:1:0).Object.defineProperties(a,{l:{value
:1,configurable:!0,writable:!0,enumerable:!1}}));return a}
;function ja(a){return null!==(a&&"object"===typeof a&&Array.isArray(a)&&a.constructor===Object}
var ka=Object.freeze(H([]));function la(a){a=a.h;if(Array.isArray(a)&&G(a)&2)throw Error("Cannot mut
ate an immutable Message");}
var I="undefined"!==typeof Symbol&&"undefined"!==typeof Symbol.hasInstance;function J(a){return{value:
a,configurable:!1,writable:!1,enumerable:!1}}
;function ma(a){if(I){var b={};Object.defineProperties(a,(b[Symbol.hasInstance]=J(Object[Symbol.hasI
nstance]),b))}
;function na(a){var b=oa;b=void 0===b?pa:b;return qa(a,b)}
function ra(a,b){if(null!=a){if(Array.isArray(a))a=qa(a,b);else if(ja(a)){var c={},d;for(d in a)c[d]
=ra(a[d],b);a=c}else a=b(a);return a}
function qa(a,b){for(var c=a.slice(),d=0;d<c.length;d++)c[d]=ra(c[d],b);Array.isArray(a)&&G(a)&1&&H(
c);return c}
function oa(a){if(a&&"object"===typeof a&&a.toJSON)return a.toJSON();a:switch(typeof a){case "number"
:a=isFinite(a)?a:String(a);break a;case "object":if(a&&!Array.isArray(a)&&E&&null!=a&&a instanceof U
int8Array){var b;"object"!==typeof a||!Array.isArray(a);void 0===b&&(b=0);if(!D){D={};for(var c="AB
CDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789".split(""),d=["+","-","_",".","-
_"],e=0;5>e;e++){var g=c.concat(d[e].split(""))};C[e]=g;for(var h=0;h<g.length;h++){var l=g[h];void 0
===
D[l]&&(D[l]=h)}}b=C[b];c=Array(Math.floor(a.length/3));d=b[64]||"";for(e=g=0;g<a.length-2;g+=3){var
f=a[g],k=a[g+1];l=a[g+2];h=b[f>>2];f=b[(f&3)<<4|k>>4];k=b[(k&15)<<2|l>>6];l=b[l&63];c[e++]=""
+h+f+k+
l}h=0;l=d;switch(a.length-g){case 2:h=a[g+1],l=b[(h&15)<<2|l>>6]|d;case 1:a=a[g],c[e++]=""
+b[a>>2]+b[(a&3)
<<4|h>>4]+l+d}a=c.join("")}return Array.isArray(a)?na(a):a}
function pa(a){return E&&null!=a&&a instanceof Uint8Array?new Uint8Array(a):a}
;function K(a,b,c){a|| (a=sa);sa=null;var d=this.constructor.i;a|| (a=d?[d]:[]);this.g=(d?0:-1)-(this.
constructor.g||0);this.m=void 0;this.h=a;a:d=this.h.length;a=d-1;if(d&&(d=this.h[a],ja(d))){this.i=
a-this.g;this.j=d;break a}void 0!==(b&&-1<b?(this.i=Math.max(b,a+1-this.g),this.j=void 0):this.i=Numb
```

```
er.MAX_VALUE}if(c)for(b=0;b<c.length;b++)if(a=c[b],a<this.i)a+=this.g,(d=this.h[a])?Array.isArray(d)&&H(d):this.h[a]=ka;else{d=this.j||(this.j=this.h[this.i+this.g]={});var e=d[a];e?Array.isArray(e)&&H(e):d[a]=ka}}
K.prototype.toJSON=function(){return na(this.h)};
K.prototype.toString=function(){return this.h.toString()};
var sa;function L(){K.apply(this,arguments)}
x(L,K);if(I){var ta={};Object.defineProperty(L,(ta[Symbol.hasInstance]=J(function(){throw Error("C
annot perform instanceof checks for MutableMessage"))}),ta)};function ua(a,b){var c=this.g,d=!0;d=v
oid 0===d?!1:d;la(a);a.m||(a.m={});var e=b?b.h:b;a.m[c]=b;b=d;b=void 0===b?!1:b;la(a);c<a.i&&!b?a.h[
c+a.g]=e:(a.j||(a.j=a.h[a.i+a.g]={}))[c]=e;return a}
;function M(){L.apply(this,arguments)}
x(M,L);if(I){var va={};Object.defineProperty(M,(va[Symbol.hasInstance]=J(Object[Symbol.hasInstance
]),va)});function N(a,b){this.width=a;this.height=b}
N.prototype.aspectRatio=function(){return this.width/this.height};
N.prototype.ceil=function(){this.width=Math.ceil(this.width);this.height=Math.ceil(this.height);retu
rn this};
N.prototype.floor=function(){this.width=Math.floor(this.width);this.height=Math.floor(this.height);r
eturn this};
N.prototype.round=function(){this.width=Math.round(this.width);this.height=Math.round(this.height);r
eturn this};function wa(){var a=document;var b="DIV";"application/xhtml+xml"===a.contentType&&(b=b.t
oLowerCase());return a.createElement(b)}
;var xa=new WeakMap;function ya(a,b){a=[a];for(var c=b.length-1;0<=c;--c)a.push(typeof b[c],b[c]);re
turn a.join("\v")}
;function za(a,b,c){if(b instanceof N)c=b.height,b=b.width;else if(void 0===c)throw Error("missing he
ight argument");a.style.width=Aa(b);a.style.height=Aa(c)}
function Aa(a){"number"===typeof a&&(a=Math.round(a)+"px");return a}
;function O(a){M.call(this,a,1)}
x(O,M);function P(a){M.call(this,a)}
x(P,M);var Ba=new function(a){this.g=a;this.i=ua}(406606992,P);function Q(){P.apply(this,arguments)}
x(Q,P);ma(Q);var R=z.window,Ca,Da,S=(null===R?void 0:null==(Ca=R.yt)?void 0:Ca.config_)||((null===R?voi
d 0:null==(Da=R.ytcfg)?void 0:Da.data_))||[],Ea,Fa=(null===R?void 0:null==(Ea=R.ytcfg)?void 0:Ea.obfus
catedData_)||[];function T(){O.apply(this,arguments)}
x(T,O);ma(T);var Ga=new T(Fa),Ha=S.EXPERIMENT_FLAGS;if(!Ha||!Ha.jspb_i18n_extension){var Ia=new Q;Ba
.i(Ga,Ia)}A("yt.config_",S);A("yt.configJspb_",Fa);function Ja(a){var b={};return a in S?S[a]:b}
;function U(a){a=Ka(a);return"string"===typeof a&&"false"===a?!1:!a}
function Ka(a){var b=Ja("EXPERIMENTS_FORCED_FLAGS");return void 0!==b[a]?b[a]:Ja("EXPERIMENT_FLAGS")
[a]}
;var V=function(a,b){function c(e){e=q(e);e.next();e=r(e);return b(d,e)}
b=void 0===b?ya:b;var d=ha(a);return function(){var e=fa.apply(0,arguments),g=this||z,h=xa.get(g);h|
|(h={},xa.set(g,h));g=h;h=[this].concat(e instanceof Array?e:r(q(e)));e=c?c(h):h;if(Object.prototype
.hasOwnProperty.call(g,e))g=g[e];else{var l=q(h);h=l.next().value;l=r(l);h=a.apply(h,l);g=g[e]=h}ret
urn g}}(function(a){var b=wa();
a&&(b.className=a);b.style.cssText="overflow:auto;position:absolute;top:0;width:100px;height:100px";
a=wa();za(a,"200px","200px");b.appendChild(a);document.body.appendChild(b);a=b.offsetWidth-b.clientW
idth;b&&b.parentNode&&b.parentNode.removeChild(b);return a});var La,Ma=Ka("kevlar_watch_flexy_metada
ta_height");La=void 0===Ma?136:Number(Ma||0);
function Na(a,b,c){c=void 0===c?!1:c;var d=void 0===d?NaN:d;var e=Math.max(a.width,474);if(U("kevlar
_watch_feed_big_thumbs")&&a.width>=1550-V())&&800<=a.height)e=!W(b)||1550<=a.width?e-432:e-382,W(b)&&
(e=V());else if(1E3<=a.width){var g=474;1140>=a.width&&W(b)?g=357:U("kevlar_watch_feed_big_thumbs")
&&(g=382);e=g;W(b)&&(e=V())}else e=48;e=Math.min(e,1280);var h=e*b;g=240;c&&(g=380);if(!(.5624>b)
){var l=1327;U("kevlar_watch_split_pane")&&(l=V());!U("kevlar_watch_flexy_disable_small_window_sizi
ng")&&
(630>a.height&&657<=a.width||630<=a.height&&1E3<=a.width&&a.width<l)?g=360:!U("kevlar_watch_flexy_di
sable_large_window_sizing")&&630<=a.height&&a.width>=l&&(g=480)}d=void 0===d?NaN:d;d=Math.min(h,a.he
ight-(80+(isNaN(d)?La:d)));d=Math.max(d,g);l>b?e=d/b:1E3<=a.width&&(e=Na(a,.5625,c).width);return ne
w N(Math.round(e),Math.round(d))}
function W(a){return U("kevlar_watch_split_pane")&&(!.5624>a)}
;var X=document.querySelector("#player.skeleton #player-api");if(X){var Oa=.5625,Y=X.querySelector("
.html5-video-player");Y&&"function"===typeof Y.getVideoAspectRatio&&(Oa=1/Y.getVideoAspectRatio());v
ar Z=window.document,Pa="CSS1Compat"===Z.compatMode?Z.documentElement:Z.body,Qa=Na(new N(Pa.clientWid
th,Pa.clientHeight),Oa);za(X,Qa)});.call(this)}
</script><script src="https://www.youtube.com/s/desktop/58ec298f/jsbin/spf.vflset/spf.js" nonce="VAF
obRlSmIvpyo4ajH7Qsg"></script><script nonce="VAFobRlSmIvpyo4ajH7Qsg">if(window["_spf_state"])window[
"_spf_state"].config={"assume-all-json-requests-chunked":true};
</script><script src="https://www.youtube.com/s/desktop/58ec298f/jsbin/network.vflset/network.js" no
nce="VAFobRlSmIvpyo4ajH7Qsg"></script><script nonce="VAFobRlSmIvpyo4ajH7Qsg">if (window.ytcsi) {wind
ow.ytcsi.tick('bs', null, '');}</script><script nonce="VAFobRlSmIvpyo4ajH7Qsg">ytcfg.set('initialBod
yClientWidth', document.body.clientWidth);</script><script nonce="VAFobRlSmIvpyo4ajH7Qsg">if (window
.ytcsi) {window.ytcsi.tick('ai', null, '');}</script><iframe name="passive_signin" src="https://acco
unts.google.com/ServiceLogin?service=youtube&uille=3&passive=true&continue=https%3A%2F%2
Fwww.youtube.com%2Fsignin%3Faction_handle_signin%3Dtrue%26app%3Ddesktop%26hl%3Dzh-TW%26next%3D%252Fsi
gnin%26feature%3Dpassive&hl=zh-TW" style="display: none"></iframe><ytd-app disable-upgr
ade="true"><ytd-masthead id="masthead" logo-type="YOUTUBE_LOGO" slot="masthead" class="shell chunke
d" disable-upgrade="true"><div id="search-container" class="ytd-searchbox-spt" slot="search-containe
r"></div><div id="search-input" class="ytd-searchbox-spt" slot="search-input"><input id="search" aut
ocapitalize="none" autocomplete="off" autocorrect="off" hidden name="search_query" tabindex="0" type
="text" spellcheck="false"></div><svg id="menu-icon" class="external-icon" preserveAspectRatio="xMid
YMid meet"><g id="menu" class="yt-icons-ext" viewBox="0 0 24 24"><path d="M21,6H3V5h18V6z M21,11H3v1
h18V11z M21,17H3v1h18V17z"/></g><div id="masthead-logo" slot="masthead-logo"><a style="display
: none;" href="/" title="YouTube"><svg id="yt-logo-updated-svg" class="external-icon" viewBox="0 0 9
0 20"><g id="yt-logo-updated" viewBox="0 0 90 20" preserveAspectRatio="xMidYMid meet"><g><path d="M2
7.9727 3.12324C27.6435 1.89323 26.6768 0.926623 25.4468 0.597366C23.2197 2.24288e-07 14.285 0 14.285
```

0C14.285 0 5.35042 2.24288e-07 3.12323 0.597366C1.89323 0.926623 0.926623 1.89323 0.597366 3.12324C2
.24288e-07 5.35042 0 10 0 10C0 10 2.24288e-07 14.6496 0.597366 16.8768C0.926623 18.1068 1.89323 19.0
734 3.12323 19.4026C5.35042 20 14.285 20 14.285 20C14.285 20 23.2197 20 25.4468 19.4026C26.6768 19.0
734 27.6435 18.1068 27.9727 16.8768C28.5701 14.6496 28.5701 10 28.5701 10C28.5701 10 28.5677 5.35042
27.9727 3.12324Z" fill="#FF0000"/><path d="M11.4253 14.2854L18.8477 10.0004L11.4253 5.71533V14.2854Z
" fill="white"/></g><g id="youtube-paths"><path d="M34.6024 13.0036L31.3945 1.41846H34.1932L35.31
74 6.6701C35.6043 7.96361 35.8136 9.06662 35.95 9.97913H36.0323C36.1264 9.32532 36.3381 8.22937 36.6
65 6.68892L37.8291 1.41846H40.6278L37.3799 13.0036V18.561H34.6001V13.0036H34.6024Z"/><path d="M41.46
97 18.1937C40.9053 17.8127 40.5031 17.22 40.2632 16.4157C40.0257 15.6114 39.9058 14.5437 39.9058 13.
2078V11.3898C39.9058 10.0422 40.0422 8.95805 40.315 8.14196C40.5878 7.32588 41.0135 6.72851 41.592 6
.35457C42.1706 5.98063 42.9302 5.79248 43.871 5.79248C44.7976 5.79248 45.5384 5.98298 46.0981 6.3639
8C46.6555 6.74497 47.0647 7.34234 47.3234 8.15137C47.5821 8.96275 47.7115 10.0422 47.7115 11.3898V13
.2078C47.7115 14.5437 47.5845 15.6161 47.3329 16.4251C47.0812 17.2365 46.672 17.8292 46.1075 18.2031
C45.5431 18.5771 44.7764 18.7652 43.8098 18.7652C42.8126 18.7675 42.0342 18.5747 41.4697 18.1937ZM44
.6353 16.2323C44.7905 15.8231 44.8705 15.1575 44.8705 14.2309V10.3292C44.8705 9.43077 44.7929 8.7722
5 44.6353 8.35833C44.4777 7.94206 44.2026 7.7351 43.8074 7.7351C43.4265 7.7351 43.156 7.94206 43.000
8 8.35833C42.8432 8.77461 42.7656 9.43077 42.7656 10.3292V14.2309C42.7656 15.1575 42.8408 15.8254 42
.9914 16.2323C43.1419 16.6415 43.4123 16.8461 43.8074 16.8461C44.2026 16.8461 44.4777 16.6415 44.635
3 16.2323Z"/><path d="M56.8154 18.5634H54.6094L54.3648 17.03H54.3037C53.7039 18.1871 52.8055 18.7656
51.6061 18.7656C50.7759 18.7656 50.1621 18.4928 49.767 17.9496C49.3719 17.4039 49.1743 16.5526 49.17
43 15.3955V6.03751H51.9942V15.2308C51.9942 15.7906 52.0553 16.188 52.1776 16.4256C52.2999 16.6631 52
.5045 16.783 52.7914 16.783C53.036 16.783 53.2712 16.7078 53.497 16.5573C53.7228 16.4067 53.8874 16.
2162 53.9979 15.9858V6.03516H56.8154V18.5634Z"/><path d="M64.4755 3.68758H61.6768V18.5629H58.9181V3.
68758H56.1194V1.42041H64.4755V3.68758Z"/><path d="M71.2768 18.5634H69.0708L68.8262 17.03H68.7651C68.
1654 18.1871 67.2671 18.7656 66.0675 18.7656C65.2373 18.7656 64.6235 18.4928 64.2284 17.9496C63.8333
17.4039 63.6357 16.5526 63.6357 15.3955V6.03751H66.4556V15.2308C66.4556 15.7906 66.5167 16.188 66.63
9 16.4256C66.7613 16.6631 66.9659 16.783 67.2529 16.783C67.4974 16.783 67.7326 16.7078 67.9584 16.55
73C68.1842 16.4067 68.3488 16.2162 68.4593 15.9858V6.03516H71.2768V18.5634Z"/><path d="M80.609 8.038
7C80.4373 7.24849 80.1621 6.67699 79.7812 6.32186C79.4002 5.96674 78.8757 5.79035 78.2078 5.79035C77
.6904 5.79035 77.2059 5.93616 76.7567 6.23014C76.3075 6.52412 75.9594 6.90747 75.7148 7.38489H75.693
7V0.785645H72.9773V18.5608H75.3056L75.5925 17.3755H75.6537C75.8724 17.7988 76.1993 18.1304 76.6344 1
8.3774C77.0695 18.622 77.554 18.7443 78.0855 18.7443C79.038 18.7443 79.7412 18.3045 80.1904 17.4272C
80.6396 16.5476 80.8653 15.1765 80.8653 13.3092V11.3266C80.8653 9.92722 80.7783 8.82892 80.609 8.038
7ZM78.0243 13.1492C78.0243 14.0617 77.9867 14.7767 77.9114 15.2941C77.8362 15.8115 77.7115 16.1808 7
7.5328 16.3971C77.3564 16.6158 77.1165 16.724 76.8178 16.724C76.585 16.724 76.371 16.6699 76.1734 16
.5594C75.9759 16.4512 75.816 16.2866 75.6937 16.0702V8.96062C75.7877 8.6196 75.9524 8.34209 76.1852
8.12337C76.4157 7.90465 76.6697 7.79646 76.9401 7.79646C77.2271 7.79646 77.4481 7.90935 77.6034 8.13
278C77.7609 8.35855 77.8691 8.73485 77.9303 9.26636C77.9914 9.79787 78.022 10.5528 78.022 11.5335V13
.1492H78.0243Z"/><path d="M84.8657 13.8712C84.8657 14.6755 84.8892 15.2776 84.9363 15.6798C84.9833 1
6.0819 85.0821 16.3736 85.2326 16.5594C85.3831 16.7428 85.6136 16.8345 85.9264 16.8345C86.3474 16.83
45 86.639 16.6699 86.7942 16.3438C86.9518 16.0161 87.0365 15.4705 87.0506 14.7085L89.4824 14.8519C89.
4965 14.9601 89.5035 15.1106 89.5035 15.3011C89.5035 16.4582 89.186 17.3237 88.5534 17.8952C87.9208
18.4667 87.0247 18.7536 85.8676 18.7536C84.4777 18.7536 83.504 18.3185 82.9466 17.446C82.3869 16.573
5 82.1094 15.2259 82.1094 13.4008V11.2136C82.1094 9.33452 82.3987 7.96105 82.9772 7.09558C83.5558 6.
2301 84.5459 5.79736 85.9499 5.79736C86.9165 5.79736 87.6597 5.97375 88.1771 6.32888C88.6945 6.684 8
9.059 7.23433 89.2707 7.98457C89.4824 8.7348 89.5882 9.76961 89.5882 11.0913V13.2362H84.8657V13.8712
ZM85.2232 7.96811C85.0797 8.14449 84.9857 8.43377 84.9363 8.83593C84.8892 9.2381 84.8657 9.4722 84.
8657 10.6657V11.5641H86.9283V10.6657C86.9283 9.86133 86.9001 9.25221 86.846 8.83593C86.7919 8.41966
86.6931 8.12803 86.5496 7.95635C86.4062 7.78702 86.1851 7.7 85.8864 7.7C85.5854 7.70235 85.3643 7.79
172 85.2232 7.96811Z"/></g></g></svg><svg
id="yt-logo-red-updated-svg" class="external-icon" viewBox="0 0 97 20" style="width: 97px;"><g id="y
t-logo-red-updated" viewBox="0 0 97 20" preserveAspectRatio="xMidYMid meet"><g><path d="M27.9704 3.1
2324C27.6411 1.89323 26.6745 0.926623 25.4445 0.597366C23.2173 2.24288e-07 14.2827 0 14.2827 0C14.28
27 0 5.34807 2.24288e-07 3.12088 0.597366C1.89323 0.926623 0.924271 1.89323 0.595014 3.12324C-2.8036
e-07 5.35042 0 10 0 10C0 10 -1.57002e-06 14.6496 0.597364 16.8768C0.926621 18.1068 1.89323 19.0734 3
.12324 19.4026C5.35042 20 14.285 20 14.285 20C14.285 20 23.2197 20 25.4468 19.4026C26.6769 19.0734 2
7.6435 18.1068 27.9727 16.8768C28.5701 14.6496 28.5701 10 28.5701 10C28.5701 10 28.5677 5.35042 27.9
704 3.12324Z" fill="#FF0000"/><path d="M11.4275 14.2854L18.8475 10.0004L11.4275 5.71533V14.2854Z" fi
ll="white"/></g><g id="youtube-red-paths"><path d="M40.0566 6.34524V7.03668C40.0566 10.4915 38.5255
12.5118 35.1742 12.5118H34.6638V18.5583H31.9263V1.42285H35.414C38.6078 1.42285 40.0566 2.7728 40.056
6 6.34524ZM37.1779 6.59218C37.1779 4.09924 36.7287 3.50658 35.1765 3.50658H34.6662V10.4727H35.1365C3
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SOUTH AFRICA - 7 分鐘 - 前往頻道 - ZULU WARRIOR SONGS AND DANCE - 觀看次數: 7萬次 - 1 年前 - 播放影片"}}}},"continuationItemRenderer":{"trigger":"CONTINUATION_TRIGGER_ON_ITEM_SHOWN","continuationEndpoint":{"clickTrackingParams":{"CDIQqTAiEwj79KX6trn2AhVORw8CHdynBOY=","commandMetadata":{"webCommandMetadata":{"sendPost":true,"apiUrl":"/youtubei/v1/next"},"continuationCommand":{"token":"CBQ5JRILMW1Uc3U4SHZDMWcyAMgBA0ABAAICDSj8BQAAYACrBAgiDwM-v7tmyj08I2ouD9cCvkfMLCP6yqMe5LY6VoAEI8JrW7oKik_eUAQilvZ3Np5DvwtoBCKXv2Iyj66GNwAEI0dfzignuv5imAQi3wqalxISAlWQI-pzCp-7L2ISOAQitm4uAs7uQ9jIihY6i_t_w6o7RAQj07NSNwe0-ipYBCIOg-r7r7darywEI35-yjIPb25rQAQj2pcihtlSrlFoHfGxiv2lp6ctCOWTq-aWpdrGKwj1nfHW-fSMw5gBCK7vqs2z0uWwggEI36WdtFhtqNTtARpoCgs3YWLqYnNhZzB00BpZCgs3YWLqYnNhZzB00BTBMBolCLZgwwofEJih4WYiBgioeCOBIECD8QATIA0g8KAwjFBAoDCLGjCGMiIApCBwoDCMwBEAFKBwoDCM0BEAFSBwoDCMwBEAEgAWoPd2F0Y2gtbmV4dC1mZWVk"},"request":{"CONTINUATION_REQUEST_TYPE_WATCH_NEXT"},"button":{"buttonRenderer":{"style":"STYLE_SUGGESTIVE","size":"SIZE_DEFAULT","isDisabled":false,"text":{"runs":[{"text":"顯示完整資訊"}]},"trackingParams":{"CDMQ8FsiEwj79KX6trn2AhVORw8CHdynBOY=","command":{"clickTrackingParams":{"CDMQ8FsiEwj79KX6trn2AhVORw8CHdynBOY=","commandMetadata":{"webCommandMetadata":{"sendPost":true,"apiUrl":"/youtubei/v1/next"},"continuationCommand":{"token":"CBQ5JRILMW1Uc3U4SHZDMWcyAMgBA0ABAAICDSj8BQAAYACrBAgiDwM-v7tmyj08I2ouD9cCvkfMLCP6yqMe5LY6VoAEI8JrW7oKik_eUAQilvZ3Np5DvwtoBCKXv2Iyj66GNwAEI0dfzignuv5imAQi3wqalxISAlWQI-pzCp-7L2ISOAQitm4uAs7uQ9jIihY6i_t_w6o7RAQj07NSNwe0-ipYBCIOg-r7r7darywEI35-yjIPb25rQAQj2pcihtlSrlFoHfGxiv2lp6ctCOWTq-aWpdrGKwj1nfHW-fSMw5gBCK7vqs2z0uWwggEI36WdtFhtqNTtARpoCgs3YWLqYnNhZzB00BpZCgs3YWLqYnNhZzB00BTBMBolCLZgwwofEJih4WYiBgioeCOBIECD8QATIA0g8KAwjFBAoDCLGjCGMiIApCBwoDCMwBEAFKBwoDCM0BEAFSBwoDCMwBEAEgAWoPd2F0Y2gtbmV4dC1mZWVk"},"request":{"CONTINUATION_REQUEST_TYPE_WATCH_NEXT"},"trackingParams":{"CDIQqTAiEwj79KX6trn2AhVORw8CHdynBOY=","targetId":"watch-next-feed"},"autoplay":{"autoplay":{"sets":[{"mode":"NORMAL","autoplayVideo":{"clickTrackingParams":{"CDEQ4ZIBIhMI-Sl-ra59gIVTkcPAh3cpwTmMqxyZWxhdGVkLWF1dG9I2Ja8j7yXu7LWAZoBBQgDEPgd"},"commandMetadata":{"webCommandMetadata":{"url":"/watch?v=Tx7KzuXz4AM\u0026pp=QAFIAQ%3D%3D"},"webPageType":"WEB_PAGE_TYPE_WATCH","rootVe":3832},"watchEndpoint":{"videoId":"Tx7KzuXz4AM"},"params":{"EAEYAdoBAGgB"},"playerParams":{"QAFIAQ%3D%3D"},"watchEndpointSupportedPrefetchConfig":{"prefetchHintConfig":{"prefetchPriority":0,"countdownUntilRelativeSecondsPrefetchCondition":-3}}}}},"countDownSecs":5,"trackingParams":{"CDEQ4ZIBIhMI-Sl-ra59gIVTkcPAh3cpwTm}}},"currentVideoEndpoint":{"clickTrackingParams":{"CAAQg2ciEwj79KX6trn2AhVORw8CHdynBOY=","commandMetadata":{"webCommandMetadata":{"url":"/watch?v=1mTsu8HvC1g"},"webPageType":"WEB_PAGE_TYPE_WATCH","rootVe":3832},"watchEndpoint":{"videoId":"1mTsu8HvC1g"},"watchEndpointSupportedOnesieConfig":{"html5PlaybackOnesieConfig":{"commonConfig":{"url":"https://rr5---sn-un57sn7s.googlevideo.com/initplayback?source=youtube\u0026or=1\u0026oeis=1\u0026c=WEB\u0026oad=3200\u0026ovd=3200\u0026oaid=11000\u0026oavd=11000\u0026ocs=700\u0026oewis=1\u0026oputc=1\u0026ofpcc=1\u0026msp=1\u0026odeak=1\u0026odepv=1\u0026osfc=1\u0026id=d664ecbbcf1ef0b58\u0026ip=35.229.160.149\u0026mt=1646842131\u0026oweuc="}}}}},"trackingParams":{"CAAQg2ciEwj79KX6trn2AhVORw8CHdynBOY=","playerOverlays":{"playerOverlayRenderer":{"endScreen":{"watchNextEndScreenRenderer":{"results":{"endScreenVideoId":"Tx7KzuXz4AM"},"thumbnail":{"thumbnails":[{"url":"https://i.ytimg.com/vi/Tx7KzuXz4AM/hqdefault.jpg?sqp=sq=0aymEiCKgBEF5IwVvKriqKDFQgBFQAAAAAYASUAMhCPQCAokN4AQ==\u0026rs=A0n4CLD2Ke6e6yfo61m5dje4sQKF7A-Miw"},"width":168,"height":94},"url":"https://i.ytimg.com/vi/Tx7KzuXz4AM/hqdefault.jpg?sqp=sq=0aymEiCMQBEG5IwVvKriqKDFQgBFQAAAAAYASUAMhCPQCAokN4AQ==\u0026rs=A0n4CLD8Y0-l2Jr1HYjJJDV-HrwIKkIndg"},"width":196,"height":110},"url":"https://i.ytimg.com/vi/Tx7KzuXz4AM/hqdefault.jpg?sqp=sq=0aymEjCPYBEIoBSFryq4qpAxUIARUAAAAAGAEIADIQj0AgKJDeAE=\u0026rs=A0n4CLAK_EpyBeTnxRtI5otbDTkQ6FT1Q"},"width":246,"height":138},"url":"https://i.ytimg.com/vi/Tx7KzuXz4AM/hqdefault.jpg?sqp=sq=0aymEjCNACELwBSFryq4qpAxUIARUAAAAAGAEIADIQj0AgKJDeAE=\u0026rs=A0n4CLApxcLgmnSoyDa29er0ds7cmCNOA"},"width":336,"height":188}}},"title":{"accessibility":{"accessibilityData":{"label":"Zulu - 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```
*/
var a=window;(function(e){var c=window;c.getInitialCommand=function(){return e};c.loadInitialCommand&&c.loadInitialCommand(c.getInitialCommand())})(a.ytCommand);
(function(e,c,l,f,g,h,k){var d=window;d.getInitialData=function(){var b=window;b.ytcsi&&b.ytcsi.tick('pr',null,'');b={page:e,endpoint:c,response:l};f&&(b.playerResponse=f);g&&(b.reelWatchSequenceResponse=g);k&&(b.url=k);h&&(b.previousCsn=h);return b};d.loadInitialData&&d.loadInitialData(d.getInitialData())})(a.ytPageType,a.ytCommand,a.ytInitialData,a.ytInitialPlayerResponse,a.ytInitialReelWatchSequenceResponse,a.ytPreviousCsn,a.ytUrl);
})();</script><script nonce="VafobRlSmIvpyo4ajH7Qsg">ytcfg.set({"CSI_SERVICE_NAME": 'youtube', "TIMING_INF0": {"GetPlayer_rid": '0x5b2292ae5a914f2a',"yt_ad": '1',"GetWatchNext_rid": '0x5b2292ae5a914f2a',}})</script><script nonce="VafobRlSmIvpyo4ajH7Qsg">if (window.ytcsi) {window.ytcsi.info('st', 253.0 , '');}</script></body></html>curl: (3) <url> malformed
```

Set up training

In [31]:

```
%cd /content/music_gen_interaction_RTML/

from unittest.mock import Mock, MagicMock
args = MagicMock(name='method')
sample_rate = 44100

# This will set the same setting for the training and the running of the model:
args.lstm_layers = 3
args.lstm_units = 128
args.sample_rate = sample_rate
args.sequence_length = 40
args.async_loading = True
args.amount_epochs = -1
```

/content/music_gen_interaction_RTML

Pick a new song from Youtube

Insert your own url below and train

In [8]:

```
youtube_url = "https://www.youtube.com/watch?v=1mTsu8HvC1g"
youtube-dl -ci -f "/content/Zulu Tribal Dance in South Africa-HxhhF_nHxIs.m4a" $youtube_url -o '/content/Zulu Tribal Dance in South Africa-HxhhF_nHxIs.m4a'
ffmpeg -i '/content/Zulu Tribal Dance in South Africa-HxhhF_nHxIs.m4a' -ac 2 -f wav full.wav
```

```
/usr/local/bin/youtube-dl: line 1: syntax error near unexpected token `<'
/usr/local/bin/youtube-dl: line 1: `<!DOCTYPE html><html style="font-size: 10px;font-family: Roboto, Arial, sans-serif;" lang="zh-Hant-TW" system-icons typography typography-spacing><head><meta http-equiv="X-UA-Compatible" content="IE=edge"/><script nonce="FBS0R9zwF2yEfJI1Dxo0dA">var ytcfg={d:function n(){return window.yt&&yt.config_|ytcfg.data_|(ytcfg.data_={})},get:function(k,o){return k in ytcfg.d()?ytcfg.d()[k]:o},set:function(){var a=arguments;if(a.length>1)ytcfg.d()[a[0]]=a[1];else for(var k in a[0])ytcfg.d()[k]=a[0][k]}};'
/bin/bash: -o: command not found
ffmpeg version 3.4.8-Ubuntu0.2 Copyright (c) 2000-2020 the FFmpeg developers
  built with gcc 7 (Ubuntu 7.5.0-3ubuntu1~18.04)
  configuration: --prefix=/usr --extra-version=0ubuntu0.2 --toolchain=hardened --libdir=/usr/lib/x86_64-linux-gnu --incdir=/usr/include/x86_64-linux-gnu --enable-gpl --disable-stripping --enable-avresample --enable-avisynth --enable-gnutls --enable-ladspa --enable-libass --enable-libbluray --enable-libbs2b --enable-libcaca --enable-libcdio --enable-libflite --enable-libfontconfig --enable-libfreetype --enable-libfribidi --enable-libgme --enable-libgsm --enable-libmp3lame --enable-libmysofa --enable-libopenjpeg --enable-libopenmpt --enable-libopus --enable-libpulse --enable-librubberband --enable-librsvg --enable-libshine --enable-libsnappy --enable-libsoxr --enable-lspspeex --enable-libssh --enable-libtheora --enable-libtwolame --enable-libvorbis --enable-libvpx --enable-libwavpack --enable-libwebp --enable-libx265 --enable-libxml2 --enable-libxvid --enable-libzmq --enable-libzvbi --enable-omx --enable-openal --enable-opengl --enable-sdl2 --enable-libdc1394 --enable-libdrm --enable-libiec61883 --enable-chromaprint --enable-frei0r --enable-libopencv --enable-libx264 --enable-shared
  libavutil      55. 78.100 / 55. 78.100
  libavcodec     57.107.100 / 57.107.100
  libavformat    57. 83.100 / 57. 83.100
  libavdevice    57. 10.100 / 57. 10.100
  libavfilter     6.107.100 /  6.107.100
  libavresample   3.  7.  0 /  3.  7.  0
  libswscale     4.  8.100 /  4.  8.100
  libswresample   2.  9.100 /  2.  9.100
  libpostproc    54.  7.100 / 54.  7.100
Input #00, mov,mp4,m4a,3gp,3g2,mj2, from '/content/Zulu Tribal Dance in South Africa-HxhhF_nHxIs.m4a':
  Metadata:
    major_brand      : isom
    minor_version    : 512
    compatible_brands: isomiso2mp41
    encoder          : Lavf57.83.100
Duration: 00:12:50.53, start: 0.000000, bitrate: 126 kb/s
  Stream #0:0(eng): Audio: aac (LC) (mp4a / 0x6134706D), 44100 Hz, stereo, fltp, 125 kb/s (default)
  Metadata:
    handler_name     : SoundHandler
Stream mapping:
  Stream #0:0 -> #0:0 (aac (native) -> pcm_s16le (native))
Press [q] to stop, [?] for help
Output #0, wav, to 'full.wav':
  Metadata:
    major_brand      : isom
    minor_version    : 512
    compatible_brands: isomiso2mp41
    ISFT             : Lavf57.83.100
  Stream #0:0(eng): Audio: pcm_s16le ([1][0][0][0] / 0x0001), 44100 Hz, stereo, s16, 1411 kb/s (default)
  Metadata:
    handler_name     : SoundHandler
    encoder          : Lavc57.107.100 pcm_s16le
size= 132736kB time=00:12:50.53 bitrate=1411.2kbits/s speed= 648x
video:0kB audio:132736kB subtitle:0kB other streams:0kB global headers:0kB muxing overhead: 0.000057%
```

In [9]:

```
# Audio file preparation - this cuts a 1 minute sample from the audio file:
```

```
ffmpeg -y -ss 60 -i full.wav -t 60 -c copy sample.wav
```

```
ffmpeg version 3.4.8-0ubuntu0.2 Copyright (c) 2000-2020 the FFmpeg developers
  built with gcc 7 (Ubuntu 7.5.0-3ubuntu1~18.04)
  configuration: --prefix=/usr --extra-version=0ubuntu0.2 --toolchain=hardened --libdir=/usr/lib/x86_64-linux-gnu --incdir=/usr/include/x86_64-linux-gnu --enable-gpl --disable-stripping --enable-avresample --enable-avisynth --enable-gnutls --enable-ladspa --enable-libass --enable-libbluray --enable-libbs2b --enable-libcaca --enable-libcdio --enable-libflite --enable-libfontconfig --enable-libfreetype --enable-libfribidi --enable-libgme --enable-libgsm --enable-libmp3lame --enable-libmysofa --enable-libopenjpeg --enable-libopenmpt --enable-libopus --enable-libpulse --enable-librubberband --enable-librsvg --enable-libshine --enable-lbsnappy --enable-libsoxr --enable-lbspeex --enable-libssh --enable-libtheora --enable-libtwolame --enable-libvorbis --enable-libvpx --enable-libwavpack --enable-libwebp --enable-libx265 --enable-libxml2 --enable-libxvid --enable-libzmq --enable-libzvbi --enable-omx --enable-opengl --enable-sdl2 --enable-libdc1394 --enable-libdrm --enable-libiec61883 --enable-chromaprint --enable-frei0r --enable-libopencv --enable-libx264 --enable-shared
    libavutil      55. 78.100 / 55. 78.100
    libavcodec     57.107.100 / 57.107.100
    libavformat    57. 83.100 / 57. 83.100
    libavdevice    57. 10.100 / 57. 10.100
    libavfilter     6.107.100 / 6.107.100
    libavresample   3.  7.  0 / 3.  7.  0
    libswscale     4.  8.100 / 4.  8.100
    libswresample   2.  9.100 / 2.  9.100
    libpostproc    54.  7.100 / 54.  7.100
Guessed Channel Layout for Input Stream #0.0 : stereo
Input #0, wav, from 'full.wav':
  Metadata:
    encoder      : Lavf57.83.100
  Duration: 00:12:50.53, bitrate: 1411 kb/s
    Stream #0:0: Audio: pcm_s16le ([1][0][0][0] / 0x0001), 44100 Hz, stereo, s16, 1411 kb/s
Output #0, wav, to 'sample.wav':
  Metadata:
    ISFT        : Lavf57.83.100
    Stream #0:0: Audio: pcm_s16le ([1][0][0][0] / 0x0001), 44100 Hz, stereo, s16, 1411 kb/s
Stream mapping:
  Stream #0:0 -> #0:0 (copy)
Press [q] to stop, [?] for help
size= 10336kB time=00:00:59.97 bitrate=1411.8kbits/s speed=2.79e+03x
video:0kB audio:10336kB subtitle:0kB other streams:0kB global headers:0kB muxing overhead: 0.000737%
```

You will probably need to train for 300 epochs

In [11]:

```
number_of_epochs = 300 # will take cca 4min
number_of_epochs = 400 # will take cca 8min
```

```
song_name = "sample.wav" # < we will train the model on this wav file
model_name = "my_trained_model" # < and then save the model under this name (check the .tfl files in the folder afterwards)
```

Train Model

In [12]:

```
# ----[keep the same below]-----
# takes time!
python training_handler.py -target_file $song_name -model_name $model_name -amount_epochs $number_of_epochs -batch_size 512 \
                           -lstm_layers $args.lstm_layers -lstm_units $args.lstm_units -sample_rate $args.sample_rate -sequence_length $args.sequence_length
from IPython.display import clear_output
clear_output()

import glob
import numpy as np
i = glob.glob("*.tfl.png")
from IPython.display import Audio, Image
display(Image(i[0]))
```

Streaming output truncated to the last 5000 lines.

```
Training Step: 2016 | total loss: 3.38396 | time: 0.788s
| Adam | epoch: 184 | loss: 3.38396 - acc: 0.2361 -- iter: 1536/5208
Training Step: 2017 | total loss: 3.35440 | time: 1.092s
| Adam | epoch: 184 | loss: 3.35440 - acc: 0.2341 -- iter: 2048/5208
Training Step: 2018 | total loss: 3.31512 | time: 1.398s
| Adam | epoch: 184 | loss: 3.31512 - acc: 0.2331 -- iter: 2560/5208
Training Step: 2019 | total loss: 3.36048 | time: 1.686s
| Adam | epoch: 184 | loss: 3.36048 - acc: 0.2325 -- iter: 3072/5208
Training Step: 2020 | total loss: 3.40414 | time: 1.974s
| Adam | epoch: 184 | loss: 3.40414 - acc: 0.2329 -- iter: 3584/5208
Training Step: 2021 | total loss: 3.39238 | time: 2.266s
| Adam | epoch: 184 | loss: 3.39238 - acc: 0.2352 -- iter: 4096/5208
Training Step: 2022 | total loss: 3.37674 | time: 2.547s
| Adam | epoch: 184 | loss: 3.37674 - acc: 0.2382 -- iter: 4608/5208
Training Step: 2023 | total loss: 3.42116 | time: 2.830s
| Adam | epoch: 184 | loss: 3.42116 - acc: 0.2394 -- iter: 5120/5208
Training Step: 2024 | total loss: 3.41490 | time: 3.126s
| Adam | epoch: 184 | loss: 3.41490 - acc: 0.2385 -- iter: 5208/5208
--
Training Step: 2025 | total loss: 3.43501 | time: 0.278s
| Adam | epoch: 185 | loss: 3.43501 - acc: 0.2395 -- iter: 0512/5208
Training Step: 2026 | total loss: 3.43806 | time: 0.561s
| Adam | epoch: 185 | loss: 3.43806 - acc: 0.2374 -- iter: 1024/5208
Training Step: 2027 | total loss: 3.39094 | time: 0.779s
| Adam | epoch: 185 | loss: 3.39094 - acc: 0.2400 -- iter: 1536/5208
Training Step: 2028 | total loss: 3.49150 | time: 1.019s
| Adam | epoch: 185 | loss: 3.49150 - acc: 0.2376 -- iter: 2048/5208
Training Step: 2029 | total loss: 3.54895 | time: 1.317s
| Adam | epoch: 185 | loss: 3.54895 - acc: 0.2411 -- iter: 2560/5208
Training Step: 2030 | total loss: 3.47716 | time: 1.589s
| Adam | epoch: 185 | loss: 3.47716 - acc: 0.2440 -- iter: 3072/5208
Training Step: 2031 | total loss: 3.53422 | time: 1.856s
| Adam | epoch: 185 | loss: 3.53422 - acc: 0.2477 -- iter: 3584/5208
Training Step: 2032 | total loss: 3.81320 | time: 2.144s
| Adam | epoch: 185 | loss: 3.81320 - acc: 0.2442 -- iter: 4096/5208
Training Step: 2033 | total loss: 3.80135 | time: 2.444s
| Adam | epoch: 185 | loss: 3.80135 - acc: 0.2424 -- iter: 4608/5208
Training Step: 2034 | total loss: 3.80498 | time: 2.735s
| Adam | epoch: 185 | loss: 3.80498 - acc: 0.2407 -- iter: 5120/5208
Training Step: 2035 | total loss: 3.73824 | time: 3.010s
| Adam | epoch: 185 | loss: 3.73824 - acc: 0.2424 -- iter: 5208/5208
--
Training Step: 2036 | total loss: 3.68342 | time: 0.294s
| Adam | epoch: 186 | loss: 3.68342 - acc: 0.2424 -- iter: 0512/5208
Training Step: 2037 | total loss: 3.68931 | time: 0.594s
| Adam | epoch: 186 | loss: 3.68931 - acc: 0.2437 -- iter: 1024/5208
Training Step: 2038 | total loss: 3.68355 | time: 0.878s
| Adam | epoch: 186 | loss: 3.68355 - acc: 0.2449 -- iter: 1536/5208
Training Step: 2039 | total loss: 3.62408 | time: 1.092s
| Adam | epoch: 186 | loss: 3.62408 - acc: 0.2460 -- iter: 2048/5208
Training Step: 2040 | total loss: 3.51190 | time: 1.348s
| Adam | epoch: 186 | loss: 3.51190 - acc: 0.2396 -- iter: 2560/5208
Training Step: 2041 | total loss: 3.40568 | time: 1.615s
| Adam | epoch: 186 | loss: 3.40568 - acc: 0.2395 -- iter: 3072/5208
Training Step: 2042 | total loss: 3.44014 | time: 1.894s
| Adam | epoch: 186 | loss: 3.44014 - acc: 0.2396 -- iter: 3584/5208
Training Step: 2043 | total loss: 3.40225 | time: 2.148s
| Adam | epoch: 186 | loss: 3.40225 - acc: 0.2389 -- iter: 4096/5208
Training Step: 2044 | total loss: 3.58241 | time: 2.436s
| Adam | epoch: 186 | loss: 3.58241 - acc: 0.2400 -- iter: 4608/5208
Training Step: 2045 | total loss: 3.53176 | time: 2.761s
| Adam | epoch: 186 | loss: 3.53176 - acc: 0.2431 -- iter: 5120/5208
Training Step: 2046 | total loss: 3.52659 | time: 3.041s
| Adam | epoch: 186 | loss: 3.52659 - acc: 0.2448 -- iter: 5208/5208
--
Training Step: 2047 | total loss: 3.47926 | time: 0.339s
| Adam | epoch: 187 | loss: 3.47926 - acc: 0.2416 -- iter: 0512/5208
Training Step: 2048 | total loss: 3.47396 | time: 0.605s
| Adam | epoch: 187 | loss: 3.47396 - acc: 0.2415 -- iter: 1024/5208
Training Step: 2049 | total loss: 3.47327 | time: 0.884s
| Adam | epoch: 187 | loss: 3.47327 - acc: 0.2408 -- iter: 1536/5208
Training Step: 2050 | total loss: 3.50030 | time: 1.181s
| Adam | epoch: 187 | loss: 3.50030 - acc: 0.2425 -- iter: 2048/5208
Training Step: 2051 | total loss: 3.47485 | time: 1.445s
| Adam | epoch: 187 | loss: 3.47485 - acc: 0.2413 -- iter: 2560/5208
Training Step: 2052 | total loss: 3.42090 | time: 1.675s
| Adam | epoch: 187 | loss: 3.42090 - acc: 0.2444 -- iter: 3072/5208
Training Step: 2053 | total loss: 3.37046 | time: 1.986s
| Adam | epoch: 187 | loss: 3.37046 - acc: 0.2472 -- iter: 3584/5208
Training Step: 2054 | total loss: 3.40863 | time: 2.255s
| Adam | epoch: 187 | loss: 3.40863 - acc: 0.2463 -- iter: 4096/5208
Training Step: 2055 | total loss: 3.46348 | time: 2.548s
| Adam | epoch: 187 | loss: 3.46348 - acc: 0.2426 -- iter: 4608/5208
```



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Training Step: 2056 | total loss: 3.76826 | time: 2.831s
| Adam | epoch: 187 | loss: 3.76826 - acc: 0.2387 -- iter: 5120/5208
Training Step: 2057 | total loss: 3.70593 | time: 3.106s
| Adam | epoch: 187 | loss: 3.70593 - acc: 0.2376 -- iter: 5208/5208
--
Training Step: 2058 | total loss: 3.69577 | time: 0.302s
| Adam | epoch: 188 | loss: 3.69577 - acc: 0.2342 -- iter: 0512/5208
Training Step: 2059 | total loss: 3.71920 | time: 0.579s
| Adam | epoch: 188 | loss: 3.71920 - acc: 0.2313 -- iter: 1024/5208
Training Step: 2060 | total loss: 3.68203 | time: 0.871s
| Adam | epoch: 188 | loss: 3.68203 - acc: 0.2330 -- iter: 1536/5208
Training Step: 2061 | total loss: 3.61208 | time: 1.171s
| Adam | epoch: 188 | loss: 3.61208 - acc: 0.2349 -- iter: 2048/5208
Training Step: 2062 | total loss: 3.54878 | time: 1.476s
| Adam | epoch: 188 | loss: 3.54878 - acc: 0.2381 -- iter: 2560/5208
Training Step: 2063 | total loss: 3.52169 | time: 1.707s
| Adam | epoch: 188 | loss: 3.52169 - acc: 0.2422 -- iter: 3072/5208
Training Step: 2064 | total loss: 3.45156 | time: 1.948s
| Adam | epoch: 188 | loss: 3.45156 - acc: 0.2407 -- iter: 3584/5208
Training Step: 2065 | total loss: 3.39628 | time: 2.233s
| Adam | epoch: 188 | loss: 3.39628 - acc: 0.2303 -- iter: 4096/5208
Training Step: 2066 | total loss: 3.48978 | time: 2.515s
| Adam | epoch: 188 | loss: 3.48978 - acc: 0.2319 -- iter: 4608/5208
Training Step: 2067 | total loss: 3.48385 | time: 2.796s
| Adam | epoch: 188 | loss: 3.48385 - acc: 0.2337 -- iter: 5120/5208
Training Step: 2068 | total loss: 3.75078 | time: 3.109s
| Adam | epoch: 188 | loss: 3.75078 - acc: 0.2342 -- iter: 5208/5208
--
Training Step: 2069 | total loss: 3.70210 | time: 0.319s
| Adam | epoch: 189 | loss: 3.70210 - acc: 0.2361 -- iter: 0512/5208
Training Step: 2070 | total loss: 3.70539 | time: 0.642s
| Adam | epoch: 189 | loss: 3.70539 - acc: 0.2367 -- iter: 1024/5208
Training Step: 2071 | total loss: 3.61589 | time: 0.909s
| Adam | epoch: 189 | loss: 3.61589 - acc: 0.2369 -- iter: 1536/5208
Training Step: 2072 | total loss: 3.62660 | time: 1.236s
| Adam | epoch: 189 | loss: 3.62660 - acc: 0.2368 -- iter: 2048/5208
Training Step: 2073 | total loss: 3.58620 | time: 1.544s
| Adam | epoch: 189 | loss: 3.58620 - acc: 0.2337 -- iter: 2560/5208
Training Step: 2074 | total loss: 3.59702 | time: 1.840s
| Adam | epoch: 189 | loss: 3.59702 - acc: 0.2337 -- iter: 3072/5208
Training Step: 2075 | total loss: 3.61997 | time: 2.053s
| Adam | epoch: 189 | loss: 3.61997 - acc: 0.2363 -- iter: 3584/5208
Training Step: 2076 | total loss: 3.57445 | time: 2.310s
| Adam | epoch: 189 | loss: 3.57445 - acc: 0.2457 -- iter: 4096/5208
Training Step: 2077 | total loss: 3.52051 | time: 2.578s
| Adam | epoch: 189 | loss: 3.52051 - acc: 0.2586 -- iter: 4608/5208
Training Step: 2078 | total loss: 3.47327 | time: 2.830s
| Adam | epoch: 189 | loss: 3.47327 - acc: 0.2595 -- iter: 5120/5208
Training Step: 2079 | total loss: 3.48820 | time: 3.136s
| Adam | epoch: 189 | loss: 3.48820 - acc: 0.2570 -- iter: 5208/5208
--
Training Step: 2080 | total loss: 3.54320 | time: 0.309s
| Adam | epoch: 190 | loss: 3.54320 - acc: 0.2549 -- iter: 0512/5208
Training Step: 2081 | total loss: 3.54914 | time: 0.581s
| Adam | epoch: 190 | loss: 3.54914 - acc: 0.2544 -- iter: 1024/5208
Training Step: 2082 | total loss: 3.52372 | time: 0.872s
| Adam | epoch: 190 | loss: 3.52372 - acc: 0.2538 -- iter: 1536/5208
Training Step: 2083 | total loss: 3.47091 | time: 1.172s
| Adam | epoch: 190 | loss: 3.47091 - acc: 0.2556 -- iter: 2048/5208
Training Step: 2084 | total loss: 3.48711 | time: 1.484s
| Adam | epoch: 190 | loss: 3.48711 - acc: 0.2546 -- iter: 2560/5208
Training Step: 2085 | total loss: 3.52075 | time: 1.764s
| Adam | epoch: 190 | loss: 3.52075 - acc: 0.2545 -- iter: 3072/5208
Training Step: 2086 | total loss: 3.45394 | time: 2.074s
| Adam | epoch: 190 | loss: 3.45394 - acc: 0.2570 -- iter: 3584/5208
Training Step: 2087 | total loss: 3.44152 | time: 2.344s
| Adam | epoch: 190 | loss: 3.44152 - acc: 0.2569 -- iter: 4096/5208
Training Step: 2088 | total loss: 3.43086 | time: 2.593s
| Adam | epoch: 190 | loss: 3.43086 - acc: 0.2585 -- iter: 4608/5208
Training Step: 2089 | total loss: 3.40767 | time: 2.940s
| Adam | epoch: 190 | loss: 3.40767 - acc: 0.2565 -- iter: 5120/5208
Training Step: 2090 | total loss: 3.40136 | time: 3.197s
| Adam | epoch: 190 | loss: 3.40136 - acc: 0.2557 -- iter: 5208/5208
--
Training Step: 2091 | total loss: 3.36293 | time: 0.304s
| Adam | epoch: 191 | loss: 3.36293 - acc: 0.2580 -- iter: 0512/5208
Training Step: 2092 | total loss: 3.45382 | time: 0.593s
| Adam | epoch: 191 | loss: 3.45382 - acc: 0.2568 -- iter: 1024/5208
Training Step: 2093 | total loss: 3.44560 | time: 0.892s
| Adam | epoch: 191 | loss: 3.44560 - acc: 0.2524 -- iter: 1536/5208
Training Step: 2094 | total loss: 3.49373 | time: 1.209s
| Adam | epoch: 191 | loss: 3.49373 - acc: 0.2487 -- iter: 2048/5208
Training Step: 2095 | total loss: 3.47832 | time: 1.497s
```



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| Adam | epoch: 191 | loss: 3.47832 - acc: 0.2541 -- iter: 2560/5208
Training Step: 2096 | total loss: 3.50903 | time: 1.791s
| Adam | epoch: 191 | loss: 3.50903 - acc: 0.2568 -- iter: 3072/5208
Training Step: 2097 | total loss: 3.48345 | time: 2.061s
| Adam | epoch: 191 | loss: 3.48345 - acc: 0.2565 -- iter: 3584/5208
Training Step: 2098 | total loss: 3.48005 | time: 2.356s
| Adam | epoch: 191 | loss: 3.48005 - acc: 0.2545 -- iter: 4096/5208
Training Step: 2099 | total loss: 3.42188 | time: 2.600s
| Adam | epoch: 191 | loss: 3.42188 - acc: 0.2570 -- iter: 4608/5208
Training Step: 2100 | total loss: 3.44715 | time: 2.808s
| Adam | epoch: 191 | loss: 3.44715 - acc: 0.2551 -- iter: 5120/5208
Training Step: 2101 | total loss: 3.46905 | time: 3.109s
| Adam | epoch: 191 | loss: 3.46905 - acc: 0.2546 -- iter: 5208/5208
--
Training Step: 2102 | total loss: 3.41239 | time: 0.278s
| Adam | epoch: 192 | loss: 3.41239 - acc: 0.2547 -- iter: 0512/5208
Training Step: 2103 | total loss: 3.40376 | time: 0.564s
| Adam | epoch: 192 | loss: 3.40376 - acc: 0.2535 -- iter: 1024/5208
Training Step: 2104 | total loss: 3.87044 | time: 0.852s
| Adam | epoch: 192 | loss: 3.87044 - acc: 0.2522 -- iter: 1536/5208
Training Step: 2105 | total loss: 3.80849 | time: 1.176s
| Adam | epoch: 192 | loss: 3.80849 - acc: 0.2525 -- iter: 2048/5208
Training Step: 2106 | total loss: 3.71821 | time: 1.453s
| Adam | epoch: 192 | loss: 3.71821 - acc: 0.2517 -- iter: 2560/5208
Training Step: 2107 | total loss: 3.67898 | time: 1.786s
| Adam | epoch: 192 | loss: 3.67898 - acc: 0.2486 -- iter: 3072/5208
Training Step: 2108 | total loss: 3.60850 | time: 2.057s
| Adam | epoch: 192 | loss: 3.60850 - acc: 0.2476 -- iter: 3584/5208
Training Step: 2109 | total loss: 3.59102 | time: 2.355s
| Adam | epoch: 192 | loss: 3.59102 - acc: 0.2478 -- iter: 4096/5208
Training Step: 2110 | total loss: 3.63972 | time: 2.652s
| Adam | epoch: 192 | loss: 3.63972 - acc: 0.2453 -- iter: 4608/5208
Training Step: 2111 | total loss: 3.63009 | time: 2.874s
| Adam | epoch: 192 | loss: 3.63009 - acc: 0.2487 -- iter: 5120/5208
Training Step: 2112 | total loss: 3.51729 | time: 3.118s
| Adam | epoch: 192 | loss: 3.51729 - acc: 0.2477 -- iter: 5208/5208
--
Training Step: 2113 | total loss: 3.39651 | time: 0.286s
| Adam | epoch: 193 | loss: 3.39651 - acc: 0.2502 -- iter: 0512/5208
Training Step: 2114 | total loss: 3.36304 | time: 0.537s
| Adam | epoch: 193 | loss: 3.36304 - acc: 0.2492 -- iter: 1024/5208
Training Step: 2115 | total loss: 3.42931 | time: 0.832s
| Adam | epoch: 193 | loss: 3.42931 - acc: 0.2499 -- iter: 1536/5208
Training Step: 2116 | total loss: 3.63778 | time: 1.110s
| Adam | epoch: 193 | loss: 3.63778 - acc: 0.2479 -- iter: 2048/5208
Training Step: 2117 | total loss: 3.62146 | time: 1.428s
| Adam | epoch: 193 | loss: 3.62146 - acc: 0.2532 -- iter: 2560/5208
Training Step: 2118 | total loss: 3.59727 | time: 1.702s
| Adam | epoch: 193 | loss: 3.59727 - acc: 0.2525 -- iter: 3072/5208
Training Step: 2119 | total loss: 3.62241 | time: 2.002s
| Adam | epoch: 193 | loss: 3.62241 - acc: 0.2534 -- iter: 3584/5208
Training Step: 2120 | total loss: 3.56847 | time: 2.304s
| Adam | epoch: 193 | loss: 3.56847 - acc: 0.2513 -- iter: 4096/5208
Training Step: 2121 | total loss: 3.55167 | time: 2.590s
| Adam | epoch: 193 | loss: 3.55167 - acc: 0.2502 -- iter: 4608/5208
Training Step: 2122 | total loss: 3.49171 | time: 2.889s
| Adam | epoch: 193 | loss: 3.49171 - acc: 0.2496 -- iter: 5120/5208
Training Step: 2123 | total loss: 3.50222 | time: 3.128s
| Adam | epoch: 193 | loss: 3.50222 - acc: 0.2498 -- iter: 5208/5208
--
Training Step: 2124 | total loss: 3.51755 | time: 0.271s
| Adam | epoch: 194 | loss: 3.51755 - acc: 0.2487 -- iter: 0512/5208
Training Step: 2125 | total loss: 3.52106 | time: 0.542s
| Adam | epoch: 194 | loss: 3.52106 - acc: 0.2477 -- iter: 1024/5208
Training Step: 2126 | total loss: 3.47660 | time: 0.835s
| Adam | epoch: 194 | loss: 3.47660 - acc: 0.2452 -- iter: 1536/5208
Training Step: 2127 | total loss: 3.48514 | time: 1.086s
| Adam | epoch: 194 | loss: 3.48514 - acc: 0.2457 -- iter: 2048/5208
Training Step: 2128 | total loss: 3.65165 | time: 1.376s
| Adam | epoch: 194 | loss: 3.65165 - acc: 0.2424 -- iter: 2560/5208
Training Step: 2129 | total loss: 3.60200 | time: 1.652s
| Adam | epoch: 194 | loss: 3.60200 - acc: 0.2439 -- iter: 3072/5208
Training Step: 2130 | total loss: 3.56960 | time: 1.941s
| Adam | epoch: 194 | loss: 3.56960 - acc: 0.2447 -- iter: 3584/5208
Training Step: 2131 | total loss: 3.61418 | time: 2.239s
| Adam | epoch: 194 | loss: 3.61418 - acc: 0.2472 -- iter: 4096/5208
Training Step: 2132 | total loss: 3.58292 | time: 2.556s
| Adam | epoch: 194 | loss: 3.58292 - acc: 0.2483 -- iter: 4608/5208
Training Step: 2133 | total loss: 3.56519 | time: 2.853s
| Adam | epoch: 194 | loss: 3.56519 - acc: 0.2494 -- iter: 5120/5208
Training Step: 2134 | total loss: 3.54117 | time: 3.168s
| Adam | epoch: 194 | loss: 3.54117 - acc: 0.2544 -- iter: 5208/5208
--
```

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Training Step: 2135 | total loss: 3.53868 | time: 0.232s
| Adam | epoch: 195 | loss: 3.53868 - acc: 0.2532 -- iter: 0512/5208
Training Step: 2136 | total loss: 3.59692 | time: 0.483s
| Adam | epoch: 195 | loss: 3.59692 - acc: 0.2460 -- iter: 1024/5208
Training Step: 2137 | total loss: 3.62485 | time: 0.770s
| Adam | epoch: 195 | loss: 3.62485 - acc: 0.2441 -- iter: 1536/5208
Training Step: 2138 | total loss: 3.58736 | time: 1.050s
| Adam | epoch: 195 | loss: 3.58736 - acc: 0.2436 -- iter: 2048/5208
Training Step: 2139 | total loss: 3.60488 | time: 1.335s
| Adam | epoch: 195 | loss: 3.60488 - acc: 0.2407 -- iter: 2560/5208
Training Step: 2140 | total loss: 3.68857 | time: 1.623s
| Adam | epoch: 195 | loss: 3.68857 - acc: 0.2418 -- iter: 3072/5208
Training Step: 2141 | total loss: 3.63054 | time: 1.889s
| Adam | epoch: 195 | loss: 3.63054 - acc: 0.2444 -- iter: 3584/5208
Training Step: 2142 | total loss: 3.69145 | time: 2.195s
| Adam | epoch: 195 | loss: 3.69145 - acc: 0.2440 -- iter: 4096/5208
Training Step: 2143 | total loss: 3.65479 | time: 2.502s
| Adam | epoch: 195 | loss: 3.65479 - acc: 0.2454 -- iter: 4608/5208
Training Step: 2144 | total loss: 3.58744 | time: 2.781s
| Adam | epoch: 195 | loss: 3.58744 - acc: 0.2484 -- iter: 5120/5208
Training Step: 2145 | total loss: 3.59155 | time: 3.079s
| Adam | epoch: 195 | loss: 3.59155 - acc: 0.2470 -- iter: 5208/5208
--
Training Step: 2146 | total loss: 3.57883 | time: 0.314s
| Adam | epoch: 196 | loss: 3.57883 - acc: 0.2506 -- iter: 0512/5208
Training Step: 2147 | total loss: 3.53250 | time: 0.523s
| Adam | epoch: 196 | loss: 3.53250 - acc: 0.2521 -- iter: 1024/5208
Training Step: 2148 | total loss: 3.58807 | time: 0.773s
| Adam | epoch: 196 | loss: 3.58807 - acc: 0.2473 -- iter: 1536/5208
Training Step: 2149 | total loss: 3.62771 | time: 1.054s
| Adam | epoch: 196 | loss: 3.62771 - acc: 0.2419 -- iter: 2048/5208
Training Step: 2150 | total loss: 3.60477 | time: 1.318s
| Adam | epoch: 196 | loss: 3.60477 - acc: 0.2427 -- iter: 2560/5208
Training Step: 2151 | total loss: 3.54228 | time: 1.629s
| Adam | epoch: 196 | loss: 3.54228 - acc: 0.2438 -- iter: 3072/5208
Training Step: 2152 | total loss: 3.46537 | time: 1.911s
| Adam | epoch: 196 | loss: 3.46537 - acc: 0.2431 -- iter: 3584/5208
Training Step: 2153 | total loss: 3.48144 | time: 2.234s
| Adam | epoch: 196 | loss: 3.48144 - acc: 0.2448 -- iter: 4096/5208
Training Step: 2154 | total loss: 3.44062 | time: 2.543s
| Adam | epoch: 196 | loss: 3.44062 - acc: 0.2467 -- iter: 4608/5208
Training Step: 2155 | total loss: 3.51135 | time: 2.846s
| Adam | epoch: 196 | loss: 3.51135 - acc: 0.2472 -- iter: 5120/5208
Training Step: 2156 | total loss: 3.49218 | time: 3.127s
| Adam | epoch: 196 | loss: 3.49218 - acc: 0.2475 -- iter: 5208/5208
--
Training Step: 2157 | total loss: 3.48505 | time: 0.323s
| Adam | epoch: 197 | loss: 3.48505 - acc: 0.2493 -- iter: 0512/5208
Training Step: 2158 | total loss: 3.43375 | time: 0.620s
| Adam | epoch: 197 | loss: 3.43375 - acc: 0.2531 -- iter: 1024/5208
Training Step: 2159 | total loss: 3.42412 | time: 0.845s
| Adam | epoch: 197 | loss: 3.42412 - acc: 0.2524 -- iter: 1536/5208
Training Step: 2160 | total loss: 3.29016 | time: 1.092s
| Adam | epoch: 197 | loss: 3.29016 - acc: 0.2544 -- iter: 2048/5208
Training Step: 2161 | total loss: 3.16244 | time: 1.403s
| Adam | epoch: 197 | loss: 3.16244 - acc: 0.2585 -- iter: 2560/5208
Training Step: 2162 | total loss: 3.20416 | time: 1.637s
| Adam | epoch: 197 | loss: 3.20416 - acc: 0.2610 -- iter: 3072/5208
Training Step: 2163 | total loss: 3.20197 | time: 1.901s
| Adam | epoch: 197 | loss: 3.20197 - acc: 0.2587 -- iter: 3584/5208
Training Step: 2164 | total loss: 3.25856 | time: 2.176s
| Adam | epoch: 197 | loss: 3.25856 - acc: 0.2617 -- iter: 4096/5208
Training Step: 2165 | total loss: 3.25822 | time: 2.449s
| Adam | epoch: 197 | loss: 3.25822 - acc: 0.2645 -- iter: 4608/5208
Training Step: 2166 | total loss: 3.27279 | time: 2.734s
| Adam | epoch: 197 | loss: 3.27279 - acc: 0.2636 -- iter: 5120/5208
Training Step: 2167 | total loss: 3.23447 | time: 3.038s
| Adam | epoch: 197 | loss: 3.23447 - acc: 0.2632 -- iter: 5208/5208
--
Training Step: 2168 | total loss: 3.23982 | time: 0.312s
| Adam | epoch: 198 | loss: 3.23982 - acc: 0.2627 -- iter: 0512/5208
Training Step: 2169 | total loss: 3.21574 | time: 0.585s
| Adam | epoch: 198 | loss: 3.21574 - acc: 0.2614 -- iter: 1024/5208
Training Step: 2170 | total loss: 3.22548 | time: 0.882s
| Adam | epoch: 198 | loss: 3.22548 - acc: 0.2626 -- iter: 1536/5208
Training Step: 2171 | total loss: 3.28069 | time: 1.096s
| Adam | epoch: 198 | loss: 3.28069 - acc: 0.2588 -- iter: 2048/5208
Training Step: 2172 | total loss: 3.20206 | time: 1.339s
| Adam | epoch: 198 | loss: 3.20206 - acc: 0.2625 -- iter: 2560/5208
Training Step: 2173 | total loss: 3.12340 | time: 1.604s
| Adam | epoch: 198 | loss: 3.12340 - acc: 0.2646 -- iter: 3072/5208
Training Step: 2174 | total loss: 3.12253 | time: 1.873s
| Adam | epoch: 198 | loss: 3.12253 - acc: 0.2651 -- iter: 3584/5208
```

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Training Step: 2175 | total loss: 3.16277 | time: 2.130s
| Adam | epoch: 198 | loss: 3.16277 - acc: 0.2603 -- iter: 4096/5208
Training Step: 2176 | total loss: 3.24144 | time: 2.436s
| Adam | epoch: 198 | loss: 3.24144 - acc: 0.2587 -- iter: 4608/5208
Training Step: 2177 | total loss: 3.26307 | time: 2.717s
| Adam | epoch: 198 | loss: 3.26307 - acc: 0.2592 -- iter: 5120/5208
Training Step: 2178 | total loss: 3.25891 | time: 3.005s
| Adam | epoch: 198 | loss: 3.25891 - acc: 0.2606 -- iter: 5208/5208
--
Training Step: 2179 | total loss: 3.20645 | time: 0.314s
| Adam | epoch: 199 | loss: 3.20645 - acc: 0.2597 -- iter: 0512/5208
Training Step: 2180 | total loss: 3.20239 | time: 0.634s
| Adam | epoch: 199 | loss: 3.20239 - acc: 0.2609 -- iter: 1024/5208
Training Step: 2181 | total loss: 3.24527 | time: 0.899s
| Adam | epoch: 199 | loss: 3.24527 - acc: 0.2604 -- iter: 1536/5208
Training Step: 2182 | total loss: 3.19365 | time: 1.230s
| Adam | epoch: 199 | loss: 3.19365 - acc: 0.2586 -- iter: 2048/5208
Training Step: 2183 | total loss: 3.23381 | time: 1.458s
| Adam | epoch: 199 | loss: 3.23381 - acc: 0.2552 -- iter: 2560/5208
Training Step: 2184 | total loss: 3.28262 | time: 1.703s
| Adam | epoch: 199 | loss: 3.28262 - acc: 0.2547 -- iter: 3072/5208
Training Step: 2185 | total loss: 3.33095 | time: 1.999s
| Adam | epoch: 199 | loss: 3.33095 - acc: 0.2542 -- iter: 3584/5208
Training Step: 2186 | total loss: 3.35879 | time: 2.289s
| Adam | epoch: 199 | loss: 3.35879 - acc: 0.2548 -- iter: 4096/5208
Training Step: 2187 | total loss: 3.33456 | time: 2.576s
| Adam | epoch: 199 | loss: 3.33456 - acc: 0.2555 -- iter: 4608/5208
Training Step: 2188 | total loss: 3.49967 | time: 2.868s
| Adam | epoch: 199 | loss: 3.49967 - acc: 0.2549 -- iter: 5120/5208
Training Step: 2189 | total loss: 3.43750 | time: 3.162s
| Adam | epoch: 199 | loss: 3.43750 - acc: 0.2534 -- iter: 5208/5208
--
Training Step: 2190 | total loss: 3.44647 | time: 0.296s
| Adam | epoch: 200 | loss: 3.44647 - acc: 0.2523 -- iter: 0512/5208
Training Step: 2191 | total loss: 3.41357 | time: 0.569s
| Adam | epoch: 200 | loss: 3.41357 - acc: 0.2542 -- iter: 1024/5208
Training Step: 2192 | total loss: 3.45332 | time: 0.870s
| Adam | epoch: 200 | loss: 3.45332 - acc: 0.2544 -- iter: 1536/5208
Training Step: 2193 | total loss: 3.39395 | time: 1.180s
| Adam | epoch: 200 | loss: 3.39395 - acc: 0.2547 -- iter: 2048/5208
Training Step: 2194 | total loss: 3.40330 | time: 1.448s
| Adam | epoch: 200 | loss: 3.40330 - acc: 0.2527 -- iter: 2560/5208
Training Step: 2195 | total loss: 3.34262 | time: 1.684s
| Adam | epoch: 200 | loss: 3.34262 - acc: 0.2558 -- iter: 3072/5208
Training Step: 2196 | total loss: 3.29489 | time: 1.895s
| Adam | epoch: 200 | loss: 3.29489 - acc: 0.2552 -- iter: 3584/5208
Training Step: 2197 | total loss: 3.24906 | time: 2.190s
| Adam | epoch: 200 | loss: 3.24906 - acc: 0.2558 -- iter: 4096/5208
Training Step: 2198 | total loss: 3.27361 | time: 2.458s
| Adam | epoch: 200 | loss: 3.27361 - acc: 0.2554 -- iter: 4608/5208
Training Step: 2199 | total loss: 3.27993 | time: 2.782s
| Adam | epoch: 200 | loss: 3.27993 - acc: 0.2553 -- iter: 5120/5208
Training Step: 2200 | total loss: 3.29410 | time: 3.084s
| Adam | epoch: 200 | loss: 3.29410 - acc: 0.2567 -- iter: 5208/5208
--
Training Step: 2201 | total loss: 3.30953 | time: 0.309s
| Adam | epoch: 201 | loss: 3.30953 - acc: 0.2576 -- iter: 0512/5208
Training Step: 2202 | total loss: 3.30748 | time: 0.588s
| Adam | epoch: 201 | loss: 3.30748 - acc: 0.2564 -- iter: 1024/5208
Training Step: 2203 | total loss: 3.23195 | time: 0.896s
| Adam | epoch: 201 | loss: 3.23195 - acc: 0.2579 -- iter: 1536/5208
Training Step: 2204 | total loss: 3.24227 | time: 1.203s
| Adam | epoch: 201 | loss: 3.24227 - acc: 0.2603 -- iter: 2048/5208
Training Step: 2205 | total loss: 3.24521 | time: 1.512s
| Adam | epoch: 201 | loss: 3.24521 - acc: 0.2600 -- iter: 2560/5208
Training Step: 2206 | total loss: 3.29145 | time: 1.782s
| Adam | epoch: 201 | loss: 3.29145 - acc: 0.2590 -- iter: 3072/5208
Training Step: 2207 | total loss: 3.27688 | time: 2.027s
| Adam | epoch: 201 | loss: 3.27688 - acc: 0.2566 -- iter: 3584/5208
Training Step: 2208 | total loss: 3.20348 | time: 2.254s
| Adam | epoch: 201 | loss: 3.20348 - acc: 0.2559 -- iter: 4096/5208
Training Step: 2209 | total loss: 3.11488 | time: 2.562s
| Adam | epoch: 201 | loss: 3.11488 - acc: 0.2564 -- iter: 4608/5208
Training Step: 2210 | total loss: 3.12840 | time: 2.833s
| Adam | epoch: 201 | loss: 3.12840 - acc: 0.2564 -- iter: 5120/5208
Training Step: 2211 | total loss: 3.15373 | time: 3.116s
| Adam | epoch: 201 | loss: 3.15373 - acc: 0.2561 -- iter: 5208/5208
--
Training Step: 2212 | total loss: 3.36777 | time: 0.325s
| Adam | epoch: 202 | loss: 3.36777 - acc: 0.2561 -- iter: 0512/5208
Training Step: 2213 | total loss: 3.35687 | time: 0.579s
| Adam | epoch: 202 | loss: 3.35687 - acc: 0.2561 -- iter: 1024/5208
Training Step: 2214 | total loss: 3.34111 | time: 0.880s

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| Adam | epoch: 202 | loss: 3.34111 - acc: 0.2572 -- iter: 1536/5208
Training Step: 2215 | total loss: 3.33721 | time: 1.148s
| Adam | epoch: 202 | loss: 3.33721 - acc: 0.2585 -- iter: 2048/5208
Training Step: 2216 | total loss: 3.28821 | time: 1.428s
| Adam | epoch: 202 | loss: 3.28821 - acc: 0.2598 -- iter: 2560/5208
Training Step: 2217 | total loss: 3.27529 | time: 1.737s
| Adam | epoch: 202 | loss: 3.27529 - acc: 0.2605 -- iter: 3072/5208
Training Step: 2218 | total loss: 3.27718 | time: 1.985s
| Adam | epoch: 202 | loss: 3.27718 - acc: 0.2609 -- iter: 3584/5208
Training Step: 2219 | total loss: 3.25169 | time: 2.232s
| Adam | epoch: 202 | loss: 3.25169 - acc: 0.2600 -- iter: 4096/5208
Training Step: 2220 | total loss: 3.36881 | time: 2.489s
| Adam | epoch: 202 | loss: 3.36881 - acc: 0.2522 -- iter: 4608/5208
Training Step: 2221 | total loss: 3.45866 | time: 2.783s
| Adam | epoch: 202 | loss: 3.45866 - acc: 0.2474 -- iter: 5120/5208
Training Step: 2222 | total loss: 3.43029 | time: 3.031s
| Adam | epoch: 202 | loss: 3.43029 - acc: 0.2477 -- iter: 5208/5208
--
Training Step: 2223 | total loss: 3.49678 | time: 0.293s
| Adam | epoch: 203 | loss: 3.49678 - acc: 0.2514 -- iter: 0512/5208
Training Step: 2224 | total loss: 3.83586 | time: 0.604s
| Adam | epoch: 203 | loss: 3.83586 - acc: 0.2517 -- iter: 1024/5208
Training Step: 2225 | total loss: 3.82469 | time: 0.932s
| Adam | epoch: 203 | loss: 3.82469 - acc: 0.2493 -- iter: 1536/5208
Training Step: 2226 | total loss: 3.76465 | time: 1.217s
| Adam | epoch: 203 | loss: 3.76465 - acc: 0.2525 -- iter: 2048/5208
Training Step: 2227 | total loss: 3.66022 | time: 1.528s
| Adam | epoch: 203 | loss: 3.66022 - acc: 0.2538 -- iter: 2560/5208
Training Step: 2228 | total loss: 3.63341 | time: 1.817s
| Adam | epoch: 203 | loss: 3.63341 - acc: 0.2538 -- iter: 3072/5208
Training Step: 2229 | total loss: 3.60955 | time: 2.125s
| Adam | epoch: 203 | loss: 3.60955 - acc: 0.2578 -- iter: 3584/5208
Training Step: 2230 | total loss: 3.51056 | time: 2.421s
| Adam | epoch: 203 | loss: 3.51056 - acc: 0.2584 -- iter: 4096/5208
Training Step: 2231 | total loss: 3.49427 | time: 2.649s
| Adam | epoch: 203 | loss: 3.49427 - acc: 0.2581 -- iter: 4608/5208
Training Step: 2232 | total loss: 3.69539 | time: 2.894s
| Adam | epoch: 203 | loss: 3.69539 - acc: 0.2584 -- iter: 5120/5208
Training Step: 2233 | total loss: 3.84600 | time: 3.211s
| Adam | epoch: 203 | loss: 3.84600 - acc: 0.2610 -- iter: 5208/5208
--
Training Step: 2234 | total loss: 3.82115 | time: 0.300s
| Adam | epoch: 204 | loss: 3.82115 - acc: 0.2663 -- iter: 0512/5208
Training Step: 2235 | total loss: 3.78406 | time: 0.571s
| Adam | epoch: 204 | loss: 3.78406 - acc: 0.2643 -- iter: 1024/5208
Training Step: 2236 | total loss: 3.77390 | time: 0.830s
| Adam | epoch: 204 | loss: 3.77390 - acc: 0.2619 -- iter: 1536/5208
Training Step: 2237 | total loss: 3.68207 | time: 1.109s
| Adam | epoch: 204 | loss: 3.68207 - acc: 0.2631 -- iter: 2048/5208
Training Step: 2238 | total loss: 3.61023 | time: 1.472s
| Adam | epoch: 204 | loss: 3.61023 - acc: 0.2662 -- iter: 2560/5208
Training Step: 2239 | total loss: 3.59244 | time: 1.746s
| Adam | epoch: 204 | loss: 3.59244 - acc: 0.2683 -- iter: 3072/5208
Training Step: 2240 | total loss: 3.51695 | time: 2.030s
| Adam | epoch: 204 | loss: 3.51695 - acc: 0.2698 -- iter: 3584/5208
Training Step: 2241 | total loss: 3.48826 | time: 2.310s
| Adam | epoch: 204 | loss: 3.48826 - acc: 0.2676 -- iter: 4096/5208
Training Step: 2242 | total loss: 3.50862 | time: 2.607s
| Adam | epoch: 204 | loss: 3.50862 - acc: 0.2667 -- iter: 4608/5208
Training Step: 2243 | total loss: 3.42793 | time: 2.814s
| Adam | epoch: 204 | loss: 3.42793 - acc: 0.2679 -- iter: 5120/5208
Training Step: 2244 | total loss: 3.61375 | time: 3.078s
| Adam | epoch: 204 | loss: 3.61375 - acc: 0.2661 -- iter: 5208/5208
--
Training Step: 2245 | total loss: 3.74398 | time: 0.301s
| Adam | epoch: 205 | loss: 3.74398 - acc: 0.2634 -- iter: 0512/5208
Training Step: 2246 | total loss: 3.72896 | time: 0.569s
| Adam | epoch: 205 | loss: 3.72896 - acc: 0.2642 -- iter: 1024/5208
Training Step: 2247 | total loss: 3.72041 | time: 0.839s
| Adam | epoch: 205 | loss: 3.72041 - acc: 0.2659 -- iter: 1536/5208
Training Step: 2248 | total loss: 4.12451 | time: 1.107s
| Adam | epoch: 205 | loss: 4.12451 - acc: 0.2637 -- iter: 2048/5208
Training Step: 2249 | total loss: 4.05760 | time: 1.384s
| Adam | epoch: 205 | loss: 4.05760 - acc: 0.2655 -- iter: 2560/5208
Training Step: 2250 | total loss: 4.00159 | time: 1.663s
| Adam | epoch: 205 | loss: 4.00159 - acc: 0.2643 -- iter: 3072/5208
Training Step: 2251 | total loss: 3.92952 | time: 1.977s
| Adam | epoch: 205 | loss: 3.92952 - acc: 0.2670 -- iter: 3584/5208
Training Step: 2252 | total loss: 3.84119 | time: 2.269s
| Adam | epoch: 205 | loss: 3.84119 - acc: 0.2631 -- iter: 4096/5208
Training Step: 2253 | total loss: 3.80607 | time: 2.595s
| Adam | epoch: 205 | loss: 3.80607 - acc: 0.2634 -- iter: 4608/5208
Training Step: 2254 | total loss: 3.75036 | time: 2.878s
```



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| Adam | epoch: 205 | loss: 3.75036 - acc: 0.2642 -- iter: 5120/5208
Training Step: 2255 | total loss: 3.72436 | time: 3.090s
| Adam | epoch: 205 | loss: 3.72436 - acc: 0.2657 -- iter: 5208/5208
--
Training Step: 2256 | total loss: 3.66324 | time: 0.291s
| Adam | epoch: 206 | loss: 3.66324 - acc: 0.2664 -- iter: 0512/5208
Training Step: 2257 | total loss: 3.58824 | time: 0.574s
| Adam | epoch: 206 | loss: 3.58824 - acc: 0.2648 -- iter: 1024/5208
Training Step: 2258 | total loss: 3.54106 | time: 0.845s
| Adam | epoch: 206 | loss: 3.54106 - acc: 0.2625 -- iter: 1536/5208
Training Step: 2259 | total loss: 3.54684 | time: 1.109s
| Adam | epoch: 206 | loss: 3.54684 - acc: 0.2626 -- iter: 2048/5208
Training Step: 2260 | total loss: 3.72150 | time: 1.425s
| Adam | epoch: 206 | loss: 3.72150 - acc: 0.2659 -- iter: 2560/5208
Training Step: 2261 | total loss: 3.72284 | time: 1.728s
| Adam | epoch: 206 | loss: 3.72284 - acc: 0.2652 -- iter: 3072/5208
Training Step: 2262 | total loss: 3.64950 | time: 2.021s
| Adam | epoch: 206 | loss: 3.64950 - acc: 0.2663 -- iter: 3584/5208
Training Step: 2263 | total loss: 3.65540 | time: 2.328s
| Adam | epoch: 206 | loss: 3.65540 - acc: 0.2662 -- iter: 4096/5208
Training Step: 2264 | total loss: 3.65172 | time: 2.631s
| Adam | epoch: 206 | loss: 3.65172 - acc: 0.2663 -- iter: 4608/5208
Training Step: 2265 | total loss: 3.56847 | time: 2.939s
| Adam | epoch: 206 | loss: 3.56847 - acc: 0.2667 -- iter: 5120/5208
Training Step: 2266 | total loss: 3.55785 | time: 3.212s
| Adam | epoch: 206 | loss: 3.55785 - acc: 0.2666 -- iter: 5208/5208
--
Training Step: 2267 | total loss: 3.48744 | time: 0.274s
| Adam | epoch: 207 | loss: 3.48744 - acc: 0.2663 -- iter: 0512/5208
Training Step: 2268 | total loss: 3.35662 | time: 0.483s
| Adam | epoch: 207 | loss: 3.35662 - acc: 0.2590 -- iter: 1024/5208
Training Step: 2269 | total loss: 3.22643 | time: 0.794s
| Adam | epoch: 207 | loss: 3.22643 - acc: 0.2569 -- iter: 1536/5208
Training Step: 2270 | total loss: 3.20634 | time: 1.069s
| Adam | epoch: 207 | loss: 3.20634 - acc: 0.2574 -- iter: 2048/5208
Training Step: 2271 | total loss: 3.20813 | time: 1.337s
| Adam | epoch: 207 | loss: 3.20813 - acc: 0.2547 -- iter: 2560/5208
Training Step: 2272 | total loss: 3.35121 | time: 1.649s
| Adam | epoch: 207 | loss: 3.35121 - acc: 0.2556 -- iter: 3072/5208
Training Step: 2273 | total loss: 3.33360 | time: 1.916s
| Adam | epoch: 207 | loss: 3.33360 - acc: 0.2558 -- iter: 3584/5208
Training Step: 2274 | total loss: 3.30560 | time: 2.219s
| Adam | epoch: 207 | loss: 3.30560 - acc: 0.2578 -- iter: 4096/5208
Training Step: 2275 | total loss: 3.30010 | time: 2.528s
| Adam | epoch: 207 | loss: 3.30010 - acc: 0.2588 -- iter: 4608/5208
Training Step: 2276 | total loss: 3.25802 | time: 2.836s
| Adam | epoch: 207 | loss: 3.25802 - acc: 0.2598 -- iter: 5120/5208
Training Step: 2277 | total loss: 3.24948 | time: 3.084s
| Adam | epoch: 207 | loss: 3.24948 - acc: 0.2583 -- iter: 5208/5208
--
Training Step: 2278 | total loss: 3.26578 | time: 0.303s
| Adam | epoch: 208 | loss: 3.26578 - acc: 0.2574 -- iter: 0512/5208
Training Step: 2279 | total loss: 3.22646 | time: 0.510s
| Adam | epoch: 208 | loss: 3.22646 - acc: 0.2594 -- iter: 1024/5208
Training Step: 2280 | total loss: 3.13790 | time: 0.759s
| Adam | epoch: 208 | loss: 3.13790 - acc: 0.2619 -- iter: 1536/5208
Training Step: 2281 | total loss: 3.04882 | time: 1.032s
| Adam | epoch: 208 | loss: 3.04882 - acc: 0.2698 -- iter: 2048/5208
Training Step: 2282 | total loss: 3.09774 | time: 1.334s
| Adam | epoch: 208 | loss: 3.09774 - acc: 0.2690 -- iter: 2560/5208
Training Step: 2283 | total loss: 3.13382 | time: 1.606s
| Adam | epoch: 208 | loss: 3.13382 - acc: 0.2679 -- iter: 3072/5208
Training Step: 2284 | total loss: 3.27152 | time: 1.910s
| Adam | epoch: 208 | loss: 3.27152 - acc: 0.2698 -- iter: 3584/5208
Training Step: 2285 | total loss: 3.20206 | time: 2.221s
| Adam | epoch: 208 | loss: 3.20206 - acc: 0.2707 -- iter: 4096/5208
Training Step: 2286 | total loss: 3.17119 | time: 2.497s
| Adam | epoch: 208 | loss: 3.17119 - acc: 0.2689 -- iter: 4608/5208
Training Step: 2287 | total loss: 3.21619 | time: 2.789s
| Adam | epoch: 208 | loss: 3.21619 - acc: 0.2650 -- iter: 5120/5208
Training Step: 2288 | total loss: 3.28766 | time: 3.095s
| Adam | epoch: 208 | loss: 3.28766 - acc: 0.2665 -- iter: 5208/5208
--
Training Step: 2289 | total loss: 3.26140 | time: 0.308s
| Adam | epoch: 209 | loss: 3.26140 - acc: 0.2677 -- iter: 0512/5208
Training Step: 2290 | total loss: 3.26466 | time: 0.607s
| Adam | epoch: 209 | loss: 3.26466 - acc: 0.2666 -- iter: 1024/5208
Training Step: 2291 | total loss: 3.22089 | time: 0.828s
| Adam | epoch: 209 | loss: 3.22089 - acc: 0.2643 -- iter: 1536/5208
Training Step: 2292 | total loss: 3.11385 | time: 1.071s
| Adam | epoch: 209 | loss: 3.11385 - acc: 0.2663 -- iter: 2048/5208
Training Step: 2293 | total loss: 3.00195 | time: 1.366s
| Adam | epoch: 209 | loss: 3.00195 - acc: 0.2692 -- iter: 2560/5208
```

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Training Step: 2294 | total loss: 3.04051 | time: 1.638s
| Adam | epoch: 209 | loss: 3.04051 - acc: 0.2726 -- iter: 3072/5208
Training Step: 2295 | total loss: 3.06175 | time: 1.904s
| Adam | epoch: 209 | loss: 3.06175 - acc: 0.2762 -- iter: 3584/5208
Training Step: 2296 | total loss: 3.08052 | time: 2.200s
| Adam | epoch: 209 | loss: 3.08052 - acc: 0.2763 -- iter: 4096/5208
Training Step: 2297 | total loss: 3.08188 | time: 2.480s
| Adam | epoch: 209 | loss: 3.08188 - acc: 0.2779 -- iter: 4608/5208
Training Step: 2298 | total loss: 3.09627 | time: 2.776s
| Adam | epoch: 209 | loss: 3.09627 - acc: 0.2736 -- iter: 5120/5208
Training Step: 2299 | total loss: 3.12330 | time: 3.097s
| Adam | epoch: 209 | loss: 3.12330 - acc: 0.2734 -- iter: 5208/5208
--
Training Step: 2300 | total loss: 3.08189 | time: 0.279s
| Adam | epoch: 210 | loss: 3.08189 - acc: 0.2759 -- iter: 0512/5208
Training Step: 2301 | total loss: 3.12065 | time: 0.591s
| Adam | epoch: 210 | loss: 3.12065 - acc: 0.2735 -- iter: 1024/5208
Training Step: 2302 | total loss: 3.11315 | time: 0.914s
| Adam | epoch: 210 | loss: 3.11315 - acc: 0.2720 -- iter: 1536/5208
Training Step: 2303 | total loss: 3.11994 | time: 1.132s
| Adam | epoch: 210 | loss: 3.11994 - acc: 0.2723 -- iter: 2048/5208
Training Step: 2304 | total loss: 3.18240 | time: 1.382s
| Adam | epoch: 210 | loss: 3.18240 - acc: 0.2758 -- iter: 2560/5208
Training Step: 2305 | total loss: 3.22266 | time: 1.695s
| Adam | epoch: 210 | loss: 3.22266 - acc: 0.2743 -- iter: 3072/5208
Training Step: 2306 | total loss: 3.21566 | time: 1.985s
| Adam | epoch: 210 | loss: 3.21566 - acc: 0.2719 -- iter: 3584/5208
Training Step: 2307 | total loss: 3.25163 | time: 2.265s
| Adam | epoch: 210 | loss: 3.25163 - acc: 0.2720 -- iter: 4096/5208
Training Step: 2308 | total loss: 3.29572 | time: 2.541s
| Adam | epoch: 210 | loss: 3.29572 - acc: 0.2708 -- iter: 4608/5208
Training Step: 2309 | total loss: 3.31372 | time: 2.858s
| Adam | epoch: 210 | loss: 3.31372 - acc: 0.2705 -- iter: 5120/5208
Training Step: 2310 | total loss: 3.34191 | time: 3.145s
| Adam | epoch: 210 | loss: 3.34191 - acc: 0.2731 -- iter: 5208/5208
--
Training Step: 2311 | total loss: 3.32228 | time: 0.297s
| Adam | epoch: 211 | loss: 3.32228 - acc: 0.2724 -- iter: 0512/5208
Training Step: 2312 | total loss: 3.25224 | time: 0.581s
| Adam | epoch: 211 | loss: 3.25224 - acc: 0.2729 -- iter: 1024/5208
Training Step: 2313 | total loss: 3.24807 | time: 0.869s
| Adam | epoch: 211 | loss: 3.24807 - acc: 0.2735 -- iter: 1536/5208
Training Step: 2314 | total loss: 3.23734 | time: 1.176s
| Adam | epoch: 211 | loss: 3.23734 - acc: 0.2719 -- iter: 2048/5208
Training Step: 2315 | total loss: 3.21324 | time: 1.388s
| Adam | epoch: 211 | loss: 3.21324 - acc: 0.2705 -- iter: 2560/5208
Training Step: 2316 | total loss: 3.09977 | time: 1.650s
| Adam | epoch: 211 | loss: 3.09977 - acc: 0.2730 -- iter: 3072/5208
Training Step: 2317 | total loss: 2.99256 | time: 1.935s
| Adam | epoch: 211 | loss: 2.99256 - acc: 0.2798 -- iter: 3584/5208
Training Step: 2318 | total loss: 3.00823 | time: 2.248s
| Adam | epoch: 211 | loss: 3.00823 - acc: 0.2768 -- iter: 4096/5208
Training Step: 2319 | total loss: 3.01358 | time: 2.522s
| Adam | epoch: 211 | loss: 3.01358 - acc: 0.2781 -- iter: 4608/5208
Training Step: 2320 | total loss: 3.18507 | time: 2.804s
| Adam | epoch: 211 | loss: 3.18507 - acc: 0.2790 -- iter: 5120/5208
Training Step: 2321 | total loss: 3.16337 | time: 3.076s
| Adam | epoch: 211 | loss: 3.16337 - acc: 0.2780 -- iter: 5208/5208
--
Training Step: 2322 | total loss: 3.15171 | time: 0.309s
| Adam | epoch: 212 | loss: 3.15171 - acc: 0.2772 -- iter: 0512/5208
Training Step: 2323 | total loss: 3.17403 | time: 0.613s
| Adam | epoch: 212 | loss: 3.17403 - acc: 0.2764 -- iter: 1024/5208
Training Step: 2324 | total loss: 3.11579 | time: 0.912s
| Adam | epoch: 212 | loss: 3.11579 - acc: 0.2781 -- iter: 1536/5208
Training Step: 2325 | total loss: 3.10983 | time: 1.221s
| Adam | epoch: 212 | loss: 3.10983 - acc: 0.2776 -- iter: 2048/5208
Training Step: 2326 | total loss: 3.09371 | time: 1.481s
| Adam | epoch: 212 | loss: 3.09371 - acc: 0.2748 -- iter: 2560/5208
Training Step: 2327 | total loss: 3.09426 | time: 1.722s
| Adam | epoch: 212 | loss: 3.09426 - acc: 0.2757 -- iter: 3072/5208
Training Step: 2328 | total loss: 3.05545 | time: 1.923s
| Adam | epoch: 212 | loss: 3.05545 - acc: 0.2697 -- iter: 3584/5208
Training Step: 2329 | total loss: 2.99769 | time: 2.240s
| Adam | epoch: 212 | loss: 2.99769 - acc: 0.2700 -- iter: 4096/5208
Training Step: 2330 | total loss: 3.03376 | time: 2.506s
| Adam | epoch: 212 | loss: 3.03376 - acc: 0.2723 -- iter: 4608/5208
Training Step: 2331 | total loss: 3.03080 | time: 2.797s
| Adam | epoch: 212 | loss: 3.03080 - acc: 0.2708 -- iter: 5120/5208
Training Step: 2332 | total loss: 3.11670 | time: 3.089s
| Adam | epoch: 212 | loss: 3.11670 - acc: 0.2695 -- iter: 5208/5208
--
Training Step: 2333 | total loss: 3.13711 | time: 0.292s
```



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| Adam | epoch: 213 | loss: 3.13711 - acc: 0.2680 -- iter: 0512/5208
Training Step: 2334 | total loss: 3.14878 | time: 0.588s
| Adam | epoch: 213 | loss: 3.14878 - acc: 0.2699 -- iter: 1024/5208
Training Step: 2335 | total loss: 3.17494 | time: 0.920s
| Adam | epoch: 213 | loss: 3.17494 - acc: 0.2732 -- iter: 1536/5208
Training Step: 2336 | total loss: 3.21264 | time: 1.244s
| Adam | epoch: 213 | loss: 3.21264 - acc: 0.2713 -- iter: 2048/5208
Training Step: 2337 | total loss: 3.18458 | time: 1.560s
| Adam | epoch: 213 | loss: 3.18458 - acc: 0.2703 -- iter: 2560/5208
Training Step: 2338 | total loss: 3.12938 | time: 1.857s
| Adam | epoch: 213 | loss: 3.12938 - acc: 0.2687 -- iter: 3072/5208
Training Step: 2339 | total loss: 3.10004 | time: 2.097s
| Adam | epoch: 213 | loss: 3.10004 - acc: 0.2656 -- iter: 3584/5208
Training Step: 2340 | total loss: 3.25473 | time: 2.352s
| Adam | epoch: 213 | loss: 3.25473 - acc: 0.2641 -- iter: 4096/5208
Training Step: 2341 | total loss: 3.37427 | time: 2.622s
| Adam | epoch: 213 | loss: 3.37427 - acc: 0.2581 -- iter: 4608/5208
Training Step: 2342 | total loss: 3.33681 | time: 2.901s
| Adam | epoch: 213 | loss: 3.33681 - acc: 0.2598 -- iter: 5120/5208
Training Step: 2343 | total loss: 3.30481 | time: 3.149s
| Adam | epoch: 213 | loss: 3.30481 - acc: 0.2604 -- iter: 5208/5208
--
Training Step: 2344 | total loss: 3.69119 | time: 0.295s
| Adam | epoch: 214 | loss: 3.69119 - acc: 0.2594 -- iter: 0512/5208
Training Step: 2345 | total loss: 3.67527 | time: 0.593s
| Adam | epoch: 214 | loss: 3.67527 - acc: 0.2621 -- iter: 1024/5208
Training Step: 2346 | total loss: 3.63928 | time: 0.916s
| Adam | epoch: 214 | loss: 3.63928 - acc: 0.2652 -- iter: 1536/5208
Training Step: 2347 | total loss: 3.56737 | time: 1.192s
| Adam | epoch: 214 | loss: 3.56737 - acc: 0.2643 -- iter: 2048/5208
Training Step: 2348 | total loss: 3.57230 | time: 1.483s
| Adam | epoch: 214 | loss: 3.57230 - acc: 0.2668 -- iter: 2560/5208
Training Step: 2349 | total loss: 3.54102 | time: 1.758s
| Adam | epoch: 214 | loss: 3.54102 - acc: 0.2682 -- iter: 3072/5208
Training Step: 2350 | total loss: 3.45773 | time: 2.050s
| Adam | epoch: 214 | loss: 3.45773 - acc: 0.2687 -- iter: 3584/5208
Training Step: 2351 | total loss: 3.43741 | time: 2.284s
| Adam | epoch: 214 | loss: 3.43741 - acc: 0.2688 -- iter: 4096/5208
Training Step: 2352 | total loss: 3.36119 | time: 2.532s
| Adam | epoch: 214 | loss: 3.36119 - acc: 0.2647 -- iter: 4608/5208
Training Step: 2353 | total loss: 3.27217 | time: 2.793s
| Adam | epoch: 214 | loss: 3.27217 - acc: 0.2609 -- iter: 5120/5208
Training Step: 2354 | total loss: 3.28536 | time: 3.077s
| Adam | epoch: 214 | loss: 3.28536 - acc: 0.2639 -- iter: 5208/5208
--
Training Step: 2355 | total loss: 3.25777 | time: 0.256s
| Adam | epoch: 215 | loss: 3.25777 - acc: 0.2633 -- iter: 0512/5208
Training Step: 2356 | total loss: 3.28090 | time: 0.538s
| Adam | epoch: 215 | loss: 3.28090 - acc: 0.2628 -- iter: 1024/5208
Training Step: 2357 | total loss: 3.26109 | time: 0.847s
| Adam | epoch: 215 | loss: 3.26109 - acc: 0.2662 -- iter: 1536/5208
Training Step: 2358 | total loss: 3.28426 | time: 1.179s
| Adam | epoch: 215 | loss: 3.28426 - acc: 0.2679 -- iter: 2048/5208
Training Step: 2359 | total loss: 3.31372 | time: 1.462s
| Adam | epoch: 215 | loss: 3.31372 - acc: 0.2694 -- iter: 2560/5208
Training Step: 2360 | total loss: 3.26207 | time: 1.755s
| Adam | epoch: 215 | loss: 3.26207 - acc: 0.2661 -- iter: 3072/5208
Training Step: 2361 | total loss: 3.25773 | time: 2.039s
| Adam | epoch: 215 | loss: 3.25773 - acc: 0.2614 -- iter: 3584/5208
Training Step: 2362 | total loss: 3.23733 | time: 2.329s
| Adam | epoch: 215 | loss: 3.23733 - acc: 0.2641 -- iter: 4096/5208
Training Step: 2363 | total loss: 3.22399 | time: 2.539s
| Adam | epoch: 215 | loss: 3.22399 - acc: 0.2670 -- iter: 4608/5208
Training Step: 2364 | total loss: 3.13535 | time: 2.778s
| Adam | epoch: 215 | loss: 3.13535 - acc: 0.2676 -- iter: 5120/5208
Training Step: 2365 | total loss: 3.03524 | time: 3.026s
| Adam | epoch: 215 | loss: 3.03524 - acc: 0.2658 -- iter: 5208/5208
--
Training Step: 2366 | total loss: 3.05641 | time: 0.295s
| Adam | epoch: 216 | loss: 3.05641 - acc: 0.2646 -- iter: 0512/5208
Training Step: 2367 | total loss: 3.01946 | time: 0.535s
| Adam | epoch: 216 | loss: 3.01946 - acc: 0.2643 -- iter: 1024/5208
Training Step: 2368 | total loss: 3.21517 | time: 0.824s
| Adam | epoch: 216 | loss: 3.21517 - acc: 0.2651 -- iter: 1536/5208
Training Step: 2369 | total loss: 3.22576 | time: 1.116s
| Adam | epoch: 216 | loss: 3.22576 - acc: 0.2673 -- iter: 2048/5208
Training Step: 2370 | total loss: 3.28441 | time: 1.423s
| Adam | epoch: 216 | loss: 3.28441 - acc: 0.2694 -- iter: 2560/5208
Training Step: 2371 | total loss: 3.24834 | time: 1.745s
| Adam | epoch: 216 | loss: 3.24834 - acc: 0.2712 -- iter: 3072/5208
Training Step: 2372 | total loss: 3.23858 | time: 2.024s
| Adam | epoch: 216 | loss: 3.23858 - acc: 0.2720 -- iter: 3584/5208
Training Step: 2373 | total loss: 3.21069 | time: 2.392s
```

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| Adam | epoch: 216 | loss: 3.21069 - acc: 0.2706 -- iter: 4096/5208
Training Step: 2374 | total loss: 3.20924 | time: 2.664s
| Adam | epoch: 216 | loss: 3.20924 - acc: 0.2676 -- iter: 4608/5208
Training Step: 2375 | total loss: 3.13516 | time: 2.894s
| Adam | epoch: 216 | loss: 3.13516 - acc: 0.2682 -- iter: 5120/5208
Training Step: 2376 | total loss: 3.05298 | time: 3.139s
| Adam | epoch: 216 | loss: 3.05298 - acc: 0.2641 -- iter: 5208/5208
--
Training Step: 2377 | total loss: 2.97861 | time: 0.329s
| Adam | epoch: 217 | loss: 2.97861 - acc: 0.2627 -- iter: 0512/5208
Training Step: 2378 | total loss: 3.07595 | time: 0.594s
| Adam | epoch: 217 | loss: 3.07595 - acc: 0.2673 -- iter: 1024/5208
Training Step: 2379 | total loss: 3.08754 | time: 0.919s
| Adam | epoch: 217 | loss: 3.08754 - acc: 0.2667 -- iter: 1536/5208
Training Step: 2380 | total loss: 3.35930 | time: 1.239s
| Adam | epoch: 217 | loss: 3.35930 - acc: 0.2666 -- iter: 2048/5208
Training Step: 2381 | total loss: 3.31735 | time: 1.523s
| Adam | epoch: 217 | loss: 3.31735 - acc: 0.2669 -- iter: 2560/5208
Training Step: 2382 | total loss: 3.26343 | time: 1.826s
| Adam | epoch: 217 | loss: 3.26343 - acc: 0.2673 -- iter: 3072/5208
Training Step: 2383 | total loss: 3.23116 | time: 2.126s
| Adam | epoch: 217 | loss: 3.23116 - acc: 0.2701 -- iter: 3584/5208
Training Step: 2384 | total loss: 3.17260 | time: 2.457s
| Adam | epoch: 217 | loss: 3.17260 - acc: 0.2714 -- iter: 4096/5208
Training Step: 2385 | total loss: 3.18892 | time: 2.735s
| Adam | epoch: 217 | loss: 3.18892 - acc: 0.2743 -- iter: 4608/5208
Training Step: 2386 | total loss: 3.21483 | time: 3.033s
| Adam | epoch: 217 | loss: 3.21483 - acc: 0.2727 -- iter: 5120/5208
Training Step: 2387 | total loss: 3.20406 | time: 3.266s
| Adam | epoch: 217 | loss: 3.20406 - acc: 0.2743 -- iter: 5208/5208
--
Training Step: 2388 | total loss: 3.13015 | time: 0.242s
| Adam | epoch: 218 | loss: 3.13015 - acc: 0.2742 -- iter: 0512/5208
Training Step: 2389 | total loss: 3.04479 | time: 0.573s
| Adam | epoch: 218 | loss: 3.04479 - acc: 0.2740 -- iter: 1024/5208
Training Step: 2390 | total loss: 3.09685 | time: 0.834s
| Adam | epoch: 218 | loss: 3.09685 - acc: 0.2751 -- iter: 1536/5208
Training Step: 2391 | total loss: 3.09366 | time: 1.139s
| Adam | epoch: 218 | loss: 3.09366 - acc: 0.2763 -- iter: 2048/5208
Training Step: 2392 | total loss: 3.13964 | time: 1.417s
| Adam | epoch: 218 | loss: 3.13964 - acc: 0.2753 -- iter: 2560/5208
Training Step: 2393 | total loss: 3.07295 | time: 1.712s
| Adam | epoch: 218 | loss: 3.07295 - acc: 0.2776 -- iter: 3072/5208
Training Step: 2394 | total loss: 3.10727 | time: 2.038s
| Adam | epoch: 218 | loss: 3.10727 - acc: 0.2794 -- iter: 3584/5208
Training Step: 2395 | total loss: 3.12405 | time: 2.316s
| Adam | epoch: 218 | loss: 3.12405 - acc: 0.2803 -- iter: 4096/5208
Training Step: 2396 | total loss: 3.11201 | time: 2.597s
| Adam | epoch: 218 | loss: 3.11201 - acc: 0.2812 -- iter: 4608/5208
Training Step: 2397 | total loss: 3.07424 | time: 2.894s
| Adam | epoch: 218 | loss: 3.07424 - acc: 0.2806 -- iter: 5120/5208
Training Step: 2398 | total loss: 3.08452 | time: 3.195s
| Adam | epoch: 218 | loss: 3.08452 - acc: 0.2785 -- iter: 5208/5208
--
Training Step: 2399 | total loss: 3.09018 | time: 0.222s
| Adam | epoch: 219 | loss: 3.09018 - acc: 0.2802 -- iter: 0512/5208
Training Step: 2400 | total loss: 3.15687 | time: 0.451s
| Adam | epoch: 219 | loss: 3.15687 - acc: 0.2851 -- iter: 1024/5208
Training Step: 2401 | total loss: 3.19245 | time: 0.759s
| Adam | epoch: 219 | loss: 3.19245 - acc: 0.2884 -- iter: 1536/5208
Training Step: 2402 | total loss: 3.18095 | time: 1.022s
| Adam | epoch: 219 | loss: 3.18095 - acc: 0.2856 -- iter: 2048/5208
Training Step: 2403 | total loss: 3.20905 | time: 1.279s
| Adam | epoch: 219 | loss: 3.20905 - acc: 0.2830 -- iter: 2560/5208
Training Step: 2404 | total loss: 3.20422 | time: 1.596s
| Adam | epoch: 219 | loss: 3.20422 - acc: 0.2818 -- iter: 3072/5208
Training Step: 2405 | total loss: 3.20968 | time: 1.905s
| Adam | epoch: 219 | loss: 3.20968 - acc: 0.2786 -- iter: 3584/5208
Training Step: 2406 | total loss: 3.19557 | time: 2.216s
| Adam | epoch: 219 | loss: 3.19557 - acc: 0.2799 -- iter: 4096/5208
Training Step: 2407 | total loss: 3.18060 | time: 2.484s
| Adam | epoch: 219 | loss: 3.18060 - acc: 0.2812 -- iter: 4608/5208
Training Step: 2408 | total loss: 3.15160 | time: 2.831s
| Adam | epoch: 219 | loss: 3.15160 - acc: 0.2820 -- iter: 5120/5208
Training Step: 2409 | total loss: 3.19392 | time: 3.095s
| Adam | epoch: 219 | loss: 3.19392 - acc: 0.2837 -- iter: 5208/5208
--
Training Step: 2410 | total loss: 3.17116 | time: 0.300s
| Adam | epoch: 220 | loss: 3.17116 - acc: 0.2844 -- iter: 0512/5208
Training Step: 2411 | total loss: 3.13201 | time: 0.507s
| Adam | epoch: 220 | loss: 3.13201 - acc: 0.2845 -- iter: 1024/5208
Training Step: 2412 | total loss: 3.25810 | time: 0.779s
| Adam | epoch: 220 | loss: 3.25810 - acc: 0.2856 -- iter: 1536/5208
```

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Training Step: 2413 | total loss: 3.33063 | time: 1.080s
| Adam | epoch: 220 | loss: 3.33063 - acc: 0.2843 -- iter: 2048/5208
Training Step: 2414 | total loss: 3.35129 | time: 1.345s
| Adam | epoch: 220 | loss: 3.35129 - acc: 0.2803 -- iter: 2560/5208
Training Step: 2415 | total loss: 3.29669 | time: 1.624s
| Adam | epoch: 220 | loss: 3.29669 - acc: 0.2821 -- iter: 3072/5208
Training Step: 2416 | total loss: 3.28156 | time: 1.943s
| Adam | epoch: 220 | loss: 3.28156 - acc: 0.2813 -- iter: 3584/5208
Training Step: 2417 | total loss: 3.24906 | time: 2.216s
| Adam | epoch: 220 | loss: 3.24906 - acc: 0.2787 -- iter: 4096/5208
Training Step: 2418 | total loss: 3.21605 | time: 2.520s
| Adam | epoch: 220 | loss: 3.21605 - acc: 0.2774 -- iter: 4608/5208
Training Step: 2419 | total loss: 3.25505 | time: 2.818s
| Adam | epoch: 220 | loss: 3.25505 - acc: 0.2762 -- iter: 5120/5208
Training Step: 2420 | total loss: 3.27856 | time: 3.159s
| Adam | epoch: 220 | loss: 3.27856 - acc: 0.2783 -- iter: 5208/5208
--
Training Step: 2421 | total loss: 3.24996 | time: 0.274s
| Adam | epoch: 221 | loss: 3.24996 - acc: 0.2782 -- iter: 0512/5208
Training Step: 2422 | total loss: 3.21424 | time: 0.572s
| Adam | epoch: 221 | loss: 3.21424 - acc: 0.2807 -- iter: 1024/5208
Training Step: 2423 | total loss: 3.20737 | time: 0.786s
| Adam | epoch: 221 | loss: 3.20737 - acc: 0.2844 -- iter: 1536/5208
Training Step: 2424 | total loss: 3.24056 | time: 1.045s
| Adam | epoch: 221 | loss: 3.24056 - acc: 0.2878 -- iter: 2048/5208
Training Step: 2425 | total loss: 3.26203 | time: 1.319s
| Adam | epoch: 221 | loss: 3.26203 - acc: 0.2897 -- iter: 2560/5208
Training Step: 2426 | total loss: 3.24588 | time: 1.592s
| Adam | epoch: 221 | loss: 3.24588 - acc: 0.2867 -- iter: 3072/5208
Training Step: 2427 | total loss: 3.24125 | time: 1.903s
| Adam | epoch: 221 | loss: 3.24125 - acc: 0.2867 -- iter: 3584/5208
Training Step: 2428 | total loss: 3.36860 | time: 2.211s
| Adam | epoch: 221 | loss: 3.36860 - acc: 0.2858 -- iter: 4096/5208
Training Step: 2429 | total loss: 3.33440 | time: 2.529s
| Adam | epoch: 221 | loss: 3.33440 - acc: 0.2844 -- iter: 4608/5208
Training Step: 2430 | total loss: 3.31767 | time: 2.815s
| Adam | epoch: 221 | loss: 3.31767 - acc: 0.2850 -- iter: 5120/5208
Training Step: 2431 | total loss: 3.28891 | time: 3.105s
| Adam | epoch: 221 | loss: 3.28891 - acc: 0.2839 -- iter: 5208/5208
--
Training Step: 2432 | total loss: 3.27524 | time: 0.310s
| Adam | epoch: 222 | loss: 3.27524 - acc: 0.2850 -- iter: 0512/5208
Training Step: 2433 | total loss: 3.26672 | time: 0.624s
| Adam | epoch: 222 | loss: 3.26672 - acc: 0.2830 -- iter: 1024/5208
Training Step: 2434 | total loss: 3.23210 | time: 0.894s
| Adam | epoch: 222 | loss: 3.23210 - acc: 0.2825 -- iter: 1536/5208
Training Step: 2435 | total loss: 3.19208 | time: 1.144s
| Adam | epoch: 222 | loss: 3.19208 - acc: 0.2833 -- iter: 2048/5208
Training Step: 2436 | total loss: 3.14700 | time: 1.362s
| Adam | epoch: 222 | loss: 3.14700 - acc: 0.2845 -- iter: 2560/5208
Training Step: 2437 | total loss: 3.10530 | time: 1.672s
| Adam | epoch: 222 | loss: 3.10530 - acc: 0.2879 -- iter: 3072/5208
Training Step: 2438 | total loss: 3.10232 | time: 1.927s
| Adam | epoch: 222 | loss: 3.10232 - acc: 0.2878 -- iter: 3584/5208
Training Step: 2439 | total loss: 3.18186 | time: 2.194s
| Adam | epoch: 222 | loss: 3.18186 - acc: 0.2881 -- iter: 4096/5208
Training Step: 2440 | total loss: 3.38467 | time: 2.530s
| Adam | epoch: 222 | loss: 3.38467 - acc: 0.2875 -- iter: 4608/5208
Training Step: 2441 | total loss: 3.35487 | time: 2.824s
| Adam | epoch: 222 | loss: 3.35487 - acc: 0.2870 -- iter: 5120/5208
Training Step: 2442 | total loss: 3.30854 | time: 3.147s
| Adam | epoch: 222 | loss: 3.30854 - acc: 0.2859 -- iter: 5208/5208
--
Training Step: 2443 | total loss: 3.26529 | time: 0.283s
| Adam | epoch: 223 | loss: 3.26529 - acc: 0.2870 -- iter: 0512/5208
Training Step: 2444 | total loss: 3.22194 | time: 0.576s
| Adam | epoch: 223 | loss: 3.22194 - acc: 0.2858 -- iter: 1024/5208
Training Step: 2445 | total loss: 3.17991 | time: 0.880s
| Adam | epoch: 223 | loss: 3.17991 - acc: 0.2855 -- iter: 1536/5208
Training Step: 2446 | total loss: 3.19207 | time: 1.219s
| Adam | epoch: 223 | loss: 3.19207 - acc: 0.2836 -- iter: 2048/5208
Training Step: 2447 | total loss: 3.15818 | time: 1.434s
| Adam | epoch: 223 | loss: 3.15818 - acc: 0.2825 -- iter: 2560/5208
Training Step: 2448 | total loss: 3.08739 | time: 1.680s
| Adam | epoch: 223 | loss: 3.08739 - acc: 0.2895 -- iter: 3072/5208
Training Step: 2449 | total loss: 3.01757 | time: 1.974s
| Adam | epoch: 223 | loss: 3.01757 - acc: 0.2867 -- iter: 3584/5208
Training Step: 2450 | total loss: 3.02698 | time: 2.255s
| Adam | epoch: 223 | loss: 3.02698 - acc: 0.2834 -- iter: 4096/5208
Training Step: 2451 | total loss: 3.09354 | time: 2.528s
| Adam | epoch: 223 | loss: 3.09354 - acc: 0.2855 -- iter: 4608/5208
Training Step: 2452 | total loss: 3.68585 | time: 2.817s
| Adam | epoch: 223 | loss: 3.68585 - acc: 0.2808 -- iter: 5120/5208
```

Training Step: 2453 | total loss: **3.61963** | time: 3.132s
| Adam | epoch: 223 | loss: 3.61963 - acc: 0.2793 -- iter: 5208/5208
--
Training Step: 2454 | total loss: **3.53121** | time: 0.271s
| Adam | epoch: 224 | loss: 3.53121 - acc: 0.2840 -- iter: 0512/5208
Training Step: 2455 | total loss: **3.43861** | time: 0.555s
| Adam | epoch: 224 | loss: 3.43861 - acc: 0.2827 -- iter: 1024/5208
Training Step: 2456 | total loss: **3.38544** | time: 0.912s
| Adam | epoch: 224 | loss: 3.38544 - acc: 0.2828 -- iter: 1536/5208
Training Step: 2457 | total loss: **3.36862** | time: 1.233s
| Adam | epoch: 224 | loss: 3.36862 - acc: 0.2860 -- iter: 2048/5208
Training Step: 2458 | total loss: **3.31722** | time: 1.513s
| Adam | epoch: 224 | loss: 3.31722 - acc: 0.2855 -- iter: 2560/5208
Training Step: 2459 | total loss: **3.34010** | time: 1.753s
| Adam | epoch: 224 | loss: 3.34010 - acc: 0.2813 -- iter: 3072/5208
Training Step: 2460 | total loss: **3.30931** | time: 2.002s
| Adam | epoch: 224 | loss: 3.30931 - acc: 0.2839 -- iter: 3584/5208
Training Step: 2461 | total loss: **3.28052** | time: 2.270s
| Adam | epoch: 224 | loss: 3.28052 - acc: 0.2828 -- iter: 4096/5208
Training Step: 2462 | total loss: **3.28603** | time: 2.547s
| Adam | epoch: 224 | loss: 3.28603 - acc: 0.2797 -- iter: 4608/5208
Training Step: 2463 | total loss: **3.26184** | time: 2.816s
| Adam | epoch: 224 | loss: 3.26184 - acc: 0.2838 -- iter: 5120/5208
Training Step: 2464 | total loss: **3.27852** | time: 3.118s
| Adam | epoch: 224 | loss: 3.27852 - acc: 0.2857 -- iter: 5208/5208
--
Training Step: 2465 | total loss: **3.27045** | time: 0.306s
| Adam | epoch: 225 | loss: 3.27045 - acc: 0.2837 -- iter: 0512/5208
Training Step: 2466 | total loss: **3.25518** | time: 0.584s
| Adam | epoch: 225 | loss: 3.25518 - acc: 0.2813 -- iter: 1024/5208
Training Step: 2467 | total loss: **3.22521** | time: 0.868s
| Adam | epoch: 225 | loss: 3.22521 - acc: 0.2838 -- iter: 1536/5208
Training Step: 2468 | total loss: **3.21921** | time: 1.164s
| Adam | epoch: 225 | loss: 3.21921 - acc: 0.2814 -- iter: 2048/5208
Training Step: 2469 | total loss: **3.17532** | time: 1.453s
| Adam | epoch: 225 | loss: 3.17532 - acc: 0.2829 -- iter: 2560/5208
Training Step: 2470 | total loss: **3.14847** | time: 1.776s
| Adam | epoch: 225 | loss: 3.14847 - acc: 0.2804 -- iter: 3072/5208
Training Step: 2471 | total loss: **3.11366** | time: 2.007s
| Adam | epoch: 225 | loss: 3.11366 - acc: 0.2829 -- iter: 3584/5208
Training Step: 2472 | total loss: **3.09503** | time: 2.226s
| Adam | epoch: 225 | loss: 3.09503 - acc: 0.2898 -- iter: 4096/5208
Training Step: 2473 | total loss: **3.08070** | time: 2.522s
| Adam | epoch: 225 | loss: 3.08070 - acc: 0.2938 -- iter: 4608/5208
Training Step: 2474 | total loss: **3.06675** | time: 2.797s
| Adam | epoch: 225 | loss: 3.06675 - acc: 0.2947 -- iter: 5120/5208
Training Step: 2475 | total loss: **3.09556** | time: 3.061s
| Adam | epoch: 225 | loss: 3.09556 - acc: 0.2955 -- iter: 5208/5208
--
Training Step: 2476 | total loss: **3.09487** | time: 0.311s
| Adam | epoch: 226 | loss: 3.09487 - acc: 0.2980 -- iter: 0512/5208
Training Step: 2477 | total loss: **3.06837** | time: 0.602s
| Adam | epoch: 226 | loss: 3.06837 - acc: 0.2977 -- iter: 1024/5208
Training Step: 2478 | total loss: **3.03599** | time: 0.923s
| Adam | epoch: 226 | loss: 3.03599 - acc: 0.2939 -- iter: 1536/5208
Training Step: 2479 | total loss: **2.99688** | time: 1.218s
| Adam | epoch: 226 | loss: 2.99688 - acc: 0.2949 -- iter: 2048/5208
Training Step: 2480 | total loss: **3.04373** | time: 1.541s
| Adam | epoch: 226 | loss: 3.04373 - acc: 0.2965 -- iter: 2560/5208
Training Step: 2481 | total loss: **3.03079** | time: 1.831s
| Adam | epoch: 226 | loss: 3.03079 - acc: 0.2969 -- iter: 3072/5208
Training Step: 2482 | total loss: **3.02416** | time: 2.171s
| Adam | epoch: 226 | loss: 3.02416 - acc: 0.2934 -- iter: 3584/5208
Training Step: 2483 | total loss: **3.01821** | time: 2.384s
| Adam | epoch: 226 | loss: 3.01821 - acc: 0.2912 -- iter: 4096/5208
Training Step: 2484 | total loss: **2.98640** | time: 2.623s
| Adam | epoch: 226 | loss: 2.98640 - acc: 0.2916 -- iter: 4608/5208
Training Step: 2485 | total loss: **2.95815** | time: 2.943s
| Adam | epoch: 226 | loss: 2.95815 - acc: 0.2863 -- iter: 5120/5208
Training Step: 2486 | total loss: **2.94836** | time: 3.242s
| Adam | epoch: 226 | loss: 2.94836 - acc: 0.2847 -- iter: 5208/5208
--
Training Step: 2487 | total loss: **3.04291** | time: 0.262s
| Adam | epoch: 227 | loss: 3.04291 - acc: 0.2843 -- iter: 0512/5208
Training Step: 2488 | total loss: **3.24566** | time: 0.549s
| Adam | epoch: 227 | loss: 3.24566 - acc: 0.2813 -- iter: 1024/5208
Training Step: 2489 | total loss: **3.24500** | time: 0.827s
| Adam | epoch: 227 | loss: 3.24500 - acc: 0.2809 -- iter: 1536/5208
Training Step: 2490 | total loss: **3.22880** | time: 1.111s
| Adam | epoch: 227 | loss: 3.22880 - acc: 0.2788 -- iter: 2048/5208
Training Step: 2491 | total loss: **3.23659** | time: 1.417s
| Adam | epoch: 227 | loss: 3.23659 - acc: 0.2800 -- iter: 2560/5208
Training Step: 2492 | total loss: **3.16415** | time: 1.742s


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| Adam | epoch: 227 | loss: 3.16415 - acc: 0.2838 -- iter: 3072/5208
Training Step: 2493 | total loss: 3.15471 | time: 2.001s
| Adam | epoch: 227 | loss: 3.15471 - acc: 0.2849 -- iter: 3584/5208
Training Step: 2494 | total loss: 3.08654 | time: 2.316s
| Adam | epoch: 227 | loss: 3.08654 - acc: 0.2859 -- iter: 4096/5208
Training Step: 2495 | total loss: 3.10876 | time: 2.525s
| Adam | epoch: 227 | loss: 3.10876 - acc: 0.2851 -- iter: 4608/5208
Training Step: 2496 | total loss: 3.06279 | time: 2.784s
| Adam | epoch: 227 | loss: 3.06279 - acc: 0.2895 -- iter: 5120/5208
Training Step: 2497 | total loss: 3.01961 | time: 3.071s
| Adam | epoch: 227 | loss: 3.01961 - acc: 0.2935 -- iter: 5208/5208
--
Training Step: 2498 | total loss: 2.98726 | time: 0.261s
| Adam | epoch: 228 | loss: 2.98726 - acc: 0.2954 -- iter: 0512/5208
Training Step: 2499 | total loss: 3.00221 | time: 0.553s
| Adam | epoch: 228 | loss: 3.00221 - acc: 0.2960 -- iter: 1024/5208
Training Step: 2500 | total loss: 3.00569 | time: 0.849s
| Adam | epoch: 228 | loss: 3.00569 - acc: 0.2986 -- iter: 1536/5208
Training Step: 2501 | total loss: 3.01375 | time: 1.142s
| Adam | epoch: 228 | loss: 3.01375 - acc: 0.2974 -- iter: 2048/5208
Training Step: 2502 | total loss: 2.99775 | time: 1.430s
| Adam | epoch: 228 | loss: 2.99775 - acc: 0.2954 -- iter: 2560/5208
Training Step: 2503 | total loss: 2.95695 | time: 1.753s
| Adam | epoch: 228 | loss: 2.95695 - acc: 0.2954 -- iter: 3072/5208
Training Step: 2504 | total loss: 2.91754 | time: 2.053s
| Adam | epoch: 228 | loss: 2.91754 - acc: 0.2906 -- iter: 3584/5208
Training Step: 2505 | total loss: 2.93313 | time: 2.351s
| Adam | epoch: 228 | loss: 2.93313 - acc: 0.2893 -- iter: 4096/5208
Training Step: 2506 | total loss: 2.90995 | time: 2.652s
| Adam | epoch: 228 | loss: 2.90995 - acc: 0.2893 -- iter: 4608/5208
Training Step: 2507 | total loss: 2.95592 | time: 2.867s
| Adam | epoch: 228 | loss: 2.95592 - acc: 0.2889 -- iter: 5120/5208
Training Step: 2508 | total loss: 2.88874 | time: 3.142s
| Adam | epoch: 228 | loss: 2.88874 - acc: 0.2975 -- iter: 5208/5208
--
Training Step: 2509 | total loss: 2.82186 | time: 0.303s
| Adam | epoch: 229 | loss: 2.82186 - acc: 0.3030 -- iter: 0512/5208
Training Step: 2510 | total loss: 2.85561 | time: 0.620s
| Adam | epoch: 229 | loss: 2.85561 - acc: 0.3043 -- iter: 1024/5208
Training Step: 2511 | total loss: 2.91882 | time: 0.901s
| Adam | epoch: 229 | loss: 2.91882 - acc: 0.2979 -- iter: 1536/5208
Training Step: 2512 | total loss: 3.45572 | time: 1.218s
| Adam | epoch: 229 | loss: 3.45572 - acc: 0.2945 -- iter: 2048/5208
Training Step: 2513 | total loss: 3.42554 | time: 1.536s
| Adam | epoch: 229 | loss: 3.42554 - acc: 0.2945 -- iter: 2560/5208
Training Step: 2514 | total loss: 3.39748 | time: 1.808s
| Adam | epoch: 229 | loss: 3.39748 - acc: 0.2959 -- iter: 3072/5208
Training Step: 2515 | total loss: 3.34346 | time: 2.110s
| Adam | epoch: 229 | loss: 3.34346 - acc: 0.2964 -- iter: 3584/5208
Training Step: 2516 | total loss: 3.33339 | time: 2.406s
| Adam | epoch: 229 | loss: 3.33339 - acc: 0.2959 -- iter: 4096/5208
Training Step: 2517 | total loss: 3.34270 | time: 2.727s
| Adam | epoch: 229 | loss: 3.34270 - acc: 0.2917 -- iter: 4608/5208
Training Step: 2518 | total loss: 3.26071 | time: 2.993s
| Adam | epoch: 229 | loss: 3.26071 - acc: 0.2930 -- iter: 5120/5208
Training Step: 2519 | total loss: 3.20695 | time: 3.236s
| Adam | epoch: 229 | loss: 3.20695 - acc: 0.2932 -- iter: 5208/5208
--
Training Step: 2520 | total loss: 3.16235 | time: 0.282s
| Adam | epoch: 230 | loss: 3.16235 - acc: 0.2945 -- iter: 0512/5208
Training Step: 2521 | total loss: 3.11801 | time: 0.579s
| Adam | epoch: 230 | loss: 3.11801 - acc: 0.2946 -- iter: 1024/5208
Training Step: 2522 | total loss: 3.08847 | time: 0.847s
| Adam | epoch: 230 | loss: 3.08847 - acc: 0.2954 -- iter: 1536/5208
Training Step: 2523 | total loss: 3.03308 | time: 1.125s
| Adam | epoch: 230 | loss: 3.03308 - acc: 0.2970 -- iter: 2048/5208
Training Step: 2524 | total loss: 3.17434 | time: 1.429s
| Adam | epoch: 230 | loss: 3.17434 - acc: 0.2934 -- iter: 2560/5208
Training Step: 2525 | total loss: 3.13225 | time: 1.737s
| Adam | epoch: 230 | loss: 3.13225 - acc: 0.2983 -- iter: 3072/5208
Training Step: 2526 | total loss: 3.05922 | time: 2.025s
| Adam | epoch: 230 | loss: 3.05922 - acc: 0.2952 -- iter: 3584/5208
Training Step: 2527 | total loss: 3.05149 | time: 2.323s
| Adam | epoch: 230 | loss: 3.05149 - acc: 0.2952 -- iter: 4096/5208
Training Step: 2528 | total loss: 3.03954 | time: 2.639s
| Adam | epoch: 230 | loss: 3.03954 - acc: 0.2938 -- iter: 4608/5208
Training Step: 2529 | total loss: 3.04451 | time: 2.921s
| Adam | epoch: 230 | loss: 3.04451 - acc: 0.2955 -- iter: 5120/5208
Training Step: 2530 | total loss: 2.98805 | time: 3.225s
| Adam | epoch: 230 | loss: 2.98805 - acc: 0.2952 -- iter: 5208/5208
--
Training Step: 2531 | total loss: 2.98368 | time: 0.228s
| Adam | epoch: 231 | loss: 2.98368 - acc: 0.2932 -- iter: 0512/5208
```

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Training Step: 2532 | total loss: 3.04687 | time: 0.477s
| Adam | epoch: 231 | loss: 3.04687 - acc: 0.2957 -- iter: 1024/5208
Training Step: 2533 | total loss: 3.09868 | time: 0.783s
| Adam | epoch: 231 | loss: 3.09868 - acc: 0.2991 -- iter: 1536/5208
Training Step: 2534 | total loss: 3.13166 | time: 1.074s
| Adam | epoch: 231 | loss: 3.13166 - acc: 0.2950 -- iter: 2048/5208
Training Step: 2535 | total loss: 3.20294 | time: 1.377s
| Adam | epoch: 231 | loss: 3.20294 - acc: 0.2952 -- iter: 2560/5208
Training Step: 2536 | total loss: 3.29146 | time: 1.667s
| Adam | epoch: 231 | loss: 3.29146 - acc: 0.2932 -- iter: 3072/5208
Training Step: 2537 | total loss: 3.27825 | time: 1.990s
| Adam | epoch: 231 | loss: 3.27825 - acc: 0.2953 -- iter: 3584/5208
Training Step: 2538 | total loss: 3.23201 | time: 2.295s
| Adam | epoch: 231 | loss: 3.23201 - acc: 0.2976 -- iter: 4096/5208
Training Step: 2539 | total loss: 3.19588 | time: 2.592s
| Adam | epoch: 231 | loss: 3.19588 - acc: 0.2962 -- iter: 4608/5208
Training Step: 2540 | total loss: 3.16889 | time: 2.899s
| Adam | epoch: 231 | loss: 3.16889 - acc: 0.2949 -- iter: 5120/5208
Training Step: 2541 | total loss: 3.17398 | time: 3.199s
| Adam | epoch: 231 | loss: 3.17398 - acc: 0.2945 -- iter: 5208/5208
--
Training Step: 2542 | total loss: 3.17058 | time: 0.318s
| Adam | epoch: 232 | loss: 3.17058 - acc: 0.2902 -- iter: 0512/5208
Training Step: 2543 | total loss: 3.14237 | time: 0.532s
| Adam | epoch: 232 | loss: 3.14237 - acc: 0.2897 -- iter: 1024/5208
Training Step: 2544 | total loss: 3.19713 | time: 0.786s
| Adam | epoch: 232 | loss: 3.19713 - acc: 0.2892 -- iter: 1536/5208
Training Step: 2545 | total loss: 3.23927 | time: 1.051s
| Adam | epoch: 232 | loss: 3.23927 - acc: 0.2909 -- iter: 2048/5208
Training Step: 2546 | total loss: 3.18387 | time: 1.361s
| Adam | epoch: 232 | loss: 3.18387 - acc: 0.2919 -- iter: 2560/5208
Training Step: 2547 | total loss: 3.18982 | time: 1.619s
| Adam | epoch: 232 | loss: 3.18982 - acc: 0.2897 -- iter: 3072/5208
Training Step: 2548 | total loss: 3.32450 | time: 1.963s
| Adam | epoch: 232 | loss: 3.32450 - acc: 0.2871 -- iter: 3584/5208
Training Step: 2549 | total loss: 3.28127 | time: 2.252s
| Adam | epoch: 232 | loss: 3.28127 - acc: 0.2845 -- iter: 4096/5208
Training Step: 2550 | total loss: 3.25171 | time: 2.596s
| Adam | epoch: 232 | loss: 3.25171 - acc: 0.2877 -- iter: 4608/5208
Training Step: 2551 | total loss: 3.22513 | time: 2.878s
| Adam | epoch: 232 | loss: 3.22513 - acc: 0.2883 -- iter: 5120/5208
Training Step: 2552 | total loss: 3.21567 | time: 3.166s
| Adam | epoch: 232 | loss: 3.21567 - acc: 0.2913 -- iter: 5208/5208
--
Training Step: 2553 | total loss: 3.19917 | time: 0.289s
| Adam | epoch: 233 | loss: 3.19917 - acc: 0.2889 -- iter: 0512/5208
Training Step: 2554 | total loss: 3.14849 | time: 0.582s
| Adam | epoch: 233 | loss: 3.14849 - acc: 0.2916 -- iter: 1024/5208
Training Step: 2555 | total loss: 3.11538 | time: 0.807s
| Adam | epoch: 233 | loss: 3.11538 - acc: 0.2910 -- iter: 1536/5208
Training Step: 2556 | total loss: 3.19497 | time: 1.077s
| Adam | epoch: 233 | loss: 3.19497 - acc: 0.2846 -- iter: 2048/5208
Training Step: 2557 | total loss: 3.25049 | time: 1.371s
| Adam | epoch: 233 | loss: 3.25049 - acc: 0.2812 -- iter: 2560/5208
Training Step: 2558 | total loss: 3.23129 | time: 1.631s
| Adam | epoch: 233 | loss: 3.23129 - acc: 0.2790 -- iter: 3072/5208
Training Step: 2559 | total loss: 3.20833 | time: 1.904s
| Adam | epoch: 233 | loss: 3.20833 - acc: 0.2787 -- iter: 3584/5208
Training Step: 2560 | total loss: 3.20959 | time: 2.199s
| Adam | epoch: 233 | loss: 3.20959 - acc: 0.2799 -- iter: 4096/5208
Training Step: 2561 | total loss: 3.14312 | time: 2.499s
| Adam | epoch: 233 | loss: 3.14312 - acc: 0.2810 -- iter: 4608/5208
Training Step: 2562 | total loss: 3.11390 | time: 2.825s
| Adam | epoch: 233 | loss: 3.11390 - acc: 0.2838 -- iter: 5120/5208
Training Step: 2563 | total loss: 3.07420 | time: 3.097s
| Adam | epoch: 233 | loss: 3.07420 - acc: 0.2810 -- iter: 5208/5208
--
Training Step: 2564 | total loss: 3.06444 | time: 0.293s
| Adam | epoch: 234 | loss: 3.06444 - acc: 0.2818 -- iter: 0512/5208
Training Step: 2565 | total loss: 3.04812 | time: 0.582s
| Adam | epoch: 234 | loss: 3.04812 - acc: 0.2784 -- iter: 1024/5208
Training Step: 2566 | total loss: 3.08861 | time: 0.853s
| Adam | epoch: 234 | loss: 3.08861 - acc: 0.2781 -- iter: 1536/5208
Training Step: 2567 | total loss: 3.03162 | time: 1.082s
| Adam | epoch: 234 | loss: 3.03162 - acc: 0.2833 -- iter: 2048/5208
Training Step: 2568 | total loss: 3.00014 | time: 1.328s
| Adam | epoch: 234 | loss: 3.00014 - acc: 0.2868 -- iter: 2560/5208
Training Step: 2569 | total loss: 2.95733 | time: 1.590s
| Adam | epoch: 234 | loss: 2.95733 - acc: 0.2899 -- iter: 3072/5208
Training Step: 2570 | total loss: 2.93785 | time: 1.873s
| Adam | epoch: 234 | loss: 2.93785 - acc: 0.2914 -- iter: 3584/5208
Training Step: 2571 | total loss: 2.98210 | time: 2.134s
| Adam | epoch: 234 | loss: 2.98210 - acc: 0.2910 -- iter: 4096/5208
```



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Training Step: 2572 | total loss: 3.19797 | time: 2.432s
| Adam | epoch: 234 | loss: 3.19797 - acc: 0.2884 -- iter: 4608/5208
Training Step: 2573 | total loss: 3.15134 | time: 2.729s
| Adam | epoch: 234 | loss: 3.15134 - acc: 0.2867 -- iter: 5120/5208
Training Step: 2574 | total loss: 3.18370 | time: 3.080s
| Adam | epoch: 234 | loss: 3.18370 - acc: 0.2887 -- iter: 5208/5208
--
Training Step: 2575 | total loss: 3.18295 | time: 0.276s
| Adam | epoch: 235 | loss: 3.18295 - acc: 0.2933 -- iter: 0512/5208
Training Step: 2576 | total loss: 3.13436 | time: 0.580s
| Adam | epoch: 235 | loss: 3.13436 - acc: 0.2962 -- iter: 1024/5208
Training Step: 2577 | total loss: 3.14975 | time: 0.886s
| Adam | epoch: 235 | loss: 3.14975 - acc: 0.2931 -- iter: 1536/5208
Training Step: 2578 | total loss: 3.12347 | time: 1.171s
| Adam | epoch: 235 | loss: 3.12347 - acc: 0.2925 -- iter: 2048/5208
Training Step: 2579 | total loss: 3.09922 | time: 1.417s
| Adam | epoch: 235 | loss: 3.09922 - acc: 0.2908 -- iter: 2560/5208
Training Step: 2580 | total loss: 2.97681 | time: 1.667s
| Adam | epoch: 235 | loss: 2.97681 - acc: 0.2856 -- iter: 3072/5208
Training Step: 2581 | total loss: 2.84585 | time: 1.932s
| Adam | epoch: 235 | loss: 2.84585 - acc: 0.2786 -- iter: 3584/5208
Training Step: 2582 | total loss: 2.83933 | time: 2.272s
| Adam | epoch: 235 | loss: 2.83933 - acc: 0.2797 -- iter: 4096/5208
Training Step: 2583 | total loss: 2.82643 | time: 2.521s
| Adam | epoch: 235 | loss: 2.82643 - acc: 0.2788 -- iter: 4608/5208
Training Step: 2584 | total loss: 2.89548 | time: 2.820s
| Adam | epoch: 235 | loss: 2.89548 - acc: 0.2787 -- iter: 5120/5208
Training Step: 2585 | total loss: 2.91939 | time: 3.110s
| Adam | epoch: 235 | loss: 2.91939 - acc: 0.2827 -- iter: 5208/5208
--
Training Step: 2586 | total loss: 2.93544 | time: 0.315s
| Adam | epoch: 236 | loss: 2.93544 - acc: 0.2823 -- iter: 0512/5208
Training Step: 2587 | total loss: 2.98402 | time: 0.598s
| Adam | epoch: 236 | loss: 2.98402 - acc: 0.2828 -- iter: 1024/5208
Training Step: 2588 | total loss: 2.99155 | time: 0.906s
| Adam | epoch: 236 | loss: 2.99155 - acc: 0.2873 -- iter: 1536/5208
Training Step: 2589 | total loss: 2.99699 | time: 1.218s
| Adam | epoch: 236 | loss: 2.99699 - acc: 0.2850 -- iter: 2048/5208
Training Step: 2590 | total loss: 3.01376 | time: 1.510s
| Adam | epoch: 236 | loss: 3.01376 - acc: 0.2830 -- iter: 2560/5208
Training Step: 2591 | total loss: 2.95535 | time: 1.745s
| Adam | epoch: 236 | loss: 2.95535 - acc: 0.2852 -- iter: 3072/5208
Training Step: 2592 | total loss: 2.90112 | time: 1.987s
| Adam | epoch: 236 | loss: 2.90112 - acc: 0.2817 -- iter: 3584/5208
Training Step: 2593 | total loss: 2.85266 | time: 2.257s
| Adam | epoch: 236 | loss: 2.85266 - acc: 0.2842 -- iter: 4096/5208
Training Step: 2594 | total loss: 2.82921 | time: 2.554s
| Adam | epoch: 236 | loss: 2.82921 - acc: 0.2855 -- iter: 4608/5208
Training Step: 2595 | total loss: 2.81240 | time: 2.809s
| Adam | epoch: 236 | loss: 2.81240 - acc: 0.2854 -- iter: 5120/5208
Training Step: 2596 | total loss: 3.16790 | time: 3.087s
| Adam | epoch: 236 | loss: 3.16790 - acc: 0.2836 -- iter: 5208/5208
--
Training Step: 2597 | total loss: 3.13115 | time: 0.282s
| Adam | epoch: 237 | loss: 3.13115 - acc: 0.2848 -- iter: 0512/5208
Training Step: 2598 | total loss: 3.08280 | time: 0.590s
| Adam | epoch: 237 | loss: 3.08280 - acc: 0.2870 -- iter: 1024/5208
Training Step: 2599 | total loss: 3.09169 | time: 0.885s
| Adam | epoch: 237 | loss: 3.09169 - acc: 0.2881 -- iter: 1536/5208
Training Step: 2600 | total loss: 3.11888 | time: 1.181s
| Adam | epoch: 237 | loss: 3.11888 - acc: 0.2869 -- iter: 2048/5208
Training Step: 2601 | total loss: 3.13006 | time: 1.464s
| Adam | epoch: 237 | loss: 3.13006 - acc: 0.2861 -- iter: 2560/5208
Training Step: 2602 | total loss: 3.12465 | time: 1.776s
| Adam | epoch: 237 | loss: 3.12465 - acc: 0.2888 -- iter: 3072/5208
Training Step: 2603 | total loss: 3.11601 | time: 1.996s
| Adam | epoch: 237 | loss: 3.11601 - acc: 0.2903 -- iter: 3584/5208
Training Step: 2604 | total loss: 3.07597 | time: 2.260s
| Adam | epoch: 237 | loss: 3.07597 - acc: 0.2909 -- iter: 4096/5208
Training Step: 2605 | total loss: 3.02247 | time: 2.521s
| Adam | epoch: 237 | loss: 3.02247 - acc: 0.2913 -- iter: 4608/5208
Training Step: 2606 | total loss: 2.96506 | time: 2.789s
| Adam | epoch: 237 | loss: 2.96506 - acc: 0.2909 -- iter: 5120/5208
Training Step: 2607 | total loss: 2.94782 | time: 3.076s
| Adam | epoch: 237 | loss: 2.94782 - acc: 0.2909 -- iter: 5208/5208
--
Training Step: 2608 | total loss: 3.23046 | time: 0.285s
| Adam | epoch: 238 | loss: 3.23046 - acc: 0.2888 -- iter: 0512/5208
Training Step: 2609 | total loss: 3.21483 | time: 0.574s
| Adam | epoch: 238 | loss: 3.21483 - acc: 0.2909 -- iter: 1024/5208
Training Step: 2610 | total loss: 3.15546 | time: 0.892s
| Adam | epoch: 238 | loss: 3.15546 - acc: 0.2892 -- iter: 1536/5208
Training Step: 2611 | total loss: 3.14150 | time: 1.220s
```

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| Adam | epoch: 238 | loss: 3.14150 - acc: 0.2900 -- iter: 2048/5208
Training Step: 2612 | total loss: 3.14807 | time: 1.522s
| Adam | epoch: 238 | loss: 3.14807 - acc: 0.2899 -- iter: 2560/5208
Training Step: 2613 | total loss: 3.10242 | time: 1.808s
| Adam | epoch: 238 | loss: 3.10242 - acc: 0.2919 -- iter: 3072/5208
Training Step: 2614 | total loss: 3.16907 | time: 2.128s
| Adam | epoch: 238 | loss: 3.16907 - acc: 0.2944 -- iter: 3584/5208
Training Step: 2615 | total loss: 3.13884 | time: 2.347s
| Adam | epoch: 238 | loss: 3.13884 - acc: 0.2952 -- iter: 4096/5208
Training Step: 2616 | total loss: 3.05174 | time: 2.602s
| Adam | epoch: 238 | loss: 3.05174 - acc: 0.2930 -- iter: 4608/5208
Training Step: 2617 | total loss: 2.95975 | time: 2.889s
| Adam | epoch: 238 | loss: 2.95975 - acc: 0.2944 -- iter: 5120/5208
Training Step: 2618 | total loss: 2.92083 | time: 3.175s
| Adam | epoch: 238 | loss: 2.92083 - acc: 0.2964 -- iter: 5208/5208
--
Training Step: 2619 | total loss: 2.90959 | time: 0.267s
| Adam | epoch: 239 | loss: 2.90959 - acc: 0.2962 -- iter: 0512/5208
Training Step: 2620 | total loss: 3.06708 | time: 0.561s
| Adam | epoch: 239 | loss: 3.06708 - acc: 0.2941 -- iter: 1024/5208
Training Step: 2621 | total loss: 3.05613 | time: 0.859s
| Adam | epoch: 239 | loss: 3.05613 - acc: 0.2921 -- iter: 1536/5208
Training Step: 2622 | total loss: 3.03656 | time: 1.183s
| Adam | epoch: 239 | loss: 3.03656 - acc: 0.2937 -- iter: 2048/5208
Training Step: 2623 | total loss: 2.98181 | time: 1.492s
| Adam | epoch: 239 | loss: 2.98181 - acc: 0.2938 -- iter: 2560/5208
Training Step: 2624 | total loss: 3.00029 | time: 1.828s
| Adam | epoch: 239 | loss: 3.00029 - acc: 0.2920 -- iter: 3072/5208
Training Step: 2625 | total loss: 2.97199 | time: 2.118s
| Adam | epoch: 239 | loss: 2.97199 - acc: 0.2933 -- iter: 3584/5208
Training Step: 2626 | total loss: 3.00291 | time: 2.406s
| Adam | epoch: 239 | loss: 3.00291 - acc: 0.2930 -- iter: 4096/5208
Training Step: 2627 | total loss: 3.01268 | time: 2.665s
| Adam | epoch: 239 | loss: 3.01268 - acc: 0.2938 -- iter: 4608/5208
Training Step: 2628 | total loss: 3.01188 | time: 2.926s
| Adam | epoch: 239 | loss: 3.01188 - acc: 0.2985 -- iter: 5120/5208
Training Step: 2629 | total loss: 2.99070 | time: 3.195s
| Adam | epoch: 239 | loss: 2.99070 - acc: 0.2982 -- iter: 5208/5208
--
Training Step: 2630 | total loss: 2.95013 | time: 0.325s
| Adam | epoch: 240 | loss: 2.95013 - acc: 0.2991 -- iter: 0512/5208
Training Step: 2631 | total loss: 2.97455 | time: 0.577s
| Adam | epoch: 240 | loss: 2.97455 - acc: 0.2977 -- iter: 1024/5208
Training Step: 2632 | total loss: 2.95045 | time: 0.899s
| Adam | epoch: 240 | loss: 2.95045 - acc: 0.2972 -- iter: 1536/5208
Training Step: 2633 | total loss: 2.95858 | time: 1.191s
| Adam | epoch: 240 | loss: 2.95858 - acc: 0.2985 -- iter: 2048/5208
Training Step: 2634 | total loss: 2.93116 | time: 1.494s
| Adam | epoch: 240 | loss: 2.93116 - acc: 0.2984 -- iter: 2560/5208
Training Step: 2635 | total loss: 2.91846 | time: 1.785s
| Adam | epoch: 240 | loss: 2.91846 - acc: 0.2972 -- iter: 3072/5208
Training Step: 2636 | total loss: 2.97436 | time: 2.094s
| Adam | epoch: 240 | loss: 2.97436 - acc: 0.2974 -- iter: 3584/5208
Training Step: 2637 | total loss: 2.98168 | time: 2.401s
| Adam | epoch: 240 | loss: 2.98168 - acc: 0.2975 -- iter: 4096/5208
Training Step: 2638 | total loss: 2.91649 | time: 2.703s
| Adam | epoch: 240 | loss: 2.91649 - acc: 0.2981 -- iter: 4608/5208
Training Step: 2639 | total loss: 2.93634 | time: 2.931s
| Adam | epoch: 240 | loss: 2.93634 - acc: 0.2979 -- iter: 5120/5208
Training Step: 2640 | total loss: 2.84209 | time: 3.176s
| Adam | epoch: 240 | loss: 2.84209 - acc: 0.2943 -- iter: 5208/5208
--
Training Step: 2641 | total loss: 2.74336 | time: 0.265s
| Adam | epoch: 241 | loss: 2.74336 - acc: 0.2944 -- iter: 0512/5208
Training Step: 2642 | total loss: 2.74651 | time: 0.552s
| Adam | epoch: 241 | loss: 2.74651 - acc: 0.2958 -- iter: 1024/5208
Training Step: 2643 | total loss: 2.77272 | time: 0.838s
| Adam | epoch: 241 | loss: 2.77272 - acc: 0.2942 -- iter: 1536/5208
Training Step: 2644 | total loss: 3.00322 | time: 1.137s
| Adam | epoch: 241 | loss: 3.00322 - acc: 0.2948 -- iter: 2048/5208
Training Step: 2645 | total loss: 2.99947 | time: 1.451s
| Adam | epoch: 241 | loss: 2.99947 - acc: 0.2962 -- iter: 2560/5208
Training Step: 2646 | total loss: 2.97859 | time: 1.776s
| Adam | epoch: 241 | loss: 2.97859 - acc: 0.2961 -- iter: 3072/5208
Training Step: 2647 | total loss: 2.96792 | time: 2.056s
| Adam | epoch: 241 | loss: 2.96792 - acc: 0.2985 -- iter: 3584/5208
Training Step: 2648 | total loss: 2.95922 | time: 2.354s
| Adam | epoch: 241 | loss: 2.95922 - acc: 0.2954 -- iter: 4096/5208
Training Step: 2649 | total loss: 2.97147 | time: 2.658s
| Adam | epoch: 241 | loss: 2.97147 - acc: 0.2961 -- iter: 4608/5208
Training Step: 2650 | total loss: 2.95603 | time: 2.980s
| Adam | epoch: 241 | loss: 2.95603 - acc: 0.2945 -- iter: 5120/5208
Training Step: 2651 | total loss: 2.93973 | time: 3.192s
```

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| Adam | epoch: 241 | loss: 2.93973 - acc: 0.2912 -- iter: 5208/5208
--
Training Step: 2652 | total loss: 2.96339 | time: 0.249s
| Adam | epoch: 242 | loss: 2.96339 - acc: 0.2802 -- iter: 0512/5208
Training Step: 2653 | total loss: 2.97195 | time: 0.569s
| Adam | epoch: 242 | loss: 2.97195 - acc: 0.2693 -- iter: 1024/5208
Training Step: 2654 | total loss: 2.93938 | time: 0.858s
| Adam | epoch: 242 | loss: 2.93938 - acc: 0.2716 -- iter: 1536/5208
Training Step: 2655 | total loss: 2.95276 | time: 1.137s
| Adam | epoch: 242 | loss: 2.95276 - acc: 0.2747 -- iter: 2048/5208
Training Step: 2656 | total loss: 3.17449 | time: 1.430s
| Adam | epoch: 242 | loss: 3.17449 - acc: 0.2775 -- iter: 2560/5208
Training Step: 2657 | total loss: 3.18520 | time: 1.771s
| Adam | epoch: 242 | loss: 3.18520 - acc: 0.2777 -- iter: 3072/5208
Training Step: 2658 | total loss: 3.11807 | time: 2.081s
| Adam | epoch: 242 | loss: 3.11807 - acc: 0.2755 -- iter: 3584/5208
Training Step: 2659 | total loss: 3.09382 | time: 2.383s
| Adam | epoch: 242 | loss: 3.09382 - acc: 0.2759 -- iter: 4096/5208
Training Step: 2660 | total loss: 3.06207 | time: 2.702s
| Adam | epoch: 242 | loss: 3.06207 - acc: 0.2784 -- iter: 4608/5208
Training Step: 2661 | total loss: 3.05147 | time: 3.002s
| Adam | epoch: 242 | loss: 3.05147 - acc: 0.2816 -- iter: 5120/5208
Training Step: 2662 | total loss: 3.02027 | time: 3.327s
| Adam | epoch: 242 | loss: 3.02027 - acc: 0.2826 -- iter: 5208/5208
--
Training Step: 2663 | total loss: 3.01546 | time: 0.212s
| Adam | epoch: 243 | loss: 3.01546 - acc: 0.2846 -- iter: 0512/5208
Training Step: 2664 | total loss: 3.05009 | time: 0.470s
| Adam | epoch: 243 | loss: 3.05009 - acc: 0.2891 -- iter: 1024/5208
Training Step: 2665 | total loss: 3.08082 | time: 0.766s
| Adam | epoch: 243 | loss: 3.08082 - acc: 0.2931 -- iter: 1536/5208
Training Step: 2666 | total loss: 3.10398 | time: 1.042s
| Adam | epoch: 243 | loss: 3.10398 - acc: 0.2927 -- iter: 2048/5208
Training Step: 2667 | total loss: 3.05217 | time: 1.292s
| Adam | epoch: 243 | loss: 3.05217 - acc: 0.2920 -- iter: 2560/5208
Training Step: 2668 | total loss: 3.17127 | time: 1.575s
| Adam | epoch: 243 | loss: 3.17127 - acc: 0.2868 -- iter: 3072/5208
Training Step: 2669 | total loss: 3.11044 | time: 1.857s
| Adam | epoch: 243 | loss: 3.11044 - acc: 0.2890 -- iter: 3584/5208
Training Step: 2670 | total loss: 3.09175 | time: 2.163s
| Adam | epoch: 243 | loss: 3.09175 - acc: 0.2862 -- iter: 4096/5208
Training Step: 2671 | total loss: 3.07721 | time: 2.472s
| Adam | epoch: 243 | loss: 3.07721 - acc: 0.2854 -- iter: 4608/5208
Training Step: 2672 | total loss: 3.03943 | time: 2.769s
| Adam | epoch: 243 | loss: 3.03943 - acc: 0.2877 -- iter: 5120/5208
Training Step: 2673 | total loss: 3.05622 | time: 3.081s
| Adam | epoch: 243 | loss: 3.05622 - acc: 0.2876 -- iter: 5208/5208
--
Training Step: 2674 | total loss: 3.02062 | time: 0.302s
| Adam | epoch: 244 | loss: 3.02062 - acc: 0.2872 -- iter: 0512/5208
Training Step: 2675 | total loss: 3.01919 | time: 0.533s
| Adam | epoch: 244 | loss: 3.01919 - acc: 0.2862 -- iter: 1024/5208
Training Step: 2676 | total loss: 3.05747 | time: 0.767s
| Adam | epoch: 244 | loss: 3.05747 - acc: 0.2837 -- iter: 1536/5208
Training Step: 2677 | total loss: 3.07119 | time: 1.081s
| Adam | epoch: 244 | loss: 3.07119 - acc: 0.2837 -- iter: 2048/5208
Training Step: 2678 | total loss: 3.13177 | time: 1.322s
| Adam | epoch: 244 | loss: 3.13177 - acc: 0.2856 -- iter: 2560/5208
Training Step: 2679 | total loss: 3.10588 | time: 1.601s
| Adam | epoch: 244 | loss: 3.10588 - acc: 0.2870 -- iter: 3072/5208
Training Step: 2680 | total loss: 3.32205 | time: 1.895s
| Adam | epoch: 244 | loss: 3.32205 - acc: 0.2858 -- iter: 3584/5208
Training Step: 2681 | total loss: 3.28324 | time: 2.187s
| Adam | epoch: 244 | loss: 3.28324 - acc: 0.2836 -- iter: 4096/5208
Training Step: 2682 | total loss: 3.20653 | time: 2.469s
| Adam | epoch: 244 | loss: 3.20653 - acc: 0.2892 -- iter: 4608/5208
Training Step: 2683 | total loss: 3.12057 | time: 2.799s
| Adam | epoch: 244 | loss: 3.12057 - acc: 0.2880 -- iter: 5120/5208
Training Step: 2684 | total loss: 3.16048 | time: 3.099s
| Adam | epoch: 244 | loss: 3.16048 - acc: 0.2889 -- iter: 5208/5208
--
Training Step: 2685 | total loss: 3.14320 | time: 0.295s
| Adam | epoch: 245 | loss: 3.14320 - acc: 0.2897 -- iter: 0512/5208
Training Step: 2686 | total loss: 3.11787 | time: 0.591s
| Adam | epoch: 245 | loss: 3.11787 - acc: 0.2896 -- iter: 1024/5208
Training Step: 2687 | total loss: 3.13346 | time: 0.809s
| Adam | epoch: 245 | loss: 3.13346 - acc: 0.2923 -- iter: 1536/5208
Training Step: 2688 | total loss: 3.12531 | time: 1.063s
| Adam | epoch: 245 | loss: 3.12531 - acc: 0.2881 -- iter: 2048/5208
Training Step: 2689 | total loss: 3.11694 | time: 1.336s
| Adam | epoch: 245 | loss: 3.11694 - acc: 0.2820 -- iter: 2560/5208
Training Step: 2690 | total loss: 3.03812 | time: 1.638s
| Adam | epoch: 245 | loss: 3.03812 - acc: 0.2790 -- iter: 3072/5208
```

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Training Step: 2691 | total loss: 3.02036 | time: 1.911s
| Adam | epoch: 245 | loss: 3.02036 - acc: 0.2845 -- iter: 3584/5208
Training Step: 2692 | total loss: 3.12307 | time: 2.202s
| Adam | epoch: 245 | loss: 3.12307 - acc: 0.2840 -- iter: 4096/5208
Training Step: 2693 | total loss: 3.06562 | time: 2.483s
| Adam | epoch: 245 | loss: 3.06562 - acc: 0.2837 -- iter: 4608/5208
Training Step: 2694 | total loss: 3.03603 | time: 2.780s
| Adam | epoch: 245 | loss: 3.03603 - acc: 0.2852 -- iter: 5120/5208
Training Step: 2695 | total loss: 3.03836 | time: 3.094s
| Adam | epoch: 245 | loss: 3.03836 - acc: 0.2881 -- iter: 5208/5208
--
Training Step: 2696 | total loss: 2.98794 | time: 0.302s
| Adam | epoch: 246 | loss: 2.98794 - acc: 0.2927 -- iter: 0512/5208
Training Step: 2697 | total loss: 2.97855 | time: 0.595s
| Adam | epoch: 246 | loss: 2.97855 - acc: 0.2963 -- iter: 1024/5208
Training Step: 2698 | total loss: 2.94414 | time: 0.880s
| Adam | epoch: 246 | loss: 2.94414 - acc: 0.2971 -- iter: 1536/5208
Training Step: 2699 | total loss: 2.92835 | time: 1.117s
| Adam | epoch: 246 | loss: 2.92835 - acc: 0.2973 -- iter: 2048/5208
Training Step: 2700 | total loss: 2.91587 | time: 1.372s
| Adam | epoch: 246 | loss: 2.91587 - acc: 0.2982 -- iter: 2560/5208
Training Step: 2701 | total loss: 2.90146 | time: 1.686s
| Adam | epoch: 246 | loss: 2.90146 - acc: 0.3014 -- iter: 3072/5208
Training Step: 2702 | total loss: 2.95638 | time: 1.930s
| Adam | epoch: 246 | loss: 2.95638 - acc: 0.3031 -- iter: 3584/5208
Training Step: 2703 | total loss: 2.95115 | time: 2.241s
| Adam | epoch: 246 | loss: 2.95115 - acc: 0.2993 -- iter: 4096/5208
Training Step: 2704 | total loss: 3.36168 | time: 2.524s
| Adam | epoch: 246 | loss: 3.36168 - acc: 0.2967 -- iter: 4608/5208
Training Step: 2705 | total loss: 3.28474 | time: 2.831s
| Adam | epoch: 246 | loss: 3.28474 - acc: 0.2960 -- iter: 5120/5208
Training Step: 2706 | total loss: 3.25631 | time: 3.111s
| Adam | epoch: 246 | loss: 3.25631 - acc: 0.2929 -- iter: 5208/5208
--
Training Step: 2707 | total loss: 3.24276 | time: 0.279s
| Adam | epoch: 247 | loss: 3.24276 - acc: 0.2937 -- iter: 0512/5208
Training Step: 2708 | total loss: 3.22367 | time: 0.606s
| Adam | epoch: 247 | loss: 3.22367 - acc: 0.2946 -- iter: 1024/5208
Training Step: 2709 | total loss: 3.19414 | time: 0.871s
| Adam | epoch: 247 | loss: 3.19414 - acc: 0.2939 -- iter: 1536/5208
Training Step: 2710 | total loss: 3.13316 | time: 1.180s
| Adam | epoch: 247 | loss: 3.13316 - acc: 0.2938 -- iter: 2048/5208
Training Step: 2711 | total loss: 3.03407 | time: 1.384s
| Adam | epoch: 247 | loss: 3.03407 - acc: 0.2956 -- iter: 2560/5208
Training Step: 2712 | total loss: 3.08249 | time: 1.644s
| Adam | epoch: 247 | loss: 3.08249 - acc: 0.2956 -- iter: 3072/5208
Training Step: 2713 | total loss: 3.11599 | time: 1.907s
| Adam | epoch: 247 | loss: 3.11599 - acc: 0.2945 -- iter: 3584/5208
Training Step: 2714 | total loss: 3.13852 | time: 2.180s
| Adam | epoch: 247 | loss: 3.13852 - acc: 0.2953 -- iter: 4096/5208
Training Step: 2715 | total loss: 3.14511 | time: 2.458s
| Adam | epoch: 247 | loss: 3.14511 - acc: 0.2955 -- iter: 4608/5208
Training Step: 2716 | total loss: 3.14962 | time: 2.765s
| Adam | epoch: 247 | loss: 3.14962 - acc: 0.2958 -- iter: 5120/5208
Training Step: 2717 | total loss: 3.10506 | time: 3.061s
| Adam | epoch: 247 | loss: 3.10506 - acc: 0.2967 -- iter: 5208/5208
--
Training Step: 2718 | total loss: 3.06069 | time: 0.292s
| Adam | epoch: 248 | loss: 3.06069 - acc: 0.2994 -- iter: 0512/5208
Training Step: 2719 | total loss: 3.04884 | time: 0.594s
| Adam | epoch: 248 | loss: 3.04884 - acc: 0.3021 -- iter: 1024/5208
Training Step: 2720 | total loss: 3.04595 | time: 0.879s
| Adam | epoch: 248 | loss: 3.04595 - acc: 0.3010 -- iter: 1536/5208
Training Step: 2721 | total loss: 3.03494 | time: 1.207s
| Adam | epoch: 248 | loss: 3.03494 - acc: 0.2967 -- iter: 2048/5208
Training Step: 2722 | total loss: 3.06351 | time: 1.507s
| Adam | epoch: 248 | loss: 3.06351 - acc: 0.2961 -- iter: 2560/5208
Training Step: 2723 | total loss: 3.04479 | time: 1.752s
| Adam | epoch: 248 | loss: 3.04479 - acc: 0.2946 -- iter: 3072/5208
Training Step: 2724 | total loss: 3.05563 | time: 1.999s
| Adam | epoch: 248 | loss: 3.05563 - acc: 0.2970 -- iter: 3584/5208
Training Step: 2725 | total loss: 3.05299 | time: 2.305s
| Adam | epoch: 248 | loss: 3.05299 - acc: 0.2957 -- iter: 4096/5208
Training Step: 2726 | total loss: 3.00253 | time: 2.578s
| Adam | epoch: 248 | loss: 3.00253 - acc: 0.2984 -- iter: 4608/5208
Training Step: 2727 | total loss: 2.98178 | time: 2.840s
| Adam | epoch: 248 | loss: 2.98178 - acc: 0.2994 -- iter: 5120/5208
Training Step: 2728 | total loss: 3.32891 | time: 3.153s
| Adam | epoch: 248 | loss: 3.32891 - acc: 0.2985 -- iter: 5208/5208
--
Training Step: 2729 | total loss: 3.28890 | time: 0.320s
| Adam | epoch: 249 | loss: 3.28890 - acc: 0.2968 -- iter: 0512/5208
Training Step: 2730 | total loss: 3.19713 | time: 0.596s
```



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| Adam | epoch: 249 | loss: 3.19713 - acc: 0.2988 -- iter: 1024/5208
Training Step: 2731 | total loss: 3.20349 | time: 0.890s
| Adam | epoch: 249 | loss: 3.20349 - acc: 0.2958 -- iter: 1536/5208
Training Step: 2732 | total loss: 3.18207 | time: 1.204s
| Adam | epoch: 249 | loss: 3.18207 - acc: 0.2944 -- iter: 2048/5208
Training Step: 2733 | total loss: 3.17651 | time: 1.524s
| Adam | epoch: 249 | loss: 3.17651 - acc: 0.2952 -- iter: 2560/5208
Training Step: 2734 | total loss: 3.11565 | time: 1.794s
| Adam | epoch: 249 | loss: 3.11565 - acc: 0.2960 -- iter: 3072/5208
Training Step: 2735 | total loss: 3.10262 | time: 2.025s
| Adam | epoch: 249 | loss: 3.10262 - acc: 0.2978 -- iter: 3584/5208
Training Step: 2736 | total loss: 3.02687 | time: 2.227s
| Adam | epoch: 249 | loss: 3.02687 - acc: 0.2908 -- iter: 4096/5208
Training Step: 2737 | total loss: 2.95595 | time: 2.542s
| Adam | epoch: 249 | loss: 2.95595 - acc: 0.2901 -- iter: 4608/5208
Training Step: 2738 | total loss: 2.98235 | time: 2.785s
| Adam | epoch: 249 | loss: 2.98235 - acc: 0.2886 -- iter: 5120/5208
Training Step: 2739 | total loss: 2.96642 | time: 3.076s
| Adam | epoch: 249 | loss: 2.96642 - acc: 0.2906 -- iter: 5208/5208
--
Training Step: 2740 | total loss: 3.32514 | time: 0.270s
| Adam | epoch: 250 | loss: 3.32514 - acc: 0.2924 -- iter: 0512/5208
Training Step: 2741 | total loss: 3.21309 | time: 0.588s
| Adam | epoch: 250 | loss: 3.21309 - acc: 0.2899 -- iter: 1024/5208
Training Step: 2742 | total loss: 3.17833 | time: 0.862s
| Adam | epoch: 250 | loss: 3.17833 - acc: 0.2891 -- iter: 1536/5208
Training Step: 2743 | total loss: 3.08302 | time: 1.134s
| Adam | epoch: 250 | loss: 3.08302 - acc: 0.2902 -- iter: 2048/5208
Training Step: 2744 | total loss: 3.10860 | time: 1.436s
| Adam | epoch: 250 | loss: 3.10860 - acc: 0.2911 -- iter: 2560/5208
Training Step: 2745 | total loss: 3.12012 | time: 1.762s
| Adam | epoch: 250 | loss: 3.12012 - acc: 0.2903 -- iter: 3072/5208
Training Step: 2746 | total loss: 3.07952 | time: 2.013s
| Adam | epoch: 250 | loss: 3.07952 - acc: 0.2916 -- iter: 3584/5208
Training Step: 2747 | total loss: 3.06764 | time: 2.254s
| Adam | epoch: 250 | loss: 3.06764 - acc: 0.2940 -- iter: 4096/5208
Training Step: 2748 | total loss: 3.02834 | time: 2.526s
| Adam | epoch: 250 | loss: 3.02834 - acc: 0.2919 -- iter: 4608/5208
Training Step: 2749 | total loss: 2.97209 | time: 2.843s
| Adam | epoch: 250 | loss: 2.97209 - acc: 0.2900 -- iter: 5120/5208
Training Step: 2750 | total loss: 2.98910 | time: 3.099s
| Adam | epoch: 250 | loss: 2.98910 - acc: 0.2936 -- iter: 5208/5208
--
Training Step: 2751 | total loss: 2.95949 | time: 0.259s
| Adam | epoch: 251 | loss: 2.95949 - acc: 0.2945 -- iter: 0512/5208
Training Step: 2752 | total loss: 3.08654 | time: 0.586s
| Adam | epoch: 251 | loss: 3.08654 - acc: 0.2957 -- iter: 1024/5208
Training Step: 2753 | total loss: 3.05526 | time: 0.847s
| Adam | epoch: 251 | loss: 3.05526 - acc: 0.3017 -- iter: 1536/5208
Training Step: 2754 | total loss: 3.05918 | time: 1.143s
| Adam | epoch: 251 | loss: 3.05918 - acc: 0.3022 -- iter: 2048/5208
Training Step: 2755 | total loss: 3.00467 | time: 1.437s
| Adam | epoch: 251 | loss: 3.00467 - acc: 0.3017 -- iter: 2560/5208
Training Step: 2756 | total loss: 2.96036 | time: 1.755s
| Adam | epoch: 251 | loss: 2.96036 - acc: 0.2992 -- iter: 3072/5208
Training Step: 2757 | total loss: 2.97680 | time: 2.074s
| Adam | epoch: 251 | loss: 2.97680 - acc: 0.2984 -- iter: 3584/5208
Training Step: 2758 | total loss: 3.01017 | time: 2.385s
| Adam | epoch: 251 | loss: 3.01017 - acc: 0.2953 -- iter: 4096/5208
Training Step: 2759 | total loss: 3.03642 | time: 2.619s
| Adam | epoch: 251 | loss: 3.03642 - acc: 0.2927 -- iter: 4608/5208
Training Step: 2760 | total loss: 3.00487 | time: 2.855s
| Adam | epoch: 251 | loss: 3.00487 - acc: 0.2873 -- iter: 5120/5208
Training Step: 2761 | total loss: 2.97089 | time: 3.132s
| Adam | epoch: 251 | loss: 2.97089 - acc: 0.2893 -- iter: 5208/5208
--
Training Step: 2762 | total loss: 2.92674 | time: 0.276s
| Adam | epoch: 252 | loss: 2.92674 - acc: 0.2891 -- iter: 0512/5208
Training Step: 2763 | total loss: 2.86274 | time: 0.569s
| Adam | epoch: 252 | loss: 2.86274 - acc: 0.2902 -- iter: 1024/5208
Training Step: 2764 | total loss: 3.19306 | time: 0.846s
| Adam | epoch: 252 | loss: 3.19306 - acc: 0.2929 -- iter: 1536/5208
Training Step: 2765 | total loss: 3.16597 | time: 1.147s
| Adam | epoch: 252 | loss: 3.16597 - acc: 0.2927 -- iter: 2048/5208
Training Step: 2766 | total loss: 3.10290 | time: 1.457s
| Adam | epoch: 252 | loss: 3.10290 - acc: 0.2966 -- iter: 2560/5208
Training Step: 2767 | total loss: 3.13994 | time: 1.769s
| Adam | epoch: 252 | loss: 3.13994 - acc: 0.2929 -- iter: 3072/5208
Training Step: 2768 | total loss: 3.09075 | time: 2.024s
| Adam | epoch: 252 | loss: 3.09075 - acc: 0.2933 -- iter: 3584/5208
Training Step: 2769 | total loss: 3.06519 | time: 2.327s
| Adam | epoch: 252 | loss: 3.06519 - acc: 0.2966 -- iter: 4096/5208
Training Step: 2770 | total loss: 3.01465 | time: 2.618s
```

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| Adam | epoch: 252 | loss: 3.01465 - acc: 0.2953 -- iter: 4608/5208
Training Step: 2771 | total loss: 2.97753 | time: 2.855s
| Adam | epoch: 252 | loss: 2.97753 - acc: 0.2978 -- iter: 5120/5208
Training Step: 2772 | total loss: 2.95608 | time: 3.116s
| Adam | epoch: 252 | loss: 2.95608 - acc: 0.3009 -- iter: 5208/5208
--
Training Step: 2773 | total loss: 2.92019 | time: 0.268s
| Adam | epoch: 253 | loss: 2.92019 - acc: 0.3084 -- iter: 0512/5208
Training Step: 2774 | total loss: 2.88108 | time: 0.554s
| Adam | epoch: 253 | loss: 2.88108 - acc: 0.3070 -- iter: 1024/5208
Training Step: 2775 | total loss: 2.85648 | time: 0.838s
| Adam | epoch: 253 | loss: 2.85648 - acc: 0.3033 -- iter: 1536/5208
Training Step: 2776 | total loss: 3.08817 | time: 1.129s
| Adam | epoch: 253 | loss: 3.08817 - acc: 0.2989 -- iter: 2048/5208
Training Step: 2777 | total loss: 3.07039 | time: 1.416s
| Adam | epoch: 253 | loss: 3.07039 - acc: 0.2999 -- iter: 2560/5208
Training Step: 2778 | total loss: 2.99248 | time: 1.731s
| Adam | epoch: 253 | loss: 2.99248 - acc: 0.3033 -- iter: 3072/5208
Training Step: 2779 | total loss: 3.00309 | time: 2.014s
| Adam | epoch: 253 | loss: 3.00309 - acc: 0.3066 -- iter: 3584/5208
Training Step: 2780 | total loss: 2.98668 | time: 2.303s
| Adam | epoch: 253 | loss: 2.98668 - acc: 0.3046 -- iter: 4096/5208
Training Step: 2781 | total loss: 2.97741 | time: 2.593s
| Adam | epoch: 253 | loss: 2.97741 - acc: 0.3011 -- iter: 4608/5208
Training Step: 2782 | total loss: 2.94170 | time: 2.861s
| Adam | epoch: 253 | loss: 2.94170 - acc: 0.3015 -- iter: 5120/5208
Training Step: 2783 | total loss: 2.98710 | time: 3.101s
| Adam | epoch: 253 | loss: 2.98710 - acc: 0.3014 -- iter: 5208/5208
--
Training Step: 2784 | total loss: 2.90076 | time: 0.216s
| Adam | epoch: 254 | loss: 2.90076 - acc: 0.2974 -- iter: 0512/5208
Training Step: 2785 | total loss: 2.82357 | time: 0.530s
| Adam | epoch: 254 | loss: 2.82357 - acc: 0.2938 -- iter: 1024/5208
Training Step: 2786 | total loss: 2.86324 | time: 0.807s
| Adam | epoch: 254 | loss: 2.86324 - acc: 0.2964 -- iter: 1536/5208
Training Step: 2787 | total loss: 2.82052 | time: 1.084s
| Adam | epoch: 254 | loss: 2.82052 - acc: 0.2971 -- iter: 2048/5208
Training Step: 2788 | total loss: 2.90029 | time: 1.384s
| Adam | epoch: 254 | loss: 2.90029 - acc: 0.2965 -- iter: 2560/5208
Training Step: 2789 | total loss: 2.87768 | time: 1.673s
| Adam | epoch: 254 | loss: 2.87768 - acc: 0.2971 -- iter: 3072/5208
Training Step: 2790 | total loss: 2.89091 | time: 1.945s
| Adam | epoch: 254 | loss: 2.89091 - acc: 0.3000 -- iter: 3584/5208
Training Step: 2791 | total loss: 2.87978 | time: 2.266s
| Adam | epoch: 254 | loss: 2.87978 - acc: 0.3032 -- iter: 4096/5208
Training Step: 2792 | total loss: 2.84512 | time: 2.579s
| Adam | epoch: 254 | loss: 2.84512 - acc: 0.3002 -- iter: 4608/5208
Training Step: 2793 | total loss: 2.78956 | time: 2.867s
| Adam | epoch: 254 | loss: 2.78956 - acc: 0.2987 -- iter: 5120/5208
Training Step: 2794 | total loss: 2.76436 | time: 3.181s
| Adam | epoch: 254 | loss: 2.76436 - acc: 0.2991 -- iter: 5208/5208
--
Training Step: 2795 | total loss: 2.82980 | time: 0.243s
| Adam | epoch: 255 | loss: 2.82980 - acc: 0.3005 -- iter: 0512/5208
Training Step: 2796 | total loss: 2.82494 | time: 0.462s
| Adam | epoch: 255 | loss: 2.82494 - acc: 0.3090 -- iter: 1024/5208
Training Step: 2797 | total loss: 2.81025 | time: 0.764s
| Adam | epoch: 255 | loss: 2.81025 - acc: 0.3145 -- iter: 1536/5208
Training Step: 2798 | total loss: 2.84026 | time: 1.043s
| Adam | epoch: 255 | loss: 2.84026 - acc: 0.3086 -- iter: 2048/5208
Training Step: 2799 | total loss: 2.83340 | time: 1.346s
| Adam | epoch: 255 | loss: 2.83340 - acc: 0.3096 -- iter: 2560/5208
Training Step: 2800 | total loss: 3.06187 | time: 1.636s
| Adam | epoch: 255 | loss: 3.06187 - acc: 0.3093 -- iter: 3072/5208
Training Step: 2801 | total loss: 3.03738 | time: 1.902s
| Adam | epoch: 255 | loss: 3.03738 - acc: 0.3085 -- iter: 3584/5208
Training Step: 2802 | total loss: 3.00925 | time: 2.216s
| Adam | epoch: 255 | loss: 3.00925 - acc: 0.3085 -- iter: 4096/5208
Training Step: 2803 | total loss: 2.98225 | time: 2.540s
| Adam | epoch: 255 | loss: 2.98225 - acc: 0.3071 -- iter: 4608/5208
Training Step: 2804 | total loss: 2.96934 | time: 2.801s
| Adam | epoch: 255 | loss: 2.96934 - acc: 0.3061 -- iter: 5120/5208
Training Step: 2805 | total loss: 2.88223 | time: 3.126s
| Adam | epoch: 255 | loss: 2.88223 - acc: 0.3044 -- iter: 5208/5208
--
Training Step: 2806 | total loss: 2.88260 | time: 0.311s
| Adam | epoch: 256 | loss: 2.88260 - acc: 0.3017 -- iter: 0512/5208
Training Step: 2807 | total loss: 2.85185 | time: 0.552s
| Adam | epoch: 256 | loss: 2.85185 - acc: 0.3014 -- iter: 1024/5208
Training Step: 2808 | total loss: 2.95685 | time: 0.803s
| Adam | epoch: 256 | loss: 2.95685 - acc: 0.3019 -- iter: 1536/5208
Training Step: 2809 | total loss: 3.04457 | time: 1.123s
| Adam | epoch: 256 | loss: 3.04457 - acc: 0.3070 -- iter: 2048/5208
```



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Training Step: 2810 | total loss: 3.04642 | time: 1.376s
| Adam | epoch: 256 | loss: 3.04642 - acc: 0.3087 -- iter: 2560/5208
Training Step: 2811 | total loss: 3.04752 | time: 1.652s
| Adam | epoch: 256 | loss: 3.04752 - acc: 0.3050 -- iter: 3072/5208
Training Step: 2812 | total loss: 3.09522 | time: 1.941s
| Adam | epoch: 256 | loss: 3.09522 - acc: 0.3081 -- iter: 3584/5208
Training Step: 2813 | total loss: 3.03160 | time: 2.230s
| Adam | epoch: 256 | loss: 3.03160 - acc: 0.3085 -- iter: 4096/5208
Training Step: 2814 | total loss: 2.96084 | time: 2.528s
| Adam | epoch: 256 | loss: 2.96084 - acc: 0.3079 -- iter: 4608/5208
Training Step: 2815 | total loss: 2.98161 | time: 2.814s
| Adam | epoch: 256 | loss: 2.98161 - acc: 0.3103 -- iter: 5120/5208
Training Step: 2816 | total loss: 2.98539 | time: 3.117s
| Adam | epoch: 256 | loss: 2.98539 - acc: 0.3102 -- iter: 5208/5208
--
Training Step: 2817 | total loss: 2.92815 | time: 0.310s
| Adam | epoch: 257 | loss: 2.92815 - acc: 0.3102 -- iter: 0512/5208
Training Step: 2818 | total loss: 2.89015 | time: 0.568s
| Adam | epoch: 257 | loss: 2.89015 - acc: 0.3083 -- iter: 1024/5208
Training Step: 2819 | total loss: 2.87229 | time: 0.814s
| Adam | epoch: 257 | loss: 2.87229 - acc: 0.3079 -- iter: 1536/5208
Training Step: 2820 | total loss: 2.82039 | time: 1.014s
| Adam | epoch: 257 | loss: 2.82039 - acc: 0.3078 -- iter: 2048/5208
Training Step: 2821 | total loss: 2.75924 | time: 1.318s
| Adam | epoch: 257 | loss: 2.75924 - acc: 0.3077 -- iter: 2560/5208
Training Step: 2822 | total loss: 2.76384 | time: 1.588s
| Adam | epoch: 257 | loss: 2.76384 - acc: 0.3096 -- iter: 3072/5208
Training Step: 2823 | total loss: 2.78425 | time: 1.877s
| Adam | epoch: 257 | loss: 2.78425 - acc: 0.3104 -- iter: 3584/5208
Training Step: 2824 | total loss: 2.80003 | time: 2.163s
| Adam | epoch: 257 | loss: 2.80003 - acc: 0.3136 -- iter: 4096/5208
Training Step: 2825 | total loss: 2.80643 | time: 2.456s
| Adam | epoch: 257 | loss: 2.80643 - acc: 0.3133 -- iter: 4608/5208
Training Step: 2826 | total loss: 2.80602 | time: 2.726s
| Adam | epoch: 257 | loss: 2.80602 - acc: 0.3101 -- iter: 5120/5208
Training Step: 2827 | total loss: 2.79379 | time: 3.012s
| Adam | epoch: 257 | loss: 2.79379 - acc: 0.3084 -- iter: 5208/5208
--
Training Step: 2828 | total loss: 2.83816 | time: 0.315s
| Adam | epoch: 258 | loss: 2.83816 - acc: 0.3060 -- iter: 0512/5208
Training Step: 2829 | total loss: 2.82549 | time: 0.623s
| Adam | epoch: 258 | loss: 2.82549 - acc: 0.3057 -- iter: 1024/5208
Training Step: 2830 | total loss: 2.78557 | time: 0.883s
| Adam | epoch: 258 | loss: 2.78557 - acc: 0.3046 -- iter: 1536/5208
Training Step: 2831 | total loss: 2.75730 | time: 1.117s
| Adam | epoch: 258 | loss: 2.75730 - acc: 0.3027 -- iter: 2048/5208
Training Step: 2832 | total loss: 2.69862 | time: 1.366s
| Adam | epoch: 258 | loss: 2.69862 - acc: 0.3042 -- iter: 2560/5208
Training Step: 2833 | total loss: 2.62521 | time: 1.666s
| Adam | epoch: 258 | loss: 2.62521 - acc: 0.3034 -- iter: 3072/5208
Training Step: 2834 | total loss: 2.64227 | time: 1.913s
| Adam | epoch: 258 | loss: 2.64227 - acc: 0.3039 -- iter: 3584/5208
Training Step: 2835 | total loss: 2.64868 | time: 2.205s
| Adam | epoch: 258 | loss: 2.64868 - acc: 0.3018 -- iter: 4096/5208
Training Step: 2836 | total loss: 3.21167 | time: 2.525s
| Adam | epoch: 258 | loss: 3.21167 - acc: 0.2951 -- iter: 4608/5208
Training Step: 2837 | total loss: 3.13008 | time: 2.823s
| Adam | epoch: 258 | loss: 3.13008 - acc: 0.2966 -- iter: 5120/5208
Training Step: 2838 | total loss: 3.10971 | time: 3.106s
| Adam | epoch: 258 | loss: 3.10971 - acc: 0.3007 -- iter: 5208/5208
--
Training Step: 2839 | total loss: 3.12624 | time: 0.313s
| Adam | epoch: 259 | loss: 3.12624 - acc: 0.3043 -- iter: 0512/5208
Training Step: 2840 | total loss: 3.09676 | time: 0.644s
| Adam | epoch: 259 | loss: 3.09676 - acc: 0.3024 -- iter: 1024/5208
Training Step: 2841 | total loss: 3.06664 | time: 0.918s
| Adam | epoch: 259 | loss: 3.06664 - acc: 0.3043 -- iter: 1536/5208
Training Step: 2842 | total loss: 3.01879 | time: 1.235s
| Adam | epoch: 259 | loss: 3.01879 - acc: 0.3048 -- iter: 2048/5208
Training Step: 2843 | total loss: 2.97908 | time: 1.453s
| Adam | epoch: 259 | loss: 2.97908 - acc: 0.3040 -- iter: 2560/5208
Training Step: 2844 | total loss: 2.89563 | time: 1.703s
| Adam | epoch: 259 | loss: 2.89563 - acc: 0.3043 -- iter: 3072/5208
Training Step: 2845 | total loss: 2.81679 | time: 1.983s
| Adam | epoch: 259 | loss: 2.81679 - acc: 0.3011 -- iter: 3584/5208
Training Step: 2846 | total loss: 2.82844 | time: 2.250s
| Adam | epoch: 259 | loss: 2.82844 - acc: 0.2985 -- iter: 4096/5208
Training Step: 2847 | total loss: 2.80587 | time: 2.523s
| Adam | epoch: 259 | loss: 2.80587 - acc: 0.3017 -- iter: 4608/5208
Training Step: 2848 | total loss: 2.99330 | time: 2.826s
| Adam | epoch: 259 | loss: 2.99330 - acc: 0.3002 -- iter: 5120/5208
Training Step: 2849 | total loss: 2.96580 | time: 3.130s
| Adam | epoch: 259 | loss: 2.96580 - acc: 0.3009 -- iter: 5208/5208
```

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Training Step: 2850 | total loss: 2.97968 | time: 0.316s
| Adam | epoch: 260 | loss: 2.97968 - acc: 0.3005 -- iter: 0512/5208
Training Step: 2851 | total loss: 2.97411 | time: 0.584s
| Adam | epoch: 260 | loss: 2.97411 - acc: 0.3005 -- iter: 1024/5208
Training Step: 2852 | total loss: 2.93008 | time: 0.868s
| Adam | epoch: 260 | loss: 2.93008 - acc: 0.3001 -- iter: 1536/5208
Training Step: 2853 | total loss: 2.93333 | time: 1.177s
| Adam | epoch: 260 | loss: 2.93333 - acc: 0.3031 -- iter: 2048/5208
Training Step: 2854 | total loss: 2.88621 | time: 1.491s
| Adam | epoch: 260 | loss: 2.88621 - acc: 0.3058 -- iter: 2560/5208
Training Step: 2855 | total loss: 2.85858 | time: 1.693s
| Adam | epoch: 260 | loss: 2.85858 - acc: 0.3047 -- iter: 3072/5208
Training Step: 2856 | total loss: 2.86721 | time: 1.936s
| Adam | epoch: 260 | loss: 2.86721 - acc: 0.3038 -- iter: 3584/5208
Training Step: 2857 | total loss: 2.85789 | time: 2.204s
| Adam | epoch: 260 | loss: 2.85789 - acc: 0.3030 -- iter: 4096/5208
Training Step: 2858 | total loss: 2.85549 | time: 2.517s
| Adam | epoch: 260 | loss: 2.85549 - acc: 0.3033 -- iter: 4608/5208
Training Step: 2859 | total loss: 2.81535 | time: 2.780s
| Adam | epoch: 260 | loss: 2.81535 - acc: 0.3045 -- iter: 5120/5208
Training Step: 2860 | total loss: 2.77754 | time: 3.057s
| Adam | epoch: 260 | loss: 2.77754 - acc: 0.3105 -- iter: 5208/5208
--
Training Step: 2861 | total loss: 2.82338 | time: 0.263s
| Adam | epoch: 261 | loss: 2.82338 - acc: 0.3117 -- iter: 0512/5208
Training Step: 2862 | total loss: 2.83738 | time: 0.562s
| Adam | epoch: 261 | loss: 2.83738 - acc: 0.3073 -- iter: 1024/5208
Training Step: 2863 | total loss: 2.83424 | time: 0.843s
| Adam | epoch: 261 | loss: 2.83424 - acc: 0.3035 -- iter: 1536/5208
Training Step: 2864 | total loss: 2.81988 | time: 1.133s
| Adam | epoch: 261 | loss: 2.81988 - acc: 0.3054 -- iter: 2048/5208
Training Step: 2865 | total loss: 2.75523 | time: 1.423s
| Adam | epoch: 261 | loss: 2.75523 - acc: 0.3049 -- iter: 2560/5208
Training Step: 2866 | total loss: 2.79651 | time: 1.722s
| Adam | epoch: 261 | loss: 2.79651 - acc: 0.3084 -- iter: 3072/5208
Training Step: 2867 | total loss: 2.75258 | time: 1.944s
| Adam | epoch: 261 | loss: 2.75258 - acc: 0.3102 -- iter: 3584/5208
Training Step: 2868 | total loss: 2.76479 | time: 2.188s
| Adam | epoch: 261 | loss: 2.76479 - acc: 0.3155 -- iter: 4096/5208
Training Step: 2869 | total loss: 2.76303 | time: 2.462s
| Adam | epoch: 261 | loss: 2.76303 - acc: 0.3181 -- iter: 4608/5208
Training Step: 2870 | total loss: 2.78659 | time: 2.779s
| Adam | epoch: 261 | loss: 2.78659 - acc: 0.3158 -- iter: 5120/5208
Training Step: 2871 | total loss: 2.78478 | time: 3.058s
| Adam | epoch: 261 | loss: 2.78478 - acc: 0.3150 -- iter: 5208/5208
--
Training Step: 2872 | total loss: 2.86244 | time: 0.289s
| Adam | epoch: 262 | loss: 2.86244 - acc: 0.3099 -- iter: 0512/5208
Training Step: 2873 | total loss: 2.80503 | time: 0.588s
| Adam | epoch: 262 | loss: 2.80503 - acc: 0.3090 -- iter: 1024/5208
Training Step: 2874 | total loss: 2.81061 | time: 0.857s
| Adam | epoch: 262 | loss: 2.81061 - acc: 0.3131 -- iter: 1536/5208
Training Step: 2875 | total loss: 2.79645 | time: 1.133s
| Adam | epoch: 262 | loss: 2.79645 - acc: 0.3130 -- iter: 2048/5208
Training Step: 2876 | total loss: 2.74874 | time: 1.436s
| Adam | epoch: 262 | loss: 2.74874 - acc: 0.3116 -- iter: 2560/5208
Training Step: 2877 | total loss: 2.75229 | time: 1.739s
| Adam | epoch: 262 | loss: 2.75229 - acc: 0.3117 -- iter: 3072/5208
Training Step: 2878 | total loss: 2.75153 | time: 2.044s
| Adam | epoch: 262 | loss: 2.75153 - acc: 0.3129 -- iter: 3584/5208
Training Step: 2879 | total loss: 2.76815 | time: 2.259s
| Adam | epoch: 262 | loss: 2.76815 - acc: 0.3123 -- iter: 4096/5208
Training Step: 2880 | total loss: 2.71499 | time: 2.520s
| Adam | epoch: 262 | loss: 2.71499 - acc: 0.3083 -- iter: 4608/5208
Training Step: 2881 | total loss: 2.65894 | time: 2.873s
| Adam | epoch: 262 | loss: 2.65894 - acc: 0.3082 -- iter: 5120/5208
Training Step: 2882 | total loss: 2.69521 | time: 3.120s
| Adam | epoch: 262 | loss: 2.69521 - acc: 0.3071 -- iter: 5208/5208
--
Training Step: 2883 | total loss: 2.74106 | time: 0.278s
| Adam | epoch: 263 | loss: 2.74106 - acc: 0.3057 -- iter: 0512/5208
Training Step: 2884 | total loss: 2.89663 | time: 0.584s
| Adam | epoch: 263 | loss: 2.89663 - acc: 0.3057 -- iter: 1024/5208
Training Step: 2885 | total loss: 2.91102 | time: 0.872s
| Adam | epoch: 263 | loss: 2.91102 - acc: 0.3068 -- iter: 1536/5208
Training Step: 2886 | total loss: 2.98757 | time: 1.156s
| Adam | epoch: 263 | loss: 2.98757 - acc: 0.3076 -- iter: 2048/5208
Training Step: 2887 | total loss: 2.95368 | time: 1.453s
| Adam | epoch: 263 | loss: 2.95368 - acc: 0.3085 -- iter: 2560/5208
Training Step: 2888 | total loss: 2.88828 | time: 1.751s
| Adam | epoch: 263 | loss: 2.88828 - acc: 0.3044 -- iter: 3072/5208
Training Step: 2889 | total loss: 2.87857 | time: 2.043s
```

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| Adam | epoch: 263 | loss: 2.87857 - acc: 0.3040 -- iter: 3584/5208
Training Step: 2890 | total loss: 2.83904 | time: 2.335s
| Adam | epoch: 263 | loss: 2.83904 - acc: 0.3012 -- iter: 4096/5208
Training Step: 2891 | total loss: 2.81596 | time: 2.592s
| Adam | epoch: 263 | loss: 2.81596 - acc: 0.3011 -- iter: 4608/5208
Training Step: 2892 | total loss: 3.09931 | time: 2.798s
| Adam | epoch: 263 | loss: 3.09931 - acc: 0.2983 -- iter: 5120/5208
Training Step: 2893 | total loss: 3.29082 | time: 3.105s
| Adam | epoch: 263 | loss: 3.29082 - acc: 0.3003 -- iter: 5208/5208
--
Training Step: 2894 | total loss: 3.25490 | time: 0.254s
| Adam | epoch: 264 | loss: 3.25490 - acc: 0.3038 -- iter: 0512/5208
Training Step: 2895 | total loss: 3.16768 | time: 0.537s
| Adam | epoch: 264 | loss: 3.16768 - acc: 0.3035 -- iter: 1024/5208
Training Step: 2896 | total loss: 3.14209 | time: 0.825s
| Adam | epoch: 264 | loss: 3.14209 - acc: 0.3048 -- iter: 1536/5208
Training Step: 2897 | total loss: 3.10504 | time: 1.098s
| Adam | epoch: 264 | loss: 3.10504 - acc: 0.3073 -- iter: 2048/5208
Training Step: 2898 | total loss: 3.04584 | time: 1.395s
| Adam | epoch: 264 | loss: 3.04584 - acc: 0.3092 -- iter: 2560/5208
Training Step: 2899 | total loss: 3.02275 | time: 1.698s
| Adam | epoch: 264 | loss: 3.02275 - acc: 0.3076 -- iter: 3072/5208
Training Step: 2900 | total loss: 2.98388 | time: 1.996s
| Adam | epoch: 264 | loss: 2.98388 - acc: 0.3040 -- iter: 3584/5208
Training Step: 2901 | total loss: 2.98427 | time: 2.292s
| Adam | epoch: 264 | loss: 2.98427 - acc: 0.3005 -- iter: 4096/5208
Training Step: 2902 | total loss: 2.99365 | time: 2.612s
| Adam | epoch: 264 | loss: 2.99365 - acc: 0.3035 -- iter: 4608/5208
Training Step: 2903 | total loss: 3.00132 | time: 2.832s
| Adam | epoch: 264 | loss: 3.00132 - acc: 0.3044 -- iter: 5120/5208
Training Step: 2904 | total loss: 2.97392 | time: 3.099s
| Adam | epoch: 264 | loss: 2.97392 - acc: 0.2967 -- iter: 5208/5208
--
Training Step: 2905 | total loss: 2.94444 | time: 0.281s
| Adam | epoch: 265 | loss: 2.94444 - acc: 0.2932 -- iter: 0512/5208
Training Step: 2906 | total loss: 2.93194 | time: 0.563s
| Adam | epoch: 265 | loss: 2.93194 - acc: 0.2912 -- iter: 1024/5208
Training Step: 2907 | total loss: 2.92762 | time: 0.876s
| Adam | epoch: 265 | loss: 2.92762 - acc: 0.2933 -- iter: 1536/5208
Training Step: 2908 | total loss: 3.16635 | time: 1.161s
| Adam | epoch: 265 | loss: 3.16635 - acc: 0.2903 -- iter: 2048/5208
Training Step: 2909 | total loss: 3.11147 | time: 1.476s
| Adam | epoch: 265 | loss: 3.11147 - acc: 0.2890 -- iter: 2560/5208
Training Step: 2910 | total loss: 3.06121 | time: 1.758s
| Adam | epoch: 265 | loss: 3.06121 - acc: 0.2928 -- iter: 3072/5208
Training Step: 2911 | total loss: 3.04458 | time: 2.044s
| Adam | epoch: 265 | loss: 3.04458 - acc: 0.2969 -- iter: 3584/5208
Training Step: 2912 | total loss: 3.08212 | time: 2.343s
| Adam | epoch: 265 | loss: 3.08212 - acc: 0.3006 -- iter: 4096/5208
Training Step: 2913 | total loss: 3.04249 | time: 2.668s
| Adam | epoch: 265 | loss: 3.04249 - acc: 0.3024 -- iter: 4608/5208
Training Step: 2914 | total loss: 3.01787 | time: 2.964s
| Adam | epoch: 265 | loss: 3.01787 - acc: 0.3030 -- iter: 5120/5208
Training Step: 2915 | total loss: 2.98333 | time: 3.185s
| Adam | epoch: 265 | loss: 2.98333 - acc: 0.3036 -- iter: 5208/5208
--
Training Step: 2916 | total loss: 2.90160 | time: 0.233s
| Adam | epoch: 266 | loss: 2.90160 - acc: 0.3118 -- iter: 0512/5208
Training Step: 2917 | total loss: 2.82027 | time: 0.537s
| Adam | epoch: 266 | loss: 2.82027 - acc: 0.3170 -- iter: 1024/5208
Training Step: 2918 | total loss: 2.81271 | time: 0.788s
| Adam | epoch: 266 | loss: 2.81271 - acc: 0.3148 -- iter: 1536/5208
Training Step: 2919 | total loss: 2.76764 | time: 1.071s
| Adam | epoch: 266 | loss: 2.76764 - acc: 0.3150 -- iter: 2048/5208
Training Step: 2920 | total loss: 2.88588 | time: 1.397s
| Adam | epoch: 266 | loss: 2.88588 - acc: 0.3143 -- iter: 2560/5208
Training Step: 2921 | total loss: 2.87064 | time: 1.713s
| Adam | epoch: 266 | loss: 2.87064 - acc: 0.3106 -- iter: 3072/5208
Training Step: 2922 | total loss: 2.86986 | time: 1.967s
| Adam | epoch: 266 | loss: 2.86986 - acc: 0.3114 -- iter: 3584/5208
Training Step: 2923 | total loss: 2.82142 | time: 2.267s
| Adam | epoch: 266 | loss: 2.82142 - acc: 0.3090 -- iter: 4096/5208
Training Step: 2924 | total loss: 2.80380 | time: 2.568s
| Adam | epoch: 266 | loss: 2.80380 - acc: 0.3093 -- iter: 4608/5208
Training Step: 2925 | total loss: 2.79164 | time: 2.863s
| Adam | epoch: 266 | loss: 2.79164 - acc: 0.3081 -- iter: 5120/5208
Training Step: 2926 | total loss: 2.76254 | time: 3.135s
| Adam | epoch: 266 | loss: 2.76254 - acc: 0.3023 -- iter: 5208/5208
--
Training Step: 2927 | total loss: 2.77095 | time: 0.241s
| Adam | epoch: 267 | loss: 2.77095 - acc: 0.3041 -- iter: 0512/5208
Training Step: 2928 | total loss: 2.74745 | time: 0.492s
| Adam | epoch: 267 | loss: 2.74745 - acc: 0.3123 -- iter: 1024/5208
```

Training Step: 2929 | total loss: **2.71544** | time: 0.765s
| Adam | epoch: 267 | loss: 2.71544 - acc: 0.3220 -- iter: 1536/5208
Training Step: 2930 | total loss: **2.76137** | time: 1.049s
| Adam | epoch: 267 | loss: 2.76137 - acc: 0.3175 -- iter: 2048/5208
Training Step: 2931 | total loss: **2.76548** | time: 1.342s
| Adam | epoch: 267 | loss: 2.76548 - acc: 0.3186 -- iter: 2560/5208
Training Step: 2932 | total loss: **2.73168** | time: 1.619s
| Adam | epoch: 267 | loss: 2.73168 - acc: 0.3195 -- iter: 3072/5208
Training Step: 2933 | total loss: **2.74971** | time: 1.913s
| Adam | epoch: 267 | loss: 2.74971 - acc: 0.3167 -- iter: 3584/5208
Training Step: 2934 | total loss: **2.71529** | time: 2.206s
| Adam | epoch: 267 | loss: 2.71529 - acc: 0.3165 -- iter: 4096/5208
Training Step: 2935 | total loss: **2.69561** | time: 2.508s
| Adam | epoch: 267 | loss: 2.69561 - acc: 0.3157 -- iter: 4608/5208
Training Step: 2936 | total loss: **2.68669** | time: 2.793s
| Adam | epoch: 267 | loss: 2.68669 - acc: 0.3144 -- iter: 5120/5208
Training Step: 2937 | total loss: **2.66586** | time: 3.074s
| Adam | epoch: 267 | loss: 2.66586 - acc: 0.3132 -- iter: 5208/5208
--
Training Step: 2938 | total loss: **2.66240** | time: 0.301s
| Adam | epoch: 268 | loss: 2.66240 - acc: 0.3141 -- iter: 0512/5208
Training Step: 2939 | total loss: **2.68418** | time: 0.512s
| Adam | epoch: 268 | loss: 2.68418 - acc: 0.3147 -- iter: 1024/5208
Training Step: 2940 | total loss: **2.71478** | time: 0.775s
| Adam | epoch: 268 | loss: 2.71478 - acc: 0.3128 -- iter: 1536/5208
Training Step: 2941 | total loss: **2.73446** | time: 1.051s
| Adam | epoch: 268 | loss: 2.73446 - acc: 0.3179 -- iter: 2048/5208
Training Step: 2942 | total loss: **2.75332** | time: 1.335s
| Adam | epoch: 268 | loss: 2.75332 - acc: 0.3185 -- iter: 2560/5208
Training Step: 2943 | total loss: **2.76745** | time: 1.594s
| Adam | epoch: 268 | loss: 2.76745 - acc: 0.3138 -- iter: 3072/5208
Training Step: 2944 | total loss: **2.76306** | time: 1.900s
| Adam | epoch: 268 | loss: 2.76306 - acc: 0.3084 -- iter: 3584/5208
Training Step: 2945 | total loss: **2.75331** | time: 2.181s
| Adam | epoch: 268 | loss: 2.75331 - acc: 0.3100 -- iter: 4096/5208
Training Step: 2946 | total loss: **2.71431** | time: 2.492s
| Adam | epoch: 268 | loss: 2.71431 - acc: 0.3099 -- iter: 4608/5208
Training Step: 2947 | total loss: **2.73553** | time: 2.794s
| Adam | epoch: 268 | loss: 2.73553 - acc: 0.3107 -- iter: 5120/5208
Training Step: 2948 | total loss: **2.73927** | time: 3.101s
| Adam | epoch: 268 | loss: 2.73927 - acc: 0.3107 -- iter: 5208/5208
--
Training Step: 2949 | total loss: **2.72642** | time: 0.314s
| Adam | epoch: 269 | loss: 2.72642 - acc: 0.3079 -- iter: 0512/5208
Training Step: 2950 | total loss: **2.74727** | time: 0.596s
| Adam | epoch: 269 | loss: 2.74727 - acc: 0.3090 -- iter: 1024/5208
Training Step: 2951 | total loss: **2.75931** | time: 0.811s
| Adam | epoch: 269 | loss: 2.75931 - acc: 0.3136 -- iter: 1536/5208
Training Step: 2952 | total loss: **2.73095** | time: 1.063s
| Adam | epoch: 269 | loss: 2.73095 - acc: 0.3095 -- iter: 2048/5208
Training Step: 2953 | total loss: **2.70221** | time: 1.358s
| Adam | epoch: 269 | loss: 2.70221 - acc: 0.3127 -- iter: 2560/5208
Training Step: 2954 | total loss: **2.69433** | time: 1.620s
| Adam | epoch: 269 | loss: 2.69433 - acc: 0.3132 -- iter: 3072/5208
Training Step: 2955 | total loss: **2.67099** | time: 1.901s
| Adam | epoch: 269 | loss: 2.67099 - acc: 0.3130 -- iter: 3584/5208
Training Step: 2956 | total loss: **3.55830** | time: 2.206s
| Adam | epoch: 269 | loss: 3.55830 - acc: 0.3094 -- iter: 4096/5208
Training Step: 2957 | total loss: **3.44050** | time: 2.537s
| Adam | epoch: 269 | loss: 3.44050 - acc: 0.3080 -- iter: 4608/5208
Training Step: 2958 | total loss: **3.35581** | time: 2.844s
| Adam | epoch: 269 | loss: 3.35581 - acc: 0.3096 -- iter: 5120/5208
Training Step: 2959 | total loss: **3.30011** | time: 3.108s
| Adam | epoch: 269 | loss: 3.30011 - acc: 0.3060 -- iter: 5208/5208
--
Training Step: 2960 | total loss: **3.23024** | time: 0.313s
| Adam | epoch: 270 | loss: 3.23024 - acc: 0.3078 -- iter: 0512/5208
Training Step: 2961 | total loss: **3.17069** | time: 0.587s
| Adam | epoch: 270 | loss: 3.17069 - acc: 0.3049 -- iter: 1024/5208
Training Step: 2962 | total loss: **3.13795** | time: 0.863s
| Adam | epoch: 270 | loss: 3.13795 - acc: 0.3084 -- iter: 1536/5208
Training Step: 2963 | total loss: **3.10728** | time: 1.116s
| Adam | epoch: 270 | loss: 3.10728 - acc: 0.3081 -- iter: 2048/5208
Training Step: 2964 | total loss: **2.98235** | time: 1.393s
| Adam | epoch: 270 | loss: 2.98235 - acc: 0.3034 -- iter: 2560/5208
Training Step: 2965 | total loss: **2.86273** | time: 1.688s
| Adam | epoch: 270 | loss: 2.86273 - acc: 0.2935 -- iter: 3072/5208
Training Step: 2966 | total loss: **2.79933** | time: 1.950s
| Adam | epoch: 270 | loss: 2.79933 - acc: 0.2942 -- iter: 3584/5208
Training Step: 2967 | total loss: **2.80778** | time: 2.221s
| Adam | epoch: 270 | loss: 2.80778 - acc: 0.2949 -- iter: 4096/5208
Training Step: 2968 | total loss: **3.17354** | time: 2.551s
| Adam | epoch: 270 | loss: 3.17354 - acc: 0.2961 -- iter: 4608/5208


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Training Step: 2969 | total loss: 3.14763 | time: 2.865s
| Adam | epoch: 270 | loss: 3.14763 - acc: 0.2965 -- iter: 5120/5208
Training Step: 2970 | total loss: 3.09515 | time: 3.157s
| Adam | epoch: 270 | loss: 3.09515 - acc: 0.2981 -- iter: 5208/5208
--
Training Step: 2971 | total loss: 3.06945 | time: 0.308s
| Adam | epoch: 271 | loss: 3.06945 - acc: 0.2994 -- iter: 0512/5208
Training Step: 2972 | total loss: 2.99309 | time: 0.581s
| Adam | epoch: 271 | loss: 2.99309 - acc: 0.3013 -- iter: 1024/5208
Training Step: 2973 | total loss: 2.99921 | time: 0.892s
| Adam | epoch: 271 | loss: 2.99921 - acc: 0.3024 -- iter: 1536/5208
Training Step: 2974 | total loss: 2.93397 | time: 1.180s
| Adam | epoch: 271 | loss: 2.93397 - acc: 0.3001 -- iter: 2048/5208
Training Step: 2975 | total loss: 2.88845 | time: 1.415s
| Adam | epoch: 271 | loss: 2.88845 - acc: 0.2994 -- iter: 2560/5208
Training Step: 2976 | total loss: 2.90863 | time: 1.673s
| Adam | epoch: 271 | loss: 2.90863 - acc: 0.3013 -- iter: 3072/5208
Training Step: 2977 | total loss: 2.90966 | time: 2.000s
| Adam | epoch: 271 | loss: 2.90966 - acc: 0.3018 -- iter: 3584/5208
Training Step: 2978 | total loss: 2.88535 | time: 2.288s
| Adam | epoch: 271 | loss: 2.88535 - acc: 0.3021 -- iter: 4096/5208
Training Step: 2979 | total loss: 2.89457 | time: 2.588s
| Adam | epoch: 271 | loss: 2.89457 - acc: 0.3041 -- iter: 4608/5208
Training Step: 2980 | total loss: 3.30956 | time: 2.914s
| Adam | epoch: 271 | loss: 3.30956 - acc: 0.3040 -- iter: 5120/5208
Training Step: 2981 | total loss: 3.19801 | time: 3.242s
| Adam | epoch: 271 | loss: 3.19801 - acc: 0.3037 -- iter: 5208/5208
--
Training Step: 2982 | total loss: 3.14877 | time: 0.274s
| Adam | epoch: 272 | loss: 3.14877 - acc: 0.3055 -- iter: 0512/5208
Training Step: 2983 | total loss: 3.06165 | time: 0.607s
| Adam | epoch: 272 | loss: 3.06165 - acc: 0.3078 -- iter: 1024/5208
Training Step: 2984 | total loss: 3.02676 | time: 0.886s
| Adam | epoch: 272 | loss: 3.02676 - acc: 0.3057 -- iter: 1536/5208
Training Step: 2985 | total loss: 3.00869 | time: 1.192s
| Adam | epoch: 272 | loss: 3.00869 - acc: 0.3044 -- iter: 2048/5208
Training Step: 2986 | total loss: 3.00900 | time: 1.492s
| Adam | epoch: 272 | loss: 3.00900 - acc: 0.3033 -- iter: 2560/5208
Training Step: 2987 | total loss: 2.98637 | time: 1.736s
| Adam | epoch: 272 | loss: 2.98637 - acc: 0.3089 -- iter: 3072/5208
Training Step: 2988 | total loss: 3.09443 | time: 1.962s
| Adam | epoch: 272 | loss: 3.09443 - acc: 0.3087 -- iter: 3584/5208
Training Step: 2989 | total loss: 3.17504 | time: 2.287s
| Adam | epoch: 272 | loss: 3.17504 - acc: 0.3085 -- iter: 4096/5208
Training Step: 2990 | total loss: 3.11847 | time: 2.558s
| Adam | epoch: 272 | loss: 3.11847 - acc: 0.3105 -- iter: 4608/5208
Training Step: 2991 | total loss: 3.09242 | time: 2.839s
| Adam | epoch: 272 | loss: 3.09242 - acc: 0.3058 -- iter: 5120/5208
Training Step: 2992 | total loss: 3.18701 | time: 3.141s
| Adam | epoch: 272 | loss: 3.18701 - acc: 0.3053 -- iter: 5208/5208
--
Training Step: 2993 | total loss: 3.15156 | time: 0.296s
| Adam | epoch: 273 | loss: 3.15156 - acc: 0.3054 -- iter: 0512/5208
Training Step: 2994 | total loss: 3.08876 | time: 0.604s
| Adam | epoch: 273 | loss: 3.08876 - acc: 0.3052 -- iter: 1024/5208
Training Step: 2995 | total loss: 3.03042 | time: 0.895s
| Adam | epoch: 273 | loss: 3.03042 - acc: 0.3045 -- iter: 1536/5208
Training Step: 2996 | total loss: 3.03169 | time: 1.191s
| Adam | epoch: 273 | loss: 3.03169 - acc: 0.3047 -- iter: 2048/5208
Training Step: 2997 | total loss: 3.03836 | time: 1.483s
| Adam | epoch: 273 | loss: 3.03836 - acc: 0.3057 -- iter: 2560/5208
Training Step: 2998 | total loss: 2.97098 | time: 1.766s
| Adam | epoch: 273 | loss: 2.97098 - acc: 0.3031 -- iter: 3072/5208
Training Step: 2999 | total loss: 2.94782 | time: 2.041s
| Adam | epoch: 273 | loss: 2.94782 - acc: 0.3030 -- iter: 3584/5208
Training Step: 3000 | total loss: 2.87833 | time: 2.274s
| Adam | epoch: 273 | loss: 2.87833 - acc: 0.3057 -- iter: 4096/5208
Training Step: 3001 | total loss: 2.81145 | time: 2.581s
| Adam | epoch: 273 | loss: 2.81145 - acc: 0.3092 -- iter: 4608/5208
Training Step: 3002 | total loss: 2.78356 | time: 2.860s
| Adam | epoch: 273 | loss: 2.78356 - acc: 0.3109 -- iter: 5120/5208
Training Step: 3003 | total loss: 2.76749 | time: 3.170s
| Adam | epoch: 273 | loss: 2.76749 - acc: 0.3148 -- iter: 5208/5208
--
Training Step: 3004 | total loss: 2.78862 | time: 0.308s
| Adam | epoch: 274 | loss: 2.78862 - acc: 0.3116 -- iter: 0512/5208
Training Step: 3005 | total loss: 2.76941 | time: 0.624s
| Adam | epoch: 274 | loss: 2.76941 - acc: 0.3170 -- iter: 1024/5208
Training Step: 3006 | total loss: 2.72401 | time: 0.883s
| Adam | epoch: 274 | loss: 2.72401 - acc: 0.3169 -- iter: 1536/5208
Training Step: 3007 | total loss: 2.71744 | time: 1.232s
| Adam | epoch: 274 | loss: 2.71744 - acc: 0.3134 -- iter: 2048/5208
Training Step: 3008 | total loss: 2.69068 | time: 1.519s
```

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| Adam | epoch: 274 | loss: 2.69068 - acc: 0.3139 -- iter: 2560/5208
Training Step: 3009 | total loss: 2.67179 | time: 1.833s
| Adam | epoch: 274 | loss: 2.67179 - acc: 0.3135 -- iter: 3072/5208
Training Step: 3010 | total loss: 2.65634 | time: 2.149s
| Adam | epoch: 274 | loss: 2.65634 - acc: 0.3124 -- iter: 3584/5208
Training Step: 3011 | total loss: 2.65070 | time: 2.355s
| Adam | epoch: 274 | loss: 2.65070 - acc: 0.3140 -- iter: 4096/5208
Training Step: 3012 | total loss: 2.57974 | time: 2.608s
| Adam | epoch: 274 | loss: 2.57974 - acc: 0.3122 -- iter: 4608/5208
Training Step: 3013 | total loss: 2.50811 | time: 2.965s
| Adam | epoch: 274 | loss: 2.50811 - acc: 0.3094 -- iter: 5120/5208
Training Step: 3014 | total loss: 2.55637 | time: 3.217s
| Adam | epoch: 274 | loss: 2.55637 - acc: 0.3122 -- iter: 5208/5208
--
Training Step: 3015 | total loss: 2.59970 | time: 0.316s
| Adam | epoch: 275 | loss: 2.59970 - acc: 0.3113 -- iter: 0512/5208
Training Step: 3016 | total loss: 2.57233 | time: 0.616s
| Adam | epoch: 275 | loss: 2.57233 - acc: 0.3122 -- iter: 1024/5208
Training Step: 3017 | total loss: 2.53584 | time: 0.940s
| Adam | epoch: 275 | loss: 2.53584 - acc: 0.3153 -- iter: 1536/5208
Training Step: 3018 | total loss: 2.55016 | time: 1.224s
| Adam | epoch: 275 | loss: 2.55016 - acc: 0.3137 -- iter: 2048/5208
Training Step: 3019 | total loss: 2.55027 | time: 1.529s
| Adam | epoch: 275 | loss: 2.55027 - acc: 0.3130 -- iter: 2560/5208
Training Step: 3020 | total loss: 2.55903 | time: 1.814s
| Adam | epoch: 275 | loss: 2.55903 - acc: 0.3121 -- iter: 3072/5208
Training Step: 3021 | total loss: 2.53459 | time: 2.109s
| Adam | epoch: 275 | loss: 2.53459 - acc: 0.3100 -- iter: 3584/5208
Training Step: 3022 | total loss: 2.56063 | time: 2.417s
| Adam | epoch: 275 | loss: 2.56063 - acc: 0.3114 -- iter: 4096/5208
Training Step: 3023 | total loss: 2.54319 | time: 2.630s
| Adam | epoch: 275 | loss: 2.54319 - acc: 0.3139 -- iter: 4608/5208
Training Step: 3024 | total loss: 2.59580 | time: 2.861s
| Adam | epoch: 275 | loss: 2.59580 - acc: 0.3098 -- iter: 5120/5208
Training Step: 3025 | total loss: 2.63471 | time: 3.183s
| Adam | epoch: 275 | loss: 2.63471 - acc: 0.3038 -- iter: 5208/5208
--
Training Step: 3026 | total loss: 2.67072 | time: 0.245s
| Adam | epoch: 276 | loss: 2.67072 - acc: 0.3027 -- iter: 0512/5208
Training Step: 3027 | total loss: 2.71232 | time: 0.539s
| Adam | epoch: 276 | loss: 2.71232 - acc: 0.3062 -- iter: 1024/5208
Training Step: 3028 | total loss: 2.90856 | time: 0.823s
| Adam | epoch: 276 | loss: 2.90856 - acc: 0.3039 -- iter: 1536/5208
Training Step: 3029 | total loss: 2.84313 | time: 1.103s
| Adam | epoch: 276 | loss: 2.84313 - acc: 0.3044 -- iter: 2048/5208
Training Step: 3030 | total loss: 2.82891 | time: 1.380s
| Adam | epoch: 276 | loss: 2.82891 - acc: 0.3060 -- iter: 2560/5208
Training Step: 3031 | total loss: 2.75359 | time: 1.675s
| Adam | epoch: 276 | loss: 2.75359 - acc: 0.3090 -- iter: 3072/5208
Training Step: 3032 | total loss: 2.74255 | time: 1.986s
| Adam | epoch: 276 | loss: 2.74255 - acc: 0.3095 -- iter: 3584/5208
Training Step: 3033 | total loss: 2.73184 | time: 2.304s
| Adam | epoch: 276 | loss: 2.73184 - acc: 0.3089 -- iter: 4096/5208
Training Step: 3034 | total loss: 2.75243 | time: 2.564s
| Adam | epoch: 276 | loss: 2.75243 - acc: 0.3084 -- iter: 4608/5208
Training Step: 3035 | total loss: 2.75832 | time: 2.809s
| Adam | epoch: 276 | loss: 2.75832 - acc: 0.3077 -- iter: 5120/5208
Training Step: 3036 | total loss: 2.88031 | time: 3.024s
| Adam | epoch: 276 | loss: 2.88031 - acc: 0.3099 -- iter: 5208/5208
--
Training Step: 3037 | total loss: 2.94977 | time: 0.319s
| Adam | epoch: 277 | loss: 2.94977 - acc: 0.3107 -- iter: 0512/5208
Training Step: 3038 | total loss: 2.91912 | time: 0.572s
| Adam | epoch: 277 | loss: 2.91912 - acc: 0.3113 -- iter: 1024/5208
Training Step: 3039 | total loss: 2.88483 | time: 0.868s
| Adam | epoch: 277 | loss: 2.88483 - acc: 0.3135 -- iter: 1536/5208
Training Step: 3040 | total loss: 2.87928 | time: 1.167s
| Adam | epoch: 277 | loss: 2.87928 - acc: 0.3162 -- iter: 2048/5208
Training Step: 3041 | total loss: 2.83075 | time: 1.458s
| Adam | epoch: 277 | loss: 2.83075 - acc: 0.3217 -- iter: 2560/5208
Training Step: 3042 | total loss: 2.81502 | time: 1.730s
| Adam | epoch: 277 | loss: 2.81502 - acc: 0.3204 -- iter: 3072/5208
Training Step: 3043 | total loss: 2.83899 | time: 2.028s
| Adam | epoch: 277 | loss: 2.83899 - acc: 0.3178 -- iter: 3584/5208
Training Step: 3044 | total loss: 2.82541 | time: 2.326s
| Adam | epoch: 277 | loss: 2.82541 - acc: 0.3188 -- iter: 4096/5208
Training Step: 3045 | total loss: 2.84173 | time: 2.626s
| Adam | epoch: 277 | loss: 2.84173 - acc: 0.3184 -- iter: 4608/5208
Training Step: 3046 | total loss: 2.78903 | time: 2.922s
| Adam | epoch: 277 | loss: 2.78903 - acc: 0.3196 -- iter: 5120/5208
Training Step: 3047 | total loss: 2.77201 | time: 3.170s
| Adam | epoch: 277 | loss: 2.77201 - acc: 0.3138 -- iter: 5208/5208
--
```



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Training Step: 3048 | total loss: 2.68695 | time: 0.260s
| Adam | epoch: 278 | loss: 2.68695 - acc: 0.3176 -- iter: 0512/5208
Training Step: 3049 | total loss: 2.60146 | time: 0.529s
| Adam | epoch: 278 | loss: 2.60146 - acc: 0.3211 -- iter: 1024/5208
Training Step: 3050 | total loss: 2.62125 | time: 0.822s
| Adam | epoch: 278 | loss: 2.62125 - acc: 0.3206 -- iter: 1536/5208
Training Step: 3051 | total loss: 2.58076 | time: 1.067s
| Adam | epoch: 278 | loss: 2.58076 - acc: 0.3163 -- iter: 2048/5208
Training Step: 3052 | total loss: 2.81157 | time: 1.344s
| Adam | epoch: 278 | loss: 2.81157 - acc: 0.3124 -- iter: 2560/5208
Training Step: 3053 | total loss: 2.87258 | time: 1.622s
| Adam | epoch: 278 | loss: 2.87258 - acc: 0.3085 -- iter: 3072/5208
Training Step: 3054 | total loss: 2.85922 | time: 1.999s
| Adam | epoch: 278 | loss: 2.85922 - acc: 0.3126 -- iter: 3584/5208
Training Step: 3055 | total loss: 2.82083 | time: 2.283s
| Adam | epoch: 278 | loss: 2.82083 - acc: 0.3114 -- iter: 4096/5208
Training Step: 3056 | total loss: 2.78002 | time: 2.555s
| Adam | epoch: 278 | loss: 2.78002 - acc: 0.3123 -- iter: 4608/5208
Training Step: 3057 | total loss: 2.71815 | time: 2.868s
| Adam | epoch: 278 | loss: 2.71815 - acc: 0.3147 -- iter: 5120/5208
Training Step: 3058 | total loss: 2.65554 | time: 3.140s
| Adam | epoch: 278 | loss: 2.65554 - acc: 0.3149 -- iter: 5208/5208
--
Training Step: 3059 | total loss: 2.67395 | time: 0.249s
| Adam | epoch: 279 | loss: 2.67395 - acc: 0.3177 -- iter: 0512/5208
Training Step: 3060 | total loss: 2.74822 | time: 0.481s
| Adam | epoch: 279 | loss: 2.74822 - acc: 0.3235 -- iter: 1024/5208
Training Step: 3061 | total loss: 2.80855 | time: 0.799s
| Adam | epoch: 279 | loss: 2.80855 - acc: 0.3320 -- iter: 1536/5208
Training Step: 3062 | total loss: 2.82170 | time: 1.061s
| Adam | epoch: 279 | loss: 2.82170 - acc: 0.3299 -- iter: 2048/5208
Training Step: 3063 | total loss: 2.77909 | time: 1.330s
| Adam | epoch: 279 | loss: 2.77909 - acc: 0.3281 -- iter: 2560/5208
Training Step: 3064 | total loss: 3.07085 | time: 1.614s
| Adam | epoch: 279 | loss: 3.07085 - acc: 0.3233 -- iter: 3072/5208
Training Step: 3065 | total loss: 2.99766 | time: 1.936s
| Adam | epoch: 279 | loss: 2.99766 - acc: 0.3212 -- iter: 3584/5208
Training Step: 3066 | total loss: 2.98067 | time: 2.211s
| Adam | epoch: 279 | loss: 2.98067 - acc: 0.3174 -- iter: 4096/5208
Training Step: 3067 | total loss: 2.92444 | time: 2.538s
| Adam | epoch: 279 | loss: 2.92444 - acc: 0.3157 -- iter: 4608/5208
Training Step: 3068 | total loss: 2.88909 | time: 2.819s
| Adam | epoch: 279 | loss: 2.88909 - acc: 0.3180 -- iter: 5120/5208
Training Step: 3069 | total loss: 2.86257 | time: 3.118s
| Adam | epoch: 279 | loss: 2.86257 - acc: 0.3190 -- iter: 5208/5208
--
Training Step: 3070 | total loss: 2.88579 | time: 0.259s
| Adam | epoch: 280 | loss: 2.88579 - acc: 0.3201 -- iter: 0512/5208
Training Step: 3071 | total loss: 2.83505 | time: 0.482s
| Adam | epoch: 280 | loss: 2.83505 - acc: 0.3180 -- iter: 1024/5208
Training Step: 3072 | total loss: 2.83590 | time: 0.755s
| Adam | epoch: 280 | loss: 2.83590 - acc: 0.3203 -- iter: 1536/5208
Training Step: 3073 | total loss: 2.84133 | time: 1.023s
| Adam | epoch: 280 | loss: 2.84133 - acc: 0.3235 -- iter: 2048/5208
Training Step: 3074 | total loss: 2.84387 | time: 1.295s
| Adam | epoch: 280 | loss: 2.84387 - acc: 0.3218 -- iter: 2560/5208
Training Step: 3075 | total loss: 2.84420 | time: 1.558s
| Adam | epoch: 280 | loss: 2.84420 - acc: 0.3210 -- iter: 3072/5208
Training Step: 3076 | total loss: 3.06401 | time: 1.893s
| Adam | epoch: 280 | loss: 3.06401 - acc: 0.3184 -- iter: 3584/5208
Training Step: 3077 | total loss: 3.03485 | time: 2.190s
| Adam | epoch: 280 | loss: 3.03485 - acc: 0.3192 -- iter: 4096/5208
Training Step: 3078 | total loss: 2.98793 | time: 2.480s
| Adam | epoch: 280 | loss: 2.98793 - acc: 0.3199 -- iter: 4608/5208
Training Step: 3079 | total loss: 2.90668 | time: 2.777s
| Adam | epoch: 280 | loss: 2.90668 - acc: 0.3174 -- iter: 5120/5208
Training Step: 3080 | total loss: 2.86976 | time: 3.081s
| Adam | epoch: 280 | loss: 2.86976 - acc: 0.3136 -- iter: 5208/5208
--
Training Step: 3081 | total loss: 2.81731 | time: 0.279s
| Adam | epoch: 281 | loss: 2.81731 - acc: 0.3156 -- iter: 0512/5208
Training Step: 3082 | total loss: 2.83652 | time: 0.583s
| Adam | epoch: 281 | loss: 2.83652 - acc: 0.3140 -- iter: 1024/5208
Training Step: 3083 | total loss: 2.78580 | time: 0.840s
| Adam | epoch: 281 | loss: 2.78580 - acc: 0.3154 -- iter: 1536/5208
Training Step: 3084 | total loss: 2.69942 | time: 1.096s
| Adam | epoch: 281 | loss: 2.69942 - acc: 0.3145 -- iter: 2048/5208
Training Step: 3085 | total loss: 2.61300 | time: 1.385s
| Adam | epoch: 281 | loss: 2.61300 - acc: 0.3137 -- iter: 2560/5208
Training Step: 3086 | total loss: 2.63617 | time: 1.638s
| Adam | epoch: 281 | loss: 2.63617 - acc: 0.3121 -- iter: 3072/5208
Training Step: 3087 | total loss: 2.59859 | time: 1.976s
| Adam | epoch: 281 | loss: 2.59859 - acc: 0.3115 -- iter: 3584/5208
```

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Training Step: 3088 | total loss: 2.62929 | time: 2.239s
| Adam | epoch: 281 | loss: 2.62929 - acc: 0.3095 -- iter: 4096/5208
Training Step: 3089 | total loss: 2.65482 | time: 2.564s
| Adam | epoch: 281 | loss: 2.65482 - acc: 0.3098 -- iter: 4608/5208
Training Step: 3090 | total loss: 2.64480 | time: 2.891s
| Adam | epoch: 281 | loss: 2.64480 - acc: 0.3114 -- iter: 5120/5208
Training Step: 3091 | total loss: 2.64275 | time: 3.171s
| Adam | epoch: 281 | loss: 2.64275 - acc: 0.3131 -- iter: 5208/5208
--
Training Step: 3092 | total loss: 2.62839 | time: 0.290s
| Adam | epoch: 282 | loss: 2.62839 - acc: 0.3119 -- iter: 0512/5208
Training Step: 3093 | total loss: 2.60257 | time: 0.582s
| Adam | epoch: 282 | loss: 2.60257 - acc: 0.3096 -- iter: 1024/5208
Training Step: 3094 | total loss: 2.56537 | time: 0.881s
| Adam | epoch: 282 | loss: 2.56537 - acc: 0.3105 -- iter: 1536/5208
Training Step: 3095 | total loss: 2.56493 | time: 1.098s
| Adam | epoch: 282 | loss: 2.56493 - acc: 0.3122 -- iter: 2048/5208
Training Step: 3096 | total loss: 2.59040 | time: 1.351s
| Adam | epoch: 282 | loss: 2.59040 - acc: 0.3128 -- iter: 2560/5208
Training Step: 3097 | total loss: 2.60726 | time: 1.612s
| Adam | epoch: 282 | loss: 2.60726 - acc: 0.3156 -- iter: 3072/5208
Training Step: 3098 | total loss: 2.61063 | time: 1.915s
| Adam | epoch: 282 | loss: 2.61063 - acc: 0.3169 -- iter: 3584/5208
Training Step: 3099 | total loss: 2.60563 | time: 2.182s
| Adam | epoch: 282 | loss: 2.60563 - acc: 0.3129 -- iter: 4096/5208
Training Step: 3100 | total loss: 2.80257 | time: 2.460s
| Adam | epoch: 282 | loss: 2.80257 - acc: 0.3103 -- iter: 4608/5208
Training Step: 3101 | total loss: 2.75574 | time: 2.745s
| Adam | epoch: 282 | loss: 2.75574 - acc: 0.3092 -- iter: 5120/5208
Training Step: 3102 | total loss: 2.75835 | time: 3.033s
| Adam | epoch: 282 | loss: 2.75835 - acc: 0.3115 -- iter: 5208/5208
--
Training Step: 3103 | total loss: 2.72282 | time: 0.310s
| Adam | epoch: 283 | loss: 2.72282 - acc: 0.3133 -- iter: 0512/5208
Training Step: 3104 | total loss: 2.67071 | time: 0.578s
| Adam | epoch: 283 | loss: 2.67071 - acc: 0.3146 -- iter: 1024/5208
Training Step: 3105 | total loss: 2.70097 | time: 0.874s
| Adam | epoch: 283 | loss: 2.70097 - acc: 0.3154 -- iter: 1536/5208
Training Step: 3106 | total loss: 2.72042 | time: 1.166s
| Adam | epoch: 283 | loss: 2.72042 - acc: 0.3135 -- iter: 2048/5208
Training Step: 3107 | total loss: 2.68058 | time: 1.390s
| Adam | epoch: 283 | loss: 2.68058 - acc: 0.3162 -- iter: 2560/5208
Training Step: 3108 | total loss: 2.73638 | time: 1.636s
| Adam | epoch: 283 | loss: 2.73638 - acc: 0.3141 -- iter: 3072/5208
Training Step: 3109 | total loss: 2.77487 | time: 1.927s
| Adam | epoch: 283 | loss: 2.77487 - acc: 0.3156 -- iter: 3584/5208
Training Step: 3110 | total loss: 2.73773 | time: 2.194s
| Adam | epoch: 283 | loss: 2.73773 - acc: 0.3198 -- iter: 4096/5208
Training Step: 3111 | total loss: 2.73523 | time: 2.490s
| Adam | epoch: 283 | loss: 2.73523 - acc: 0.3183 -- iter: 4608/5208
Training Step: 3112 | total loss: 3.03592 | time: 2.811s
| Adam | epoch: 283 | loss: 3.03592 - acc: 0.3166 -- iter: 5120/5208
Training Step: 3113 | total loss: 2.98135 | time: 3.084s
| Adam | epoch: 283 | loss: 2.98135 - acc: 0.3158 -- iter: 5208/5208
--
Training Step: 3114 | total loss: 2.89438 | time: 0.294s
| Adam | epoch: 284 | loss: 2.89438 - acc: 0.3135 -- iter: 0512/5208
Training Step: 3115 | total loss: 2.82524 | time: 0.575s
| Adam | epoch: 284 | loss: 2.82524 - acc: 0.3165 -- iter: 1024/5208
Training Step: 3116 | total loss: 2.83293 | time: 0.910s
| Adam | epoch: 284 | loss: 2.83293 - acc: 0.3169 -- iter: 1536/5208
Training Step: 3117 | total loss: 2.80414 | time: 1.209s
| Adam | epoch: 284 | loss: 2.80414 - acc: 0.3184 -- iter: 2048/5208
Training Step: 3118 | total loss: 2.80539 | time: 1.516s
| Adam | epoch: 284 | loss: 2.80539 - acc: 0.3178 -- iter: 2560/5208
Training Step: 3119 | total loss: 2.77792 | time: 1.759s
| Adam | epoch: 284 | loss: 2.77792 - acc: 0.3192 -- iter: 3072/5208
Training Step: 3120 | total loss: 2.71030 | time: 1.994s
| Adam | epoch: 284 | loss: 2.71030 - acc: 0.3259 -- iter: 3584/5208
Training Step: 3121 | total loss: 2.64042 | time: 2.302s
| Adam | epoch: 284 | loss: 2.64042 - acc: 0.3309 -- iter: 4096/5208
Training Step: 3122 | total loss: 2.63920 | time: 2.566s
| Adam | epoch: 284 | loss: 2.63920 - acc: 0.3294 -- iter: 4608/5208
Training Step: 3123 | total loss: 2.61915 | time: 2.839s
| Adam | epoch: 284 | loss: 2.61915 - acc: 0.3299 -- iter: 5120/5208
Training Step: 3124 | total loss: 3.09537 | time: 3.181s
| Adam | epoch: 284 | loss: 3.09537 - acc: 0.3275 -- iter: 5208/5208
--
Training Step: 3125 | total loss: 3.03918 | time: 0.269s
| Adam | epoch: 285 | loss: 3.03918 - acc: 0.3282 -- iter: 0512/5208
Training Step: 3126 | total loss: 2.98935 | time: 0.566s
| Adam | epoch: 285 | loss: 2.98935 - acc: 0.3262 -- iter: 1024/5208
Training Step: 3127 | total loss: 2.95627 | time: 0.867s
```

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| Adam | epoch: 285 | loss: 2.95627 - acc: 0.3235 -- iter: 1536/5208
Training Step: 3128 | total loss: 2.90083 | time: 1.185s
| Adam | epoch: 285 | loss: 2.90083 - acc: 0.3228 -- iter: 2048/5208
Training Step: 3129 | total loss: 2.82770 | time: 1.470s
| Adam | epoch: 285 | loss: 2.82770 - acc: 0.3235 -- iter: 2560/5208
Training Step: 3130 | total loss: 2.83263 | time: 1.786s
| Adam | epoch: 285 | loss: 2.83263 - acc: 0.3224 -- iter: 3072/5208
Training Step: 3131 | total loss: 2.77391 | time: 1.998s
| Adam | epoch: 285 | loss: 2.77391 - acc: 0.3240 -- iter: 3584/5208
Training Step: 3132 | total loss: 2.82278 | time: 2.249s
| Adam | epoch: 285 | loss: 2.82278 - acc: 0.3234 -- iter: 4096/5208
Training Step: 3133 | total loss: 2.86075 | time: 2.517s
| Adam | epoch: 285 | loss: 2.86075 - acc: 0.3251 -- iter: 4608/5208
Training Step: 3134 | total loss: 2.84593 | time: 2.826s
| Adam | epoch: 285 | loss: 2.84593 - acc: 0.3266 -- iter: 5120/5208
Training Step: 3135 | total loss: 2.82853 | time: 3.089s
| Adam | epoch: 285 | loss: 2.82853 - acc: 0.3258 -- iter: 5208/5208
--
Training Step: 3136 | total loss: 3.31850 | time: 0.288s
| Adam | epoch: 286 | loss: 3.31850 - acc: 0.3217 -- iter: 0512/5208
Training Step: 3137 | total loss: 3.28530 | time: 0.582s
| Adam | epoch: 286 | loss: 3.28530 - acc: 0.3218 -- iter: 1024/5208
Training Step: 3138 | total loss: 3.25645 | time: 0.871s
| Adam | epoch: 286 | loss: 3.25645 - acc: 0.3251 -- iter: 1536/5208
Training Step: 3139 | total loss: 3.20925 | time: 1.163s
| Adam | epoch: 286 | loss: 3.20925 - acc: 0.3233 -- iter: 2048/5208
Training Step: 3140 | total loss: 3.12399 | time: 1.434s
| Adam | epoch: 286 | loss: 3.12399 - acc: 0.3195 -- iter: 2560/5208
Training Step: 3141 | total loss: 3.02869 | time: 1.752s
| Adam | epoch: 286 | loss: 3.02869 - acc: 0.3203 -- iter: 3072/5208
Training Step: 3142 | total loss: 2.94474 | time: 2.039s
| Adam | epoch: 286 | loss: 2.94474 - acc: 0.3209 -- iter: 3584/5208
Training Step: 3143 | total loss: 2.91983 | time: 2.259s
| Adam | epoch: 286 | loss: 2.91983 - acc: 0.3213 -- iter: 4096/5208
Training Step: 3144 | total loss: 2.85756 | time: 2.511s
| Adam | epoch: 286 | loss: 2.85756 - acc: 0.3198 -- iter: 4608/5208
Training Step: 3145 | total loss: 2.79013 | time: 2.829s
| Adam | epoch: 286 | loss: 2.79013 - acc: 0.3185 -- iter: 5120/5208
Training Step: 3146 | total loss: 2.77129 | time: 3.106s
| Adam | epoch: 286 | loss: 2.77129 - acc: 0.3169 -- iter: 5208/5208
--
Training Step: 3147 | total loss: 2.75076 | time: 0.272s
| Adam | epoch: 287 | loss: 2.75076 - acc: 0.3192 -- iter: 0512/5208
Training Step: 3148 | total loss: 2.84454 | time: 0.553s
| Adam | epoch: 287 | loss: 2.84454 - acc: 0.3172 -- iter: 1024/5208
Training Step: 3149 | total loss: 2.85529 | time: 0.878s
| Adam | epoch: 287 | loss: 2.85529 - acc: 0.3161 -- iter: 1536/5208
Training Step: 3150 | total loss: 2.77369 | time: 1.168s
| Adam | epoch: 287 | loss: 2.77369 - acc: 0.3167 -- iter: 2048/5208
Training Step: 3151 | total loss: 2.77716 | time: 1.453s
| Adam | epoch: 287 | loss: 2.77716 - acc: 0.3171 -- iter: 2560/5208
Training Step: 3152 | total loss: 2.74779 | time: 1.750s
| Adam | epoch: 287 | loss: 2.74779 - acc: 0.3186 -- iter: 3072/5208
Training Step: 3153 | total loss: 2.72987 | time: 2.045s
| Adam | epoch: 287 | loss: 2.72987 - acc: 0.3203 -- iter: 3584/5208
Training Step: 3154 | total loss: 2.71230 | time: 2.321s
| Adam | epoch: 287 | loss: 2.71230 - acc: 0.3225 -- iter: 4096/5208
Training Step: 3155 | total loss: 2.67535 | time: 2.564s
| Adam | epoch: 287 | loss: 2.67535 - acc: 0.3209 -- iter: 4608/5208
Training Step: 3156 | total loss: 2.71740 | time: 2.781s
| Adam | epoch: 287 | loss: 2.71740 - acc: 0.3161 -- iter: 5120/5208
Training Step: 3157 | total loss: 2.75437 | time: 3.079s
| Adam | epoch: 287 | loss: 2.75437 - acc: 0.3083 -- iter: 5208/5208
--
Training Step: 3158 | total loss: 2.75369 | time: 0.239s
| Adam | epoch: 288 | loss: 2.75369 - acc: 0.3084 -- iter: 0512/5208
Training Step: 3159 | total loss: 2.72229 | time: 0.523s
| Adam | epoch: 288 | loss: 2.72229 - acc: 0.3113 -- iter: 1024/5208
Training Step: 3160 | total loss: 3.00115 | time: 0.830s
| Adam | epoch: 288 | loss: 3.00115 - acc: 0.3116 -- iter: 1536/5208
Training Step: 3161 | total loss: 2.95628 | time: 1.145s
| Adam | epoch: 288 | loss: 2.95628 - acc: 0.3068 -- iter: 2048/5208
Training Step: 3162 | total loss: 2.89727 | time: 1.439s
| Adam | epoch: 288 | loss: 2.89727 - acc: 0.3082 -- iter: 2560/5208
Training Step: 3163 | total loss: 2.86614 | time: 1.748s
| Adam | epoch: 288 | loss: 2.86614 - acc: 0.3113 -- iter: 3072/5208
Training Step: 3164 | total loss: 2.89116 | time: 2.065s
| Adam | epoch: 288 | loss: 2.89116 - acc: 0.3113 -- iter: 3584/5208
Training Step: 3165 | total loss: 2.85832 | time: 2.357s
| Adam | epoch: 288 | loss: 2.85832 - acc: 0.3100 -- iter: 4096/5208
Training Step: 3166 | total loss: 2.79019 | time: 2.677s
| Adam | epoch: 288 | loss: 2.79019 - acc: 0.3103 -- iter: 4608/5208
Training Step: 3167 | total loss: 2.74513 | time: 2.895s
```

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| Adam | epoch: 288 | loss: 2.74513 - acc: 0.3144 -- iter: 5120/5208
Training Step: 3168 | total loss: 2.76027 | time: 3.158s
| Adam | epoch: 288 | loss: 2.76027 - acc: 0.3114 -- iter: 5208/5208
--
Training Step: 3169 | total loss: 2.76256 | time: 0.286s
| Adam | epoch: 289 | loss: 2.76256 - acc: 0.3132 -- iter: 0512/5208
Training Step: 3170 | total loss: 2.75077 | time: 0.574s
| Adam | epoch: 289 | loss: 2.75077 - acc: 0.3180 -- iter: 1024/5208
Training Step: 3171 | total loss: 2.71805 | time: 0.844s
| Adam | epoch: 289 | loss: 2.71805 - acc: 0.3196 -- iter: 1536/5208
Training Step: 3172 | total loss: 3.01474 | time: 1.122s
| Adam | epoch: 289 | loss: 3.01474 - acc: 0.3193 -- iter: 2048/5208
Training Step: 3173 | total loss: 2.95343 | time: 1.465s
| Adam | epoch: 289 | loss: 2.95343 - acc: 0.3219 -- iter: 2560/5208
Training Step: 3174 | total loss: 2.98307 | time: 1.747s
| Adam | epoch: 289 | loss: 2.98307 - acc: 0.3214 -- iter: 3072/5208
Training Step: 3175 | total loss: 2.96360 | time: 2.055s
| Adam | epoch: 289 | loss: 2.96360 - acc: 0.3189 -- iter: 3584/5208
Training Step: 3176 | total loss: 2.92324 | time: 2.329s
| Adam | epoch: 289 | loss: 2.92324 - acc: 0.3220 -- iter: 4096/5208
Training Step: 3177 | total loss: 2.88473 | time: 2.630s
| Adam | epoch: 289 | loss: 2.88473 - acc: 0.3205 -- iter: 4608/5208
Training Step: 3178 | total loss: 2.85831 | time: 2.950s
| Adam | epoch: 289 | loss: 2.85831 - acc: 0.3212 -- iter: 5120/5208
Training Step: 3179 | total loss: 2.79697 | time: 3.170s
| Adam | epoch: 289 | loss: 2.79697 - acc: 0.3229 -- iter: 5208/5208
--
Training Step: 3180 | total loss: 2.76336 | time: 0.266s
| Adam | epoch: 290 | loss: 2.76336 - acc: 0.3224 -- iter: 0512/5208
Training Step: 3181 | total loss: 2.72166 | time: 0.576s
| Adam | epoch: 290 | loss: 2.72166 - acc: 0.3174 -- iter: 1024/5208
Training Step: 3182 | total loss: 2.67533 | time: 0.849s
| Adam | epoch: 290 | loss: 2.67533 - acc: 0.3168 -- iter: 1536/5208
Training Step: 3183 | total loss: 2.65884 | time: 1.153s
| Adam | epoch: 290 | loss: 2.65884 - acc: 0.3138 -- iter: 2048/5208
Training Step: 3184 | total loss: 2.71580 | time: 1.449s
| Adam | epoch: 290 | loss: 2.71580 - acc: 0.3164 -- iter: 2560/5208
Training Step: 3185 | total loss: 2.66428 | time: 1.770s
| Adam | epoch: 290 | loss: 2.66428 - acc: 0.3170 -- iter: 3072/5208
Training Step: 3186 | total loss: 2.66524 | time: 2.058s
| Adam | epoch: 290 | loss: 2.66524 - acc: 0.3171 -- iter: 3584/5208
Training Step: 3187 | total loss: 2.69104 | time: 2.356s
| Adam | epoch: 290 | loss: 2.69104 - acc: 0.3184 -- iter: 4096/5208
Training Step: 3188 | total loss: 2.65974 | time: 2.658s
| Adam | epoch: 290 | loss: 2.65974 - acc: 0.3200 -- iter: 4608/5208
Training Step: 3189 | total loss: 2.64865 | time: 2.933s
| Adam | epoch: 290 | loss: 2.64865 - acc: 0.3167 -- iter: 5120/5208
Training Step: 3190 | total loss: 2.61149 | time: 3.205s
| Adam | epoch: 290 | loss: 2.61149 - acc: 0.3174 -- iter: 5208/5208
--
Training Step: 3191 | total loss: 2.60653 | time: 0.235s
| Adam | epoch: 291 | loss: 2.60653 - acc: 0.3205 -- iter: 0512/5208
Training Step: 3192 | total loss: 2.59421 | time: 0.505s
| Adam | epoch: 291 | loss: 2.59421 - acc: 0.3191 -- iter: 1024/5208
Training Step: 3193 | total loss: 2.55995 | time: 0.781s
| Adam | epoch: 291 | loss: 2.55995 - acc: 0.3179 -- iter: 1536/5208
Training Step: 3194 | total loss: 2.55792 | time: 1.066s
| Adam | epoch: 291 | loss: 2.55792 - acc: 0.3142 -- iter: 2048/5208
Training Step: 3195 | total loss: 2.54320 | time: 1.334s
| Adam | epoch: 291 | loss: 2.54320 - acc: 0.3133 -- iter: 2560/5208
Training Step: 3196 | total loss: 2.60367 | time: 1.625s
| Adam | epoch: 291 | loss: 2.60367 - acc: 0.3142 -- iter: 3072/5208
Training Step: 3197 | total loss: 2.62434 | time: 1.896s
| Adam | epoch: 291 | loss: 2.62434 - acc: 0.3157 -- iter: 3584/5208
Training Step: 3198 | total loss: 2.60575 | time: 2.179s
| Adam | epoch: 291 | loss: 2.60575 - acc: 0.3176 -- iter: 4096/5208
Training Step: 3199 | total loss: 2.59335 | time: 2.475s
| Adam | epoch: 291 | loss: 2.59335 - acc: 0.3196 -- iter: 4608/5208
Training Step: 3200 | total loss: 2.58465 | time: 2.778s
| Adam | epoch: 291 | loss: 2.58465 - acc: 0.3169 -- iter: 5120/5208
Training Step: 3201 | total loss: 2.63476 | time: 3.123s
| Adam | epoch: 291 | loss: 2.63476 - acc: 0.3153 -- iter: 5208/5208
--
Training Step: 3202 | total loss: 2.60250 | time: 0.261s
| Adam | epoch: 292 | loss: 2.60250 - acc: 0.3186 -- iter: 0512/5208
Training Step: 3203 | total loss: 2.58484 | time: 0.522s
| Adam | epoch: 292 | loss: 2.58484 - acc: 0.3158 -- iter: 1024/5208
Training Step: 3204 | total loss: 2.66145 | time: 0.724s
| Adam | epoch: 292 | loss: 2.66145 - acc: 0.3297 -- iter: 1536/5208
Training Step: 3205 | total loss: 2.72409 | time: 1.064s
| Adam | epoch: 292 | loss: 2.72409 - acc: 0.3388 -- iter: 2048/5208
Training Step: 3206 | total loss: 2.65227 | time: 1.331s
| Adam | epoch: 292 | loss: 2.65227 - acc: 0.3393 -- iter: 2560/5208
```



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Training Step: 3207 | total loss: 2.66083 | time: 1.598s
| Adam | epoch: 292 | loss: 2.66083 - acc: 0.3342 -- iter: 3072/5208
Training Step: 3208 | total loss: 2.65301 | time: 1.886s
| Adam | epoch: 292 | loss: 2.65301 - acc: 0.3332 -- iter: 3584/5208
Training Step: 3209 | total loss: 2.63756 | time: 2.188s
| Adam | epoch: 292 | loss: 2.63756 - acc: 0.3317 -- iter: 4096/5208
Training Step: 3210 | total loss: 2.62858 | time: 2.489s
| Adam | epoch: 292 | loss: 2.62858 - acc: 0.3324 -- iter: 4608/5208
Training Step: 3211 | total loss: 2.63439 | time: 2.779s
| Adam | epoch: 292 | loss: 2.63439 - acc: 0.3312 -- iter: 5120/5208
Training Step: 3212 | total loss: 2.62400 | time: 3.080s
| Adam | epoch: 292 | loss: 2.62400 - acc: 0.3299 -- iter: 5208/5208
--
Training Step: 3213 | total loss: 2.62261 | time: 0.318s
| Adam | epoch: 293 | loss: 2.62261 - acc: 0.3291 -- iter: 0512/5208
Training Step: 3214 | total loss: 2.60515 | time: 0.647s
| Adam | epoch: 293 | loss: 2.60515 - acc: 0.3292 -- iter: 1024/5208
Training Step: 3215 | total loss: 2.58384 | time: 0.861s
| Adam | epoch: 293 | loss: 2.58384 - acc: 0.3299 -- iter: 1536/5208
Training Step: 3216 | total loss: 2.55135 | time: 1.116s
| Adam | epoch: 293 | loss: 2.55135 - acc: 0.3333 -- iter: 2048/5208
Training Step: 3217 | total loss: 2.52290 | time: 1.412s
| Adam | epoch: 293 | loss: 2.52290 - acc: 0.3318 -- iter: 2560/5208
Training Step: 3218 | total loss: 2.54801 | time: 1.676s
| Adam | epoch: 293 | loss: 2.54801 - acc: 0.3343 -- iter: 3072/5208
Training Step: 3219 | total loss: 2.53096 | time: 1.932s
| Adam | epoch: 293 | loss: 2.53096 - acc: 0.3302 -- iter: 3584/5208
Training Step: 3220 | total loss: 2.51136 | time: 2.227s
| Adam | epoch: 293 | loss: 2.51136 - acc: 0.3302 -- iter: 4096/5208
Training Step: 3221 | total loss: 2.51027 | time: 2.566s
| Adam | epoch: 293 | loss: 2.51027 - acc: 0.3288 -- iter: 4608/5208
Training Step: 3222 | total loss: 2.51624 | time: 2.838s
| Adam | epoch: 293 | loss: 2.51624 - acc: 0.3283 -- iter: 5120/5208
Training Step: 3223 | total loss: 2.53905 | time: 3.122s
| Adam | epoch: 293 | loss: 2.53905 - acc: 0.3258 -- iter: 5208/5208
--
Training Step: 3224 | total loss: 2.52638 | time: 0.307s
| Adam | epoch: 294 | loss: 2.52638 - acc: 0.3264 -- iter: 0512/5208
Training Step: 3225 | total loss: 2.53833 | time: 0.613s
| Adam | epoch: 294 | loss: 2.53833 - acc: 0.3235 -- iter: 1024/5208
Training Step: 3226 | total loss: 2.51643 | time: 0.906s
| Adam | epoch: 294 | loss: 2.51643 - acc: 0.3267 -- iter: 1536/5208
Training Step: 3227 | total loss: 2.53548 | time: 1.126s
| Adam | epoch: 294 | loss: 2.53548 - acc: 0.3280 -- iter: 2048/5208
Training Step: 3228 | total loss: 2.53590 | time: 1.374s
| Adam | epoch: 294 | loss: 2.53590 - acc: 0.3202 -- iter: 2560/5208
Training Step: 3229 | total loss: 2.52611 | time: 1.689s
| Adam | epoch: 294 | loss: 2.52611 - acc: 0.3200 -- iter: 3072/5208
Training Step: 3230 | total loss: 2.53394 | time: 1.957s
| Adam | epoch: 294 | loss: 2.53394 - acc: 0.3214 -- iter: 3584/5208
Training Step: 3231 | total loss: 2.49260 | time: 2.244s
| Adam | epoch: 294 | loss: 2.49260 - acc: 0.3215 -- iter: 4096/5208
Training Step: 3232 | total loss: 2.44551 | time: 2.536s
| Adam | epoch: 294 | loss: 2.44551 - acc: 0.3206 -- iter: 4608/5208
Training Step: 3233 | total loss: 2.45873 | time: 2.818s
| Adam | epoch: 294 | loss: 2.45873 - acc: 0.3186 -- iter: 5120/5208
Training Step: 3234 | total loss: 2.44532 | time: 3.130s
| Adam | epoch: 294 | loss: 2.44532 - acc: 0.3205 -- iter: 5208/5208
--
Training Step: 3235 | total loss: 2.43476 | time: 0.315s
| Adam | epoch: 295 | loss: 2.43476 - acc: 0.3230 -- iter: 0512/5208
Training Step: 3236 | total loss: 2.48733 | time: 0.596s
| Adam | epoch: 295 | loss: 2.48733 - acc: 0.3255 -- iter: 1024/5208
Training Step: 3237 | total loss: 2.50031 | time: 0.906s
| Adam | epoch: 295 | loss: 2.50031 - acc: 0.3252 -- iter: 1536/5208
Training Step: 3238 | total loss: 2.49353 | time: 1.229s
| Adam | epoch: 295 | loss: 2.49353 - acc: 0.3235 -- iter: 2048/5208
Training Step: 3239 | total loss: 2.46898 | time: 1.463s
| Adam | epoch: 295 | loss: 2.46898 - acc: 0.3244 -- iter: 2560/5208
Training Step: 3240 | total loss: 2.45175 | time: 1.715s
| Adam | epoch: 295 | loss: 2.45175 - acc: 0.3294 -- iter: 3072/5208
Training Step: 3241 | total loss: 2.42464 | time: 1.982s
| Adam | epoch: 295 | loss: 2.42464 - acc: 0.3374 -- iter: 3584/5208
Training Step: 3242 | total loss: 2.46601 | time: 2.270s
| Adam | epoch: 295 | loss: 2.46601 - acc: 0.3374 -- iter: 4096/5208
Training Step: 3243 | total loss: 2.45964 | time: 2.535s
| Adam | epoch: 295 | loss: 2.45964 - acc: 0.3361 -- iter: 4608/5208
Training Step: 3244 | total loss: 2.43743 | time: 2.841s
| Adam | epoch: 295 | loss: 2.43743 - acc: 0.3316 -- iter: 5120/5208
Training Step: 3245 | total loss: 2.43901 | time: 3.120s
| Adam | epoch: 295 | loss: 2.43901 - acc: 0.3315 -- iter: 5208/5208
--
Training Step: 3246 | total loss: 2.42276 | time: 0.295s
```

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| Adam | epoch: 296 | loss: 2.42276 - acc: 0.3327 -- iter: 0512/5208
Training Step: 3247 | total loss: 2.46631 | time: 0.596s
| Adam | epoch: 296 | loss: 2.46631 - acc: 0.3342 -- iter: 1024/5208
Training Step: 3248 | total loss: 2.48401 | time: 0.871s
| Adam | epoch: 296 | loss: 2.48401 - acc: 0.3310 -- iter: 1536/5208
Training Step: 3249 | total loss: 2.47052 | time: 1.176s
| Adam | epoch: 296 | loss: 2.47052 - acc: 0.3345 -- iter: 2048/5208
Training Step: 3250 | total loss: 2.49117 | time: 1.490s
| Adam | epoch: 296 | loss: 2.49117 - acc: 0.3325 -- iter: 2560/5208
Training Step: 3251 | total loss: 2.49778 | time: 1.705s
| Adam | epoch: 296 | loss: 2.49778 - acc: 0.3352 -- iter: 3072/5208
Training Step: 3252 | total loss: 2.46845 | time: 1.945s
| Adam | epoch: 296 | loss: 2.46845 - acc: 0.3335 -- iter: 3584/5208
Training Step: 3253 | total loss: 2.43572 | time: 2.209s
| Adam | epoch: 296 | loss: 2.43572 - acc: 0.3331 -- iter: 4096/5208
Training Step: 3254 | total loss: 2.45975 | time: 2.500s
| Adam | epoch: 296 | loss: 2.45975 - acc: 0.3359 -- iter: 4608/5208
Training Step: 3255 | total loss: 2.41621 | time: 2.750s
| Adam | epoch: 296 | loss: 2.41621 - acc: 0.3293 -- iter: 5120/5208
Training Step: 3256 | total loss: 2.52003 | time: 3.036s
| Adam | epoch: 296 | loss: 2.52003 - acc: 0.3319 -- iter: 5208/5208
--
Training Step: 3257 | total loss: 2.53318 | time: 0.295s
| Adam | epoch: 297 | loss: 2.53318 - acc: 0.3299 -- iter: 0512/5208
Training Step: 3258 | total loss: 2.57171 | time: 0.621s
| Adam | epoch: 297 | loss: 2.57171 - acc: 0.3303 -- iter: 1024/5208
Training Step: 3259 | total loss: 2.51027 | time: 0.909s
| Adam | epoch: 297 | loss: 2.51027 - acc: 0.3278 -- iter: 1536/5208
Training Step: 3260 | total loss: 2.48199 | time: 1.197s
| Adam | epoch: 297 | loss: 2.48199 - acc: 0.3268 -- iter: 2048/5208
Training Step: 3261 | total loss: 2.45070 | time: 1.507s
| Adam | epoch: 297 | loss: 2.45070 - acc: 0.3283 -- iter: 2560/5208
Training Step: 3262 | total loss: 2.49040 | time: 1.788s
| Adam | epoch: 297 | loss: 2.49040 - acc: 0.3283 -- iter: 3072/5208
Training Step: 3263 | total loss: 2.48111 | time: 2.036s
| Adam | epoch: 297 | loss: 2.48111 - acc: 0.3295 -- iter: 3584/5208
Training Step: 3264 | total loss: 2.47672 | time: 2.280s
| Adam | epoch: 297 | loss: 2.47672 - acc: 0.3215 -- iter: 4096/5208
Training Step: 3265 | total loss: 2.45159 | time: 2.600s
| Adam | epoch: 297 | loss: 2.45159 - acc: 0.3223 -- iter: 4608/5208
Training Step: 3266 | total loss: 2.43264 | time: 2.847s
| Adam | epoch: 297 | loss: 2.43264 - acc: 0.3254 -- iter: 5120/5208
Training Step: 3267 | total loss: 2.43570 | time: 3.134s
| Adam | epoch: 297 | loss: 2.43570 - acc: 0.3241 -- iter: 5208/5208
--
Training Step: 3268 | total loss: 2.47287 | time: 0.263s
| Adam | epoch: 298 | loss: 2.47287 - acc: 0.3255 -- iter: 0512/5208
Training Step: 3269 | total loss: 2.48491 | time: 0.546s
| Adam | epoch: 298 | loss: 2.48491 - acc: 0.3238 -- iter: 1024/5208
Training Step: 3270 | total loss: 2.46215 | time: 0.842s
| Adam | epoch: 298 | loss: 2.46215 - acc: 0.3221 -- iter: 1536/5208
Training Step: 3271 | total loss: 2.45061 | time: 1.122s
| Adam | epoch: 298 | loss: 2.45061 - acc: 0.3204 -- iter: 2048/5208
Training Step: 3272 | total loss: 2.43696 | time: 1.428s
| Adam | epoch: 298 | loss: 2.43696 - acc: 0.3200 -- iter: 2560/5208
Training Step: 3273 | total loss: 2.44050 | time: 1.734s
| Adam | epoch: 298 | loss: 2.44050 - acc: 0.3223 -- iter: 3072/5208
Training Step: 3274 | total loss: 2.43289 | time: 2.055s
| Adam | epoch: 298 | loss: 2.43289 - acc: 0.3210 -- iter: 3584/5208
Training Step: 3275 | total loss: 2.42871 | time: 2.314s
| Adam | epoch: 298 | loss: 2.42871 - acc: 0.3215 -- iter: 4096/5208
Training Step: 3276 | total loss: 2.39768 | time: 2.549s
| Adam | epoch: 298 | loss: 2.39768 - acc: 0.3291 -- iter: 4608/5208
Training Step: 3277 | total loss: 2.36050 | time: 2.862s
| Adam | epoch: 298 | loss: 2.36050 - acc: 0.3428 -- iter: 5120/5208
Training Step: 3278 | total loss: 2.38875 | time: 3.129s
| Adam | epoch: 298 | loss: 2.38875 - acc: 0.3429 -- iter: 5208/5208
--
Training Step: 3279 | total loss: 2.43813 | time: 0.271s
| Adam | epoch: 299 | loss: 2.43813 - acc: 0.3436 -- iter: 0512/5208
Training Step: 3280 | total loss: 2.46502 | time: 0.587s
| Adam | epoch: 299 | loss: 2.46502 - acc: 0.3408 -- iter: 1024/5208
Training Step: 3281 | total loss: 2.45135 | time: 0.882s
| Adam | epoch: 299 | loss: 2.45135 - acc: 0.3411 -- iter: 1536/5208
Training Step: 3282 | total loss: 2.48497 | time: 1.148s
| Adam | epoch: 299 | loss: 2.48497 - acc: 0.3457 -- iter: 2048/5208
Training Step: 3283 | total loss: 2.47688 | time: 1.443s
| Adam | epoch: 299 | loss: 2.47688 - acc: 0.3420 -- iter: 2560/5208
Training Step: 3284 | total loss: 2.50037 | time: 1.736s
| Adam | epoch: 299 | loss: 2.50037 - acc: 0.3369 -- iter: 3072/5208
Training Step: 3285 | total loss: 2.47447 | time: 2.009s
| Adam | epoch: 299 | loss: 2.47447 - acc: 0.3350 -- iter: 3584/5208
Training Step: 3286 | total loss: 2.47365 | time: 2.288s
```



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| Adam | epoch: 299 | loss: 2.47365 - acc: 0.3355 -- iter: 4096/5208
Training Step: 3287 | total loss: 2.48994 | time: 2.525s
| Adam | epoch: 299 | loss: 2.48994 - acc: 0.3358 -- iter: 4608/5208
Training Step: 3288 | total loss: 2.46182 | time: 2.770s
| Adam | epoch: 299 | loss: 2.46182 - acc: 0.3306 -- iter: 5120/5208
Training Step: 3289 | total loss: 2.42553 | time: 3.035s
| Adam | epoch: 299 | loss: 2.42553 - acc: 0.3293 -- iter: 5208/5208
--
Training Step: 3290 | total loss: 2.40416 | time: 0.290s
| Adam | epoch: 300 | loss: 2.40416 - acc: 0.3288 -- iter: 0512/5208
Training Step: 3291 | total loss: 2.41616 | time: 0.580s
| Adam | epoch: 300 | loss: 2.41616 - acc: 0.3301 -- iter: 1024/5208
Training Step: 3292 | total loss: 2.55934 | time: 0.857s
| Adam | epoch: 300 | loss: 2.55934 - acc: 0.3301 -- iter: 1536/5208
Training Step: 3293 | total loss: 2.53956 | time: 1.138s
| Adam | epoch: 300 | loss: 2.53956 - acc: 0.3311 -- iter: 2048/5208
Training Step: 3294 | total loss: 2.50450 | time: 1.449s
| Adam | epoch: 300 | loss: 2.50450 - acc: 0.3287 -- iter: 2560/5208
Training Step: 3295 | total loss: 2.48496 | time: 1.722s
| Adam | epoch: 300 | loss: 2.48496 - acc: 0.3311 -- iter: 3072/5208
Training Step: 3296 | total loss: 2.46710 | time: 2.023s
| Adam | epoch: 300 | loss: 2.46710 - acc: 0.3312 -- iter: 3584/5208
Training Step: 3297 | total loss: 2.46185 | time: 2.315s
| Adam | epoch: 300 | loss: 2.46185 - acc: 0.3295 -- iter: 4096/5208
Training Step: 3298 | total loss: 2.45211 | time: 2.650s
| Adam | epoch: 300 | loss: 2.45211 - acc: 0.3261 -- iter: 4608/5208
Training Step: 3299 | total loss: 2.43788 | time: 2.865s
| Adam | epoch: 300 | loss: 2.43788 - acc: 0.3265 -- iter: 5120/5208
Training Step: 3300 | total loss: 2.43295 | time: 3.111s
| Adam | epoch: 300 | loss: 2.43295 - acc: 0.3313 -- iter: 5208/5208
--
Training Step: 3301 | total loss: 2.43128 | time: 0.286s
| Adam | epoch: 301 | loss: 2.43128 - acc: 0.3346 -- iter: 0512/5208
Training Step: 3302 | total loss: 2.46946 | time: 0.562s
| Adam | epoch: 301 | loss: 2.46946 - acc: 0.3349 -- iter: 1024/5208
Training Step: 3303 | total loss: 2.50183 | time: 0.837s
| Adam | epoch: 301 | loss: 2.50183 - acc: 0.3321 -- iter: 1536/5208
Training Step: 3304 | total loss: 2.47013 | time: 1.167s
| Adam | epoch: 301 | loss: 2.47013 - acc: 0.3325 -- iter: 2048/5208
Training Step: 3305 | total loss: 2.44478 | time: 1.457s
| Adam | epoch: 301 | loss: 2.44478 - acc: 0.3344 -- iter: 2560/5208
Training Step: 3306 | total loss: 2.41138 | time: 1.741s
| Adam | epoch: 301 | loss: 2.41138 - acc: 0.3330 -- iter: 3072/5208
Training Step: 3307 | total loss: 2.40929 | time: 2.030s
| Adam | epoch: 301 | loss: 2.40929 - acc: 0.3323 -- iter: 3584/5208
Training Step: 3308 | total loss: 2.42803 | time: 2.299s
| Adam | epoch: 301 | loss: 2.42803 - acc: 0.3340 -- iter: 4096/5208
Training Step: 3309 | total loss: 2.47841 | time: 2.594s
| Adam | epoch: 301 | loss: 2.47841 - acc: 0.3373 -- iter: 4608/5208
Training Step: 3310 | total loss: 2.51860 | time: 2.886s
| Adam | epoch: 301 | loss: 2.51860 - acc: 0.3378 -- iter: 5120/5208
Training Step: 3311 | total loss: 2.48353 | time: 3.120s
| Adam | epoch: 301 | loss: 2.48353 - acc: 0.3356 -- iter: 5208/5208
--
Training Step: 3312 | total loss: 2.57998 | time: 0.258s
| Adam | epoch: 302 | loss: 2.57998 - acc: 0.3396 -- iter: 0512/5208
Training Step: 3313 | total loss: 2.65203 | time: 0.591s
| Adam | epoch: 302 | loss: 2.65203 - acc: 0.3397 -- iter: 1024/5208
Training Step: 3314 | total loss: 2.65809 | time: 0.852s
| Adam | epoch: 302 | loss: 2.65809 - acc: 0.3337 -- iter: 1536/5208
Training Step: 3315 | total loss: 2.61722 | time: 1.129s
| Adam | epoch: 302 | loss: 2.61722 - acc: 0.3368 -- iter: 2048/5208
Training Step: 3316 | total loss: 2.74083 | time: 1.439s
| Adam | epoch: 302 | loss: 2.74083 - acc: 0.3348 -- iter: 2560/5208
Training Step: 3317 | total loss: 2.76040 | time: 1.734s
| Adam | epoch: 302 | loss: 2.76040 - acc: 0.3320 -- iter: 3072/5208
Training Step: 3318 | total loss: 2.70617 | time: 2.007s
| Adam | epoch: 302 | loss: 2.70617 - acc: 0.3322 -- iter: 3584/5208
Training Step: 3319 | total loss: 2.65336 | time: 2.280s
| Adam | epoch: 302 | loss: 2.65336 - acc: 0.3322 -- iter: 4096/5208
Training Step: 3320 | total loss: 2.61790 | time: 2.581s
| Adam | epoch: 302 | loss: 2.61790 - acc: 0.3310 -- iter: 4608/5208
Training Step: 3321 | total loss: 2.58694 | time: 2.846s
| Adam | epoch: 302 | loss: 2.58694 - acc: 0.3324 -- iter: 5120/5208
Training Step: 3322 | total loss: 2.54992 | time: 3.148s
| Adam | epoch: 302 | loss: 2.54992 - acc: 0.3297 -- iter: 5208/5208
--
Training Step: 3323 | total loss: 2.52761 | time: 0.222s
| Adam | epoch: 303 | loss: 2.52761 - acc: 0.3291 -- iter: 0512/5208
Training Step: 3324 | total loss: 2.50115 | time: 0.474s
| Adam | epoch: 303 | loss: 2.50115 - acc: 0.3348 -- iter: 1024/5208
Training Step: 3325 | total loss: 2.47592 | time: 0.797s
| Adam | epoch: 303 | loss: 2.47592 - acc: 0.3400 -- iter: 1536/5208
```

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Training Step: 3326 | total loss: 2.46411 | time: 1.067s
| Adam | epoch: 303 | loss: 2.46411 - acc: 0.3441 -- iter: 2048/5208
Training Step: 3327 | total loss: 2.48705 | time: 1.363s
| Adam | epoch: 303 | loss: 2.48705 - acc: 0.3439 -- iter: 2560/5208
Training Step: 3328 | total loss: 2.47999 | time: 1.635s
| Adam | epoch: 303 | loss: 2.47999 - acc: 0.3450 -- iter: 3072/5208
Training Step: 3329 | total loss: 2.47048 | time: 1.934s
| Adam | epoch: 303 | loss: 2.47048 - acc: 0.3410 -- iter: 3584/5208
Training Step: 3330 | total loss: 2.47014 | time: 2.231s
| Adam | epoch: 303 | loss: 2.47014 - acc: 0.3403 -- iter: 4096/5208
Training Step: 3331 | total loss: 2.47868 | time: 2.519s
| Adam | epoch: 303 | loss: 2.47868 - acc: 0.3387 -- iter: 4608/5208
Training Step: 3332 | total loss: 2.49351 | time: 2.833s
| Adam | epoch: 303 | loss: 2.49351 - acc: 0.3384 -- iter: 5120/5208
Training Step: 3333 | total loss: 2.50262 | time: 3.121s
| Adam | epoch: 303 | loss: 2.50262 - acc: 0.3419 -- iter: 5208/5208
--
Training Step: 3334 | total loss: 2.47812 | time: 0.311s
| Adam | epoch: 304 | loss: 2.47812 - acc: 0.3440 -- iter: 0512/5208
Training Step: 3335 | total loss: 2.45166 | time: 0.562s
| Adam | epoch: 304 | loss: 2.45166 - acc: 0.3434 -- iter: 1024/5208
Training Step: 3336 | total loss: 2.47500 | time: 0.818s
| Adam | epoch: 304 | loss: 2.47500 - acc: 0.3488 -- iter: 1536/5208
Training Step: 3337 | total loss: 2.48248 | time: 1.100s
| Adam | epoch: 304 | loss: 2.48248 - acc: 0.3549 -- iter: 2048/5208
Training Step: 3338 | total loss: 2.48023 | time: 1.427s
| Adam | epoch: 304 | loss: 2.48023 - acc: 0.3526 -- iter: 2560/5208
Training Step: 3339 | total loss: 2.45058 | time: 1.691s
| Adam | epoch: 304 | loss: 2.45058 - acc: 0.3499 -- iter: 3072/5208
Training Step: 3340 | total loss: 2.56285 | time: 1.993s
| Adam | epoch: 304 | loss: 2.56285 - acc: 0.3442 -- iter: 3584/5208
Training Step: 3341 | total loss: 2.55854 | time: 2.281s
| Adam | epoch: 304 | loss: 2.55854 - acc: 0.3426 -- iter: 4096/5208
Training Step: 3342 | total loss: 2.54621 | time: 2.616s
| Adam | epoch: 304 | loss: 2.54621 - acc: 0.3443 -- iter: 4608/5208
Training Step: 3343 | total loss: 2.52577 | time: 2.931s
| Adam | epoch: 304 | loss: 2.52577 - acc: 0.3372 -- iter: 5120/5208
Training Step: 3344 | total loss: 2.50722 | time: 3.213s
| Adam | epoch: 304 | loss: 2.50722 - acc: 0.3373 -- iter: 5208/5208
--
Training Step: 3345 | total loss: 2.49401 | time: 0.344s
| Adam | epoch: 305 | loss: 2.49401 - acc: 0.3381 -- iter: 0512/5208
Training Step: 3346 | total loss: 2.49547 | time: 0.631s
| Adam | epoch: 305 | loss: 2.49547 - acc: 0.3385 -- iter: 1024/5208
Training Step: 3347 | total loss: 2.48872 | time: 0.858s
| Adam | epoch: 305 | loss: 2.48872 - acc: 0.3357 -- iter: 1536/5208
Training Step: 3348 | total loss: 2.48476 | time: 1.102s
| Adam | epoch: 305 | loss: 2.48476 - acc: 0.3385 -- iter: 2048/5208
Training Step: 3349 | total loss: 2.48118 | time: 1.414s
| Adam | epoch: 305 | loss: 2.48118 - acc: 0.3342 -- iter: 2560/5208
Training Step: 3350 | total loss: 2.46051 | time: 1.687s
| Adam | epoch: 305 | loss: 2.46051 - acc: 0.3353 -- iter: 3072/5208
Training Step: 3351 | total loss: 2.44667 | time: 1.983s
| Adam | epoch: 305 | loss: 2.44667 - acc: 0.3356 -- iter: 3584/5208
Training Step: 3352 | total loss: 2.88641 | time: 2.304s
| Adam | epoch: 305 | loss: 2.88641 - acc: 0.3335 -- iter: 4096/5208
Training Step: 3353 | total loss: 2.83828 | time: 2.590s
| Adam | epoch: 305 | loss: 2.83828 - acc: 0.3331 -- iter: 4608/5208
Training Step: 3354 | total loss: 2.81722 | time: 2.895s
| Adam | epoch: 305 | loss: 2.81722 - acc: 0.3313 -- iter: 5120/5208
Training Step: 3355 | total loss: 2.75047 | time: 3.205s
| Adam | epoch: 305 | loss: 2.75047 - acc: 0.3292 -- iter: 5208/5208
--
Training Step: 3356 | total loss: 2.73154 | time: 0.318s
| Adam | epoch: 306 | loss: 2.73154 - acc: 0.3307 -- iter: 0512/5208
Training Step: 3357 | total loss: 2.69882 | time: 0.604s
| Adam | epoch: 306 | loss: 2.69882 - acc: 0.3318 -- iter: 1024/5208
Training Step: 3358 | total loss: 2.68993 | time: 0.891s
| Adam | epoch: 306 | loss: 2.68993 - acc: 0.3324 -- iter: 1536/5208
Training Step: 3359 | total loss: 2.65869 | time: 1.125s
| Adam | epoch: 306 | loss: 2.65869 - acc: 0.3347 -- iter: 2048/5208
Training Step: 3360 | total loss: 2.72309 | time: 1.382s
| Adam | epoch: 306 | loss: 2.72309 - acc: 0.3387 -- iter: 2560/5208
Training Step: 3361 | total loss: 2.78135 | time: 1.668s
| Adam | epoch: 306 | loss: 2.78135 - acc: 0.3435 -- iter: 3072/5208
Training Step: 3362 | total loss: 2.74670 | time: 1.929s
| Adam | epoch: 306 | loss: 2.74670 - acc: 0.3390 -- iter: 3584/5208
Training Step: 3363 | total loss: 2.69592 | time: 2.211s
| Adam | epoch: 306 | loss: 2.69592 - acc: 0.3344 -- iter: 4096/5208
Training Step: 3364 | total loss: 2.65150 | time: 2.496s
| Adam | epoch: 306 | loss: 2.65150 - acc: 0.3355 -- iter: 4608/5208
Training Step: 3365 | total loss: 2.59563 | time: 2.782s
| Adam | epoch: 306 | loss: 2.59563 - acc: 0.3358 -- iter: 5120/5208
```

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Training Step: 3366 | total loss: 2.56964 | time: 3.061s
| Adam | epoch: 306 | loss: 2.56964 - acc: 0.3352 -- iter: 5208/5208
--
Training Step: 3367 | total loss: 2.59141 | time: 0.301s
| Adam | epoch: 307 | loss: 2.59141 - acc: 0.3337 -- iter: 0512/5208
Training Step: 3368 | total loss: 2.58248 | time: 0.581s
| Adam | epoch: 307 | loss: 2.58248 - acc: 0.3363 -- iter: 1024/5208
Training Step: 3369 | total loss: 2.55250 | time: 0.865s
| Adam | epoch: 307 | loss: 2.55250 - acc: 0.3325 -- iter: 1536/5208
Training Step: 3370 | total loss: 2.54198 | time: 1.207s
| Adam | epoch: 307 | loss: 2.54198 - acc: 0.3329 -- iter: 2048/5208
Training Step: 3371 | total loss: 2.52713 | time: 1.415s
| Adam | epoch: 307 | loss: 2.52713 - acc: 0.3314 -- iter: 2560/5208
Training Step: 3372 | total loss: 2.46746 | time: 1.667s
| Adam | epoch: 307 | loss: 2.46746 - acc: 0.3267 -- iter: 3072/5208
Training Step: 3373 | total loss: 2.41078 | time: 1.975s
| Adam | epoch: 307 | loss: 2.41078 - acc: 0.3247 -- iter: 3584/5208
Training Step: 3374 | total loss: 2.42150 | time: 2.263s
| Adam | epoch: 307 | loss: 2.42150 - acc: 0.3239 -- iter: 4096/5208
Training Step: 3375 | total loss: 2.45190 | time: 2.547s
| Adam | epoch: 307 | loss: 2.45190 - acc: 0.3249 -- iter: 4608/5208
Training Step: 3376 | total loss: 2.65465 | time: 2.821s
| Adam | epoch: 307 | loss: 2.65465 - acc: 0.3240 -- iter: 5120/5208
Training Step: 3377 | total loss: 2.59650 | time: 3.115s
| Adam | epoch: 307 | loss: 2.59650 - acc: 0.3243 -- iter: 5208/5208
--
Training Step: 3378 | total loss: 2.55941 | time: 0.304s
| Adam | epoch: 308 | loss: 2.55941 - acc: 0.3217 -- iter: 0512/5208
Training Step: 3379 | total loss: 2.56632 | time: 0.578s
| Adam | epoch: 308 | loss: 2.56632 - acc: 0.3249 -- iter: 1024/5208
Training Step: 3380 | total loss: 2.53320 | time: 0.869s
| Adam | epoch: 308 | loss: 2.53320 - acc: 0.3307 -- iter: 1536/5208
Training Step: 3381 | total loss: 2.55208 | time: 1.205s
| Adam | epoch: 308 | loss: 2.55208 - acc: 0.3308 -- iter: 2048/5208
Training Step: 3382 | total loss: 2.54268 | time: 1.487s
| Adam | epoch: 308 | loss: 2.54268 - acc: 0.3323 -- iter: 2560/5208
Training Step: 3383 | total loss: 2.54430 | time: 1.748s
| Adam | epoch: 308 | loss: 2.54430 - acc: 0.3352 -- iter: 3072/5208
Training Step: 3384 | total loss: 2.45647 | time: 1.964s
| Adam | epoch: 308 | loss: 2.45647 - acc: 0.3346 -- iter: 3584/5208
Training Step: 3385 | total loss: 2.36441 | time: 2.272s
| Adam | epoch: 308 | loss: 2.36441 - acc: 0.3364 -- iter: 4096/5208
Training Step: 3386 | total loss: 2.37190 | time: 2.537s
| Adam | epoch: 308 | loss: 2.37190 - acc: 0.3358 -- iter: 4608/5208
Training Step: 3387 | total loss: 2.38322 | time: 2.794s
| Adam | epoch: 308 | loss: 2.38322 - acc: 0.3346 -- iter: 5120/5208
Training Step: 3388 | total loss: 2.56595 | time: 3.155s
| Adam | epoch: 308 | loss: 2.56595 - acc: 0.3346 -- iter: 5208/5208
--
Training Step: 3389 | total loss: 2.52566 | time: 0.306s
| Adam | epoch: 309 | loss: 2.52566 - acc: 0.3329 -- iter: 0512/5208
Training Step: 3390 | total loss: 2.49001 | time: 0.589s
| Adam | epoch: 309 | loss: 2.49001 - acc: 0.3330 -- iter: 1024/5208
Training Step: 3391 | total loss: 2.47823 | time: 0.896s
| Adam | epoch: 309 | loss: 2.47823 - acc: 0.3361 -- iter: 1536/5208
Training Step: 3392 | total loss: 2.48017 | time: 1.201s
| Adam | epoch: 309 | loss: 2.48017 - acc: 0.3374 -- iter: 2048/5208
Training Step: 3393 | total loss: 2.48763 | time: 1.473s
| Adam | epoch: 309 | loss: 2.48763 - acc: 0.3384 -- iter: 2560/5208
Training Step: 3394 | total loss: 2.47332 | time: 1.758s
| Adam | epoch: 309 | loss: 2.47332 - acc: 0.3345 -- iter: 3072/5208
Training Step: 3395 | total loss: 2.43493 | time: 2.004s
| Adam | epoch: 309 | loss: 2.43493 - acc: 0.3368 -- iter: 3584/5208
Training Step: 3396 | total loss: 2.48821 | time: 2.237s
| Adam | epoch: 309 | loss: 2.48821 - acc: 0.3395 -- iter: 4096/5208
Training Step: 3397 | total loss: 2.52699 | time: 2.554s
| Adam | epoch: 309 | loss: 2.52699 - acc: 0.3362 -- iter: 4608/5208
Training Step: 3398 | total loss: 2.55360 | time: 2.820s
| Adam | epoch: 309 | loss: 2.55360 - acc: 0.3354 -- iter: 5120/5208
Training Step: 3399 | total loss: 2.56463 | time: 3.096s
| Adam | epoch: 309 | loss: 2.56463 - acc: 0.3319 -- iter: 5208/5208
--
Training Step: 3400 | total loss: 3.14578 | time: 0.302s
| Adam | epoch: 310 | loss: 3.14578 - acc: 0.3292 -- iter: 0512/5208
Training Step: 3401 | total loss: 3.04808 | time: 0.599s
| Adam | epoch: 310 | loss: 3.04808 - acc: 0.3312 -- iter: 1024/5208
Training Step: 3402 | total loss: 2.96845 | time: 0.900s
| Adam | epoch: 310 | loss: 2.96845 - acc: 0.3313 -- iter: 1536/5208
Training Step: 3403 | total loss: 2.94990 | time: 1.190s
| Adam | epoch: 310 | loss: 2.94990 - acc: 0.3314 -- iter: 2048/5208
Training Step: 3404 | total loss: 2.87059 | time: 1.473s
| Adam | epoch: 310 | loss: 2.87059 - acc: 0.3285 -- iter: 2560/5208
Training Step: 3405 | total loss: 2.82713 | time: 1.810s
```

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| Adam | epoch: 310 | loss: 2.82713 - acc: 0.3310 -- iter: 3072/5208
Training Step: 3406 | total loss: 2.78442 | time: 2.073s
| Adam | epoch: 310 | loss: 2.78442 - acc: 0.3294 -- iter: 3584/5208
Training Step: 3407 | total loss: 2.77611 | time: 2.324s
| Adam | epoch: 310 | loss: 2.77611 - acc: 0.3290 -- iter: 4096/5208
Training Step: 3408 | total loss: 2.77226 | time: 2.526s
| Adam | epoch: 310 | loss: 2.77226 - acc: 0.3291 -- iter: 4608/5208
Training Step: 3409 | total loss: 2.76267 | time: 2.843s
| Adam | epoch: 310 | loss: 2.76267 - acc: 0.3257 -- iter: 5120/5208
Training Step: 3410 | total loss: 2.71989 | time: 3.098s
| Adam | epoch: 310 | loss: 2.71989 - acc: 0.3268 -- iter: 5208/5208
--
Training Step: 3411 | total loss: 2.71550 | time: 0.308s
| Adam | epoch: 311 | loss: 2.71550 - acc: 0.3328 -- iter: 0512/5208
Training Step: 3412 | total loss: 3.15336 | time: 0.588s
| Adam | epoch: 311 | loss: 3.15336 - acc: 0.3296 -- iter: 1024/5208
Training Step: 3413 | total loss: 3.06599 | time: 0.932s
| Adam | epoch: 311 | loss: 3.06599 - acc: 0.3302 -- iter: 1536/5208
Training Step: 3414 | total loss: 3.01379 | time: 1.215s
| Adam | epoch: 311 | loss: 3.01379 - acc: 0.3308 -- iter: 2048/5208
Training Step: 3415 | total loss: 2.94081 | time: 1.491s
| Adam | epoch: 311 | loss: 2.94081 - acc: 0.3315 -- iter: 2560/5208
Training Step: 3416 | total loss: 2.89864 | time: 1.815s
| Adam | epoch: 311 | loss: 2.89864 - acc: 0.3345 -- iter: 3072/5208
Training Step: 3417 | total loss: 2.85524 | time: 2.082s
| Adam | epoch: 311 | loss: 2.85524 - acc: 0.3360 -- iter: 3584/5208
Training Step: 3418 | total loss: 2.80575 | time: 2.417s
| Adam | epoch: 311 | loss: 2.80575 - acc: 0.3371 -- iter: 4096/5208
Training Step: 3419 | total loss: 2.75618 | time: 2.640s
| Adam | epoch: 311 | loss: 2.75618 - acc: 0.3351 -- iter: 4608/5208
Training Step: 3420 | total loss: 2.81256 | time: 2.880s
| Adam | epoch: 311 | loss: 2.81256 - acc: 0.3311 -- iter: 5120/5208
Training Step: 3421 | total loss: 2.85842 | time: 3.195s
| Adam | epoch: 311 | loss: 2.85842 - acc: 0.3287 -- iter: 5208/5208
--
Training Step: 3422 | total loss: 2.82792 | time: 0.247s
| Adam | epoch: 312 | loss: 2.82792 - acc: 0.3273 -- iter: 0512/5208
Training Step: 3423 | total loss: 2.81308 | time: 0.535s
| Adam | epoch: 312 | loss: 2.81308 - acc: 0.3307 -- iter: 1024/5208
Training Step: 3424 | total loss: 3.06160 | time: 0.854s
| Adam | epoch: 312 | loss: 3.06160 - acc: 0.3288 -- iter: 1536/5208
Training Step: 3425 | total loss: 2.99956 | time: 1.153s
| Adam | epoch: 312 | loss: 2.99956 - acc: 0.3299 -- iter: 2048/5208
Training Step: 3426 | total loss: 2.92125 | time: 1.459s
| Adam | epoch: 312 | loss: 2.92125 - acc: 0.3317 -- iter: 2560/5208
Training Step: 3427 | total loss: 2.87886 | time: 1.750s
| Adam | epoch: 312 | loss: 2.87886 - acc: 0.3312 -- iter: 3072/5208
Training Step: 3428 | total loss: 2.84835 | time: 2.039s
| Adam | epoch: 312 | loss: 2.84835 - acc: 0.3348 -- iter: 3584/5208
Training Step: 3429 | total loss: 2.81224 | time: 2.324s
| Adam | epoch: 312 | loss: 2.81224 - acc: 0.3347 -- iter: 4096/5208
Training Step: 3430 | total loss: 2.73992 | time: 2.662s
| Adam | epoch: 312 | loss: 2.73992 - acc: 0.3317 -- iter: 4608/5208
Training Step: 3431 | total loss: 2.74037 | time: 2.879s
| Adam | epoch: 312 | loss: 2.74037 - acc: 0.3313 -- iter: 5120/5208
Training Step: 3432 | total loss: 2.72218 | time: 3.144s
| Adam | epoch: 312 | loss: 2.72218 - acc: 0.3312 -- iter: 5208/5208
--
Training Step: 3433 | total loss: 2.69382 | time: 0.305s
| Adam | epoch: 313 | loss: 2.69382 - acc: 0.3333 -- iter: 0512/5208
Training Step: 3434 | total loss: 2.68336 | time: 0.609s
| Adam | epoch: 313 | loss: 2.68336 - acc: 0.3324 -- iter: 1024/5208
Training Step: 3435 | total loss: 2.64790 | time: 0.868s
| Adam | epoch: 313 | loss: 2.64790 - acc: 0.3335 -- iter: 1536/5208
Training Step: 3436 | total loss: 3.07071 | time: 1.172s
| Adam | epoch: 313 | loss: 3.07071 - acc: 0.3316 -- iter: 2048/5208
Training Step: 3437 | total loss: 2.99490 | time: 1.460s
| Adam | epoch: 313 | loss: 2.99490 - acc: 0.3342 -- iter: 2560/5208
Training Step: 3438 | total loss: 2.94227 | time: 1.734s
| Adam | epoch: 313 | loss: 2.94227 - acc: 0.3342 -- iter: 3072/5208
Training Step: 3439 | total loss: 2.89049 | time: 2.035s
| Adam | epoch: 313 | loss: 2.89049 - acc: 0.3339 -- iter: 3584/5208
Training Step: 3440 | total loss: 2.83905 | time: 2.313s
| Adam | epoch: 313 | loss: 2.83905 - acc: 0.3320 -- iter: 4096/5208
Training Step: 3441 | total loss: 2.82233 | time: 2.603s
| Adam | epoch: 313 | loss: 2.82233 - acc: 0.3355 -- iter: 4608/5208
Training Step: 3442 | total loss: 2.74733 | time: 2.912s
| Adam | epoch: 313 | loss: 2.74733 - acc: 0.3358 -- iter: 5120/5208
Training Step: 3443 | total loss: 2.73957 | time: 3.150s
| Adam | epoch: 313 | loss: 2.73957 - acc: 0.3377 -- iter: 5208/5208
--
Training Step: 3444 | total loss: 2.74537 | time: 0.228s
| Adam | epoch: 314 | loss: 2.74537 - acc: 0.3415 -- iter: 0512/5208
```



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Training Step: 3445 | total loss: 2.76158 | time: 0.536s
| Adam | epoch: 314 | loss: 2.76158 - acc: 0.3471 -- iter: 1024/5208
Training Step: 3446 | total loss: 2.71870 | time: 0.795s
| Adam | epoch: 314 | loss: 2.71870 - acc: 0.3415 -- iter: 1536/5208
Training Step: 3447 | total loss: 2.72959 | time: 1.085s
| Adam | epoch: 314 | loss: 2.72959 - acc: 0.3456 -- iter: 2048/5208
Training Step: 3448 | total loss: 2.71652 | time: 1.406s
| Adam | epoch: 314 | loss: 2.71652 - acc: 0.3446 -- iter: 2560/5208
Training Step: 3449 | total loss: 2.66440 | time: 1.725s
| Adam | epoch: 314 | loss: 2.66440 - acc: 0.3455 -- iter: 3072/5208
Training Step: 3450 | total loss: 2.63464 | time: 2.026s
| Adam | epoch: 314 | loss: 2.63464 - acc: 0.3463 -- iter: 3584/5208
Training Step: 3451 | total loss: 2.62264 | time: 2.298s
| Adam | epoch: 314 | loss: 2.62264 - acc: 0.3447 -- iter: 4096/5208
Training Step: 3452 | total loss: 2.57574 | time: 2.588s
| Adam | epoch: 314 | loss: 2.57574 - acc: 0.3452 -- iter: 4608/5208
Training Step: 3453 | total loss: 2.55459 | time: 2.900s
| Adam | epoch: 314 | loss: 2.55459 - acc: 0.3450 -- iter: 5120/5208
Training Step: 3454 | total loss: 2.54395 | time: 3.232s
| Adam | epoch: 314 | loss: 2.54395 - acc: 0.3430 -- iter: 5208/5208
--
Training Step: 3455 | total loss: 2.52123 | time: 0.245s
| Adam | epoch: 315 | loss: 2.52123 - acc: 0.3415 -- iter: 0512/5208
Training Step: 3456 | total loss: 2.42995 | time: 0.499s
| Adam | epoch: 315 | loss: 2.42995 - acc: 0.3392 -- iter: 1024/5208
Training Step: 3457 | total loss: 2.35176 | time: 0.775s
| Adam | epoch: 315 | loss: 2.35176 - acc: 0.3382 -- iter: 1536/5208
Training Step: 3458 | total loss: 2.34503 | time: 1.042s
| Adam | epoch: 315 | loss: 2.34503 - acc: 0.3386 -- iter: 2048/5208
Training Step: 3459 | total loss: 2.39553 | time: 1.335s
| Adam | epoch: 315 | loss: 2.39553 - acc: 0.3399 -- iter: 2560/5208
Training Step: 3460 | total loss: 2.41393 | time: 1.603s
| Adam | epoch: 315 | loss: 2.41393 - acc: 0.3367 -- iter: 3072/5208
Training Step: 3461 | total loss: 2.41584 | time: 1.936s
| Adam | epoch: 315 | loss: 2.41584 - acc: 0.3386 -- iter: 3584/5208
Training Step: 3462 | total loss: 2.41522 | time: 2.243s
| Adam | epoch: 315 | loss: 2.41522 - acc: 0.3401 -- iter: 4096/5208
Training Step: 3463 | total loss: 2.42911 | time: 2.528s
| Adam | epoch: 315 | loss: 2.42911 - acc: 0.3381 -- iter: 4608/5208
Training Step: 3464 | total loss: 2.40673 | time: 2.824s
| Adam | epoch: 315 | loss: 2.40673 - acc: 0.3373 -- iter: 5120/5208
Training Step: 3465 | total loss: 2.41347 | time: 3.141s
| Adam | epoch: 315 | loss: 2.41347 - acc: 0.3395 -- iter: 5208/5208
--
Training Step: 3466 | total loss: 2.36794 | time: 0.298s
| Adam | epoch: 316 | loss: 2.36794 - acc: 0.3409 -- iter: 0512/5208
Training Step: 3467 | total loss: 2.36595 | time: 0.514s
| Adam | epoch: 316 | loss: 2.36595 - acc: 0.3408 -- iter: 1024/5208
Training Step: 3468 | total loss: 2.37858 | time: 0.802s
| Adam | epoch: 316 | loss: 2.37858 - acc: 0.3226 -- iter: 1536/5208
Training Step: 3469 | total loss: 2.38254 | time: 1.095s
| Adam | epoch: 316 | loss: 2.38254 - acc: 0.3074 -- iter: 2048/5208
Training Step: 3470 | total loss: 2.39913 | time: 1.383s
| Adam | epoch: 316 | loss: 2.39913 - acc: 0.3130 -- iter: 2560/5208
Training Step: 3471 | total loss: 2.36378 | time: 1.659s
| Adam | epoch: 316 | loss: 2.36378 - acc: 0.3180 -- iter: 3072/5208
Training Step: 3472 | total loss: 2.36709 | time: 1.964s
| Adam | epoch: 316 | loss: 2.36709 - acc: 0.3200 -- iter: 3584/5208
Training Step: 3473 | total loss: 2.35218 | time: 2.245s
| Adam | epoch: 316 | loss: 2.35218 - acc: 0.3222 -- iter: 4096/5208
Training Step: 3474 | total loss: 2.37052 | time: 2.534s
| Adam | epoch: 316 | loss: 2.37052 - acc: 0.3230 -- iter: 4608/5208
Training Step: 3475 | total loss: 2.35083 | time: 2.844s
| Adam | epoch: 316 | loss: 2.35083 - acc: 0.3270 -- iter: 5120/5208
Training Step: 3476 | total loss: 2.34193 | time: 3.157s
| Adam | epoch: 316 | loss: 2.34193 - acc: 0.3330 -- iter: 5208/5208
--
Training Step: 3477 | total loss: 2.33206 | time: 0.285s
| Adam | epoch: 317 | loss: 2.33206 - acc: 0.3382 -- iter: 0512/5208
Training Step: 3478 | total loss: 2.29255 | time: 0.621s
| Adam | epoch: 317 | loss: 2.29255 - acc: 0.3366 -- iter: 1024/5208
Training Step: 3479 | total loss: 2.28484 | time: 0.852s
| Adam | epoch: 317 | loss: 2.28484 - acc: 0.3353 -- iter: 1536/5208
Training Step: 3480 | total loss: 2.32291 | time: 1.101s
| Adam | epoch: 317 | loss: 2.32291 - acc: 0.3336 -- iter: 2048/5208
Training Step: 3481 | total loss: 2.34221 | time: 1.394s
| Adam | epoch: 317 | loss: 2.34221 - acc: 0.3344 -- iter: 2560/5208
Training Step: 3482 | total loss: 2.37685 | time: 1.668s
| Adam | epoch: 317 | loss: 2.37685 - acc: 0.3363 -- iter: 3072/5208
Training Step: 3483 | total loss: 2.41753 | time: 1.961s
| Adam | epoch: 317 | loss: 2.41753 - acc: 0.3366 -- iter: 3584/5208
Training Step: 3484 | total loss: 2.60471 | time: 2.251s
| Adam | epoch: 317 | loss: 2.60471 - acc: 0.3366 -- iter: 4096/5208
```



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Training Step: 3485 | total loss: 2.56972 | time: 2.537s
| Adam | epoch: 317 | loss: 2.56972 - acc: 0.3427 -- iter: 4608/5208
Training Step: 3486 | total loss: 2.51768 | time: 2.844s
| Adam | epoch: 317 | loss: 2.51768 - acc: 0.3421 -- iter: 5120/5208
Training Step: 3487 | total loss: 2.50235 | time: 3.139s
| Adam | epoch: 317 | loss: 2.50235 - acc: 0.3452 -- iter: 5208/5208
--
Training Step: 3488 | total loss: 2.50833 | time: 0.293s
| Adam | epoch: 318 | loss: 2.50833 - acc: 0.3431 -- iter: 0512/5208
Training Step: 3489 | total loss: 2.48816 | time: 0.594s
| Adam | epoch: 318 | loss: 2.48816 - acc: 0.3416 -- iter: 1024/5208
Training Step: 3490 | total loss: 2.47196 | time: 0.932s
| Adam | epoch: 318 | loss: 2.47196 - acc: 0.3426 -- iter: 1536/5208
Training Step: 3491 | total loss: 2.44597 | time: 1.166s
| Adam | epoch: 318 | loss: 2.44597 - acc: 0.3400 -- iter: 2048/5208
Training Step: 3492 | total loss: 2.43231 | time: 1.414s
| Adam | epoch: 318 | loss: 2.43231 - acc: 0.3423 -- iter: 2560/5208
Training Step: 3493 | total loss: 2.41077 | time: 1.691s
| Adam | epoch: 318 | loss: 2.41077 - acc: 0.3490 -- iter: 3072/5208
Training Step: 3494 | total loss: 2.41613 | time: 2.004s
| Adam | epoch: 318 | loss: 2.41613 - acc: 0.3491 -- iter: 3584/5208
Training Step: 3495 | total loss: 2.40876 | time: 2.252s
| Adam | epoch: 318 | loss: 2.40876 - acc: 0.3450 -- iter: 4096/5208
Training Step: 3496 | total loss: 2.83327 | time: 2.568s
| Adam | epoch: 318 | loss: 2.83327 - acc: 0.3418 -- iter: 4608/5208
Training Step: 3497 | total loss: 2.78328 | time: 2.911s
| Adam | epoch: 318 | loss: 2.78328 - acc: 0.3459 -- iter: 5120/5208
Training Step: 3498 | total loss: 2.73789 | time: 3.185s
| Adam | epoch: 318 | loss: 2.73789 - acc: 0.3447 -- iter: 5208/5208
--
Training Step: 3499 | total loss: 2.66775 | time: 0.297s
| Adam | epoch: 319 | loss: 2.66775 - acc: 0.3460 -- iter: 0512/5208
Training Step: 3500 | total loss: 2.61925 | time: 0.602s
| Adam | epoch: 319 | loss: 2.61925 - acc: 0.3453 -- iter: 1024/5208
Training Step: 3501 | total loss: 2.60387 | time: 0.906s
| Adam | epoch: 319 | loss: 2.60387 - acc: 0.3444 -- iter: 1536/5208
Training Step: 3502 | total loss: 2.58214 | time: 1.211s
| Adam | epoch: 319 | loss: 2.58214 - acc: 0.3451 -- iter: 2048/5208
Training Step: 3503 | total loss: 2.54362 | time: 1.426s
| Adam | epoch: 319 | loss: 2.54362 - acc: 0.3458 -- iter: 2560/5208
Training Step: 3504 | total loss: 2.48980 | time: 1.688s
| Adam | epoch: 319 | loss: 2.48980 - acc: 0.3498 -- iter: 3072/5208
Training Step: 3505 | total loss: 2.43332 | time: 1.983s
| Adam | epoch: 319 | loss: 2.43332 - acc: 0.3557 -- iter: 3584/5208
Training Step: 3506 | total loss: 2.45872 | time: 2.233s
| Adam | epoch: 319 | loss: 2.45872 - acc: 0.3542 -- iter: 4096/5208
Training Step: 3507 | total loss: 2.41041 | time: 2.521s
| Adam | epoch: 319 | loss: 2.41041 - acc: 0.3541 -- iter: 4608/5208
Training Step: 3508 | total loss: 2.58532 | time: 2.849s
| Adam | epoch: 319 | loss: 2.58532 - acc: 0.3474 -- iter: 5120/5208
Training Step: 3509 | total loss: 2.59800 | time: 3.115s
| Adam | epoch: 319 | loss: 2.59800 - acc: 0.3472 -- iter: 5208/5208
--
Training Step: 3510 | total loss: 2.53029 | time: 0.323s
| Adam | epoch: 320 | loss: 2.53029 - acc: 0.3475 -- iter: 0512/5208
Training Step: 3511 | total loss: 2.51729 | time: 0.631s
| Adam | epoch: 320 | loss: 2.51729 - acc: 0.3490 -- iter: 1024/5208
Training Step: 3512 | total loss: 2.49755 | time: 0.921s
| Adam | epoch: 320 | loss: 2.49755 - acc: 0.3516 -- iter: 1536/5208
Training Step: 3513 | total loss: 2.52238 | time: 1.214s
| Adam | epoch: 320 | loss: 2.52238 - acc: 0.3512 -- iter: 2048/5208
Training Step: 3514 | total loss: 2.49727 | time: 1.495s
| Adam | epoch: 320 | loss: 2.49727 - acc: 0.3495 -- iter: 2560/5208
Training Step: 3515 | total loss: 2.44800 | time: 1.731s
| Adam | epoch: 320 | loss: 2.44800 - acc: 0.3493 -- iter: 3072/5208
Training Step: 3516 | total loss: 2.40779 | time: 1.984s
| Adam | epoch: 320 | loss: 2.40779 - acc: 0.3394 -- iter: 3584/5208
Training Step: 3517 | total loss: 2.35796 | time: 2.252s
| Adam | epoch: 320 | loss: 2.35796 - acc: 0.3361 -- iter: 4096/5208
Training Step: 3518 | total loss: 2.34859 | time: 2.580s
| Adam | epoch: 320 | loss: 2.34859 - acc: 0.3389 -- iter: 4608/5208
Training Step: 3519 | total loss: 2.32206 | time: 2.835s
| Adam | epoch: 320 | loss: 2.32206 - acc: 0.3391 -- iter: 5120/5208
Training Step: 3520 | total loss: 2.46535 | time: 3.167s
| Adam | epoch: 320 | loss: 2.46535 - acc: 0.3377 -- iter: 5208/5208
--
Training Step: 3521 | total loss: 2.45737 | time: 0.278s
| Adam | epoch: 321 | loss: 2.45737 - acc: 0.3381 -- iter: 0512/5208
Training Step: 3522 | total loss: 2.44135 | time: 0.619s
| Adam | epoch: 321 | loss: 2.44135 - acc: 0.3429 -- iter: 1024/5208
Training Step: 3523 | total loss: 2.40579 | time: 0.881s
| Adam | epoch: 321 | loss: 2.40579 - acc: 0.3424 -- iter: 1536/5208
Training Step: 3524 | total loss: 2.39565 | time: 1.227s
```

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| Adam | epoch: 321 | loss: 2.39565 - acc: 0.3428 -- iter: 2048/5208
Training Step: 3525 | total loss: 2.38422 | time: 1.501s
| Adam | epoch: 321 | loss: 2.38422 - acc: 0.3472 -- iter: 2560/5208
Training Step: 3526 | total loss: 2.36866 | time: 1.809s
| Adam | epoch: 321 | loss: 2.36866 - acc: 0.3464 -- iter: 3072/5208
Training Step: 3527 | total loss: 2.37329 | time: 2.017s
| Adam | epoch: 321 | loss: 2.37329 - acc: 0.3452 -- iter: 3584/5208
Training Step: 3528 | total loss: 2.41797 | time: 2.264s
| Adam | epoch: 321 | loss: 2.41797 - acc: 0.3357 -- iter: 4096/5208
Training Step: 3529 | total loss: 2.44975 | time: 2.544s
| Adam | epoch: 321 | loss: 2.44975 - acc: 0.3305 -- iter: 4608/5208
Training Step: 3530 | total loss: 2.46037 | time: 2.811s
| Adam | epoch: 321 | loss: 2.46037 - acc: 0.3328 -- iter: 5120/5208
Training Step: 3531 | total loss: 2.44165 | time: 3.104s
| Adam | epoch: 321 | loss: 2.44165 - acc: 0.3310 -- iter: 5208/5208
--
Training Step: 3532 | total loss: 2.54566 | time: 0.285s
| Adam | epoch: 322 | loss: 2.54566 - acc: 0.3311 -- iter: 0512/5208
Training Step: 3533 | total loss: 2.53967 | time: 0.597s
| Adam | epoch: 322 | loss: 2.53967 - acc: 0.3320 -- iter: 1024/5208
Training Step: 3534 | total loss: 2.53308 | time: 0.897s
| Adam | epoch: 322 | loss: 2.53308 - acc: 0.3384 -- iter: 1536/5208
Training Step: 3535 | total loss: 2.52416 | time: 1.194s
| Adam | epoch: 322 | loss: 2.52416 - acc: 0.3403 -- iter: 2048/5208
Training Step: 3536 | total loss: 2.48814 | time: 1.503s
| Adam | epoch: 322 | loss: 2.48814 - acc: 0.3403 -- iter: 2560/5208
Training Step: 3537 | total loss: 2.46757 | time: 1.780s
| Adam | epoch: 322 | loss: 2.46757 - acc: 0.3435 -- iter: 3072/5208
Training Step: 3538 | total loss: 2.44071 | time: 2.052s
| Adam | epoch: 322 | loss: 2.44071 - acc: 0.3412 -- iter: 3584/5208
Training Step: 3539 | total loss: 2.40249 | time: 2.296s
| Adam | epoch: 322 | loss: 2.40249 - acc: 0.3403 -- iter: 4096/5208
Training Step: 3540 | total loss: 2.37475 | time: 2.574s
| Adam | epoch: 322 | loss: 2.37475 - acc: 0.3358 -- iter: 4608/5208
Training Step: 3541 | total loss: 2.34644 | time: 2.856s
| Adam | epoch: 322 | loss: 2.34644 - acc: 0.3295 -- iter: 5120/5208
Training Step: 3542 | total loss: 2.33369 | time: 3.143s
| Adam | epoch: 322 | loss: 2.33369 - acc: 0.3325 -- iter: 5208/5208
--
Training Step: 3543 | total loss: 2.34182 | time: 0.284s
| Adam | epoch: 323 | loss: 2.34182 - acc: 0.3360 -- iter: 0512/5208
Training Step: 3544 | total loss: 2.33611 | time: 0.598s
| Adam | epoch: 323 | loss: 2.33611 - acc: 0.3344 -- iter: 1024/5208
Training Step: 3545 | total loss: 2.33472 | time: 0.907s
| Adam | epoch: 323 | loss: 2.33472 - acc: 0.3361 -- iter: 1536/5208
Training Step: 3546 | total loss: 2.34240 | time: 1.238s
| Adam | epoch: 323 | loss: 2.34240 - acc: 0.3365 -- iter: 2048/5208
Training Step: 3547 | total loss: 2.31225 | time: 1.542s
| Adam | epoch: 323 | loss: 2.31225 - acc: 0.3394 -- iter: 2560/5208
Training Step: 3548 | total loss: 2.32554 | time: 1.817s
| Adam | epoch: 323 | loss: 2.32554 - acc: 0.3382 -- iter: 3072/5208
Training Step: 3549 | total loss: 2.34316 | time: 2.112s
| Adam | epoch: 323 | loss: 2.34316 - acc: 0.3433 -- iter: 3584/5208
Training Step: 3550 | total loss: 2.31631 | time: 2.431s
| Adam | epoch: 323 | loss: 2.31631 - acc: 0.3465 -- iter: 4096/5208
Training Step: 3551 | total loss: 2.30391 | time: 2.659s
| Adam | epoch: 323 | loss: 2.30391 - acc: 0.3442 -- iter: 4608/5208
Training Step: 3552 | total loss: 2.34702 | time: 2.905s
| Adam | epoch: 323 | loss: 2.34702 - acc: 0.3450 -- iter: 5120/5208
Training Step: 3553 | total loss: 2.38182 | time: 3.209s
| Adam | epoch: 323 | loss: 2.38182 - acc: 0.3446 -- iter: 5208/5208
--
Training Step: 3554 | total loss: 2.39534 | time: 0.270s
| Adam | epoch: 324 | loss: 2.39534 - acc: 0.3455 -- iter: 0512/5208
Training Step: 3555 | total loss: 2.36950 | time: 0.552s
| Adam | epoch: 324 | loss: 2.36950 - acc: 0.3436 -- iter: 1024/5208
Training Step: 3556 | total loss: 2.34931 | time: 0.831s
| Adam | epoch: 324 | loss: 2.34931 - acc: 0.3436 -- iter: 1536/5208
Training Step: 3557 | total loss: 2.38235 | time: 1.119s
| Adam | epoch: 324 | loss: 2.38235 - acc: 0.3467 -- iter: 2048/5208
Training Step: 3558 | total loss: 2.38204 | time: 1.431s
| Adam | epoch: 324 | loss: 2.38204 - acc: 0.3488 -- iter: 2560/5208
Training Step: 3559 | total loss: 2.38071 | time: 1.722s
| Adam | epoch: 324 | loss: 2.38071 - acc: 0.3483 -- iter: 3072/5208
Training Step: 3560 | total loss: 2.36796 | time: 2.058s
| Adam | epoch: 324 | loss: 2.36796 - acc: 0.3482 -- iter: 3584/5208
Training Step: 3561 | total loss: 2.32472 | time: 2.326s
| Adam | epoch: 324 | loss: 2.32472 - acc: 0.3468 -- iter: 4096/5208
Training Step: 3562 | total loss: 2.31461 | time: 2.641s
| Adam | epoch: 324 | loss: 2.31461 - acc: 0.3439 -- iter: 4608/5208
Training Step: 3563 | total loss: 2.29766 | time: 2.851s
| Adam | epoch: 324 | loss: 2.29766 - acc: 0.3455 -- iter: 5120/5208
Training Step: 3564 | total loss: 2.32297 | time: 3.138s
```

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| Adam | epoch: 324 | loss: 2.32297 - acc: 0.3462 -- iter: 5208/5208
--
Training Step: 3565 | total loss: 2.32237 | time: 0.322s
| Adam | epoch: 325 | loss: 2.32237 - acc: 0.3491 -- iter: 0512/5208
Training Step: 3566 | total loss: 2.32400 | time: 0.597s
| Adam | epoch: 325 | loss: 2.32400 - acc: 0.3499 -- iter: 1024/5208
Training Step: 3567 | total loss: 2.31798 | time: 0.879s
| Adam | epoch: 325 | loss: 2.31798 - acc: 0.3487 -- iter: 1536/5208
Training Step: 3568 | total loss: 2.36785 | time: 1.151s
| Adam | epoch: 325 | loss: 2.36785 - acc: 0.3459 -- iter: 2048/5208
Training Step: 3569 | total loss: 2.36350 | time: 1.466s
| Adam | epoch: 325 | loss: 2.36350 - acc: 0.3466 -- iter: 2560/5208
Training Step: 3570 | total loss: 2.37044 | time: 1.740s
| Adam | epoch: 325 | loss: 2.37044 - acc: 0.3450 -- iter: 3072/5208
Training Step: 3571 | total loss: 2.36619 | time: 2.052s
| Adam | epoch: 325 | loss: 2.36619 - acc: 0.3472 -- iter: 3584/5208
Training Step: 3572 | total loss: 2.36687 | time: 2.355s
| Adam | epoch: 325 | loss: 2.36687 - acc: 0.3447 -- iter: 4096/5208
Training Step: 3573 | total loss: 2.34088 | time: 2.667s
| Adam | epoch: 325 | loss: 2.34088 - acc: 0.3436 -- iter: 4608/5208
Training Step: 3574 | total loss: 2.34033 | time: 2.979s
| Adam | epoch: 325 | loss: 2.34033 - acc: 0.3446 -- iter: 5120/5208
Training Step: 3575 | total loss: 2.35405 | time: 3.206s
| Adam | epoch: 325 | loss: 2.35405 - acc: 0.3445 -- iter: 5208/5208
--
Training Step: 3576 | total loss: 2.35842 | time: 0.264s
| Adam | epoch: 326 | loss: 2.35842 - acc: 0.3294 -- iter: 0512/5208
Training Step: 3577 | total loss: 2.35202 | time: 0.528s
| Adam | epoch: 326 | loss: 2.35202 - acc: 0.3180 -- iter: 1024/5208
Training Step: 3578 | total loss: 2.36995 | time: 0.801s
| Adam | epoch: 326 | loss: 2.36995 - acc: 0.3267 -- iter: 1536/5208
Training Step: 3579 | total loss: 2.31642 | time: 1.074s
| Adam | epoch: 326 | loss: 2.31642 - acc: 0.3305 -- iter: 2048/5208
Training Step: 3580 | total loss: 2.70486 | time: 1.391s
| Adam | epoch: 326 | loss: 2.70486 - acc: 0.3281 -- iter: 2560/5208
Training Step: 3581 | total loss: 2.67338 | time: 1.704s
| Adam | epoch: 326 | loss: 2.67338 - acc: 0.3303 -- iter: 3072/5208
Training Step: 3582 | total loss: 2.63781 | time: 1.988s
| Adam | epoch: 326 | loss: 2.63781 - acc: 0.3308 -- iter: 3584/5208
Training Step: 3583 | total loss: 2.59126 | time: 2.323s
| Adam | epoch: 326 | loss: 2.59126 - acc: 0.3314 -- iter: 4096/5208
Training Step: 3584 | total loss: 2.55904 | time: 2.629s
| Adam | epoch: 326 | loss: 2.55904 - acc: 0.3342 -- iter: 4608/5208
Training Step: 3585 | total loss: 2.53648 | time: 2.913s
| Adam | epoch: 326 | loss: 2.53648 - acc: 0.3355 -- iter: 5120/5208
Training Step: 3586 | total loss: 2.49432 | time: 3.216s
| Adam | epoch: 326 | loss: 2.49432 - acc: 0.3357 -- iter: 5208/5208
--
Training Step: 3587 | total loss: 2.48362 | time: 0.234s
| Adam | epoch: 327 | loss: 2.48362 - acc: 0.3365 -- iter: 0512/5208
Training Step: 3588 | total loss: 2.44739 | time: 0.483s
| Adam | epoch: 327 | loss: 2.44739 - acc: 0.3358 -- iter: 1024/5208
Training Step: 3589 | total loss: 2.40835 | time: 0.798s
| Adam | epoch: 327 | loss: 2.40835 - acc: 0.3329 -- iter: 1536/5208
Training Step: 3590 | total loss: 2.38947 | time: 1.095s
| Adam | epoch: 327 | loss: 2.38947 - acc: 0.3358 -- iter: 2048/5208
Training Step: 3591 | total loss: 2.42914 | time: 1.383s
| Adam | epoch: 327 | loss: 2.42914 - acc: 0.3340 -- iter: 2560/5208
Training Step: 3592 | total loss: 2.44166 | time: 1.662s
| Adam | epoch: 327 | loss: 2.44166 - acc: 0.3342 -- iter: 3072/5208
Training Step: 3593 | total loss: 2.39742 | time: 1.933s
| Adam | epoch: 327 | loss: 2.39742 - acc: 0.3391 -- iter: 3584/5208
Training Step: 3594 | total loss: 2.37246 | time: 2.224s
| Adam | epoch: 327 | loss: 2.37246 - acc: 0.3396 -- iter: 4096/5208
Training Step: 3595 | total loss: 2.38426 | time: 2.512s
| Adam | epoch: 327 | loss: 2.38426 - acc: 0.3421 -- iter: 4608/5208
Training Step: 3596 | total loss: 2.36972 | time: 2.803s
| Adam | epoch: 327 | loss: 2.36972 - acc: 0.3413 -- iter: 5120/5208
Training Step: 3597 | total loss: 2.38288 | time: 3.112s
| Adam | epoch: 327 | loss: 2.38288 - acc: 0.3458 -- iter: 5208/5208
--
Training Step: 3598 | total loss: 2.39420 | time: 0.300s
| Adam | epoch: 328 | loss: 2.39420 - acc: 0.3458 -- iter: 0512/5208
Training Step: 3599 | total loss: 2.38790 | time: 0.524s
| Adam | epoch: 328 | loss: 2.38790 - acc: 0.3466 -- iter: 1024/5208
Training Step: 3600 | total loss: 2.37589 | time: 0.772s
| Adam | epoch: 328 | loss: 2.37589 - acc: 0.3506 -- iter: 1536/5208
Training Step: 3601 | total loss: 2.36177 | time: 1.061s
| Adam | epoch: 328 | loss: 2.36177 - acc: 0.3564 -- iter: 2048/5208
Training Step: 3602 | total loss: 2.36771 | time: 1.338s
| Adam | epoch: 328 | loss: 2.36771 - acc: 0.3561 -- iter: 2560/5208
Training Step: 3603 | total loss: 2.34357 | time: 1.639s
| Adam | epoch: 328 | loss: 2.34357 - acc: 0.3570 -- iter: 3072/5208
```

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Training Step: 3604 | total loss: 2.38014 | time: 1.933s
| Adam | epoch: 328 | loss: 2.38014 - acc: 0.3575 -- iter: 3584/5208
Training Step: 3605 | total loss: 2.41716 | time: 2.251s
| Adam | epoch: 328 | loss: 2.41716 - acc: 0.3555 -- iter: 4096/5208
Training Step: 3606 | total loss: 2.40456 | time: 2.520s
| Adam | epoch: 328 | loss: 2.40456 - acc: 0.3536 -- iter: 4608/5208
Training Step: 3607 | total loss: 2.37236 | time: 2.846s
| Adam | epoch: 328 | loss: 2.37236 - acc: 0.3500 -- iter: 5120/5208
Training Step: 3608 | total loss: 2.35155 | time: 3.187s
| Adam | epoch: 328 | loss: 2.35155 - acc: 0.3506 -- iter: 5208/5208
--
Training Step: 3609 | total loss: 2.36834 | time: 0.281s
| Adam | epoch: 329 | loss: 2.36834 - acc: 0.3507 -- iter: 0512/5208
Training Step: 3610 | total loss: 2.36256 | time: 0.545s
| Adam | epoch: 329 | loss: 2.36256 - acc: 0.3482 -- iter: 1024/5208
Training Step: 3611 | total loss: 2.32920 | time: 0.793s
| Adam | epoch: 329 | loss: 2.32920 - acc: 0.3513 -- iter: 1536/5208
Training Step: 3612 | total loss: 2.38348 | time: 1.012s
| Adam | epoch: 329 | loss: 2.38348 - acc: 0.3548 -- iter: 2048/5208
Training Step: 3613 | total loss: 2.43442 | time: 1.325s
| Adam | epoch: 329 | loss: 2.43442 - acc: 0.3568 -- iter: 2560/5208
Training Step: 3614 | total loss: 2.39749 | time: 1.576s
| Adam | epoch: 329 | loss: 2.39749 - acc: 0.3557 -- iter: 3072/5208
Training Step: 3615 | total loss: 2.37034 | time: 1.864s
| Adam | epoch: 329 | loss: 2.37034 - acc: 0.3531 -- iter: 3584/5208
Training Step: 3616 | total loss: 2.54190 | time: 2.182s
| Adam | epoch: 329 | loss: 2.54190 - acc: 0.3518 -- iter: 4096/5208
Training Step: 3617 | total loss: 2.48616 | time: 2.483s
| Adam | epoch: 329 | loss: 2.48616 - acc: 0.3504 -- iter: 4608/5208
Training Step: 3618 | total loss: 2.46583 | time: 2.775s
| Adam | epoch: 329 | loss: 2.46583 - acc: 0.3496 -- iter: 5120/5208
Training Step: 3619 | total loss: 2.45901 | time: 3.062s
| Adam | epoch: 329 | loss: 2.45901 - acc: 0.3503 -- iter: 5208/5208
--
Training Step: 3620 | total loss: 2.47239 | time: 0.292s
| Adam | epoch: 330 | loss: 2.47239 - acc: 0.3546 -- iter: 0512/5208
Training Step: 3621 | total loss: 2.43610 | time: 0.573s
| Adam | epoch: 330 | loss: 2.43610 - acc: 0.3525 -- iter: 1024/5208
Training Step: 3622 | total loss: 2.44114 | time: 0.855s
| Adam | epoch: 330 | loss: 2.44114 - acc: 0.3546 -- iter: 1536/5208
Training Step: 3623 | total loss: 2.41670 | time: 1.113s
| Adam | epoch: 330 | loss: 2.41670 - acc: 0.3531 -- iter: 2048/5208
Training Step: 3624 | total loss: 2.38043 | time: 1.355s
| Adam | epoch: 330 | loss: 2.38043 - acc: 0.3553 -- iter: 2560/5208
Training Step: 3625 | total loss: 2.33677 | time: 1.623s
| Adam | epoch: 330 | loss: 2.33677 - acc: 0.3573 -- iter: 3072/5208
Training Step: 3626 | total loss: 2.34424 | time: 1.916s
| Adam | epoch: 330 | loss: 2.34424 - acc: 0.3553 -- iter: 3584/5208
Training Step: 3627 | total loss: 2.29329 | time: 2.196s
| Adam | epoch: 330 | loss: 2.29329 - acc: 0.3524 -- iter: 4096/5208
Training Step: 3628 | total loss: 2.69681 | time: 2.490s
| Adam | epoch: 330 | loss: 2.69681 - acc: 0.3465 -- iter: 4608/5208
Training Step: 3629 | total loss: 2.64970 | time: 2.781s
| Adam | epoch: 330 | loss: 2.64970 - acc: 0.3519 -- iter: 5120/5208
Training Step: 3630 | total loss: 2.60189 | time: 3.104s
| Adam | epoch: 330 | loss: 2.60189 - acc: 0.3524 -- iter: 5208/5208
--
Training Step: 3631 | total loss: 2.52993 | time: 0.309s
| Adam | epoch: 331 | loss: 2.52993 - acc: 0.3519 -- iter: 0512/5208
Training Step: 3632 | total loss: 2.54189 | time: 0.605s
| Adam | epoch: 331 | loss: 2.54189 - acc: 0.3527 -- iter: 1024/5208
Training Step: 3633 | total loss: 2.51038 | time: 0.875s
| Adam | epoch: 331 | loss: 2.51038 - acc: 0.3506 -- iter: 1536/5208
Training Step: 3634 | total loss: 2.49328 | time: 1.157s
| Adam | epoch: 331 | loss: 2.49328 - acc: 0.3519 -- iter: 2048/5208
Training Step: 3635 | total loss: 2.45750 | time: 1.402s
| Adam | epoch: 331 | loss: 2.45750 - acc: 0.3522 -- iter: 2560/5208
Training Step: 3636 | total loss: 2.42911 | time: 1.609s
| Adam | epoch: 331 | loss: 2.42911 - acc: 0.3522 -- iter: 3072/5208
Training Step: 3637 | total loss: 2.39011 | time: 1.915s
| Adam | epoch: 331 | loss: 2.39011 - acc: 0.3534 -- iter: 3584/5208
Training Step: 3638 | total loss: 2.40894 | time: 2.179s
| Adam | epoch: 331 | loss: 2.40894 - acc: 0.3501 -- iter: 4096/5208
Training Step: 3639 | total loss: 2.37338 | time: 2.448s
| Adam | epoch: 331 | loss: 2.37338 - acc: 0.3522 -- iter: 4608/5208
Training Step: 3640 | total loss: 2.42716 | time: 2.731s
| Adam | epoch: 331 | loss: 2.42716 - acc: 0.3547 -- iter: 5120/5208
Training Step: 3641 | total loss: 2.45263 | time: 3.006s
| Adam | epoch: 331 | loss: 2.45263 - acc: 0.3545 -- iter: 5208/5208
--
Training Step: 3642 | total loss: 2.43390 | time: 0.287s
| Adam | epoch: 332 | loss: 2.43390 - acc: 0.3519 -- iter: 0512/5208
Training Step: 3643 | total loss: 2.42032 | time: 0.575s
```



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| Adam | epoch: 332 | loss: 2.42032 - acc: 0.3484 -- iter: 1024/5208
Training Step: 3644 | total loss: 2.37095 | time: 0.863s
| Adam | epoch: 332 | loss: 2.37095 - acc: 0.3496 -- iter: 1536/5208
Training Step: 3645 | total loss: 2.32699 | time: 1.227s
| Adam | epoch: 332 | loss: 2.32699 - acc: 0.3494 -- iter: 2048/5208
Training Step: 3646 | total loss: 2.31562 | time: 1.531s
| Adam | epoch: 332 | loss: 2.31562 - acc: 0.3522 -- iter: 2560/5208
Training Step: 3647 | total loss: 2.30832 | time: 1.748s
| Adam | epoch: 332 | loss: 2.30832 - acc: 0.3512 -- iter: 3072/5208
Training Step: 3648 | total loss: 2.36514 | time: 2.009s
| Adam | epoch: 332 | loss: 2.36514 - acc: 0.3592 -- iter: 3584/5208
Training Step: 3649 | total loss: 2.40473 | time: 2.301s
| Adam | epoch: 332 | loss: 2.40473 - acc: 0.3676 -- iter: 4096/5208
Training Step: 3650 | total loss: 2.40865 | time: 2.567s
| Adam | epoch: 332 | loss: 2.40865 - acc: 0.3635 -- iter: 4608/5208
Training Step: 3651 | total loss: 2.38784 | time: 2.846s
| Adam | epoch: 332 | loss: 2.38784 - acc: 0.3629 -- iter: 5120/5208
Training Step: 3652 | total loss: 2.56935 | time: 3.133s
| Adam | epoch: 332 | loss: 2.56935 - acc: 0.3633 -- iter: 5208/5208
--
Training Step: 3653 | total loss: 2.51941 | time: 0.296s
| Adam | epoch: 333 | loss: 2.51941 - acc: 0.3623 -- iter: 0512/5208
Training Step: 3654 | total loss: 2.48177 | time: 0.571s
| Adam | epoch: 333 | loss: 2.48177 - acc: 0.3593 -- iter: 1024/5208
Training Step: 3655 | total loss: 2.45096 | time: 0.851s
| Adam | epoch: 333 | loss: 2.45096 - acc: 0.3583 -- iter: 1536/5208
Training Step: 3656 | total loss: 2.45918 | time: 1.157s
| Adam | epoch: 333 | loss: 2.45918 - acc: 0.3551 -- iter: 2048/5208
Training Step: 3657 | total loss: 2.43756 | time: 1.435s
| Adam | epoch: 333 | loss: 2.43756 - acc: 0.3542 -- iter: 2560/5208
Training Step: 3658 | total loss: 2.39150 | time: 1.778s
| Adam | epoch: 333 | loss: 2.39150 - acc: 0.3551 -- iter: 3072/5208
Training Step: 3659 | total loss: 2.38791 | time: 1.977s
| Adam | epoch: 333 | loss: 2.38791 - acc: 0.3567 -- iter: 3584/5208
Training Step: 3660 | total loss: 2.41866 | time: 2.225s
| Adam | epoch: 333 | loss: 2.41866 - acc: 0.3574 -- iter: 4096/5208
Training Step: 3661 | total loss: 2.43814 | time: 2.523s
| Adam | epoch: 333 | loss: 2.43814 - acc: 0.3557 -- iter: 4608/5208
Training Step: 3662 | total loss: 2.46723 | time: 2.789s
| Adam | epoch: 333 | loss: 2.46723 - acc: 0.3498 -- iter: 5120/5208
Training Step: 3663 | total loss: 2.42460 | time: 3.076s
| Adam | epoch: 333 | loss: 2.42460 - acc: 0.3486 -- iter: 5208/5208
--
Training Step: 3664 | total loss: 2.41141 | time: 0.275s
| Adam | epoch: 334 | loss: 2.41141 - acc: 0.3466 -- iter: 0512/5208
Training Step: 3665 | total loss: 2.37925 | time: 0.586s
| Adam | epoch: 334 | loss: 2.37925 - acc: 0.3457 -- iter: 1024/5208
Training Step: 3666 | total loss: 2.35181 | time: 0.891s
| Adam | epoch: 334 | loss: 2.35181 - acc: 0.3492 -- iter: 1536/5208
Training Step: 3667 | total loss: 2.30649 | time: 1.208s
| Adam | epoch: 334 | loss: 2.30649 - acc: 0.3487 -- iter: 2048/5208
Training Step: 3668 | total loss: 2.29550 | time: 1.493s
| Adam | epoch: 334 | loss: 2.29550 - acc: 0.3519 -- iter: 2560/5208
Training Step: 3669 | total loss: 2.29560 | time: 1.797s
| Adam | epoch: 334 | loss: 2.29560 - acc: 0.3515 -- iter: 3072/5208
Training Step: 3670 | total loss: 2.26507 | time: 2.110s
| Adam | epoch: 334 | loss: 2.26507 - acc: 0.3542 -- iter: 3584/5208
Training Step: 3671 | total loss: 2.26949 | time: 2.325s
| Adam | epoch: 334 | loss: 2.26949 - acc: 0.3506 -- iter: 4096/5208
Training Step: 3672 | total loss: 2.31683 | time: 2.584s
| Adam | epoch: 334 | loss: 2.31683 - acc: 0.3440 -- iter: 4608/5208
Training Step: 3673 | total loss: 2.34337 | time: 2.881s
| Adam | epoch: 334 | loss: 2.34337 - acc: 0.3437 -- iter: 5120/5208
Training Step: 3674 | total loss: 2.34446 | time: 3.148s
| Adam | epoch: 334 | loss: 2.34446 - acc: 0.3445 -- iter: 5208/5208
--
Training Step: 3675 | total loss: 2.37584 | time: 0.265s
| Adam | epoch: 335 | loss: 2.37584 - acc: 0.3462 -- iter: 0512/5208
Training Step: 3676 | total loss: 2.49783 | time: 0.594s
| Adam | epoch: 335 | loss: 2.49783 - acc: 0.3453 -- iter: 1024/5208
Training Step: 3677 | total loss: 2.47643 | time: 0.846s
| Adam | epoch: 335 | loss: 2.47643 - acc: 0.3481 -- iter: 1536/5208
Training Step: 3678 | total loss: 2.43169 | time: 1.150s
| Adam | epoch: 335 | loss: 2.43169 - acc: 0.3525 -- iter: 2048/5208
Training Step: 3679 | total loss: 2.40934 | time: 1.439s
| Adam | epoch: 335 | loss: 2.40934 - acc: 0.3524 -- iter: 2560/5208
Training Step: 3680 | total loss: 2.40781 | time: 1.731s
| Adam | epoch: 335 | loss: 2.40781 - acc: 0.3508 -- iter: 3072/5208
Training Step: 3681 | total loss: 2.38271 | time: 2.034s
| Adam | epoch: 335 | loss: 2.38271 - acc: 0.3499 -- iter: 3584/5208
Training Step: 3682 | total loss: 2.37339 | time: 2.325s
| Adam | epoch: 335 | loss: 2.37339 - acc: 0.3510 -- iter: 4096/5208
Training Step: 3683 | total loss: 2.36568 | time: 2.560s
```



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| Adam | epoch: 335 | loss: 2.36568 - acc: 0.3511 -- iter: 4608/5208
Training Step: 3684 | total loss: 2.32667 | time: 2.829s
| Adam | epoch: 335 | loss: 2.32667 - acc: 0.3455 -- iter: 5120/5208
Training Step: 3685 | total loss: 2.28233 | time: 3.109s
| Adam | epoch: 335 | loss: 2.28233 - acc: 0.3451 -- iter: 5208/5208
--
Training Step: 3686 | total loss: 2.26876 | time: 0.282s
| Adam | epoch: 336 | loss: 2.26876 - acc: 0.3492 -- iter: 0512/5208
Training Step: 3687 | total loss: 2.27561 | time: 0.554s
| Adam | epoch: 336 | loss: 2.27561 - acc: 0.3485 -- iter: 1024/5208
Training Step: 3688 | total loss: 2.54222 | time: 0.840s
| Adam | epoch: 336 | loss: 2.54222 - acc: 0.3451 -- iter: 1536/5208
Training Step: 3689 | total loss: 2.49396 | time: 1.160s
| Adam | epoch: 336 | loss: 2.49396 - acc: 0.3450 -- iter: 2048/5208
Training Step: 3690 | total loss: 2.46215 | time: 1.446s
| Adam | epoch: 336 | loss: 2.46215 - acc: 0.3470 -- iter: 2560/5208
Training Step: 3691 | total loss: 2.39440 | time: 1.747s
| Adam | epoch: 336 | loss: 2.39440 - acc: 0.3484 -- iter: 3072/5208
Training Step: 3692 | total loss: 2.37160 | time: 2.043s
| Adam | epoch: 336 | loss: 2.37160 - acc: 0.3511 -- iter: 3584/5208
Training Step: 3693 | total loss: 2.35332 | time: 2.335s
| Adam | epoch: 336 | loss: 2.35332 - acc: 0.3492 -- iter: 4096/5208
Training Step: 3694 | total loss: 2.34598 | time: 2.616s
| Adam | epoch: 336 | loss: 2.34598 - acc: 0.3523 -- iter: 4608/5208
Training Step: 3695 | total loss: 2.33251 | time: 2.843s
| Adam | epoch: 336 | loss: 2.33251 - acc: 0.3528 -- iter: 5120/5208
Training Step: 3696 | total loss: 2.32196 | time: 3.097s
| Adam | epoch: 336 | loss: 2.32196 - acc: 0.3517 -- iter: 5208/5208
--
Training Step: 3697 | total loss: 2.30904 | time: 0.271s
| Adam | epoch: 337 | loss: 2.30904 - acc: 0.3517 -- iter: 0512/5208
Training Step: 3698 | total loss: 2.29597 | time: 0.579s
| Adam | epoch: 337 | loss: 2.29597 - acc: 0.3517 -- iter: 1024/5208
Training Step: 3699 | total loss: 2.31863 | time: 0.849s
| Adam | epoch: 337 | loss: 2.31863 - acc: 0.3542 -- iter: 1536/5208
Training Step: 3700 | total loss: 2.61808 | time: 1.170s
| Adam | epoch: 337 | loss: 2.61808 - acc: 0.3528 -- iter: 2048/5208
Training Step: 3701 | total loss: 2.58659 | time: 1.458s
| Adam | epoch: 337 | loss: 2.58659 - acc: 0.3529 -- iter: 2560/5208
Training Step: 3702 | total loss: 2.53943 | time: 1.767s
| Adam | epoch: 337 | loss: 2.53943 - acc: 0.3500 -- iter: 3072/5208
Training Step: 3703 | total loss: 2.51901 | time: 2.070s
| Adam | epoch: 337 | loss: 2.51901 - acc: 0.3500 -- iter: 3584/5208
Training Step: 3704 | total loss: 2.47563 | time: 2.366s
| Adam | epoch: 337 | loss: 2.47563 - acc: 0.3558 -- iter: 4096/5208
Training Step: 3705 | total loss: 2.41437 | time: 2.680s
| Adam | epoch: 337 | loss: 2.41437 - acc: 0.3550 -- iter: 4608/5208
Training Step: 3706 | total loss: 2.42358 | time: 3.005s
| Adam | epoch: 337 | loss: 2.42358 - acc: 0.3531 -- iter: 5120/5208
Training Step: 3707 | total loss: 2.40762 | time: 3.252s
| Adam | epoch: 337 | loss: 2.40762 - acc: 0.3541 -- iter: 5208/5208
--
Training Step: 3708 | total loss: 2.33751 | time: 0.226s
| Adam | epoch: 338 | loss: 2.33751 - acc: 0.3585 -- iter: 0512/5208
Training Step: 3709 | total loss: 2.27000 | time: 0.533s
| Adam | epoch: 338 | loss: 2.27000 - acc: 0.3692 -- iter: 1024/5208
Training Step: 3710 | total loss: 2.25939 | time: 0.808s
| Adam | epoch: 338 | loss: 2.25939 - acc: 0.3702 -- iter: 1536/5208
Training Step: 3711 | total loss: 2.24177 | time: 1.087s
| Adam | epoch: 338 | loss: 2.24177 - acc: 0.3683 -- iter: 2048/5208
Training Step: 3712 | total loss: 2.29638 | time: 1.362s
| Adam | epoch: 338 | loss: 2.29638 - acc: 0.3664 -- iter: 2560/5208
Training Step: 3713 | total loss: 2.30511 | time: 1.707s
| Adam | epoch: 338 | loss: 2.30511 - acc: 0.3665 -- iter: 3072/5208
Training Step: 3714 | total loss: 2.26518 | time: 2.005s
| Adam | epoch: 338 | loss: 2.26518 - acc: 0.3697 -- iter: 3584/5208
Training Step: 3715 | total loss: 2.25362 | time: 2.316s
| Adam | epoch: 338 | loss: 2.25362 - acc: 0.3669 -- iter: 4096/5208
Training Step: 3716 | total loss: 2.22818 | time: 2.597s
| Adam | epoch: 338 | loss: 2.22818 - acc: 0.3687 -- iter: 4608/5208
Training Step: 3717 | total loss: 2.23578 | time: 2.883s
| Adam | epoch: 338 | loss: 2.23578 - acc: 0.3658 -- iter: 5120/5208
Training Step: 3718 | total loss: 2.25163 | time: 3.175s
| Adam | epoch: 338 | loss: 2.25163 - acc: 0.3607 -- iter: 5208/5208
--
Training Step: 3719 | total loss: 2.25135 | time: 0.277s
| Adam | epoch: 339 | loss: 2.25135 - acc: 0.3645 -- iter: 0512/5208
Training Step: 3720 | total loss: 2.26228 | time: 0.497s
| Adam | epoch: 339 | loss: 2.26228 - acc: 0.3701 -- iter: 1024/5208
Training Step: 3721 | total loss: 2.26477 | time: 0.817s
| Adam | epoch: 339 | loss: 2.26477 - acc: 0.3705 -- iter: 1536/5208
Training Step: 3722 | total loss: 2.25185 | time: 1.067s
| Adam | epoch: 339 | loss: 2.25185 - acc: 0.3667 -- iter: 2048/5208
```

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Training Step: 3723 | total loss: 2.20991 | time: 1.354s
| Adam | epoch: 339 | loss: 2.20991 - acc: 0.3636 -- iter: 2560/5208
Training Step: 3724 | total loss: 2.40090 | time: 1.613s
| Adam | epoch: 339 | loss: 2.40090 - acc: 0.3630 -- iter: 3072/5208
Training Step: 3725 | total loss: 2.39867 | time: 1.970s
| Adam | epoch: 339 | loss: 2.39867 - acc: 0.3646 -- iter: 3584/5208
Training Step: 3726 | total loss: 2.37459 | time: 2.239s
| Adam | epoch: 339 | loss: 2.37459 - acc: 0.3652 -- iter: 4096/5208
Training Step: 3727 | total loss: 2.38140 | time: 2.506s
| Adam | epoch: 339 | loss: 2.38140 - acc: 0.3637 -- iter: 4608/5208
Training Step: 3728 | total loss: 2.34664 | time: 2.836s
| Adam | epoch: 339 | loss: 2.34664 - acc: 0.3627 -- iter: 5120/5208
Training Step: 3729 | total loss: 2.35203 | time: 3.104s
| Adam | epoch: 339 | loss: 2.35203 - acc: 0.3625 -- iter: 5208/5208
--
Training Step: 3730 | total loss: 2.32973 | time: 0.288s
| Adam | epoch: 340 | loss: 2.32973 - acc: 0.3649 -- iter: 0512/5208
Training Step: 3731 | total loss: 2.29936 | time: 0.489s
| Adam | epoch: 340 | loss: 2.29936 - acc: 0.3646 -- iter: 1024/5208
Training Step: 3732 | total loss: 2.51802 | time: 0.746s
| Adam | epoch: 340 | loss: 2.51802 - acc: 0.3531 -- iter: 1536/5208
Training Step: 3733 | total loss: 2.67096 | time: 1.011s
| Adam | epoch: 340 | loss: 2.67096 - acc: 0.3451 -- iter: 2048/5208
Training Step: 3734 | total loss: 2.62764 | time: 1.317s
| Adam | epoch: 340 | loss: 2.62764 - acc: 0.3428 -- iter: 2560/5208
Training Step: 3735 | total loss: 2.55221 | time: 1.597s
| Adam | epoch: 340 | loss: 2.55221 - acc: 0.3413 -- iter: 3072/5208
Training Step: 3736 | total loss: 2.84222 | time: 1.906s
| Adam | epoch: 340 | loss: 2.84222 - acc: 0.3367 -- iter: 3584/5208
Training Step: 3737 | total loss: 2.80140 | time: 2.191s
| Adam | epoch: 340 | loss: 2.80140 - acc: 0.3335 -- iter: 4096/5208
Training Step: 3738 | total loss: 2.74418 | time: 2.462s
| Adam | epoch: 340 | loss: 2.74418 - acc: 0.3369 -- iter: 4608/5208
Training Step: 3739 | total loss: 2.68583 | time: 2.758s
| Adam | epoch: 340 | loss: 2.68583 - acc: 0.3383 -- iter: 5120/5208
Training Step: 3740 | total loss: 2.63245 | time: 3.049s
| Adam | epoch: 340 | loss: 2.63245 - acc: 0.3393 -- iter: 5208/5208
--
Training Step: 3741 | total loss: 2.58736 | time: 0.295s
| Adam | epoch: 341 | loss: 2.58736 - acc: 0.3411 -- iter: 0512/5208
Training Step: 3742 | total loss: 2.58723 | time: 0.582s
| Adam | epoch: 341 | loss: 2.58723 - acc: 0.3419 -- iter: 1024/5208
Training Step: 3743 | total loss: 2.55139 | time: 0.806s
| Adam | epoch: 341 | loss: 2.55139 - acc: 0.3425 -- iter: 1536/5208
Training Step: 3744 | total loss: 2.54100 | time: 1.063s
| Adam | epoch: 341 | loss: 2.54100 - acc: 0.3355 -- iter: 2048/5208
Training Step: 3745 | total loss: 2.51890 | time: 1.345s
| Adam | epoch: 341 | loss: 2.51890 - acc: 0.3236 -- iter: 2560/5208
Training Step: 3746 | total loss: 2.51121 | time: 1.611s
| Adam | epoch: 341 | loss: 2.51121 - acc: 0.3273 -- iter: 3072/5208
Training Step: 3747 | total loss: 2.50655 | time: 1.908s
| Adam | epoch: 341 | loss: 2.50655 - acc: 0.3319 -- iter: 3584/5208
Training Step: 3748 | total loss: 2.52002 | time: 2.192s
| Adam | epoch: 341 | loss: 2.52002 - acc: 0.3302 -- iter: 4096/5208
Training Step: 3749 | total loss: 2.48364 | time: 2.470s
| Adam | epoch: 341 | loss: 2.48364 - acc: 0.3304 -- iter: 4608/5208
Training Step: 3750 | total loss: 2.45697 | time: 2.769s
| Adam | epoch: 341 | loss: 2.45697 - acc: 0.3342 -- iter: 5120/5208
Training Step: 3751 | total loss: 2.40196 | time: 3.088s
| Adam | epoch: 341 | loss: 2.40196 - acc: 0.3371 -- iter: 5208/5208
--
Training Step: 3752 | total loss: 2.39081 | time: 0.302s
| Adam | epoch: 342 | loss: 2.39081 - acc: 0.3360 -- iter: 0512/5208
Training Step: 3753 | total loss: 2.39063 | time: 0.583s
| Adam | epoch: 342 | loss: 2.39063 - acc: 0.3360 -- iter: 1024/5208
Training Step: 3754 | total loss: 2.38767 | time: 0.888s
| Adam | epoch: 342 | loss: 2.38767 - acc: 0.3384 -- iter: 1536/5208
Training Step: 3755 | total loss: 2.37913 | time: 1.126s
| Adam | epoch: 342 | loss: 2.37913 - acc: 0.3430 -- iter: 2048/5208
Training Step: 3756 | total loss: 2.31894 | time: 1.390s
| Adam | epoch: 342 | loss: 2.31894 - acc: 0.3428 -- iter: 2560/5208
Training Step: 3757 | total loss: 2.25212 | time: 1.702s
| Adam | epoch: 342 | loss: 2.25212 - acc: 0.3426 -- iter: 3072/5208
Training Step: 3758 | total loss: 2.27013 | time: 1.988s
| Adam | epoch: 342 | loss: 2.27013 - acc: 0.3435 -- iter: 3584/5208
Training Step: 3759 | total loss: 2.23277 | time: 2.242s
| Adam | epoch: 342 | loss: 2.23277 - acc: 0.3492 -- iter: 4096/5208
Training Step: 3760 | total loss: 2.26134 | time: 2.532s
| Adam | epoch: 342 | loss: 2.26134 - acc: 0.3535 -- iter: 4608/5208
Training Step: 3761 | total loss: 2.27494 | time: 2.852s
| Adam | epoch: 342 | loss: 2.27494 - acc: 0.3545 -- iter: 5120/5208
Training Step: 3762 | total loss: 2.26159 | time: 3.168s
| Adam | epoch: 342 | loss: 2.26159 - acc: 0.3550 -- iter: 5208/5208
```

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Training Step: 3763 | total loss: 2.24426 | time: 0.274s
| Adam | epoch: 343 | loss: 2.24426 - acc: 0.3546 -- iter: 0512/5208
Training Step: 3764 | total loss: 2.23882 | time: 0.574s
| Adam | epoch: 343 | loss: 2.23882 - acc: 0.3539 -- iter: 1024/5208
Training Step: 3765 | total loss: 2.24340 | time: 0.890s
| Adam | epoch: 343 | loss: 2.24340 - acc: 0.3516 -- iter: 1536/5208
Training Step: 3766 | total loss: 2.26359 | time: 1.182s
| Adam | epoch: 343 | loss: 2.26359 - acc: 0.3514 -- iter: 2048/5208
Training Step: 3767 | total loss: 2.21298 | time: 1.395s
| Adam | epoch: 343 | loss: 2.21298 - acc: 0.3520 -- iter: 2560/5208
Training Step: 3768 | total loss: 2.17027 | time: 1.674s
| Adam | epoch: 343 | loss: 2.17027 - acc: 0.3543 -- iter: 3072/5208
Training Step: 3769 | total loss: 2.12233 | time: 1.977s
| Adam | epoch: 343 | loss: 2.12233 - acc: 0.3518 -- iter: 3584/5208
Training Step: 3770 | total loss: 2.12588 | time: 2.245s
| Adam | epoch: 343 | loss: 2.12588 - acc: 0.3535 -- iter: 4096/5208
Training Step: 3771 | total loss: 2.09927 | time: 2.536s
| Adam | epoch: 343 | loss: 2.09927 - acc: 0.3535 -- iter: 4608/5208
Training Step: 3772 | total loss: 2.49590 | time: 2.836s
| Adam | epoch: 343 | loss: 2.49590 - acc: 0.3533 -- iter: 5120/5208
Training Step: 3773 | total loss: 2.45600 | time: 3.110s
| Adam | epoch: 343 | loss: 2.45600 - acc: 0.3539 -- iter: 5208/5208
--
Training Step: 3774 | total loss: 2.43365 | time: 0.289s
| Adam | epoch: 344 | loss: 2.43365 - acc: 0.3568 -- iter: 0512/5208
Training Step: 3775 | total loss: 2.41494 | time: 0.634s
| Adam | epoch: 344 | loss: 2.41494 - acc: 0.3584 -- iter: 1024/5208
Training Step: 3776 | total loss: 2.41449 | time: 0.935s
| Adam | epoch: 344 | loss: 2.41449 - acc: 0.3623 -- iter: 1536/5208
Training Step: 3777 | total loss: 2.40611 | time: 1.257s
| Adam | epoch: 344 | loss: 2.40611 - acc: 0.3577 -- iter: 2048/5208
Training Step: 3778 | total loss: 2.36802 | time: 1.524s
| Adam | epoch: 344 | loss: 2.36802 - acc: 0.3559 -- iter: 2560/5208
Training Step: 3779 | total loss: 2.35596 | time: 1.784s
| Adam | epoch: 344 | loss: 2.35596 - acc: 0.3588 -- iter: 3072/5208
Training Step: 3780 | total loss: 2.29639 | time: 2.044s
| Adam | epoch: 344 | loss: 2.29639 - acc: 0.3524 -- iter: 3584/5208
Training Step: 3781 | total loss: 2.24012 | time: 2.309s
| Adam | epoch: 344 | loss: 2.24012 - acc: 0.3490 -- iter: 4096/5208
Training Step: 3782 | total loss: 2.24335 | time: 2.644s
| Adam | epoch: 344 | loss: 2.24335 - acc: 0.3504 -- iter: 4608/5208
Training Step: 3783 | total loss: 2.23107 | time: 2.910s
| Adam | epoch: 344 | loss: 2.23107 - acc: 0.3531 -- iter: 5120/5208
Training Step: 3784 | total loss: 2.25693 | time: 3.225s
| Adam | epoch: 344 | loss: 2.25693 - acc: 0.3567 -- iter: 5208/5208
--
Training Step: 3785 | total loss: 2.25628 | time: 0.282s
| Adam | epoch: 345 | loss: 2.25628 - acc: 0.3571 -- iter: 0512/5208
Training Step: 3786 | total loss: 2.25310 | time: 0.568s
| Adam | epoch: 345 | loss: 2.25310 - acc: 0.3579 -- iter: 1024/5208
Training Step: 3787 | total loss: 2.24163 | time: 0.879s
| Adam | epoch: 345 | loss: 2.24163 - acc: 0.3585 -- iter: 1536/5208
Training Step: 3788 | total loss: 2.21395 | time: 1.152s
| Adam | epoch: 345 | loss: 2.21395 - acc: 0.3599 -- iter: 2048/5208
Training Step: 3789 | total loss: 2.20182 | time: 1.429s
| Adam | epoch: 345 | loss: 2.20182 - acc: 0.3585 -- iter: 2560/5208
Training Step: 3790 | total loss: 2.19289 | time: 1.735s
| Adam | epoch: 345 | loss: 2.19289 - acc: 0.3582 -- iter: 3072/5208
Training Step: 3791 | total loss: 2.20868 | time: 1.973s
| Adam | epoch: 345 | loss: 2.20868 - acc: 0.3587 -- iter: 3584/5208
Training Step: 3792 | total loss: 2.30775 | time: 2.208s
| Adam | epoch: 345 | loss: 2.30775 - acc: 0.3547 -- iter: 4096/5208
Training Step: 3793 | total loss: 2.38543 | time: 2.519s
| Adam | epoch: 345 | loss: 2.38543 - acc: 0.3510 -- iter: 4608/5208
Training Step: 3794 | total loss: 2.37560 | time: 2.788s
| Adam | epoch: 345 | loss: 2.37560 - acc: 0.3501 -- iter: 5120/5208
Training Step: 3795 | total loss: 2.32844 | time: 3.074s
| Adam | epoch: 345 | loss: 2.32844 - acc: 0.3520 -- iter: 5208/5208
--
Training Step: 3796 | total loss: 2.61769 | time: 0.285s
| Adam | epoch: 346 | loss: 2.61769 - acc: 0.3504 -- iter: 0512/5208
Training Step: 3797 | total loss: 2.53802 | time: 0.582s
| Adam | epoch: 346 | loss: 2.53802 - acc: 0.3509 -- iter: 1024/5208
Training Step: 3798 | total loss: 2.51582 | time: 0.872s
| Adam | epoch: 346 | loss: 2.51582 - acc: 0.3543 -- iter: 1536/5208
Training Step: 3799 | total loss: 2.47155 | time: 1.147s
| Adam | epoch: 346 | loss: 2.47155 - acc: 0.3573 -- iter: 2048/5208
Training Step: 3800 | total loss: 2.44563 | time: 1.442s
| Adam | epoch: 346 | loss: 2.44563 - acc: 0.3568 -- iter: 2560/5208
Training Step: 3801 | total loss: 2.43905 | time: 1.730s
| Adam | epoch: 346 | loss: 2.43905 - acc: 0.3539 -- iter: 3072/5208
Training Step: 3802 | total loss: 2.46193 | time: 2.012s
```

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| Adam | epoch: 346 | loss: 2.46193 - acc: 0.3542 -- iter: 3584/5208
Training Step: 3803 | total loss: 2.42902 | time: 2.226s
| Adam | epoch: 346 | loss: 2.42902 - acc: 0.3548 -- iter: 4096/5208
Training Step: 3804 | total loss: 2.45903 | time: 2.467s
| Adam | epoch: 346 | loss: 2.45903 - acc: 0.3556 -- iter: 4608/5208
Training Step: 3805 | total loss: 2.47121 | time: 2.752s
| Adam | epoch: 346 | loss: 2.47121 - acc: 0.3667 -- iter: 5120/5208
Training Step: 3806 | total loss: 2.45092 | time: 3.088s
| Adam | epoch: 346 | loss: 2.45092 - acc: 0.3663 -- iter: 5208/5208
--
Training Step: 3807 | total loss: 2.41536 | time: 0.266s
| Adam | epoch: 347 | loss: 2.41536 - acc: 0.3660 -- iter: 0512/5208
Training Step: 3808 | total loss: 2.47566 | time: 0.594s
| Adam | epoch: 347 | loss: 2.47566 - acc: 0.3671 -- iter: 1024/5208
Training Step: 3809 | total loss: 2.45393 | time: 0.869s
| Adam | epoch: 347 | loss: 2.45393 - acc: 0.3681 -- iter: 1536/5208
Training Step: 3810 | total loss: 2.41433 | time: 1.217s
| Adam | epoch: 347 | loss: 2.41433 - acc: 0.3645 -- iter: 2048/5208
Training Step: 3811 | total loss: 2.39340 | time: 1.483s
| Adam | epoch: 347 | loss: 2.39340 - acc: 0.3612 -- iter: 2560/5208
Training Step: 3812 | total loss: 2.36082 | time: 1.862s
| Adam | epoch: 347 | loss: 2.36082 - acc: 0.3607 -- iter: 3072/5208
Training Step: 3813 | total loss: 2.32671 | time: 2.133s
| Adam | epoch: 347 | loss: 2.32671 - acc: 0.3623 -- iter: 3584/5208
Training Step: 3814 | total loss: 2.33422 | time: 2.409s
| Adam | epoch: 347 | loss: 2.33422 - acc: 0.3628 -- iter: 4096/5208
Training Step: 3815 | total loss: 2.31282 | time: 2.666s
| Adam | epoch: 347 | loss: 2.31282 - acc: 0.3607 -- iter: 4608/5208
Training Step: 3816 | total loss: 2.30313 | time: 2.916s
| Adam | epoch: 347 | loss: 2.30313 - acc: 0.3564 -- iter: 5120/5208
Training Step: 3817 | total loss: 2.28211 | time: 3.189s
| Adam | epoch: 347 | loss: 2.28211 - acc: 0.3583 -- iter: 5208/5208
--
Training Step: 3818 | total loss: 2.25806 | time: 0.293s
| Adam | epoch: 348 | loss: 2.25806 - acc: 0.3588 -- iter: 0512/5208
Training Step: 3819 | total loss: 2.27170 | time: 0.573s
| Adam | epoch: 348 | loss: 2.27170 - acc: 0.3647 -- iter: 1024/5208
Training Step: 3820 | total loss: 2.38806 | time: 0.858s
| Adam | epoch: 348 | loss: 2.38806 - acc: 0.3646 -- iter: 1536/5208
Training Step: 3821 | total loss: 2.37136 | time: 1.163s
| Adam | epoch: 348 | loss: 2.37136 - acc: 0.3652 -- iter: 2048/5208
Training Step: 3822 | total loss: 2.37183 | time: 1.455s
| Adam | epoch: 348 | loss: 2.37183 - acc: 0.3642 -- iter: 2560/5208
Training Step: 3823 | total loss: 2.37177 | time: 1.747s
| Adam | epoch: 348 | loss: 2.37177 - acc: 0.3657 -- iter: 3072/5208
Training Step: 3824 | total loss: 2.35006 | time: 2.041s
| Adam | epoch: 348 | loss: 2.35006 - acc: 0.3655 -- iter: 3584/5208
Training Step: 3825 | total loss: 2.35536 | time: 2.335s
| Adam | epoch: 348 | loss: 2.35536 - acc: 0.3639 -- iter: 4096/5208
Training Step: 3826 | total loss: 2.32548 | time: 2.655s
| Adam | epoch: 348 | loss: 2.32548 - acc: 0.3621 -- iter: 4608/5208
Training Step: 3827 | total loss: 2.32013 | time: 2.862s
| Adam | epoch: 348 | loss: 2.32013 - acc: 0.3634 -- iter: 5120/5208
Training Step: 3828 | total loss: 2.29685 | time: 3.106s
| Adam | epoch: 348 | loss: 2.29685 - acc: 0.3645 -- iter: 5208/5208
--
Training Step: 3829 | total loss: 2.26533 | time: 0.294s
| Adam | epoch: 349 | loss: 2.26533 - acc: 0.3678 -- iter: 0512/5208
Training Step: 3830 | total loss: 2.22522 | time: 0.587s
| Adam | epoch: 349 | loss: 2.22522 - acc: 0.3668 -- iter: 1024/5208
Training Step: 3831 | total loss: 2.19638 | time: 0.880s
| Adam | epoch: 349 | loss: 2.19638 - acc: 0.3645 -- iter: 1536/5208
Training Step: 3832 | total loss: 2.52802 | time: 1.198s
| Adam | epoch: 349 | loss: 2.52802 - acc: 0.3654 -- iter: 2048/5208
Training Step: 3833 | total loss: 2.50801 | time: 1.520s
| Adam | epoch: 349 | loss: 2.50801 - acc: 0.3657 -- iter: 2560/5208
Training Step: 3834 | total loss: 2.49000 | time: 1.814s
| Adam | epoch: 349 | loss: 2.49000 - acc: 0.3635 -- iter: 3072/5208
Training Step: 3835 | total loss: 2.45208 | time: 2.090s
| Adam | epoch: 349 | loss: 2.45208 - acc: 0.3635 -- iter: 3584/5208
Training Step: 3836 | total loss: 2.41619 | time: 2.365s
| Adam | epoch: 349 | loss: 2.41619 - acc: 0.3670 -- iter: 4096/5208
Training Step: 3837 | total loss: 2.38362 | time: 2.659s
| Adam | epoch: 349 | loss: 2.38362 - acc: 0.3701 -- iter: 4608/5208
Training Step: 3838 | total loss: 2.39532 | time: 2.957s
| Adam | epoch: 349 | loss: 2.39532 - acc: 0.3698 -- iter: 5120/5208
Training Step: 3839 | total loss: 2.34775 | time: 3.160s
| Adam | epoch: 349 | loss: 2.34775 - acc: 0.3711 -- iter: 5208/5208
--
Training Step: 3840 | total loss: 2.34312 | time: 0.261s
| Adam | epoch: 350 | loss: 2.34312 - acc: 0.3681 -- iter: 0512/5208
Training Step: 3841 | total loss: 2.33116 | time: 0.557s
| Adam | epoch: 350 | loss: 2.33116 - acc: 0.3677 -- iter: 1024/5208
```



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Training Step: 3842 | total loss: 2.30954 | time: 0.806s
| Adam | epoch: 350 | loss: 2.30954 - acc: 0.3620 -- iter: 1536/5208
Training Step: 3843 | total loss: 2.28835 | time: 1.081s
| Adam | epoch: 350 | loss: 2.28835 - acc: 0.3609 -- iter: 2048/5208
Training Step: 3844 | total loss: 2.31849 | time: 1.369s
| Adam | epoch: 350 | loss: 2.31849 - acc: 0.3602 -- iter: 2560/5208
Training Step: 3845 | total loss: 2.26098 | time: 1.666s
| Adam | epoch: 350 | loss: 2.26098 - acc: 0.3615 -- iter: 3072/5208
Training Step: 3846 | total loss: 2.21574 | time: 1.948s
| Adam | epoch: 350 | loss: 2.21574 - acc: 0.3624 -- iter: 3584/5208
Training Step: 3847 | total loss: 2.22464 | time: 2.226s
| Adam | epoch: 350 | loss: 2.22464 - acc: 0.3625 -- iter: 4096/5208
Training Step: 3848 | total loss: 2.23816 | time: 2.517s
| Adam | epoch: 350 | loss: 2.23816 - acc: 0.3634 -- iter: 4608/5208
Training Step: 3849 | total loss: 2.22580 | time: 2.799s
| Adam | epoch: 350 | loss: 2.22580 - acc: 0.3657 -- iter: 5120/5208
Training Step: 3850 | total loss: 2.21518 | time: 3.102s
| Adam | epoch: 350 | loss: 2.21518 - acc: 0.3662 -- iter: 5208/5208
--
Training Step: 3851 | total loss: 2.22764 | time: 0.217s
| Adam | epoch: 351 | loss: 2.22764 - acc: 0.3648 -- iter: 0512/5208
Training Step: 3852 | total loss: 2.28987 | time: 0.471s
| Adam | epoch: 351 | loss: 2.28987 - acc: 0.3590 -- iter: 1024/5208
Training Step: 3853 | total loss: 2.32852 | time: 0.763s
| Adam | epoch: 351 | loss: 2.32852 - acc: 0.3560 -- iter: 1536/5208
Training Step: 3854 | total loss: 2.30920 | time: 1.029s
| Adam | epoch: 351 | loss: 2.30920 - acc: 0.3540 -- iter: 2048/5208
Training Step: 3855 | total loss: 2.28943 | time: 1.344s
| Adam | epoch: 351 | loss: 2.28943 - acc: 0.3555 -- iter: 2560/5208
Training Step: 3856 | total loss: 2.47075 | time: 1.632s
| Adam | epoch: 351 | loss: 2.47075 - acc: 0.3567 -- iter: 3072/5208
Training Step: 3857 | total loss: 2.43674 | time: 1.922s
| Adam | epoch: 351 | loss: 2.43674 - acc: 0.3566 -- iter: 3584/5208
Training Step: 3858 | total loss: 2.39405 | time: 2.214s
| Adam | epoch: 351 | loss: 2.39405 - acc: 0.3596 -- iter: 4096/5208
Training Step: 3859 | total loss: 2.37567 | time: 2.518s
| Adam | epoch: 351 | loss: 2.37567 - acc: 0.3594 -- iter: 4608/5208
Training Step: 3860 | total loss: 2.35555 | time: 2.805s
| Adam | epoch: 351 | loss: 2.35555 - acc: 0.3623 -- iter: 5120/5208
Training Step: 3861 | total loss: 2.32371 | time: 3.091s
| Adam | epoch: 351 | loss: 2.32371 - acc: 0.3601 -- iter: 5208/5208
--
Training Step: 3862 | total loss: 2.33648 | time: 0.274s
| Adam | epoch: 352 | loss: 2.33648 - acc: 0.3625 -- iter: 0512/5208
Training Step: 3863 | total loss: 2.31946 | time: 0.526s
| Adam | epoch: 352 | loss: 2.31946 - acc: 0.3610 -- iter: 1024/5208
Training Step: 3864 | total loss: 2.27273 | time: 0.782s
| Adam | epoch: 352 | loss: 2.27273 - acc: 0.3658 -- iter: 1536/5208
Training Step: 3865 | total loss: 2.22604 | time: 1.068s
| Adam | epoch: 352 | loss: 2.22604 - acc: 0.3713 -- iter: 2048/5208
Training Step: 3866 | total loss: 2.21649 | time: 1.357s
| Adam | epoch: 352 | loss: 2.21649 - acc: 0.3701 -- iter: 2560/5208
Training Step: 3867 | total loss: 2.20073 | time: 1.653s
| Adam | epoch: 352 | loss: 2.20073 - acc: 0.3704 -- iter: 3072/5208
Training Step: 3868 | total loss: 2.54957 | time: 1.954s
| Adam | epoch: 352 | loss: 2.54957 - acc: 0.3679 -- iter: 3584/5208
Training Step: 3869 | total loss: 2.52443 | time: 2.260s
| Adam | epoch: 352 | loss: 2.52443 - acc: 0.3675 -- iter: 4096/5208
Training Step: 3870 | total loss: 2.48161 | time: 2.553s
| Adam | epoch: 352 | loss: 2.48161 - acc: 0.3682 -- iter: 4608/5208
Training Step: 3871 | total loss: 2.45048 | time: 2.848s
| Adam | epoch: 352 | loss: 2.45048 - acc: 0.3660 -- iter: 5120/5208
Training Step: 3872 | total loss: 2.40061 | time: 3.159s
| Adam | epoch: 352 | loss: 2.40061 - acc: 0.3700 -- iter: 5208/5208
--
Training Step: 3873 | total loss: 2.36506 | time: 0.303s
| Adam | epoch: 353 | loss: 2.36506 - acc: 0.3672 -- iter: 0512/5208
Training Step: 3874 | total loss: 2.35472 | time: 0.607s
| Adam | epoch: 353 | loss: 2.35472 - acc: 0.3678 -- iter: 1024/5208
Training Step: 3875 | total loss: 2.29933 | time: 0.833s
| Adam | epoch: 353 | loss: 2.29933 - acc: 0.3706 -- iter: 1536/5208
Training Step: 3876 | total loss: 2.26365 | time: 1.079s
| Adam | epoch: 353 | loss: 2.26365 - acc: 0.3665 -- iter: 2048/5208
Training Step: 3877 | total loss: 2.22581 | time: 1.399s
| Adam | epoch: 353 | loss: 2.22581 - acc: 0.3696 -- iter: 2560/5208
Training Step: 3878 | total loss: 2.19286 | time: 1.664s
| Adam | epoch: 353 | loss: 2.19286 - acc: 0.3688 -- iter: 3072/5208
Training Step: 3879 | total loss: 2.21789 | time: 1.924s
| Adam | epoch: 353 | loss: 2.21789 - acc: 0.3671 -- iter: 3584/5208
Training Step: 3880 | total loss: 2.78327 | time: 2.218s
| Adam | epoch: 353 | loss: 2.78327 - acc: 0.3638 -- iter: 4096/5208
Training Step: 3881 | total loss: 2.72491 | time: 2.542s
| Adam | epoch: 353 | loss: 2.72491 - acc: 0.3653 -- iter: 4608/5208
```



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Training Step: 3882 | total loss: 2.66051 | time: 2.814s
| Adam | epoch: 353 | loss: 2.66051 - acc: 0.3657 -- iter: 5120/5208
Training Step: 3883 | total loss: 2.62155 | time: 3.115s
| Adam | epoch: 353 | loss: 2.62155 - acc: 0.3641 -- iter: 5208/5208
--
Training Step: 3884 | total loss: 2.55238 | time: 0.316s
| Adam | epoch: 354 | loss: 2.55238 - acc: 0.3615 -- iter: 0512/5208
Training Step: 3885 | total loss: 2.50210 | time: 0.606s
| Adam | epoch: 354 | loss: 2.50210 - acc: 0.3614 -- iter: 1024/5208
Training Step: 3886 | total loss: 2.43859 | time: 0.909s
| Adam | epoch: 354 | loss: 2.43859 - acc: 0.3655 -- iter: 1536/5208
Training Step: 3887 | total loss: 2.43744 | time: 1.119s
| Adam | epoch: 354 | loss: 2.43744 - acc: 0.3661 -- iter: 2048/5208
Training Step: 3888 | total loss: 2.34803 | time: 1.378s
| Adam | epoch: 354 | loss: 2.34803 - acc: 0.3761 -- iter: 2560/5208
Training Step: 3889 | total loss: 2.26688 | time: 1.646s
| Adam | epoch: 354 | loss: 2.26688 - acc: 0.3873 -- iter: 3072/5208
Training Step: 3890 | total loss: 2.25944 | time: 1.930s
| Adam | epoch: 354 | loss: 2.25944 - acc: 0.3859 -- iter: 3584/5208
Training Step: 3891 | total loss: 2.26214 | time: 2.233s
| Adam | epoch: 354 | loss: 2.26214 - acc: 0.3862 -- iter: 4096/5208
Training Step: 3892 | total loss: 2.25151 | time: 2.528s
| Adam | epoch: 354 | loss: 2.25151 - acc: 0.3835 -- iter: 4608/5208
Training Step: 3893 | total loss: 2.22767 | time: 2.839s
| Adam | epoch: 354 | loss: 2.22767 - acc: 0.3830 -- iter: 5120/5208
Training Step: 3894 | total loss: 2.20055 | time: 3.154s
| Adam | epoch: 354 | loss: 2.20055 - acc: 0.3805 -- iter: 5208/5208
--
Training Step: 3895 | total loss: 2.23056 | time: 0.285s
| Adam | epoch: 355 | loss: 2.23056 - acc: 0.3831 -- iter: 0512/5208
Training Step: 3896 | total loss: 2.19628 | time: 0.573s
| Adam | epoch: 355 | loss: 2.19628 - acc: 0.3840 -- iter: 1024/5208
Training Step: 3897 | total loss: 2.19840 | time: 0.878s
| Adam | epoch: 355 | loss: 2.19840 - acc: 0.3817 -- iter: 1536/5208
Training Step: 3898 | total loss: 2.17999 | time: 1.169s
| Adam | epoch: 355 | loss: 2.17999 - acc: 0.3828 -- iter: 2048/5208
Training Step: 3899 | total loss: 2.16693 | time: 1.398s
| Adam | epoch: 355 | loss: 2.16693 - acc: 0.3822 -- iter: 2560/5208
Training Step: 3900 | total loss: 2.24500 | time: 1.663s
| Adam | epoch: 355 | loss: 2.24500 - acc: 0.3826 -- iter: 3072/5208
Training Step: 3901 | total loss: 2.30629 | time: 1.945s
| Adam | epoch: 355 | loss: 2.30629 - acc: 0.3796 -- iter: 3584/5208
Training Step: 3902 | total loss: 2.29315 | time: 2.235s
| Adam | epoch: 355 | loss: 2.29315 - acc: 0.3791 -- iter: 4096/5208
Training Step: 3903 | total loss: 2.26622 | time: 2.507s
| Adam | epoch: 355 | loss: 2.26622 - acc: 0.3795 -- iter: 4608/5208
Training Step: 3904 | total loss: 3.00584 | time: 2.851s
| Adam | epoch: 355 | loss: 3.00584 - acc: 0.3728 -- iter: 5120/5208
Training Step: 3905 | total loss: 2.88897 | time: 3.117s
| Adam | epoch: 355 | loss: 2.88897 - acc: 0.3703 -- iter: 5208/5208
--
Training Step: 3906 | total loss: 2.79604 | time: 0.290s
| Adam | epoch: 356 | loss: 2.79604 - acc: 0.3719 -- iter: 0512/5208
Training Step: 3907 | total loss: 2.71471 | time: 0.625s
| Adam | epoch: 356 | loss: 2.71471 - acc: 0.3678 -- iter: 1024/5208
Training Step: 3908 | total loss: 2.69122 | time: 0.898s
| Adam | epoch: 356 | loss: 2.69122 - acc: 0.3708 -- iter: 1536/5208
Training Step: 3909 | total loss: 2.62804 | time: 1.184s
| Adam | epoch: 356 | loss: 2.62804 - acc: 0.3679 -- iter: 2048/5208
Training Step: 3910 | total loss: 2.56106 | time: 1.475s
| Adam | epoch: 356 | loss: 2.56106 - acc: 0.3692 -- iter: 2560/5208
Training Step: 3911 | total loss: 2.51145 | time: 1.702s
| Adam | epoch: 356 | loss: 2.51145 - acc: 0.3725 -- iter: 3072/5208
Training Step: 3912 | total loss: 2.44271 | time: 1.946s
| Adam | epoch: 356 | loss: 2.44271 - acc: 0.3750 -- iter: 3584/5208
Training Step: 3913 | total loss: 2.36261 | time: 2.215s
| Adam | epoch: 356 | loss: 2.36261 - acc: 0.3807 -- iter: 4096/5208
Training Step: 3914 | total loss: 2.31739 | time: 2.500s
| Adam | epoch: 356 | loss: 2.31739 - acc: 0.3809 -- iter: 4608/5208
Training Step: 3915 | total loss: 2.39214 | time: 2.777s
| Adam | epoch: 356 | loss: 2.39214 - acc: 0.3798 -- iter: 5120/5208
Training Step: 3916 | total loss: 2.39803 | time: 3.099s
| Adam | epoch: 356 | loss: 2.39803 - acc: 0.3742 -- iter: 5208/5208
--
Training Step: 3917 | total loss: 2.38380 | time: 0.292s
| Adam | epoch: 357 | loss: 2.38380 - acc: 0.3727 -- iter: 0512/5208
Training Step: 3918 | total loss: 2.40190 | time: 0.578s
| Adam | epoch: 357 | loss: 2.40190 - acc: 0.3739 -- iter: 1024/5208
Training Step: 3919 | total loss: 2.34695 | time: 0.873s
| Adam | epoch: 357 | loss: 2.34695 - acc: 0.3758 -- iter: 1536/5208
Training Step: 3920 | total loss: 2.34497 | time: 1.157s
| Adam | epoch: 357 | loss: 2.34497 - acc: 0.3794 -- iter: 2048/5208
Training Step: 3921 | total loss: 2.31536 | time: 1.452s
```

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| Adam | epoch: 357 | loss: 2.31536 - acc: 0.3798 -- iter: 2560/5208
Training Step: 3922 | total loss: 2.28454 | time: 1.748s
| Adam | epoch: 357 | loss: 2.28454 - acc: 0.3807 -- iter: 3072/5208
Training Step: 3923 | total loss: 2.24318 | time: 2.002s
| Adam | epoch: 357 | loss: 2.24318 - acc: 0.3789 -- iter: 3584/5208
Training Step: 3924 | total loss: 2.19516 | time: 2.263s
| Adam | epoch: 357 | loss: 2.19516 - acc: 0.3740 -- iter: 4096/5208
Training Step: 3925 | total loss: 2.13019 | time: 2.543s
| Adam | epoch: 357 | loss: 2.13019 - acc: 0.3707 -- iter: 4608/5208
Training Step: 3926 | total loss: 2.11646 | time: 2.824s
| Adam | epoch: 357 | loss: 2.11646 - acc: 0.3672 -- iter: 5120/5208
Training Step: 3927 | total loss: 2.13374 | time: 3.109s
| Adam | epoch: 357 | loss: 2.13374 - acc: 0.3664 -- iter: 5208/5208
--
Training Step: 3928 | total loss: 2.24653 | time: 0.314s
| Adam | epoch: 358 | loss: 2.24653 - acc: 0.3653 -- iter: 0512/5208
Training Step: 3929 | total loss: 2.18984 | time: 0.605s
| Adam | epoch: 358 | loss: 2.18984 - acc: 0.3667 -- iter: 1024/5208
Training Step: 3930 | total loss: 2.14574 | time: 0.895s
| Adam | epoch: 358 | loss: 2.14574 - acc: 0.3687 -- iter: 1536/5208
Training Step: 3931 | total loss: 2.18147 | time: 1.177s
| Adam | epoch: 358 | loss: 2.18147 - acc: 0.3681 -- iter: 2048/5208
Training Step: 3932 | total loss: 2.14829 | time: 1.489s
| Adam | epoch: 358 | loss: 2.14829 - acc: 0.3712 -- iter: 2560/5208
Training Step: 3933 | total loss: 2.14171 | time: 1.789s
| Adam | epoch: 358 | loss: 2.14171 - acc: 0.3716 -- iter: 3072/5208
Training Step: 3934 | total loss: 2.15505 | time: 2.093s
| Adam | epoch: 358 | loss: 2.15505 - acc: 0.3717 -- iter: 3584/5208
Training Step: 3935 | total loss: 2.13697 | time: 2.313s
| Adam | epoch: 358 | loss: 2.13697 - acc: 0.3730 -- iter: 4096/5208
Training Step: 3936 | total loss: 2.11502 | time: 2.577s
| Adam | epoch: 358 | loss: 2.11502 - acc: 0.3675 -- iter: 4608/5208
Training Step: 3937 | total loss: 2.07996 | time: 2.866s
| Adam | epoch: 358 | loss: 2.07996 - acc: 0.3671 -- iter: 5120/5208
Training Step: 3938 | total loss: 2.09315 | time: 3.151s
| Adam | epoch: 358 | loss: 2.09315 - acc: 0.3699 -- iter: 5208/5208
--
Training Step: 3939 | total loss: 2.09452 | time: 0.347s
| Adam | epoch: 359 | loss: 2.09452 - acc: 0.3696 -- iter: 0512/5208
Training Step: 3940 | total loss: 2.42288 | time: 0.634s
| Adam | epoch: 359 | loss: 2.42288 - acc: 0.3725 -- iter: 1024/5208
Training Step: 3941 | total loss: 2.42343 | time: 0.956s
| Adam | epoch: 359 | loss: 2.42343 - acc: 0.3751 -- iter: 1536/5208
Training Step: 3942 | total loss: 2.37287 | time: 1.254s
| Adam | epoch: 359 | loss: 2.37287 - acc: 0.3686 -- iter: 2048/5208
Training Step: 3943 | total loss: 2.38464 | time: 1.558s
| Adam | epoch: 359 | loss: 2.38464 - acc: 0.3697 -- iter: 2560/5208
Training Step: 3944 | total loss: 2.32917 | time: 1.823s
| Adam | epoch: 359 | loss: 2.32917 - acc: 0.3675 -- iter: 3072/5208
Training Step: 3945 | total loss: 2.30700 | time: 2.098s
| Adam | epoch: 359 | loss: 2.30700 - acc: 0.3690 -- iter: 3584/5208
Training Step: 3946 | total loss: 2.25070 | time: 2.396s
| Adam | epoch: 359 | loss: 2.25070 - acc: 0.3719 -- iter: 4096/5208
Training Step: 3947 | total loss: 2.23042 | time: 2.625s
| Adam | epoch: 359 | loss: 2.23042 - acc: 0.3683 -- iter: 4608/5208
Training Step: 3948 | total loss: 2.20498 | time: 2.870s
| Adam | epoch: 359 | loss: 2.20498 - acc: 0.3747 -- iter: 5120/5208
Training Step: 3949 | total loss: 2.16277 | time: 3.147s
| Adam | epoch: 359 | loss: 2.16277 - acc: 0.3747 -- iter: 5208/5208
--
Training Step: 3950 | total loss: 2.15329 | time: 0.283s
| Adam | epoch: 360 | loss: 2.15329 - acc: 0.3732 -- iter: 0512/5208
Training Step: 3951 | total loss: 2.15696 | time: 0.619s
| Adam | epoch: 360 | loss: 2.15696 - acc: 0.3736 -- iter: 1024/5208
Training Step: 3952 | total loss: 2.40471 | time: 0.883s
| Adam | epoch: 360 | loss: 2.40471 - acc: 0.3675 -- iter: 1536/5208
Training Step: 3953 | total loss: 2.37548 | time: 1.200s
| Adam | epoch: 360 | loss: 2.37548 - acc: 0.3666 -- iter: 2048/5208
Training Step: 3954 | total loss: 2.31910 | time: 1.512s
| Adam | epoch: 360 | loss: 2.31910 - acc: 0.3673 -- iter: 2560/5208
Training Step: 3955 | total loss: 2.29117 | time: 1.773s
| Adam | epoch: 360 | loss: 2.29117 - acc: 0.3684 -- iter: 3072/5208
Training Step: 3956 | total loss: 2.27617 | time: 2.077s
| Adam | epoch: 360 | loss: 2.27617 - acc: 0.3681 -- iter: 3584/5208
Training Step: 3957 | total loss: 2.28426 | time: 2.386s
| Adam | epoch: 360 | loss: 2.28426 - acc: 0.3704 -- iter: 4096/5208
Training Step: 3958 | total loss: 2.23483 | time: 2.719s
| Adam | epoch: 360 | loss: 2.23483 - acc: 0.3730 -- iter: 4608/5208
Training Step: 3959 | total loss: 2.24181 | time: 2.945s
| Adam | epoch: 360 | loss: 2.24181 - acc: 0.3744 -- iter: 5120/5208
Training Step: 3960 | total loss: 2.18917 | time: 3.206s
| Adam | epoch: 360 | loss: 2.18917 - acc: 0.3812 -- iter: 5208/5208
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Training Step: 3961 | total loss: 2.13763 | time: 0.303s
| Adam | epoch: 361 | loss: 2.13763 - acc: 0.3795 -- iter: 0512/5208
Training Step: 3962 | total loss: 2.12329 | time: 0.574s
| Adam | epoch: 361 | loss: 2.12329 - acc: 0.3796 -- iter: 1024/5208
Training Step: 3963 | total loss: 2.11941 | time: 0.848s
| Adam | epoch: 361 | loss: 2.11941 - acc: 0.3805 -- iter: 1536/5208
Training Step: 3964 | total loss: 2.13743 | time: 1.130s
| Adam | epoch: 361 | loss: 2.13743 - acc: 0.3792 -- iter: 2048/5208
Training Step: 3965 | total loss: 2.13110 | time: 1.431s
| Adam | epoch: 361 | loss: 2.13110 - acc: 0.3786 -- iter: 2560/5208
Training Step: 3966 | total loss: 2.09678 | time: 1.728s
| Adam | epoch: 361 | loss: 2.09678 - acc: 0.3804 -- iter: 3072/5208
Training Step: 3967 | total loss: 2.08872 | time: 2.025s
| Adam | epoch: 361 | loss: 2.08872 - acc: 0.3792 -- iter: 3584/5208
Training Step: 3968 | total loss: 2.09688 | time: 2.316s
| Adam | epoch: 361 | loss: 2.09688 - acc: 0.3810 -- iter: 4096/5208
Training Step: 3969 | total loss: 2.13141 | time: 2.645s
| Adam | epoch: 361 | loss: 2.13141 - acc: 0.3763 -- iter: 4608/5208
Training Step: 3970 | total loss: 2.09245 | time: 2.915s
| Adam | epoch: 361 | loss: 2.09245 - acc: 0.3738 -- iter: 5120/5208
Training Step: 3971 | total loss: 2.08327 | time: 3.170s
| Adam | epoch: 361 | loss: 2.08327 - acc: 0.3733 -- iter: 5208/5208
--
Training Step: 3972 | total loss: 2.07254 | time: 0.209s
| Adam | epoch: 362 | loss: 2.07254 - acc: 0.3701 -- iter: 0512/5208
Training Step: 3973 | total loss: 2.06698 | time: 0.531s
| Adam | epoch: 362 | loss: 2.06698 - acc: 0.3649 -- iter: 1024/5208
Training Step: 3974 | total loss: 2.08654 | time: 0.808s
| Adam | epoch: 362 | loss: 2.08654 - acc: 0.3657 -- iter: 1536/5208
Training Step: 3975 | total loss: 2.07476 | time: 1.102s
| Adam | epoch: 362 | loss: 2.07476 - acc: 0.3684 -- iter: 2048/5208
Training Step: 3976 | total loss: 2.09166 | time: 1.387s
| Adam | epoch: 362 | loss: 2.09166 - acc: 0.3669 -- iter: 2560/5208
Training Step: 3977 | total loss: 2.08787 | time: 1.660s
| Adam | epoch: 362 | loss: 2.08787 - acc: 0.3701 -- iter: 3072/5208
Training Step: 3978 | total loss: 2.11700 | time: 2.033s
| Adam | epoch: 362 | loss: 2.11700 - acc: 0.3682 -- iter: 3584/5208
Training Step: 3979 | total loss: 2.10566 | time: 2.297s
| Adam | epoch: 362 | loss: 2.10566 - acc: 0.3697 -- iter: 4096/5208
Training Step: 3980 | total loss: 2.09010 | time: 2.594s
| Adam | epoch: 362 | loss: 2.09010 - acc: 0.3726 -- iter: 4608/5208
Training Step: 3981 | total loss: 2.12611 | time: 2.889s
| Adam | epoch: 362 | loss: 2.12611 - acc: 0.3751 -- iter: 5120/5208
Training Step: 3982 | total loss: 2.13187 | time: 3.195s
| Adam | epoch: 362 | loss: 2.13187 - acc: 0.3740 -- iter: 5208/5208
--
Training Step: 3983 | total loss: 2.10014 | time: 0.226s
| Adam | epoch: 363 | loss: 2.10014 - acc: 0.3729 -- iter: 0512/5208
Training Step: 3984 | total loss: 2.07347 | time: 0.465s
| Adam | epoch: 363 | loss: 2.07347 - acc: 0.3651 -- iter: 1024/5208
Training Step: 3985 | total loss: 2.04173 | time: 0.776s
| Adam | epoch: 363 | loss: 2.04173 - acc: 0.3695 -- iter: 1536/5208
Training Step: 3986 | total loss: 2.03138 | time: 1.081s
| Adam | epoch: 363 | loss: 2.03138 - acc: 0.3699 -- iter: 2048/5208
Training Step: 3987 | total loss: 2.01846 | time: 1.363s
| Adam | epoch: 363 | loss: 2.01846 - acc: 0.3671 -- iter: 2560/5208
Training Step: 3988 | total loss: 2.03145 | time: 1.665s
| Adam | epoch: 363 | loss: 2.03145 - acc: 0.3685 -- iter: 3072/5208
Training Step: 3989 | total loss: 2.03525 | time: 1.966s
| Adam | epoch: 363 | loss: 2.03525 - acc: 0.3681 -- iter: 3584/5208
Training Step: 3990 | total loss: 2.06361 | time: 2.245s
| Adam | epoch: 363 | loss: 2.06361 - acc: 0.3706 -- iter: 4096/5208
Training Step: 3991 | total loss: 2.02337 | time: 2.519s
| Adam | epoch: 363 | loss: 2.02337 - acc: 0.3677 -- iter: 4608/5208
Training Step: 3992 | total loss: 2.03403 | time: 2.812s
| Adam | epoch: 363 | loss: 2.03403 - acc: 0.3706 -- iter: 5120/5208
Training Step: 3993 | total loss: 2.02565 | time: 3.113s
| Adam | epoch: 363 | loss: 2.02565 - acc: 0.3693 -- iter: 5208/5208
--
Training Step: 3994 | total loss: 2.00479 | time: 0.289s
| Adam | epoch: 364 | loss: 2.00479 - acc: 0.3694 -- iter: 0512/5208
Training Step: 3995 | total loss: 2.00896 | time: 0.534s
| Adam | epoch: 364 | loss: 2.00896 - acc: 0.3677 -- iter: 1024/5208
Training Step: 3996 | total loss: 2.09947 | time: 0.756s
| Adam | epoch: 364 | loss: 2.09947 - acc: 0.3650 -- iter: 1536/5208
Training Step: 3997 | total loss: 2.16656 | time: 1.064s
| Adam | epoch: 364 | loss: 2.16656 - acc: 0.3614 -- iter: 2048/5208
Training Step: 3998 | total loss: 2.14711 | time: 1.312s
| Adam | epoch: 364 | loss: 2.14711 - acc: 0.3614 -- iter: 2560/5208
Training Step: 3999 | total loss: 2.19857 | time: 1.585s
| Adam | epoch: 364 | loss: 2.19857 - acc: 0.3634 -- iter: 3072/5208
Training Step: 4000 | total loss: 2.41663 | time: 1.894s
| Adam | epoch: 364 | loss: 2.41663 - acc: 0.3575 -- iter: 3584/5208
```

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Training Step: 4001 | total loss: 2.35136 | time: 2.204s
| Adam | epoch: 364 | loss: 2.35136 - acc: 0.3593 -- iter: 4096/5208
Training Step: 4002 | total loss: 2.30503 | time: 2.465s
| Adam | epoch: 364 | loss: 2.30503 - acc: 0.3636 -- iter: 4608/5208
Training Step: 4003 | total loss: 2.30073 | time: 2.785s
| Adam | epoch: 364 | loss: 2.30073 - acc: 0.3618 -- iter: 5120/5208
Training Step: 4004 | total loss: 2.27634 | time: 3.096s
| Adam | epoch: 364 | loss: 2.27634 - acc: 0.3656 -- iter: 5208/5208
--
Training Step: 4005 | total loss: 2.26209 | time: 0.301s
| Adam | epoch: 365 | loss: 2.26209 - acc: 0.3691 -- iter: 0512/5208
Training Step: 4006 | total loss: 2.25292 | time: 0.583s
| Adam | epoch: 365 | loss: 2.25292 - acc: 0.3705 -- iter: 1024/5208
Training Step: 4007 | total loss: 2.22498 | time: 0.807s
| Adam | epoch: 365 | loss: 2.22498 - acc: 0.3709 -- iter: 1536/5208
Training Step: 4008 | total loss: 2.22473 | time: 1.061s
| Adam | epoch: 365 | loss: 2.22473 - acc: 0.3736 -- iter: 2048/5208
Training Step: 4009 | total loss: 2.21229 | time: 1.349s
| Adam | epoch: 365 | loss: 2.21229 - acc: 0.3715 -- iter: 2560/5208
Training Step: 4010 | total loss: 2.22612 | time: 1.636s
| Adam | epoch: 365 | loss: 2.22612 - acc: 0.3738 -- iter: 3072/5208
Training Step: 4011 | total loss: 2.23295 | time: 1.911s
| Adam | epoch: 365 | loss: 2.23295 - acc: 0.3735 -- iter: 3584/5208
Training Step: 4012 | total loss: 2.31203 | time: 2.212s
| Adam | epoch: 365 | loss: 2.31203 - acc: 0.3727 -- iter: 4096/5208
Training Step: 4013 | total loss: 2.29450 | time: 2.504s
| Adam | epoch: 365 | loss: 2.29450 - acc: 0.3774 -- iter: 4608/5208
Training Step: 4014 | total loss: 2.30965 | time: 2.813s
| Adam | epoch: 365 | loss: 2.30965 - acc: 0.3762 -- iter: 5120/5208
Training Step: 4015 | total loss: 2.27097 | time: 3.126s
| Adam | epoch: 365 | loss: 2.27097 - acc: 0.3771 -- iter: 5208/5208
--
Training Step: 4016 | total loss: 2.24181 | time: 0.310s
| Adam | epoch: 366 | loss: 2.24181 - acc: 0.3778 -- iter: 0512/5208
Training Step: 4017 | total loss: 2.22767 | time: 0.626s
| Adam | epoch: 366 | loss: 2.22767 - acc: 0.3797 -- iter: 1024/5208
Training Step: 4018 | total loss: 2.20835 | time: 0.898s
| Adam | epoch: 366 | loss: 2.20835 - acc: 0.3802 -- iter: 1536/5208
Training Step: 4019 | total loss: 2.15826 | time: 1.133s
| Adam | epoch: 366 | loss: 2.15826 - acc: 0.3775 -- iter: 2048/5208
Training Step: 4020 | total loss: 2.08630 | time: 1.349s
| Adam | epoch: 366 | loss: 2.08630 - acc: 0.3784 -- iter: 2560/5208
Training Step: 4021 | total loss: 2.02000 | time: 1.659s
| Adam | epoch: 366 | loss: 2.02000 - acc: 0.3747 -- iter: 3072/5208
Training Step: 4022 | total loss: 2.04229 | time: 1.918s
| Adam | epoch: 366 | loss: 2.04229 - acc: 0.3733 -- iter: 3584/5208
Training Step: 4023 | total loss: 2.06719 | time: 2.217s
| Adam | epoch: 366 | loss: 2.06719 - acc: 0.3743 -- iter: 4096/5208
Training Step: 4024 | total loss: 2.29708 | time: 2.576s
| Adam | epoch: 366 | loss: 2.29708 - acc: 0.3747 -- iter: 4608/5208
Training Step: 4025 | total loss: 2.27901 | time: 2.854s
| Adam | epoch: 366 | loss: 2.27901 - acc: 0.3750 -- iter: 5120/5208
Training Step: 4026 | total loss: 2.25072 | time: 3.147s
| Adam | epoch: 366 | loss: 2.25072 - acc: 0.3730 -- iter: 5208/5208
--
Training Step: 4027 | total loss: 2.21071 | time: 0.298s
| Adam | epoch: 367 | loss: 2.21071 - acc: 0.3744 -- iter: 0512/5208
Training Step: 4028 | total loss: 2.18160 | time: 0.599s
| Adam | epoch: 367 | loss: 2.18160 - acc: 0.3770 -- iter: 1024/5208
Training Step: 4029 | total loss: 2.16088 | time: 0.906s
| Adam | epoch: 367 | loss: 2.16088 - acc: 0.3748 -- iter: 1536/5208
Training Step: 4030 | total loss: 2.13229 | time: 1.216s
| Adam | epoch: 367 | loss: 2.13229 - acc: 0.3758 -- iter: 2048/5208
Training Step: 4031 | total loss: 2.11863 | time: 1.447s
| Adam | epoch: 367 | loss: 2.11863 - acc: 0.3781 -- iter: 2560/5208
Training Step: 4032 | total loss: 2.09671 | time: 1.697s
| Adam | epoch: 367 | loss: 2.09671 - acc: 0.3846 -- iter: 3072/5208
Training Step: 4033 | total loss: 2.06501 | time: 2.008s
| Adam | epoch: 367 | loss: 2.06501 - acc: 0.3961 -- iter: 3584/5208
Training Step: 4034 | total loss: 2.09234 | time: 2.286s
| Adam | epoch: 367 | loss: 2.09234 - acc: 0.3936 -- iter: 4096/5208
Training Step: 4035 | total loss: 2.11373 | time: 2.558s
| Adam | epoch: 367 | loss: 2.11373 - acc: 0.3912 -- iter: 4608/5208
Training Step: 4036 | total loss: 2.11422 | time: 2.855s
| Adam | epoch: 367 | loss: 2.11422 - acc: 0.3878 -- iter: 5120/5208
Training Step: 4037 | total loss: 2.07451 | time: 3.155s
| Adam | epoch: 367 | loss: 2.07451 - acc: 0.3910 -- iter: 5208/5208
--
Training Step: 4038 | total loss: 2.09778 | time: 0.289s
| Adam | epoch: 368 | loss: 2.09778 - acc: 0.3912 -- iter: 0512/5208
Training Step: 4039 | total loss: 2.09025 | time: 0.574s
| Adam | epoch: 368 | loss: 2.09025 - acc: 0.3927 -- iter: 1024/5208
Training Step: 4040 | total loss: 2.11489 | time: 0.873s
```



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| Adam | epoch: 368 | loss: 2.11489 - acc: 0.3919 -- iter: 1536/5208
Training Step: 4041 | total loss: 2.06490 | time: 1.169s
| Adam | epoch: 368 | loss: 2.06490 - acc: 0.3900 -- iter: 2048/5208
Training Step: 4042 | total loss: 2.06209 | time: 1.460s
| Adam | epoch: 368 | loss: 2.06209 - acc: 0.3862 -- iter: 2560/5208
Training Step: 4043 | total loss: 2.07311 | time: 1.700s
| Adam | epoch: 368 | loss: 2.07311 - acc: 0.3850 -- iter: 3072/5208
Training Step: 4044 | total loss: 2.04495 | time: 1.964s
| Adam | epoch: 368 | loss: 2.04495 - acc: 0.3840 -- iter: 3584/5208
Training Step: 4045 | total loss: 2.01982 | time: 2.249s
| Adam | epoch: 368 | loss: 2.01982 - acc: 0.3809 -- iter: 4096/5208
Training Step: 4046 | total loss: 2.00980 | time: 2.557s
| Adam | epoch: 368 | loss: 2.00980 - acc: 0.3816 -- iter: 4608/5208
Training Step: 4047 | total loss: 2.02990 | time: 2.819s
| Adam | epoch: 368 | loss: 2.02990 - acc: 0.3816 -- iter: 5120/5208
Training Step: 4048 | total loss: 2.05762 | time: 3.181s
| Adam | epoch: 368 | loss: 2.05762 - acc: 0.3833 -- iter: 5208/5208
--
Training Step: 4049 | total loss: 2.05575 | time: 0.305s
| Adam | epoch: 369 | loss: 2.05575 - acc: 0.3813 -- iter: 0512/5208
Training Step: 4050 | total loss: 2.05404 | time: 0.608s
| Adam | epoch: 369 | loss: 2.05404 - acc: 0.3816 -- iter: 1024/5208
Training Step: 4051 | total loss: 2.05904 | time: 0.915s
| Adam | epoch: 369 | loss: 2.05904 - acc: 0.3827 -- iter: 1536/5208
Training Step: 4052 | total loss: 2.02681 | time: 1.215s
| Adam | epoch: 369 | loss: 2.02681 - acc: 0.3825 -- iter: 2048/5208
Training Step: 4053 | total loss: 2.00557 | time: 1.531s
| Adam | epoch: 369 | loss: 2.00557 - acc: 0.3824 -- iter: 2560/5208
Training Step: 4054 | total loss: 2.01310 | time: 1.833s
| Adam | epoch: 369 | loss: 2.01310 - acc: 0.3799 -- iter: 3072/5208
Training Step: 4055 | total loss: 2.03915 | time: 2.061s
| Adam | epoch: 369 | loss: 2.03915 - acc: 0.3790 -- iter: 3584/5208
Training Step: 4056 | total loss: 2.03144 | time: 2.320s
| Adam | epoch: 369 | loss: 2.03144 - acc: 0.3843 -- iter: 4096/5208
Training Step: 4057 | total loss: 2.00999 | time: 2.587s
| Adam | epoch: 369 | loss: 2.00999 - acc: 0.3936 -- iter: 4608/5208
Training Step: 4058 | total loss: 2.00666 | time: 2.885s
| Adam | epoch: 369 | loss: 2.00666 - acc: 0.3937 -- iter: 5120/5208
Training Step: 4059 | total loss: 2.01367 | time: 3.170s
| Adam | epoch: 369 | loss: 2.01367 - acc: 0.3895 -- iter: 5208/5208
--
Training Step: 4060 | total loss: 2.12640 | time: 0.298s
| Adam | epoch: 370 | loss: 2.12640 - acc: 0.3886 -- iter: 0512/5208
Training Step: 4061 | total loss: 2.11642 | time: 0.605s
| Adam | epoch: 370 | loss: 2.11642 - acc: 0.3886 -- iter: 1024/5208
Training Step: 4062 | total loss: 2.11104 | time: 0.893s
| Adam | epoch: 370 | loss: 2.11104 - acc: 0.3896 -- iter: 1536/5208
Training Step: 4063 | total loss: 2.12540 | time: 1.204s
| Adam | epoch: 370 | loss: 2.12540 - acc: 0.3887 -- iter: 2048/5208
Training Step: 4064 | total loss: 2.06338 | time: 1.501s
| Adam | epoch: 370 | loss: 2.06338 - acc: 0.3866 -- iter: 2560/5208
Training Step: 4065 | total loss: 2.07438 | time: 1.810s
| Adam | epoch: 370 | loss: 2.07438 - acc: 0.3893 -- iter: 3072/5208
Training Step: 4066 | total loss: 2.07911 | time: 2.110s
| Adam | epoch: 370 | loss: 2.07911 - acc: 0.3887 -- iter: 3584/5208
Training Step: 4067 | total loss: 2.08794 | time: 2.311s
| Adam | epoch: 370 | loss: 2.08794 - acc: 0.3857 -- iter: 4096/5208
Training Step: 4068 | total loss: 2.09263 | time: 2.578s
| Adam | epoch: 370 | loss: 2.09263 - acc: 0.3903 -- iter: 4608/5208
Training Step: 4069 | total loss: 2.10131 | time: 2.856s
| Adam | epoch: 370 | loss: 2.10131 - acc: 0.3934 -- iter: 5120/5208
Training Step: 4070 | total loss: 2.11159 | time: 3.137s
| Adam | epoch: 370 | loss: 2.11159 - acc: 0.3888 -- iter: 5208/5208
--
Training Step: 4071 | total loss: 2.10677 | time: 0.323s
| Adam | epoch: 371 | loss: 2.10677 - acc: 0.3860 -- iter: 0512/5208
Training Step: 4072 | total loss: 2.40525 | time: 0.589s
| Adam | epoch: 371 | loss: 2.40525 - acc: 0.3804 -- iter: 1024/5208
Training Step: 4073 | total loss: 2.40975 | time: 0.921s
| Adam | epoch: 371 | loss: 2.40975 - acc: 0.3793 -- iter: 1536/5208
Training Step: 4074 | total loss: 2.34843 | time: 1.202s
| Adam | epoch: 371 | loss: 2.34843 - acc: 0.3769 -- iter: 2048/5208
Training Step: 4075 | total loss: 2.33558 | time: 1.508s
| Adam | epoch: 371 | loss: 2.33558 - acc: 0.3804 -- iter: 2560/5208
Training Step: 4076 | total loss: 2.29399 | time: 1.794s
| Adam | epoch: 371 | loss: 2.29399 - acc: 0.3803 -- iter: 3072/5208
Training Step: 4077 | total loss: 2.30166 | time: 2.083s
| Adam | epoch: 371 | loss: 2.30166 - acc: 0.3815 -- iter: 3584/5208
Training Step: 4078 | total loss: 2.25320 | time: 2.357s
| Adam | epoch: 371 | loss: 2.25320 - acc: 0.3844 -- iter: 4096/5208
Training Step: 4079 | total loss: 2.23593 | time: 2.600s
| Adam | epoch: 371 | loss: 2.23593 - acc: 0.3811 -- iter: 4608/5208
Training Step: 4080 | total loss: 2.27954 | time: 2.848s
```



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| Adam | epoch: 371 | loss: 2.27954 - acc: 0.3816 -- iter: 5120/5208
Training Step: 4081 | total loss: 2.30724 | time: 3.103s
| Adam | epoch: 371 | loss: 2.30724 - acc: 0.3821 -- iter: 5208/5208
--
Training Step: 4082 | total loss: 2.26491 | time: 0.281s
| Adam | epoch: 372 | loss: 2.26491 - acc: 0.3830 -- iter: 0512/5208
Training Step: 4083 | total loss: 2.23471 | time: 0.531s
| Adam | epoch: 372 | loss: 2.23471 - acc: 0.3855 -- iter: 1024/5208
Training Step: 4084 | total loss: 2.29674 | time: 0.819s
| Adam | epoch: 372 | loss: 2.29674 - acc: 0.3848 -- iter: 1536/5208
Training Step: 4085 | total loss: 2.25596 | time: 1.125s
| Adam | epoch: 372 | loss: 2.25596 - acc: 0.3856 -- iter: 2048/5208
Training Step: 4086 | total loss: 2.26347 | time: 1.407s
| Adam | epoch: 372 | loss: 2.26347 - acc: 0.3828 -- iter: 2560/5208
Training Step: 4087 | total loss: 2.23007 | time: 1.698s
| Adam | epoch: 372 | loss: 2.23007 - acc: 0.3822 -- iter: 3072/5208
Training Step: 4088 | total loss: 2.22525 | time: 1.983s
| Adam | epoch: 372 | loss: 2.22525 - acc: 0.3799 -- iter: 3584/5208
Training Step: 4089 | total loss: 2.22080 | time: 2.292s
| Adam | epoch: 372 | loss: 2.22080 - acc: 0.3818 -- iter: 4096/5208
Training Step: 4090 | total loss: 2.16350 | time: 2.581s
| Adam | epoch: 372 | loss: 2.16350 - acc: 0.3836 -- iter: 4608/5208
Training Step: 4091 | total loss: 2.15030 | time: 2.816s
| Adam | epoch: 372 | loss: 2.15030 - acc: 0.3816 -- iter: 5120/5208
Training Step: 4092 | total loss: 2.13989 | time: 3.068s
| Adam | epoch: 372 | loss: 2.13989 - acc: 0.3912 -- iter: 5208/5208
--
Training Step: 4093 | total loss: 2.12215 | time: 0.278s
| Adam | epoch: 373 | loss: 2.12215 - acc: 0.3941 -- iter: 0512/5208
Training Step: 4094 | total loss: 2.11089 | time: 0.558s
| Adam | epoch: 373 | loss: 2.11089 - acc: 0.3955 -- iter: 1024/5208
Training Step: 4095 | total loss: 2.09253 | time: 0.819s
| Adam | epoch: 373 | loss: 2.09253 - acc: 0.3936 -- iter: 1536/5208
Training Step: 4096 | total loss: 2.14572 | time: 1.099s
| Adam | epoch: 373 | loss: 2.14572 - acc: 0.3918 -- iter: 2048/5208
Training Step: 4097 | total loss: 2.12893 | time: 1.389s
| Adam | epoch: 373 | loss: 2.12893 - acc: 0.3921 -- iter: 2560/5208
Training Step: 4098 | total loss: 2.13208 | time: 1.697s
| Adam | epoch: 373 | loss: 2.13208 - acc: 0.3894 -- iter: 3072/5208
Training Step: 4099 | total loss: 2.14257 | time: 2.014s
| Adam | epoch: 373 | loss: 2.14257 - acc: 0.3870 -- iter: 3584/5208
Training Step: 4100 | total loss: 2.10662 | time: 2.291s
| Adam | epoch: 373 | loss: 2.10662 - acc: 0.3854 -- iter: 4096/5208
Training Step: 4101 | total loss: 2.10395 | time: 2.602s
| Adam | epoch: 373 | loss: 2.10395 - acc: 0.3863 -- iter: 4608/5208
Training Step: 4102 | total loss: 2.06921 | time: 2.884s
| Adam | epoch: 373 | loss: 2.06921 - acc: 0.3836 -- iter: 5120/5208
Training Step: 4103 | total loss: 2.06356 | time: 3.090s
| Adam | epoch: 373 | loss: 2.06356 - acc: 0.3833 -- iter: 5208/5208
--
Training Step: 4104 | total loss: 2.05665 | time: 0.271s
| Adam | epoch: 374 | loss: 2.05665 - acc: 0.3916 -- iter: 0512/5208
Training Step: 4105 | total loss: 2.04404 | time: 0.575s
| Adam | epoch: 374 | loss: 2.04404 - acc: 0.3979 -- iter: 1024/5208
Training Step: 4106 | total loss: 2.05811 | time: 0.829s
| Adam | epoch: 374 | loss: 2.05811 - acc: 0.3973 -- iter: 1536/5208
Training Step: 4107 | total loss: 2.03893 | time: 1.105s
| Adam | epoch: 374 | loss: 2.03893 - acc: 0.3975 -- iter: 2048/5208
Training Step: 4108 | total loss: 2.11352 | time: 1.416s
| Adam | epoch: 374 | loss: 2.11352 - acc: 0.3972 -- iter: 2560/5208
Training Step: 4109 | total loss: 2.11257 | time: 1.720s
| Adam | epoch: 374 | loss: 2.11257 - acc: 0.3985 -- iter: 3072/5208
Training Step: 4110 | total loss: 2.10958 | time: 2.022s
| Adam | epoch: 374 | loss: 2.10958 - acc: 0.3981 -- iter: 3584/5208
Training Step: 4111 | total loss: 2.08136 | time: 2.311s
| Adam | epoch: 374 | loss: 2.08136 - acc: 0.3977 -- iter: 4096/5208
Training Step: 4112 | total loss: 2.06907 | time: 2.618s
| Adam | epoch: 374 | loss: 2.06907 - acc: 0.3972 -- iter: 4608/5208
Training Step: 4113 | total loss: 2.03975 | time: 2.904s
| Adam | epoch: 374 | loss: 2.03975 - acc: 0.3930 -- iter: 5120/5208
Training Step: 4114 | total loss: 2.04317 | time: 3.182s
| Adam | epoch: 374 | loss: 2.04317 - acc: 0.3924 -- iter: 5208/5208
--
Training Step: 4115 | total loss: 2.03893 | time: 0.232s
| Adam | epoch: 375 | loss: 2.03893 - acc: 0.3975 -- iter: 0512/5208
Training Step: 4116 | total loss: 2.00821 | time: 0.479s
| Adam | epoch: 375 | loss: 2.00821 - acc: 0.3987 -- iter: 1024/5208
Training Step: 4117 | total loss: 1.97274 | time: 0.759s
| Adam | epoch: 375 | loss: 1.97274 - acc: 0.3963 -- iter: 1536/5208
Training Step: 4118 | total loss: 1.97391 | time: 1.056s
| Adam | epoch: 375 | loss: 1.97391 - acc: 0.3906 -- iter: 2048/5208
Training Step: 4119 | total loss: 1.97580 | time: 1.337s
| Adam | epoch: 375 | loss: 1.97580 - acc: 0.3897 -- iter: 2560/5208
```

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Training Step: 4120 | total loss: 2.14466 | time: 1.642s
| Adam | epoch: 375 | loss: 2.14466 - acc: 0.3872 -- iter: 3072/5208
Training Step: 4121 | total loss: 2.13647 | time: 1.955s
| Adam | epoch: 375 | loss: 2.13647 - acc: 0.3842 -- iter: 3584/5208
Training Step: 4122 | total loss: 2.13119 | time: 2.224s
| Adam | epoch: 375 | loss: 2.13119 - acc: 0.3866 -- iter: 4096/5208
Training Step: 4123 | total loss: 2.12405 | time: 2.502s
| Adam | epoch: 375 | loss: 2.12405 - acc: 0.3874 -- iter: 4608/5208
Training Step: 4124 | total loss: 2.12415 | time: 2.801s
| Adam | epoch: 375 | loss: 2.12415 - acc: 0.3872 -- iter: 5120/5208
Training Step: 4125 | total loss: 2.11995 | time: 3.085s
| Adam | epoch: 375 | loss: 2.11995 - acc: 0.3873 -- iter: 5208/5208
--
Training Step: 4126 | total loss: 2.11036 | time: 0.300s
| Adam | epoch: 376 | loss: 2.11036 - acc: 0.3835 -- iter: 0512/5208
Training Step: 4127 | total loss: 2.07141 | time: 0.519s
| Adam | epoch: 376 | loss: 2.07141 - acc: 0.3876 -- iter: 1024/5208
Training Step: 4128 | total loss: 2.01801 | time: 0.759s
| Adam | epoch: 376 | loss: 2.01801 - acc: 0.3920 -- iter: 1536/5208
Training Step: 4129 | total loss: 1.94921 | time: 1.099s
| Adam | epoch: 376 | loss: 1.94921 - acc: 0.3994 -- iter: 2048/5208
Training Step: 4130 | total loss: 1.97169 | time: 1.361s
| Adam | epoch: 376 | loss: 1.97169 - acc: 0.3977 -- iter: 2560/5208
Training Step: 4131 | total loss: 1.97726 | time: 1.619s
| Adam | epoch: 376 | loss: 1.97726 - acc: 0.3945 -- iter: 3072/5208
Training Step: 4132 | total loss: 2.20246 | time: 1.907s
| Adam | epoch: 376 | loss: 2.20246 - acc: 0.3886 -- iter: 3584/5208
Training Step: 4133 | total loss: 2.20991 | time: 2.194s
| Adam | epoch: 376 | loss: 2.20991 - acc: 0.3873 -- iter: 4096/5208
Training Step: 4134 | total loss: 2.18903 | time: 2.477s
| Adam | epoch: 376 | loss: 2.18903 - acc: 0.3853 -- iter: 4608/5208
Training Step: 4135 | total loss: 2.15177 | time: 2.763s
| Adam | epoch: 376 | loss: 2.15177 - acc: 0.3864 -- iter: 5120/5208
Training Step: 4136 | total loss: 2.14264 | time: 3.062s
| Adam | epoch: 376 | loss: 2.14264 - acc: 0.3895 -- iter: 5208/5208
--
Training Step: 4137 | total loss: 2.12364 | time: 0.305s
| Adam | epoch: 377 | loss: 2.12364 - acc: 0.3895 -- iter: 0512/5208
Training Step: 4138 | total loss: 2.09100 | time: 0.616s
| Adam | epoch: 377 | loss: 2.09100 - acc: 0.3917 -- iter: 1024/5208
Training Step: 4139 | total loss: 2.05868 | time: 0.829s
| Adam | epoch: 377 | loss: 2.05868 - acc: 0.3906 -- iter: 1536/5208
Training Step: 4140 | total loss: 2.04978 | time: 1.087s
| Adam | epoch: 377 | loss: 2.04978 - acc: 0.3834 -- iter: 2048/5208
Training Step: 4141 | total loss: 1.99102 | time: 1.395s
| Adam | epoch: 377 | loss: 1.99102 - acc: 0.3803 -- iter: 2560/5208
Training Step: 4142 | total loss: 1.98175 | time: 1.692s
| Adam | epoch: 377 | loss: 1.98175 - acc: 0.3796 -- iter: 3072/5208
Training Step: 4143 | total loss: 1.98292 | time: 1.970s
| Adam | epoch: 377 | loss: 1.98292 - acc: 0.3814 -- iter: 3584/5208
Training Step: 4144 | total loss: 2.25987 | time: 2.255s
| Adam | epoch: 377 | loss: 2.25987 - acc: 0.3798 -- iter: 4096/5208
Training Step: 4145 | total loss: 2.24781 | time: 2.524s
| Adam | epoch: 377 | loss: 2.24781 - acc: 0.3799 -- iter: 4608/5208
Training Step: 4146 | total loss: 2.20678 | time: 2.801s
| Adam | epoch: 377 | loss: 2.20678 - acc: 0.3814 -- iter: 5120/5208
Training Step: 4147 | total loss: 2.18978 | time: 3.117s
| Adam | epoch: 377 | loss: 2.18978 - acc: 0.3809 -- iter: 5208/5208
--
Training Step: 4148 | total loss: 2.16802 | time: 0.286s
| Adam | epoch: 378 | loss: 2.16802 - acc: 0.3798 -- iter: 0512/5208
Training Step: 4149 | total loss: 2.15310 | time: 0.607s
| Adam | epoch: 378 | loss: 2.15310 - acc: 0.3799 -- iter: 1024/5208
Training Step: 4150 | total loss: 2.15290 | time: 0.901s
| Adam | epoch: 378 | loss: 2.15290 - acc: 0.3800 -- iter: 1536/5208
Training Step: 4151 | total loss: 2.13434 | time: 1.129s
| Adam | epoch: 378 | loss: 2.13434 - acc: 0.3785 -- iter: 2048/5208
Training Step: 4152 | total loss: 2.20979 | time: 1.378s
| Adam | epoch: 378 | loss: 2.20979 - acc: 0.3781 -- iter: 2560/5208
Training Step: 4153 | total loss: 2.25419 | time: 1.653s
| Adam | epoch: 378 | loss: 2.25419 - acc: 0.3812 -- iter: 3072/5208
Training Step: 4154 | total loss: 2.23503 | time: 1.992s
| Adam | epoch: 378 | loss: 2.23503 - acc: 0.3847 -- iter: 3584/5208
Training Step: 4155 | total loss: 2.22369 | time: 2.256s
| Adam | epoch: 378 | loss: 2.22369 - acc: 0.3822 -- iter: 4096/5208
Training Step: 4156 | total loss: 2.22219 | time: 2.568s
| Adam | epoch: 378 | loss: 2.22219 - acc: 0.3813 -- iter: 4608/5208
Training Step: 4157 | total loss: 2.19995 | time: 2.866s
| Adam | epoch: 378 | loss: 2.19995 - acc: 0.3791 -- iter: 5120/5208
Training Step: 4158 | total loss: 2.19268 | time: 3.151s
| Adam | epoch: 378 | loss: 2.19268 - acc: 0.3826 -- iter: 5208/5208
--
Training Step: 4159 | total loss: 2.18508 | time: 0.281s
```

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| Adam | epoch: 379 | loss: 2.18508 - acc: 0.3855 -- iter: 0512/5208
Training Step: 4160 | total loss: 2.16958 | time: 0.584s
| Adam | epoch: 379 | loss: 2.16958 - acc: 0.3843 -- iter: 1024/5208
Training Step: 4161 | total loss: 2.17814 | time: 0.905s
| Adam | epoch: 379 | loss: 2.17814 - acc: 0.3832 -- iter: 1536/5208
Training Step: 4162 | total loss: 2.18166 | time: 1.220s
| Adam | epoch: 379 | loss: 2.18166 - acc: 0.3855 -- iter: 2048/5208
Training Step: 4163 | total loss: 2.14815 | time: 1.479s
| Adam | epoch: 379 | loss: 2.14815 - acc: 0.3862 -- iter: 2560/5208
Training Step: 4164 | total loss: 2.12747 | time: 1.716s
| Adam | epoch: 379 | loss: 2.12747 - acc: 0.3896 -- iter: 3072/5208
Training Step: 4165 | total loss: 2.09630 | time: 2.013s
| Adam | epoch: 379 | loss: 2.09630 - acc: 0.3916 -- iter: 3584/5208
Training Step: 4166 | total loss: 2.09535 | time: 2.275s
| Adam | epoch: 379 | loss: 2.09535 - acc: 0.3893 -- iter: 4096/5208
Training Step: 4167 | total loss: 2.07561 | time: 2.560s
| Adam | epoch: 379 | loss: 2.07561 - acc: 0.3846 -- iter: 4608/5208
Training Step: 4168 | total loss: 2.05187 | time: 2.882s
| Adam | epoch: 379 | loss: 2.05187 - acc: 0.3840 -- iter: 5120/5208
Training Step: 4169 | total loss: 2.07954 | time: 3.184s
| Adam | epoch: 379 | loss: 2.07954 - acc: 0.3843 -- iter: 5208/5208
--
Training Step: 4170 | total loss: 2.09752 | time: 0.286s
| Adam | epoch: 380 | loss: 2.09752 - acc: 0.3833 -- iter: 0512/5208
Training Step: 4171 | total loss: 2.08887 | time: 0.591s
| Adam | epoch: 380 | loss: 2.08887 - acc: 0.3849 -- iter: 1024/5208
Training Step: 4172 | total loss: 2.09448 | time: 0.863s
| Adam | epoch: 380 | loss: 2.09448 - acc: 0.3827 -- iter: 1536/5208
Training Step: 4173 | total loss: 2.06757 | time: 1.164s
| Adam | epoch: 380 | loss: 2.06757 - acc: 0.3819 -- iter: 2048/5208
Training Step: 4174 | total loss: 2.05824 | time: 1.466s
| Adam | epoch: 380 | loss: 2.05824 - acc: 0.3844 -- iter: 2560/5208
Training Step: 4175 | total loss: 2.08807 | time: 1.683s
| Adam | epoch: 380 | loss: 2.08807 - acc: 0.3834 -- iter: 3072/5208
Training Step: 4176 | total loss: 2.10210 | time: 1.933s
| Adam | epoch: 380 | loss: 2.10210 - acc: 0.3905 -- iter: 3584/5208
Training Step: 4177 | total loss: 2.12236 | time: 2.252s
| Adam | epoch: 380 | loss: 2.12236 - acc: 0.3878 -- iter: 4096/5208
Training Step: 4178 | total loss: 2.08104 | time: 2.549s
| Adam | epoch: 380 | loss: 2.08104 - acc: 0.3883 -- iter: 4608/5208
Training Step: 4179 | total loss: 2.05987 | time: 2.821s
| Adam | epoch: 380 | loss: 2.05987 - acc: 0.3880 -- iter: 5120/5208
Training Step: 4180 | total loss: 2.09677 | time: 3.101s
| Adam | epoch: 380 | loss: 2.09677 - acc: 0.3845 -- iter: 5208/5208
--
Training Step: 4181 | total loss: 2.09338 | time: 0.285s
| Adam | epoch: 381 | loss: 2.09338 - acc: 0.3832 -- iter: 0512/5208
Training Step: 4182 | total loss: 2.08580 | time: 0.576s
| Adam | epoch: 381 | loss: 2.08580 - acc: 0.3831 -- iter: 1024/5208
Training Step: 4183 | total loss: 2.04304 | time: 0.908s
| Adam | epoch: 381 | loss: 2.04304 - acc: 0.3843 -- iter: 1536/5208
Training Step: 4184 | total loss: 2.04068 | time: 1.196s
| Adam | epoch: 381 | loss: 2.04068 - acc: 0.3865 -- iter: 2048/5208
Training Step: 4185 | total loss: 2.05121 | time: 1.494s
| Adam | epoch: 381 | loss: 2.05121 - acc: 0.3861 -- iter: 2560/5208
Training Step: 4186 | total loss: 2.02474 | time: 1.780s
| Adam | epoch: 381 | loss: 2.02474 - acc: 0.3844 -- iter: 3072/5208
Training Step: 4187 | total loss: 2.03013 | time: 2.032s
| Adam | epoch: 381 | loss: 2.03013 - acc: 0.3844 -- iter: 3584/5208
Training Step: 4188 | total loss: 2.05004 | time: 2.236s
| Adam | epoch: 381 | loss: 2.05004 - acc: 0.3880 -- iter: 4096/5208
Training Step: 4189 | total loss: 2.05789 | time: 2.543s
| Adam | epoch: 381 | loss: 2.05789 - acc: 0.3879 -- iter: 4608/5208
Training Step: 4190 | total loss: 2.09083 | time: 2.788s
| Adam | epoch: 381 | loss: 2.09083 - acc: 0.3876 -- iter: 5120/5208
Training Step: 4191 | total loss: 2.07291 | time: 3.128s
| Adam | epoch: 381 | loss: 2.07291 - acc: 0.3869 -- iter: 5208/5208
--
Training Step: 4192 | total loss: 2.11132 | time: 0.289s
| Adam | epoch: 382 | loss: 2.11132 - acc: 0.3873 -- iter: 0512/5208
Training Step: 4193 | total loss: 2.14211 | time: 0.585s
| Adam | epoch: 382 | loss: 2.14211 - acc: 0.3903 -- iter: 1024/5208
Training Step: 4194 | total loss: 2.11953 | time: 0.885s
| Adam | epoch: 382 | loss: 2.11953 - acc: 0.3919 -- iter: 1536/5208
Training Step: 4195 | total loss: 2.10229 | time: 1.162s
| Adam | epoch: 382 | loss: 2.10229 - acc: 0.3924 -- iter: 2048/5208
Training Step: 4196 | total loss: 2.09535 | time: 1.512s
| Adam | epoch: 382 | loss: 2.09535 - acc: 0.3930 -- iter: 2560/5208
Training Step: 4197 | total loss: 2.08798 | time: 1.788s
| Adam | epoch: 382 | loss: 2.08798 - acc: 0.3947 -- iter: 3072/5208
Training Step: 4198 | total loss: 2.07502 | time: 2.088s
| Adam | epoch: 382 | loss: 2.07502 - acc: 0.3916 -- iter: 3584/5208
Training Step: 4199 | total loss: 2.07184 | time: 2.350s
```

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| Adam | epoch: 382 | loss: 2.07184 - acc: 0.3915 -- iter: 4096/5208
Training Step: 4200 | total loss: 2.08227 | time: 2.597s
| Adam | epoch: 382 | loss: 2.08227 - acc: 0.3944 -- iter: 4608/5208
Training Step: 4201 | total loss: 2.06926 | time: 2.884s
| Adam | epoch: 382 | loss: 2.06926 - acc: 0.3924 -- iter: 5120/5208
Training Step: 4202 | total loss: 2.04397 | time: 3.212s
| Adam | epoch: 382 | loss: 2.04397 - acc: 0.3901 -- iter: 5208/5208
--
Training Step: 4203 | total loss: 2.00639 | time: 0.261s
| Adam | epoch: 383 | loss: 2.00639 - acc: 0.3874 -- iter: 0512/5208
Training Step: 4204 | total loss: 2.02826 | time: 0.599s
| Adam | epoch: 383 | loss: 2.02826 - acc: 0.3872 -- iter: 1024/5208
Training Step: 4205 | total loss: 2.02390 | time: 0.877s
| Adam | epoch: 383 | loss: 2.02390 - acc: 0.3902 -- iter: 1536/5208
Training Step: 4206 | total loss: 1.99792 | time: 1.190s
| Adam | epoch: 383 | loss: 1.99792 - acc: 0.3920 -- iter: 2048/5208
Training Step: 4207 | total loss: 1.97395 | time: 1.490s
| Adam | epoch: 383 | loss: 1.97395 - acc: 0.3915 -- iter: 2560/5208
Training Step: 4208 | total loss: 1.97422 | time: 1.804s
| Adam | epoch: 383 | loss: 1.97422 - acc: 0.3910 -- iter: 3072/5208
Training Step: 4209 | total loss: 1.96919 | time: 2.082s
| Adam | epoch: 383 | loss: 1.96919 - acc: 0.3894 -- iter: 3584/5208
Training Step: 4210 | total loss: 1.98405 | time: 2.428s
| Adam | epoch: 383 | loss: 1.98405 - acc: 0.3895 -- iter: 4096/5208
Training Step: 4211 | total loss: 1.99347 | time: 2.637s
| Adam | epoch: 383 | loss: 1.99347 - acc: 0.3908 -- iter: 4608/5208
Training Step: 4212 | total loss: 1.95171 | time: 2.889s
| Adam | epoch: 383 | loss: 1.95171 - acc: 0.3870 -- iter: 5120/5208
Training Step: 4213 | total loss: 1.90959 | time: 3.205s
| Adam | epoch: 383 | loss: 1.90959 - acc: 0.3846 -- iter: 5208/5208
--
Training Step: 4214 | total loss: 1.90759 | time: 0.280s
| Adam | epoch: 384 | loss: 1.90759 - acc: 0.3852 -- iter: 0512/5208
Training Step: 4215 | total loss: 1.95507 | time: 0.559s
| Adam | epoch: 384 | loss: 1.95507 - acc: 0.3813 -- iter: 1024/5208
Training Step: 4216 | total loss: 2.31725 | time: 0.837s
| Adam | epoch: 384 | loss: 2.31725 - acc: 0.3793 -- iter: 1536/5208
Training Step: 4217 | total loss: 2.29647 | time: 1.161s
| Adam | epoch: 384 | loss: 2.29647 - acc: 0.3792 -- iter: 2048/5208
Training Step: 4218 | total loss: 2.28118 | time: 1.446s
| Adam | epoch: 384 | loss: 2.28118 - acc: 0.3775 -- iter: 2560/5208
Training Step: 4219 | total loss: 2.25103 | time: 1.733s
| Adam | epoch: 384 | loss: 2.25103 - acc: 0.3833 -- iter: 3072/5208
Training Step: 4220 | total loss: 2.21399 | time: 2.002s
| Adam | epoch: 384 | loss: 2.21399 - acc: 0.3844 -- iter: 3584/5208
Training Step: 4221 | total loss: 2.17433 | time: 2.299s
| Adam | epoch: 384 | loss: 2.17433 - acc: 0.3868 -- iter: 4096/5208
Training Step: 4222 | total loss: 2.17745 | time: 2.603s
| Adam | epoch: 384 | loss: 2.17745 - acc: 0.3883 -- iter: 4608/5208
Training Step: 4223 | total loss: 2.16136 | time: 2.822s
| Adam | epoch: 384 | loss: 2.16136 - acc: 0.3897 -- iter: 5120/5208
Training Step: 4224 | total loss: 2.12291 | time: 3.064s
| Adam | epoch: 384 | loss: 2.12291 - acc: 0.3871 -- iter: 5208/5208
--
Training Step: 4225 | total loss: 2.07806 | time: 0.323s
| Adam | epoch: 385 | loss: 2.07806 - acc: 0.3836 -- iter: 0512/5208
Training Step: 4226 | total loss: 2.03545 | time: 0.579s
| Adam | epoch: 385 | loss: 2.03545 - acc: 0.3847 -- iter: 1024/5208
Training Step: 4227 | total loss: 2.03768 | time: 0.840s
| Adam | epoch: 385 | loss: 2.03768 - acc: 0.3847 -- iter: 1536/5208
Training Step: 4228 | total loss: 2.08524 | time: 1.140s
| Adam | epoch: 385 | loss: 2.08524 - acc: 0.3830 -- iter: 2048/5208
Training Step: 4229 | total loss: 2.06804 | time: 1.425s
| Adam | epoch: 385 | loss: 2.06804 - acc: 0.3826 -- iter: 2560/5208
Training Step: 4230 | total loss: 2.04620 | time: 1.721s
| Adam | epoch: 385 | loss: 2.04620 - acc: 0.3801 -- iter: 3072/5208
Training Step: 4231 | total loss: 2.04181 | time: 2.014s
| Adam | epoch: 385 | loss: 2.04181 - acc: 0.3794 -- iter: 3584/5208
Training Step: 4232 | total loss: 2.04972 | time: 2.342s
| Adam | epoch: 385 | loss: 2.04972 - acc: 0.3793 -- iter: 4096/5208
Training Step: 4233 | total loss: 2.02988 | time: 2.649s
| Adam | epoch: 385 | loss: 2.02988 - acc: 0.3857 -- iter: 4608/5208
Training Step: 4234 | total loss: 2.02422 | time: 2.948s
| Adam | epoch: 385 | loss: 2.02422 - acc: 0.3852 -- iter: 5120/5208
Training Step: 4235 | total loss: 1.98853 | time: 3.179s
| Adam | epoch: 385 | loss: 1.98853 - acc: 0.3883 -- iter: 5208/5208
--
Training Step: 4236 | total loss: 2.08960 | time: 0.268s
| Adam | epoch: 386 | loss: 2.08960 - acc: 0.3858 -- iter: 0512/5208
Training Step: 4237 | total loss: 2.16444 | time: 0.566s
| Adam | epoch: 386 | loss: 2.16444 - acc: 0.3882 -- iter: 1024/5208
Training Step: 4238 | total loss: 2.14920 | time: 0.821s
| Adam | epoch: 386 | loss: 2.14920 - acc: 0.3921 -- iter: 1536/5208
```



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Training Step: 4239 | total loss: 2.15649 | time: 1.102s
| Adam | epoch: 386 | loss: 2.15649 - acc: 0.3945 -- iter: 2048/5208
Training Step: 4240 | total loss: 2.13054 | time: 1.402s
| Adam | epoch: 386 | loss: 2.13054 - acc: 0.3963 -- iter: 2560/5208
Training Step: 4241 | total loss: 2.11581 | time: 1.720s
| Adam | epoch: 386 | loss: 2.11581 - acc: 0.3965 -- iter: 3072/5208
Training Step: 4242 | total loss: 2.09642 | time: 1.997s
| Adam | epoch: 386 | loss: 2.09642 - acc: 0.3973 -- iter: 3584/5208
Training Step: 4243 | total loss: 2.09155 | time: 2.299s
| Adam | epoch: 386 | loss: 2.09155 - acc: 0.3952 -- iter: 4096/5208
Training Step: 4244 | total loss: 2.06121 | time: 2.589s
| Adam | epoch: 386 | loss: 2.06121 - acc: 0.3981 -- iter: 4608/5208
Training Step: 4245 | total loss: 2.03345 | time: 2.886s
| Adam | epoch: 386 | loss: 2.03345 - acc: 0.3940 -- iter: 5120/5208
Training Step: 4246 | total loss: 2.02417 | time: 3.180s
| Adam | epoch: 386 | loss: 2.02417 - acc: 0.3931 -- iter: 5208/5208
--
Training Step: 4247 | total loss: 2.06498 | time: 0.233s
| Adam | epoch: 387 | loss: 2.06498 - acc: 0.3966 -- iter: 0512/5208
Training Step: 4248 | total loss: 2.03719 | time: 0.490s
| Adam | epoch: 387 | loss: 2.03719 - acc: 0.3853 -- iter: 1024/5208
Training Step: 4249 | total loss: 1.99759 | time: 0.768s
| Adam | epoch: 387 | loss: 1.99759 - acc: 0.3775 -- iter: 1536/5208
Training Step: 4250 | total loss: 2.00932 | time: 1.029s
| Adam | epoch: 387 | loss: 2.00932 - acc: 0.3790 -- iter: 2048/5208
Training Step: 4251 | total loss: 1.98432 | time: 1.296s
| Adam | epoch: 387 | loss: 1.98432 - acc: 0.3839 -- iter: 2560/5208
Training Step: 4252 | total loss: 2.94709 | time: 1.576s
| Adam | epoch: 387 | loss: 2.94709 - acc: 0.3800 -- iter: 3072/5208
Training Step: 4253 | total loss: 2.84310 | time: 1.862s
| Adam | epoch: 387 | loss: 2.84310 - acc: 0.3831 -- iter: 3584/5208
Training Step: 4254 | total loss: 2.75111 | time: 2.154s
| Adam | epoch: 387 | loss: 2.75111 - acc: 0.3791 -- iter: 4096/5208
Training Step: 4255 | total loss: 2.69161 | time: 2.431s
| Adam | epoch: 387 | loss: 2.69161 - acc: 0.3793 -- iter: 4608/5208
Training Step: 4256 | total loss: 2.60289 | time: 2.717s
| Adam | epoch: 387 | loss: 2.60289 - acc: 0.3777 -- iter: 5120/5208
Training Step: 4257 | total loss: 2.52788 | time: 3.015s
| Adam | epoch: 387 | loss: 2.52788 - acc: 0.3774 -- iter: 5208/5208
--
Training Step: 4258 | total loss: 2.48802 | time: 0.284s
| Adam | epoch: 388 | loss: 2.48802 - acc: 0.3827 -- iter: 0512/5208
Training Step: 4259 | total loss: 2.44074 | time: 0.513s
| Adam | epoch: 388 | loss: 2.44074 - acc: 0.3813 -- iter: 1024/5208
Training Step: 4260 | total loss: 2.34127 | time: 0.747s
| Adam | epoch: 388 | loss: 2.34127 - acc: 0.3750 -- iter: 1536/5208
Training Step: 4261 | total loss: 2.24542 | time: 1.043s
| Adam | epoch: 388 | loss: 2.24542 - acc: 0.3693 -- iter: 2048/5208
Training Step: 4262 | total loss: 2.24204 | time: 1.344s
| Adam | epoch: 388 | loss: 2.24204 - acc: 0.3726 -- iter: 2560/5208
Training Step: 4263 | total loss: 2.21480 | time: 1.616s
| Adam | epoch: 388 | loss: 2.21480 - acc: 0.3709 -- iter: 3072/5208
Training Step: 4264 | total loss: 3.49519 | time: 1.926s
| Adam | epoch: 388 | loss: 3.49519 - acc: 0.3635 -- iter: 3584/5208
Training Step: 4265 | total loss: 3.36029 | time: 2.229s
| Adam | epoch: 388 | loss: 3.36029 - acc: 0.3644 -- iter: 4096/5208
Training Step: 4266 | total loss: 3.24842 | time: 2.521s
| Adam | epoch: 388 | loss: 3.24842 - acc: 0.3684 -- iter: 4608/5208
Training Step: 4267 | total loss: 3.13288 | time: 2.807s
| Adam | epoch: 388 | loss: 3.13288 - acc: 0.3679 -- iter: 5120/5208
Training Step: 4268 | total loss: 3.06776 | time: 3.088s
| Adam | epoch: 388 | loss: 3.06776 - acc: 0.3680 -- iter: 5208/5208
--
Training Step: 4269 | total loss: 2.97591 | time: 0.291s
| Adam | epoch: 389 | loss: 2.97591 - acc: 0.3709 -- iter: 0512/5208
Training Step: 4270 | total loss: 2.88886 | time: 0.594s
| Adam | epoch: 389 | loss: 2.88886 - acc: 0.3686 -- iter: 1024/5208
Training Step: 4271 | total loss: 2.83008 | time: 0.824s
| Adam | epoch: 389 | loss: 2.83008 - acc: 0.3702 -- iter: 1536/5208
Training Step: 4272 | total loss: 2.78117 | time: 1.090s
| Adam | epoch: 389 | loss: 2.78117 - acc: 0.3718 -- iter: 2048/5208
Training Step: 4273 | total loss: 2.73268 | time: 1.383s
| Adam | epoch: 389 | loss: 2.73268 - acc: 0.3755 -- iter: 2560/5208
Training Step: 4274 | total loss: 2.66384 | time: 1.709s
| Adam | epoch: 389 | loss: 2.66384 - acc: 0.3751 -- iter: 3072/5208
Training Step: 4275 | total loss: 2.58695 | time: 1.969s
| Adam | epoch: 389 | loss: 2.58695 - acc: 0.3807 -- iter: 3584/5208
Training Step: 4276 | total loss: 2.53728 | time: 2.279s
| Adam | epoch: 389 | loss: 2.53728 - acc: 0.3765 -- iter: 4096/5208
Training Step: 4277 | total loss: 2.51463 | time: 2.580s
| Adam | epoch: 389 | loss: 2.51463 - acc: 0.3765 -- iter: 4608/5208
Training Step: 4278 | total loss: 2.45522 | time: 2.877s
| Adam | epoch: 389 | loss: 2.45522 - acc: 0.3771 -- iter: 5120/5208
```



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Training Step: 4279 | total loss: 2.41336 | time: 3.189s
| Adam | epoch: 389 | loss: 2.41336 - acc: 0.3806 -- iter: 5208/5208
--
Training Step: 4280 | total loss: 2.38587 | time: 0.313s
| Adam | epoch: 390 | loss: 2.38587 - acc: 0.3785 -- iter: 0512/5208
Training Step: 4281 | total loss: 2.34125 | time: 0.595s
| Adam | epoch: 390 | loss: 2.34125 - acc: 0.3801 -- iter: 1024/5208
Training Step: 4282 | total loss: 2.29099 | time: 0.951s
| Adam | epoch: 390 | loss: 2.29099 - acc: 0.3806 -- iter: 1536/5208
Training Step: 4283 | total loss: 2.29120 | time: 1.171s
| Adam | epoch: 390 | loss: 2.29120 - acc: 0.3808 -- iter: 2048/5208
Training Step: 4284 | total loss: 2.28337 | time: 1.424s
| Adam | epoch: 390 | loss: 2.28337 - acc: 0.3893 -- iter: 2560/5208
Training Step: 4285 | total loss: 2.26721 | time: 1.706s
| Adam | epoch: 390 | loss: 2.26721 - acc: 0.3970 -- iter: 3072/5208
Training Step: 4286 | total loss: 2.22211 | time: 2.006s
| Adam | epoch: 390 | loss: 2.22211 - acc: 0.3918 -- iter: 3584/5208
Training Step: 4287 | total loss: 2.20184 | time: 2.309s
| Adam | epoch: 390 | loss: 2.20184 - acc: 0.3896 -- iter: 4096/5208
Training Step: 4288 | total loss: 2.19290 | time: 2.625s
| Adam | epoch: 390 | loss: 2.19290 - acc: 0.3893 -- iter: 4608/5208
Training Step: 4289 | total loss: 2.18059 | time: 2.936s
| Adam | epoch: 390 | loss: 2.18059 - acc: 0.3894 -- iter: 5120/5208
Training Step: 4290 | total loss: 2.15901 | time: 3.210s
| Adam | epoch: 390 | loss: 2.15901 - acc: 0.3917 -- iter: 5208/5208
--
Training Step: 4291 | total loss: 2.16487 | time: 0.298s
| Adam | epoch: 391 | loss: 2.16487 - acc: 0.3900 -- iter: 0512/5208
Training Step: 4292 | total loss: 2.14984 | time: 0.573s
| Adam | epoch: 391 | loss: 2.14984 - acc: 0.3872 -- iter: 1024/5208
Training Step: 4293 | total loss: 2.12069 | time: 0.862s
| Adam | epoch: 391 | loss: 2.12069 - acc: 0.3816 -- iter: 1536/5208
Training Step: 4294 | total loss: 2.08999 | time: 1.131s
| Adam | epoch: 391 | loss: 2.08999 - acc: 0.3859 -- iter: 2048/5208
Training Step: 4295 | total loss: 2.08909 | time: 1.388s
| Adam | epoch: 391 | loss: 2.08909 - acc: 0.3859 -- iter: 2560/5208
Training Step: 4296 | total loss: 2.03620 | time: 1.626s
| Adam | epoch: 391 | loss: 2.03620 - acc: 0.3780 -- iter: 3072/5208
Training Step: 4297 | total loss: 1.98154 | time: 1.930s
| Adam | epoch: 391 | loss: 1.98154 - acc: 0.3709 -- iter: 3584/5208
Training Step: 4298 | total loss: 1.98267 | time: 2.191s
| Adam | epoch: 391 | loss: 1.98267 - acc: 0.3719 -- iter: 4096/5208
Training Step: 4299 | total loss: 1.96126 | time: 2.490s
| Adam | epoch: 391 | loss: 1.96126 - acc: 0.3789 -- iter: 4608/5208
Training Step: 4300 | total loss: 2.16203 | time: 2.767s
| Adam | epoch: 391 | loss: 2.16203 - acc: 0.3761 -- iter: 5120/5208
Training Step: 4301 | total loss: 2.09685 | time: 3.067s
| Adam | epoch: 391 | loss: 2.09685 - acc: 0.3776 -- iter: 5208/5208
--
Training Step: 4302 | total loss: 2.12021 | time: 0.280s
| Adam | epoch: 392 | loss: 2.12021 - acc: 0.3781 -- iter: 0512/5208
Training Step: 4303 | total loss: 2.10939 | time: 0.548s
| Adam | epoch: 392 | loss: 2.10939 - acc: 0.3807 -- iter: 1024/5208
Training Step: 4304 | total loss: 2.11711 | time: 0.853s
| Adam | epoch: 392 | loss: 2.11711 - acc: 0.3833 -- iter: 1536/5208
Training Step: 4305 | total loss: 2.08641 | time: 1.129s
| Adam | epoch: 392 | loss: 2.08641 - acc: 0.3862 -- iter: 2048/5208
Training Step: 4306 | total loss: 2.06453 | time: 1.424s
| Adam | epoch: 392 | loss: 2.06453 - acc: 0.3893 -- iter: 2560/5208
Training Step: 4307 | total loss: 2.06283 | time: 1.637s
| Adam | epoch: 392 | loss: 2.06283 - acc: 0.3877 -- iter: 3072/5208
Training Step: 4308 | total loss: 2.08325 | time: 1.900s
| Adam | epoch: 392 | loss: 2.08325 - acc: 0.3808 -- iter: 3584/5208
Training Step: 4309 | total loss: 2.08592 | time: 2.183s
| Adam | epoch: 392 | loss: 2.08592 - acc: 0.3802 -- iter: 4096/5208
Training Step: 4310 | total loss: 2.08054 | time: 2.464s
| Adam | epoch: 392 | loss: 2.08054 - acc: 0.3810 -- iter: 4608/5208
Training Step: 4311 | total loss: 2.06106 | time: 2.753s
| Adam | epoch: 392 | loss: 2.06106 - acc: 0.3800 -- iter: 5120/5208
Training Step: 4312 | total loss: 2.23298 | time: 3.055s
| Adam | epoch: 392 | loss: 2.23298 - acc: 0.3750 -- iter: 5208/5208
--
Training Step: 4313 | total loss: 2.20471 | time: 0.280s
| Adam | epoch: 393 | loss: 2.20471 - acc: 0.3786 -- iter: 0512/5208
Training Step: 4314 | total loss: 2.16567 | time: 0.568s
| Adam | epoch: 393 | loss: 2.16567 - acc: 0.3815 -- iter: 1024/5208
Training Step: 4315 | total loss: 2.14154 | time: 0.873s
| Adam | epoch: 393 | loss: 2.14154 - acc: 0.3834 -- iter: 1536/5208
Training Step: 4316 | total loss: 2.12406 | time: 1.175s
| Adam | epoch: 393 | loss: 2.12406 - acc: 0.3824 -- iter: 2048/5208
Training Step: 4317 | total loss: 2.09994 | time: 1.448s
| Adam | epoch: 393 | loss: 2.09994 - acc: 0.3828 -- iter: 2560/5208
Training Step: 4318 | total loss: 2.07120 | time: 1.714s
```

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| Adam | epoch: 393 | loss: 2.07120 - acc: 0.3816 -- iter: 3072/5208
Training Step: 4319 | total loss: 2.08054 | time: 1.972s
| Adam | epoch: 393 | loss: 2.08054 - acc: 0.3776 -- iter: 3584/5208
Training Step: 4320 | total loss: 2.04037 | time: 2.182s
| Adam | epoch: 393 | loss: 2.04037 - acc: 0.3785 -- iter: 4096/5208
Training Step: 4321 | total loss: 2.00047 | time: 2.506s
| Adam | epoch: 393 | loss: 2.00047 - acc: 0.3714 -- iter: 4608/5208
Training Step: 4322 | total loss: 2.05789 | time: 2.762s
| Adam | epoch: 393 | loss: 2.05789 - acc: 0.3725 -- iter: 5120/5208
Training Step: 4323 | total loss: 2.02469 | time: 3.055s
| Adam | epoch: 393 | loss: 2.02469 - acc: 0.3770 -- iter: 5208/5208
--
Training Step: 4324 | total loss: 2.08238 | time: 0.285s
| Adam | epoch: 394 | loss: 2.08238 - acc: 0.3761 -- iter: 0512/5208
Training Step: 4325 | total loss: 2.06907 | time: 0.604s
| Adam | epoch: 394 | loss: 2.06907 - acc: 0.3789 -- iter: 1024/5208
Training Step: 4326 | total loss: 2.09094 | time: 0.900s
| Adam | epoch: 394 | loss: 2.09094 - acc: 0.3799 -- iter: 1536/5208
Training Step: 4327 | total loss: 2.05687 | time: 1.183s
| Adam | epoch: 394 | loss: 2.05687 - acc: 0.3782 -- iter: 2048/5208
Training Step: 4328 | total loss: 2.02041 | time: 1.473s
| Adam | epoch: 394 | loss: 2.02041 - acc: 0.3847 -- iter: 2560/5208
Training Step: 4329 | total loss: 2.00972 | time: 1.764s
| Adam | epoch: 394 | loss: 2.00972 - acc: 0.3865 -- iter: 3072/5208
Training Step: 4330 | total loss: 1.99989 | time: 2.050s
| Adam | epoch: 394 | loss: 1.99989 - acc: 0.3881 -- iter: 3584/5208
Training Step: 4331 | total loss: 2.00002 | time: 2.274s
| Adam | epoch: 394 | loss: 2.00002 - acc: 0.3905 -- iter: 4096/5208
Training Step: 4332 | total loss: 2.04797 | time: 2.528s
| Adam | epoch: 394 | loss: 2.04797 - acc: 0.3935 -- iter: 4608/5208
Training Step: 4333 | total loss: 2.07991 | time: 2.812s
| Adam | epoch: 394 | loss: 2.07991 - acc: 0.3928 -- iter: 5120/5208
Training Step: 4334 | total loss: 2.06986 | time: 3.082s
| Adam | epoch: 394 | loss: 2.06986 - acc: 0.3943 -- iter: 5208/5208
--
Training Step: 4335 | total loss: 2.05782 | time: 0.275s
| Adam | epoch: 395 | loss: 2.05782 - acc: 0.3967 -- iter: 0512/5208
Training Step: 4336 | total loss: 2.11311 | time: 0.550s
| Adam | epoch: 395 | loss: 2.11311 - acc: 0.3965 -- iter: 1024/5208
Training Step: 4337 | total loss: 2.08488 | time: 0.876s
| Adam | epoch: 395 | loss: 2.08488 - acc: 0.3943 -- iter: 1536/5208
Training Step: 4338 | total loss: 2.05652 | time: 1.201s
| Adam | epoch: 395 | loss: 2.05652 - acc: 0.3943 -- iter: 2048/5208
Training Step: 4339 | total loss: 2.05484 | time: 1.508s
| Adam | epoch: 395 | loss: 2.05484 - acc: 0.3953 -- iter: 2560/5208
Training Step: 4340 | total loss: 2.08603 | time: 1.813s
| Adam | epoch: 395 | loss: 2.08603 - acc: 0.3939 -- iter: 3072/5208
Training Step: 4341 | total loss: 2.04641 | time: 2.135s
| Adam | epoch: 395 | loss: 2.04641 - acc: 0.3932 -- iter: 3584/5208
Training Step: 4342 | total loss: 2.00946 | time: 2.398s
| Adam | epoch: 395 | loss: 2.00946 - acc: 0.3929 -- iter: 4096/5208
Training Step: 4343 | total loss: 2.01825 | time: 2.648s
| Adam | epoch: 395 | loss: 2.01825 - acc: 0.3941 -- iter: 4608/5208
Training Step: 4344 | total loss: 2.03840 | time: 2.860s
| Adam | epoch: 395 | loss: 2.03840 - acc: 0.3956 -- iter: 5120/5208
Training Step: 4345 | total loss: 2.05484 | time: 3.168s
| Adam | epoch: 395 | loss: 2.05484 - acc: 0.3969 -- iter: 5208/5208
--
Training Step: 4346 | total loss: 2.04699 | time: 0.255s
| Adam | epoch: 396 | loss: 2.04699 - acc: 0.3969 -- iter: 0512/5208
Training Step: 4347 | total loss: 2.02983 | time: 0.579s
| Adam | epoch: 396 | loss: 2.02983 - acc: 0.3970 -- iter: 1024/5208
Training Step: 4348 | total loss: 2.26362 | time: 0.852s
| Adam | epoch: 396 | loss: 2.26362 - acc: 0.3974 -- iter: 1536/5208
Training Step: 4349 | total loss: 2.23393 | time: 1.180s
| Adam | epoch: 396 | loss: 2.23393 - acc: 0.3961 -- iter: 2048/5208
Training Step: 4350 | total loss: 2.19353 | time: 1.432s
| Adam | epoch: 396 | loss: 2.19353 - acc: 0.3918 -- iter: 2560/5208
Training Step: 4351 | total loss: 2.17204 | time: 1.732s
| Adam | epoch: 396 | loss: 2.17204 - acc: 0.3972 -- iter: 3072/5208
Training Step: 4352 | total loss: 2.13425 | time: 2.020s
| Adam | epoch: 396 | loss: 2.13425 - acc: 0.3993 -- iter: 3584/5208
Training Step: 4353 | total loss: 2.09244 | time: 2.317s
| Adam | epoch: 396 | loss: 2.09244 - acc: 0.3988 -- iter: 4096/5208
Training Step: 4354 | total loss: 2.08160 | time: 2.610s
| Adam | epoch: 396 | loss: 2.08160 - acc: 0.3991 -- iter: 4608/5208
Training Step: 4355 | total loss: 2.07803 | time: 2.853s
| Adam | epoch: 396 | loss: 2.07803 - acc: 0.4004 -- iter: 5120/5208
Training Step: 4356 | total loss: 2.05702 | time: 3.101s
| Adam | epoch: 396 | loss: 2.05702 - acc: 0.3934 -- iter: 5208/5208
--
Training Step: 4357 | total loss: 2.03028 | time: 0.251s
| Adam | epoch: 397 | loss: 2.03028 - acc: 0.3836 -- iter: 0512/5208
```

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Training Step: 4358 | total loss: 2.00830 | time: 0.551s
| Adam | epoch: 397 | loss: 2.00830 - acc: 0.3860 -- iter: 1024/5208
Training Step: 4359 | total loss: 2.01815 | time: 0.831s
| Adam | epoch: 397 | loss: 2.01815 - acc: 0.3834 -- iter: 1536/5208
Training Step: 4360 | total loss: 2.42957 | time: 1.129s
| Adam | epoch: 397 | loss: 2.42957 - acc: 0.3810 -- iter: 2048/5208
Training Step: 4361 | total loss: 2.38266 | time: 1.425s
| Adam | epoch: 397 | loss: 2.38266 - acc: 0.3813 -- iter: 2560/5208
Training Step: 4362 | total loss: 2.35377 | time: 1.722s
| Adam | epoch: 397 | loss: 2.35377 - acc: 0.3846 -- iter: 3072/5208
Training Step: 4363 | total loss: 2.33310 | time: 2.006s
| Adam | epoch: 397 | loss: 2.33310 - acc: 0.3876 -- iter: 3584/5208
Training Step: 4364 | total loss: 2.27950 | time: 2.319s
| Adam | epoch: 397 | loss: 2.27950 - acc: 0.3873 -- iter: 4096/5208
Training Step: 4365 | total loss: 2.23028 | time: 2.607s
| Adam | epoch: 397 | loss: 2.23028 - acc: 0.3876 -- iter: 4608/5208
Training Step: 4366 | total loss: 2.19004 | time: 2.882s
| Adam | epoch: 397 | loss: 2.19004 - acc: 0.3895 -- iter: 5120/5208
Training Step: 4367 | total loss: 2.15435 | time: 3.147s
| Adam | epoch: 397 | loss: 2.15435 - acc: 0.3896 -- iter: 5208/5208
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Training Step: 4368 | total loss: 2.19003 | time: 0.198s
| Adam | epoch: 398 | loss: 2.19003 - acc: 0.3836 -- iter: 0512/5208
Training Step: 4369 | total loss: 2.21795 | time: 0.506s
| Adam | epoch: 398 | loss: 2.21795 - acc: 0.3770 -- iter: 1024/5208
Training Step: 4370 | total loss: 2.19786 | time: 0.780s
| Adam | epoch: 398 | loss: 2.19786 - acc: 0.3831 -- iter: 1536/5208
Training Step: 4371 | total loss: 2.18067 | time: 1.061s
| Adam | epoch: 398 | loss: 2.18067 - acc: 0.3829 -- iter: 2048/5208
Training Step: 4372 | total loss: 2.44582 | time: 1.334s
| Adam | epoch: 398 | loss: 2.44582 - acc: 0.3811 -- iter: 2560/5208
Training Step: 4373 | total loss: 2.41054 | time: 1.642s
| Adam | epoch: 398 | loss: 2.41054 - acc: 0.3807 -- iter: 3072/5208
Training Step: 4374 | total loss: 2.36842 | time: 1.967s
| Adam | epoch: 398 | loss: 2.36842 - acc: 0.3838 -- iter: 3584/5208
Training Step: 4375 | total loss: 2.31535 | time: 2.233s
| Adam | epoch: 398 | loss: 2.31535 - acc: 0.3843 -- iter: 4096/5208
Training Step: 4376 | total loss: 2.26130 | time: 2.540s
| Adam | epoch: 398 | loss: 2.26130 - acc: 0.3842 -- iter: 4608/5208
Training Step: 4377 | total loss: 2.22325 | time: 2.850s
| Adam | epoch: 398 | loss: 2.22325 - acc: 0.3858 -- iter: 5120/5208
Training Step: 4378 | total loss: 2.17249 | time: 3.138s
| Adam | epoch: 398 | loss: 2.17249 - acc: 0.3867 -- iter: 5208/5208
--
Training Step: 4379 | total loss: 2.15094 | time: 0.239s
| Adam | epoch: 399 | loss: 2.15094 - acc: 0.3892 -- iter: 0512/5208
Training Step: 4380 | total loss: 2.14208 | time: 0.466s
| Adam | epoch: 399 | loss: 2.14208 - acc: 0.3946 -- iter: 1024/5208
Training Step: 4381 | total loss: 2.12441 | time: 0.775s
| Adam | epoch: 399 | loss: 2.12441 - acc: 0.3983 -- iter: 1536/5208
Training Step: 4382 | total loss: 2.10801 | time: 1.050s
| Adam | epoch: 399 | loss: 2.10801 - acc: 0.4001 -- iter: 2048/5208
Training Step: 4383 | total loss: 2.07733 | time: 1.315s
| Adam | epoch: 399 | loss: 2.07733 - acc: 0.4013 -- iter: 2560/5208
Training Step: 4384 | total loss: 2.06936 | time: 1.623s
| Adam | epoch: 399 | loss: 2.06936 - acc: 0.3965 -- iter: 3072/5208
Training Step: 4385 | total loss: 2.01483 | time: 1.943s
| Adam | epoch: 399 | loss: 2.01483 - acc: 0.3948 -- iter: 3584/5208
Training Step: 4386 | total loss: 2.03492 | time: 2.216s
| Adam | epoch: 399 | loss: 2.03492 - acc: 0.3930 -- iter: 4096/5208
Training Step: 4387 | total loss: 2.03166 | time: 2.570s
| Adam | epoch: 399 | loss: 2.03166 - acc: 0.3951 -- iter: 4608/5208
Training Step: 4388 | total loss: 2.03062 | time: 2.870s
| Adam | epoch: 399 | loss: 2.03062 - acc: 0.3946 -- iter: 5120/5208
Training Step: 4389 | total loss: 1.99712 | time: 3.151s
| Adam | epoch: 399 | loss: 1.99712 - acc: 0.3966 -- iter: 5208/5208
--
Training Step: 4390 | total loss: 1.97985 | time: 0.287s
| Adam | epoch: 400 | loss: 1.97985 - acc: 0.3962 -- iter: 0512/5208
Training Step: 4391 | total loss: 1.96595 | time: 0.540s
| Adam | epoch: 400 | loss: 1.96595 - acc: 0.3966 -- iter: 1024/5208
Training Step: 4392 | total loss: 1.95426 | time: 0.759s
| Adam | epoch: 400 | loss: 1.95426 - acc: 0.3910 -- iter: 1536/5208
Training Step: 4393 | total loss: 1.92724 | time: 1.063s
| Adam | epoch: 400 | loss: 1.92724 - acc: 0.3860 -- iter: 2048/5208
Training Step: 4394 | total loss: 1.93785 | time: 1.329s
| Adam | epoch: 400 | loss: 1.93785 - acc: 0.3863 -- iter: 2560/5208
Training Step: 4395 | total loss: 1.96069 | time: 1.604s
| Adam | epoch: 400 | loss: 1.96069 - acc: 0.3891 -- iter: 3072/5208
Training Step: 4396 | total loss: 2.11782 | time: 1.941s
| Adam | epoch: 400 | loss: 2.11782 - acc: 0.3912 -- iter: 3584/5208
Training Step: 4397 | total loss: 2.05418 | time: 2.238s
| Adam | epoch: 400 | loss: 2.05418 - acc: 0.3911 -- iter: 4096/5208
```

Training Step: 4398 | total loss: **2.03758** | time: 2.517s
| Adam | epoch: 400 | loss: 2.03758 - acc: 0.3930 -- iter: 4608/5208
Training Step: 4399 | total loss: **2.04589** | time: 2.818s
| Adam | epoch: 400 | loss: 2.04589 - acc: 0.3959 -- iter: 5120/5208
Training Step: 4400 | total loss: **2.02758** | time: 3.098s
| Adam | epoch: 400 | loss: 2.02758 - acc: 0.3983 -- iter: 5208/5208
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WARNING:tensorflow:Issue encountered when serializing layer tensor/LSTM.

Type is unsupported, or the types of the items don't match field type in CollectionDef. Note this is a warning and probably safe to ignore.

'list' object has no attribute 'name'

WARNING:tensorflow:Issue encountered when serializing layer tensor/Dropout.

Type is unsupported, or the types of the items don't match field type in CollectionDef. Note this is a warning and probably safe to ignore.

'list' object has no attribute 'name'

```
WARNING:tensorflow:Issue encountered when serializing layer_tensor/LSTM_1.  
Type is unsupported, or the types of the items don't match field type in CollectionDef. Note this is  
a warning and probably safe to ignore.  
'list' object has no attribute 'name'  
Trained my_trained_model.tfl successfully ...
```

Generate

As we mentioned in the lecture, we start from a place in the original audio track, then use the model to keep predicting new audio frames.

Unfortunately, sometimes it can get stuck in a loop, or just stop generating interesting things so we can give it a kick by jumping to a new point in the song.

Once we've switched, we keep using the model to generate new audio frames!

Below, you can specify a sequence of lengths and changes to the generation process to create a new audio output.

The `sequence` array stores these points. Each item in is an array that stores the **start position** and **segment length**. The default has three, but you can add in as many as you want and/or change the existing values.

```
sequence = [  
    [start1, length1],  
    [start2, length2],  
    [start3, length3],  
    etc....  
]
```

The default code:

- Starts generating 10% through the song and generates 200 frames
- Moves to 60% through the song and generates 300 frames
- Moves to 90% through the song and generates 150 frames

Try with your own!

In [13]:

```
from google.colab import drive  
drive.mount('/content/drive')
```

Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force_remount=True).

In [21]:

```
# Here you can change the paths to other trained models / other song files  
load_generative_seeds_from = song_name  
load_model_from = model_name+".tfl"
```

In [22]:

```
from server_handler import ServerHandler
import settings

my_settings = settings.Settings(args)
print("Important Settings: settings.lstm_layers=", my_settings.lstm_layers, ", settings.lstm_units=", my_settings.lstm_units,
      ", settings.sample_rate=", my_settings.sample_rate)

generation_handler = ServerHandler(my_settings, manual_loading = True)
generation_handler.manual_init_song_model(load_generative_seeds_from, load_model_from)

# slightly experimental interpolation through the latents while generating ...

generation_handler.change_impulse(0.2) # set to 20% sharp

sequence = [
    #Starts generating 10% through the song and generates 200 frames
    [0.1, 200],
    #Moves to 60% through the song and generates 300 frames
    [0.6, 300],
    #Moves to 90% through the song and generates 150 frames
    [0.9, 150],
]

output_audio = []

for i in sequence:
    position_in_the_song = i[0]
    requested_length = i[1]
    generation_handler.change_impulse_smoothly_start(position_in_the_song) # allow interpolation
    audio, predict, reconstruct = generation_handler.generate_audio_sample(requested_length, interactive_i=position_in_the_song)
    output_audio.append(audio)

clear_output()
```

Play Audio

If you want to download the audio, you can use the Colab File Explorer on the left <----.

Find the file `generated_output_exp_concat.wav` and select **download**

In [23]:

```
import librosa
#\\dc\\Kca\\lms\\M
import numpy as np
```

In [24]:

```
from IPython.display import Audio, Image
output_audio = np.concatenate(output_audio)

out_name = 'generated_output_exp_concat.wav'
librosa.output.write_wav(out_name, output_audio, sr=sample_rate)
Audio(out_name)
```

Out[24]:

Your browser does not support the audio element.

Clean up if you are going to train a new model from a different youtube video

In [25]:

```
# fast cleanup  
!mkdir unused  
!mv *.wav unused/  
!mv *.m4a unused/
```

```
mkdir: cannot create directory 'unused': File exists  
mv: cannot stat '*.m4a': No such file or directory
```